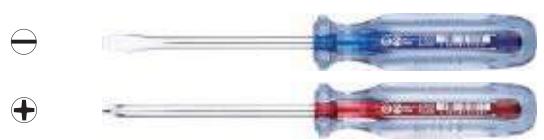


**No.6300 "CRYSTALINE" Screwdriver PAT.**

- Bright quartz "CRYSTALINE" handles. Color coding by  $\oplus\ominus$ .
- Uses cellulose acetate resin.



				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\ominus$	$\oplus$	$\ominus$	$\oplus$				
$\ominus 4.5 \times 50$	4.5	0.6	50	5.0	22.0	138	12 240
$\ominus 5.5 \times 75$	5.5	0.8	75	5.5	22.0	163	12 240
$\ominus 6 \times 100$	6.0	0.9	100	6.0	26.5	205	12 240
$\ominus 8 \times 150$	8.0	1.1	150	8.0	28.5	263	12 120
$\ominus 9 \times 200$	9.0	1.2	200	9.0	28.5	313	6 60
$\ominus 10 \times 250$	10.0	1.2	250	9.0	28.5	363	6 60
$\ominus 10 \times 300$	10.0	1.2	300	9.0	28.5	413	6 60
$\oplus 1 \times 75$	$\oplus$ No.1	75	5.0	22.0	163	12 240	121209
$\oplus 2 \times 100$	$\oplus$ No.2	100	6.0	26.5	205	12 240	121210
$\oplus 3 \times 150$	$\oplus$ No.3	150	8.0	28.5	263	12 120	121211
$\oplus 4 \times 200$	$\oplus$ No.4	200	9.0	28.5	313	6 60	121212

**No.6300 "CRYSTALINE" Screwdriver (Long Shank Type) PAT.**

- Bright quartz "CRYSTALINE" handle. Marked for  $\oplus\ominus$ .
- Long shank for fastening in a hard-to-reach space.
- Uses cellulose acetate resin.



				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\ominus$	$\oplus$	$\ominus$	$\oplus$				
$\ominus 5 \times 150$	5.0	0.8	150	5.0	22	238	12 120
$\ominus 5 \times 200$	5.0	0.8	200	5.0	22	288	12 120
$\ominus 5 \times 250$	5.0	0.8	250	5.0	22	338	12 120
$\oplus 1 \times 150$	$\oplus$ No.1	150	5.0	22	238	12 120	121216
$\oplus 1 \times 200$	$\oplus$ No.1	200	5.0	22	288	12 120	121217
$\oplus 1 \times 250$	$\oplus$ No.1	250	5.0	22	338	12 120	121218
$\oplus 2 \times 150$	$\oplus$ No.2	150	6.0	26.5	255	12 120	121219
$\oplus 2 \times 200$	$\oplus$ No.2	200	6.0	26.5	305	12 120	121220
$\oplus 2 \times 250$	$\oplus$ No.2	250	6.0	26.5	355	12 120	121221

**No.6300E "CRYSTALINE" Screwdriver NEW PAT.**

- Bright quartz "CRYSTALINE" handles. Color coding by  $\oplus\ominus$ .
- Uses cellulose acetate resin.
- Large handle for even better operability.



				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\ominus$	$\oplus$	$\ominus$	$\oplus$				
$\ominus 5 \times 150$	5.0	0.8	150	5.0	26.5	255	12 120
$\ominus 5 \times 200$	5.0	0.8	200	5.0	26.5	305	12 120
$\ominus 5 \times 250$	5.0	0.8	250	5.0	26.5	355	12 120
$\oplus 1 \times 150$	$\oplus$ No.1	150	5.0	26.5	255	12 120	121257
$\oplus 1 \times 200$	$\oplus$ No.1	200	5.0	26.5	305	12 120	121258
$\oplus 1 \times 250$	$\oplus$ No.1	250	5.0	26.5	355	12 120	121259

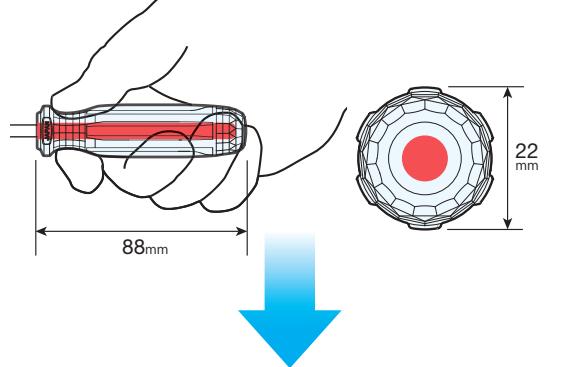
**One point**

The dia. **26.5 mm** handle model newly available for overseas market!

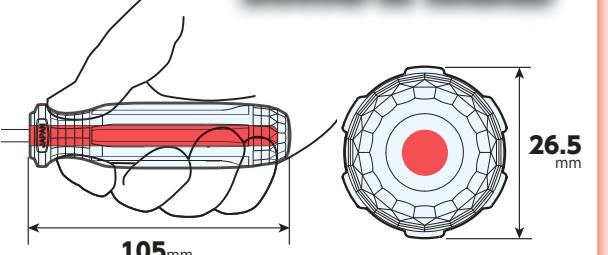
More comfortable to hold and more convenient to tighten screws.  
Larger handle than our conventional 22mm model.

**Conventional Model**

No.6300

**New Model**

No.6300E

**No.6100 "CRYSTALINE" Screwdriver (Thin Shank Type) PAT.**

- Bright quartz "CRYSTALINE" handle. Marked for  $\oplus\ominus$ .
- Thin shank screwdriver. Ideal for working in cramped spaces.
- Uses cellulose acetate resin.



				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\ominus$	$\oplus$	$\ominus$	$\oplus$				
$\ominus 4 \times 50$	4.0	0.45	50	4	16	124.5	12 240
$\ominus 4 \times 75$	4.0	0.45	75	4	16	149.5	12 240
$\ominus 4 \times 100$	4.0	0.45	100	4	16	174.5	12 240
$\ominus 4 \times 150$	4.0	0.45	150	4	16	224.5	12 120
$\ominus 4 \times 200$	4.0	0.45	200	4	16	274.5	12 120
$\oplus 0 \times 75$	$\oplus$ No.0	75	4	16	149.5	12 240	121323
$\oplus 0 \times 100$	$\oplus$ No.0	100	4	16	174.5	12 240	121009
$\oplus 0 \times 150$	$\oplus$ No.0	150	4	16	224.5	12 120	121325
$\oplus 0 \times 200$	$\oplus$ No.0	200	4	16	274.5	12 120	121326
$\oplus 1 \times 75$	$\oplus$ No.1	75	4	16	149.5	12 240	121008
$\oplus 1 \times 100$	$\oplus$ No.1	100	4	16	174.5	12 240	121012
$\oplus 1 \times 150$	$\oplus$ No.1	150	4	16	224.5	12 120	121013
$\oplus 1 \times 200$	$\oplus$ No.1	200	4	16	274.5	12 120	121014
$\oplus 2 \times 200$	$\oplus$ No.2	200	4	16	274.5	12 120	121015
$\oplus 2 \times 250$	$\oplus$ No.2	250	4	16	324.5	12 120	121016

**No.6200 "CRYSTALINE" Screwdriver (Stubby Type) PAT.**

- Bright quartz "CRYSTALINE" handle. Marked for  $\oplus\ominus$ .
- Ideal for working in cramped spaces.
- Uses cellulose acetate resin.

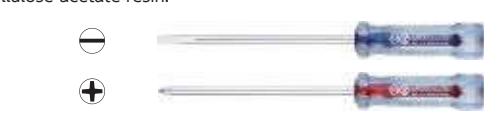


				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\ominus$	$\oplus$	$\ominus$	$\oplus$				
$\ominus 6 \times 38$	6.0	0.9	38	6	30	87.5	12 240
$\oplus 1 \times 38$	$\oplus$ No.1	38	6	30	87.5	12 240	121102

				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\oplus 2 \times 38$	$\oplus$ No.2	38	6	30	87.5	12 240	121103

**No.6900 "CRYSTALINE" Screwdriver (Precision Type) PAT.**

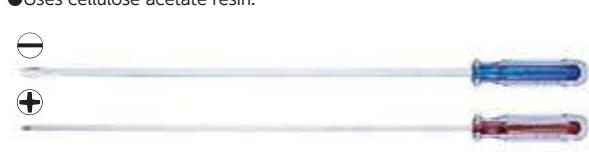
- Bright quartz "CRYSTALINE" handle. Marked for  $\oplus\ominus$ .
- For intense precision work.
- Handle butt is recessed to allow pressing with fingertips for fast turning.
- Uses cellulose acetate resin.



				Inner Ctn.	Outer Ctn.	(mm)	EDP No.
$\ominus$	$\oplus$	$\ominus$	$\oplus$				
$\ominus 2.5 \times 50$	2.5	0.35	50	3	14	101	24 240
$\ominus 2.5 \times 75$	2.5	0.35	75	3	14	126	24 240
$\ominus 2.5 \times 100$	2.5	0.35	100	3	14	151	24 240
$\oplus 0 \times 50$	$\oplus$ No.0	50	3	14	101	24 240	121327
$\oplus 0 \times 75$	$\oplus$ No.0	75	3	14	126	24 240	121304

**No.6603 Long Square Shank Screwdriver PAT.**

- 450mm-long square shank. Fully hardened tough special steel.
- Effective with high strength tightening.
- For fastening screws of sanitary appliances, etc.
- Uses cellulose acetate resin.



**No. B-370 Non-Slip Tang-Thru Screwdriver**

- Unique Non-Slip finish that prevents slipping even if oil adheres on the grip.
- Tang-thru type with a large nut. Good for heavy duty work.
- The end of the handle has a color ring facilitates to distinguish the tip difference at a glance.



No.B-370				Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5×	75	5.5	0.8	75	5.5	27.4 183
∅ 6 ×	100	6.0	0.9	100	6.4	30.7 226
∅ 8 ×	150	8.0	1.1	150	8.0	36.2 290
∅ 1 ×	75	∅No.1	75	5.5	27.4	183
∅ 2 ×	100	∅No.2	100	6.4	30.7	226
∅ 3 ×	150	∅No.3	150	8.0	36.2	290

**No. 4600 POZIDRIV Screwdriver**

- High precision black point tip.
- Good for assembly of European and American furniture and skiing equipment.



No.4600				Inner Ctn.	Outer Ctn.	EDP No.
PZ1×	75	PZ No.1	75	5	28	172
PZ2×	100	PZ No.2	100	6	31	204
PZ3×	150	PZ No.3	150	8	35	265

**No. 4500 Power Grip Screwdriver**

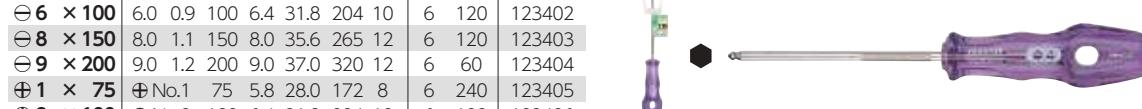
- Plastic handle and tang-thru shank stand up to heavy-duty work.
- Hexagon bolster for strong tightening with a spanner or alike.
- Cellulose acetate resin grip. Ergonomic design.



No.4500				Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5×	75	5.5	0.8	75	5.8	28.0 172 8
∅ 6 ×	100	6.0	0.9	100	6.4	31.8 204 10
∅ 8 ×	150	8.0	1.1	150	8.0	35.6 265 12
∅ 9 ×	200	9.0	1.2	200	9.0	37.0 320 12
∅ 1 ×	75	∅No.1	75	5.8	28.0	172 8
∅ 2 ×	100	∅No.2	100	6.4	31.8	204 10
∅ 3 ×	150	∅No.3	150	8.0	35.6	265 12
∅ 4 ×	200	∅No.4	200	9.0	37.0	320 12

**No. B-5400BP Power Grip UltraBall Screwdriver**

- Champagne gold plating keeping the precise tip quality.
- Cellulose acetate resin grip. Ergonomic design.
- A knurled shank keeps hands from slipping in fast turning.



No.B-5400BP				Outer Ctn.	EDP No.
H 1.5×	80	1.5	80	2.5	17.0 155
H 2 ×	80	2	80	3.0	17.0 155
H 2.5×	80	2.5	80	3.0	17.0 155
H 3 ×	120	3	120	3.5	28.0 217
H 4 ×	120	4	120	5.0	31.8 224
H 5 ×	120	5	120	6.0	35.6 235
H 6 ×	120	6	120	7.0	35.6 235

**No. B-370 Non-Slip Tang-Thru Screwdriver**

- Unique Non-Slip finish that prevents slipping even if oil adheres on the grip.
- Tang-thru type with a large nut. Good for heavy duty work.
- The end of the handle has a color ring facilitates to distinguish the tip difference at a glance.



No.B-370				Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5×	75	5.5	0.8	75	5.5	27.4 183
∅ 6 ×	100	6.0	0.9	100	6.4	30.7 226
∅ 8 ×	150	8.0	1.1	150	8.0	36.2 290
∅ 1 ×	75	∅No.1	75	5.5	27.4	183
∅ 2 ×	100	∅No.2	100	6.4	30.7	226
∅ 3 ×	150	∅No.3	150	8.0	36.2	290

**No. 4600 POZIDRIV Screwdriver**

- High precision black point tip.
- Good for assembly of European and American furniture and skiing equipment.



No.4600				Inner Ctn.	Outer Ctn.	EDP No.
PZ1×	75	PZ No.1	75	5	28	172
PZ2×	100	PZ No.2	100	6	31	204
PZ3×	150	PZ No.3	150	8	35	265

**No. 4500 Power Grip Screwdriver**

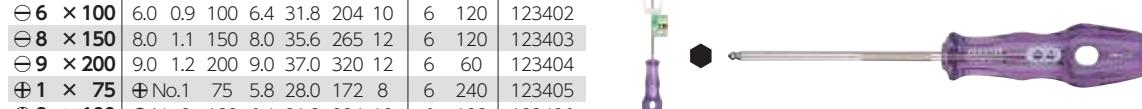
- Plastic handle and tang-thru shank stand up to heavy-duty work.
- Hexagon bolster for strong tightening with a spanner or alike.
- Cellulose acetate resin grip. Ergonomic design.



No.4500				Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5×	75	∅No.1	75	5	28	172
∅ 6 ×	100	∅No.2	100	6	31	204
∅ 8 ×	150	∅No.3	150	8	35	265

**No. B-5400BP Power Grip UltraBall Screwdriver**

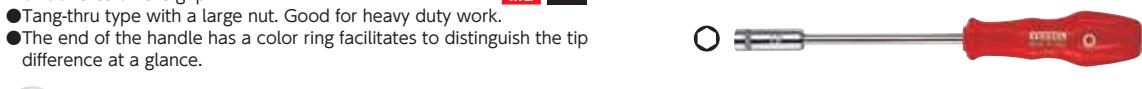
- Champagne gold plating keeping the precise tip quality.
- Cellulose acetate resin grip. Ergonomic design.
- A knurled shank keeps hands from slipping in fast turning.



No.B-5400BP				Outer Ctn.	EDP No.
H 1.5×	80	1.5	80	2.5	17.0 155
H 2 ×	80	2	80	3.0	17.0 155
H 2.5×	80	2.5	80	3.0	17.0 155
H 3 ×	120	3	120	3.5	28.0 217
H 4 ×	120	4	120	5.0	31.8 224
H 5 ×	120	5	120	6.0	35.6 235
H 6 ×	120	6	120	7.0	35.6 235

**No. 4100 Power Socket Screwdriver**

- For fastening and loosening hexagon bolts and nuts.



No.4100				Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5×	115	5	8	18	115	5.0 28.0 212
∅ 5.5×115	115	5.5	9	18	115	5.0 28.0 212
∅ 6 × 115	115	6	9	18	115	5.5 28.0 212
∅ 7 × 125	125	7	10	18	125	5.5 28.0 222
∅ 8 × 125	125	8	12	20	125	5.5 31.8 229
∅ 9 × 125	125	9	12.7	20	125	6.3 31.8 229
∅ 10 × 125	125	10	15	20	125	7.0 35.6 240
∅ 11 × 125	125	11	15	20	125	7.0 35.6 240
∅ 12 × 150	150	12	17	20	150	8.0 35.6 265
∅ 13 × 150	150	13	19	20	150	8.0 35.6 265

**No. TD-250Y/ 220B/ 240G 3-Point Screwdriver**

- 3 sizes in 1 compact handy tool.
- Y-handle fits in the palm of the hand. Delivers powerful fastening strength.



⊕ No. TD-250Y      ◻ No. TD-220B      ◉ No. TD-240G

Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-250Y	⊕1 / ⊕2 / ⊕3	120×95×18	10	251211
TD-220B	H2 / H2.5 / H3	120×95×18	10	251221
TD-240G	H4 / H5			

## Plastic Grip Screwdrivers Ergonomic shape that fits your palm

**VESSEL**

### No. TD-410 "FAMIDORA" Reversible Blade Screwdriver

- Ergonomic handle that fits in the palm of the hand.
- Fully hardened shank. Tough tip.

Cr-V  
steel



Set content		Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
Handle	length 101.5mm dia. 29mm				
Driver blades	⊕2 / ⊕6x150mm	185x75x31	10	60	251801

### No. TD-2100 "Dual-Tone" Screwdriver Set

- Set of a handle and interchangeable blades, convenient for repair/ disassembly of electric goods, toys, and equipment instruments.
- Octagonal grip effectively transmitting fastening force; made of polypropylene, oil and chemical resistant.
- Blades have a thin non-electrolytic plating layer and fits screws.
- Magnetized tip catching screws. ●Provided with a handy bag.

Cr-V  
steel



Set content		Package size (mm)	Inner Ctn.	EDP No.
Handle	length 100mm dia. 30mm			
Driver blades	⊕1, ⊕2, ⊕4, ⊕6x120mm	126x64x35	40	247030

### No. TD-912N "FAMIDORA 12" Screwdriver 12-Piece Set

- Ergonomic handle that fits in the palm of the hand.
- Color-coded interchangeable driver blades.
- Provided with a screwdriver stand, which is convenient for storage.

Cr-V  
steel



Set content		Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
Handle	length 100mm dia. 29.5mm				
Driver blades	⊕0, ⊕1, ⊕2, ⊕2.5, ⊕4, ⊕6, Awl, Pin extractorx128mm	160x150x35	10	60	251800

### No. TD-800 "FAMIDORA 8" Screwdriver 8-Piece Set

- Ergonomic handle that fits in the palm of the hand.
- Color-coded interchangeable driver blades.
- Provided with a screwdriver stand, which is convenient for storage.

Cr-V  
steel



Set content		Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
Handle	length 100mm dia. 29.5mm				
Driver blades	⊕0, ⊕1, ⊕2, ⊕2.5, ⊕4, ⊕6, Awl, Pin extractorx128mm	160x150x35	10	60	251800

## One point

### Features of the FAMIDORA series Small handle / Big handle

Compact design useful as a standing set in households, offices, stores, etc.



Without big handle, the screwdriver can be used.



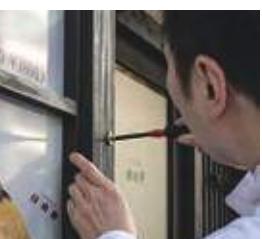
In a gap beside a cash register



In a drawer



For mounting hardware



For fastening a sign with screws

No. 550

## "SEPADORA" Screwdriver



No. 550  
"SEPADORA"  
Screwdriver

Eco screwdrivers of the special manufacturing process that enables the shank and the handle to be separated. The ergonomic grip designed in the motif of a leaf is superior in tightening force.

**Caution (SEPADORA)**

- Eco screwdrivers are not tang-thru screwdrivers; hitting a screwdriver with a hammer disables the shank from being pulled out or causes it to be deformed or broken.

※The above illustration is for reference only.



Environmentally friendly products with low environmental impacts are desired in corporate activities.  
All are ecological when held by hand.

**No.550 "SEPADORA" Screwdriver** PAT.

- Shank and grip are separable. Sort and recycle.
- Wavy octagonal grip fits your palm and transmits driving torque effectively.



← See P21

	Inner Ctn.	Outer Ctn.	(mm)	EDP No.																																																																	
∅ 5.5 × 75	5.5	0.8	75	5.0 30.0 175	6	120			121601	∅ 6 × 100	6.0	0.9	100	6.0 33.5 210	6	60			121602	∅ 8 × 150	8.0	1.1	150	8.0 36.0 275	6	60			121603	⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121611	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121612	⊕ 2 × 150	⊕No.2	150	6.0	33.5 260	6	60			121613	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616
6	120			121601																																																																	
∅ 6 × 100	6.0	0.9	100	6.0 33.5 210	6	60			121602	∅ 8 × 150	8.0	1.1	150	8.0 36.0 275	6	60			121603	⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121611	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121612	⊕ 2 × 150	⊕No.2	150	6.0	33.5 260	6	60			121613	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616										
6	60			121602																																																																	
∅ 8 × 150	8.0	1.1	150	8.0 36.0 275	6	60			121603	⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121611	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121612	⊕ 2 × 150	⊕No.2	150	6.0	33.5 260	6	60			121613	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616																				
6	60			121603																																																																	
⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121611	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121612	⊕ 2 × 150	⊕No.2	150	6.0	33.5 260	6	60			121613	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616																														
6	120			121611																																																																	
⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121612	⊕ 2 × 150	⊕No.2	150	6.0	33.5 260	6	60			121613	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616																																								
6	60			121612																																																																	
⊕ 2 × 150	⊕No.2	150	6.0	33.5 260	6	60			121613	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616																																																		
6	60			121613																																																																	
⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121616																																																												
6	60			121616																																																																	

**No.560 "SEPADORA" Screwdriver (Thin Shank Type)** PAT.

- Shank and grip are separable. Sort and recycle.
- Wavy octagonal grip fits your palm and transmits driving torque effectively.
- Thin shank screwdriver. Ideal for screw tightening in narrow spaces.



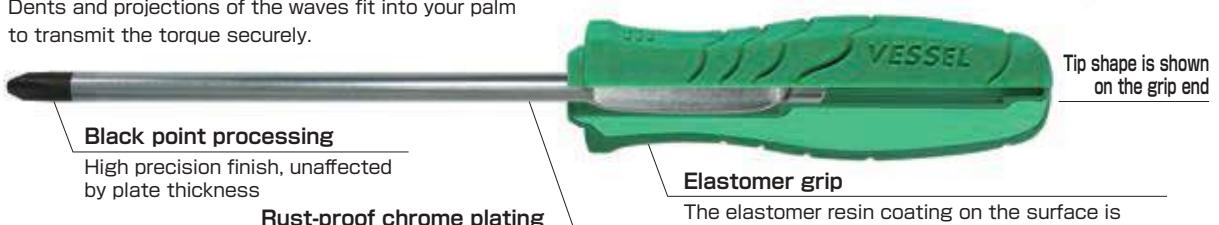
	Inner Ctn.	Outer Ctn.	(mm)	EDP No.																																																																	
⊖ 4 × 75	4.0	0.5	75	4.0 19.8 153	12	240			121632	⊖ 4 × 100	4.0	0.5	100	4.0 19.8 178	12	240			121633	⊖ 4 × 150	4.0	0.5	150	4.0 19.8 228	12	240			121634	⊖ 4 × 200	4.0	0.5	200	4.0 19.8 278	12	240			121635	⊕ 0 × 75	⊕No.0	75	4.0	19.8 153	12	240			121642	⊕ 1 × 100	⊕No.1	100	4.0	19.8 178	12	240			121647	⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651
12	240			121632																																																																	
⊖ 4 × 100	4.0	0.5	100	4.0 19.8 178	12	240			121633	⊖ 4 × 150	4.0	0.5	150	4.0 19.8 228	12	240			121634	⊖ 4 × 200	4.0	0.5	200	4.0 19.8 278	12	240			121635	⊕ 0 × 75	⊕No.0	75	4.0	19.8 153	12	240			121642	⊕ 1 × 100	⊕No.1	100	4.0	19.8 178	12	240			121647	⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651										
12	240			121633																																																																	
⊖ 4 × 150	4.0	0.5	150	4.0 19.8 228	12	240			121634	⊖ 4 × 200	4.0	0.5	200	4.0 19.8 278	12	240			121635	⊕ 0 × 75	⊕No.0	75	4.0	19.8 153	12	240			121642	⊕ 1 × 100	⊕No.1	100	4.0	19.8 178	12	240			121647	⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651																				
12	240			121634																																																																	
⊖ 4 × 200	4.0	0.5	200	4.0 19.8 278	12	240			121635	⊕ 0 × 75	⊕No.0	75	4.0	19.8 153	12	240			121642	⊕ 1 × 100	⊕No.1	100	4.0	19.8 178	12	240			121647	⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651																														
12	240			121635																																																																	
⊕ 0 × 75	⊕No.0	75	4.0	19.8 153	12	240			121642	⊕ 1 × 100	⊕No.1	100	4.0	19.8 178	12	240			121647	⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651																																								
12	240			121642																																																																	
⊕ 1 × 100	⊕No.1	100	4.0	19.8 178	12	240			121647	⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651																																																		
12	240			121647																																																																	
⊕ 2 × 150	⊕No.2	150	4.0	19.8 228	12	240			121651																																																												
12	240			121651																																																																	

**One point****Concave octagonal grip**

Dents and projections of the waves fit into your palm to transmit the torque securely.

**Black point processing**

High precision finish, unaffected by plate thickness

**Rust-proof chrome plating****No.500 ECO VALUE Screwdriver**

- Robust looking black hard grip.
- Wavy octagonal grip fits your palm and transmits driving torque effectively.
- Special grip with a clip.
- Thin shank screwdriver. Ideal for screw tightening in precision fields.
- Champagne gold plating, keeping the precise tip quality.



	Inner Ctn.	Outer Ctn.	(mm)	EDP No.																																																							
∅ 5.5 × 75	5.5	0.8	75	5.0 30.0 175	6	120			121751	∅ 6 × 100	6.0	0.9	100	6.0 33.5 210	6	60			121752	∅ 8 × 150	8.0	1.1	150	8.0 36.0 275	6	60			121753	⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121761	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121762	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121766
6	120			121751																																																							
∅ 6 × 100	6.0	0.9	100	6.0 33.5 210	6	60			121752	∅ 8 × 150	8.0	1.1	150	8.0 36.0 275	6	60			121753	⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121761	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121762	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121766										
6	60			121752																																																							
∅ 8 × 150	8.0	1.1	150	8.0 36.0 275	6	60			121753	⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121761	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121762	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121766																				
6	60			121753																																																							
⊕ 1 × 75	⊕No.1	75	5.0	30.0 175	6	120			121761	⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121762	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121766																														
6	120			121761																																																							
⊕ 2 × 100	⊕No.2	100	6.0	33.5 210	6	60			121762	⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121766																																								
6	60			121762																																																							
⊕ 3 × 150	⊕No.3	150	8.0	36.0 275	6	60			121766																																																		
6	60			121766																																																							

\*The shank is not separable.

**No.510 ECO VALUE Screwdriver**

- Robust looking black hard grip.
- Wavy octagonal grip fits your palm and transmits driving torque effectively.
- Thin shank screwdriver. Ideal for screw tightening in narrow spaces.
- Champagne gold plating, keeping the precise tip quality.



	Inner Ctn.	Outer Ctn.	(mm)	EDP No.															
⊖ 4 × 75	4.0	0.45	75	4.0 19.8 153	12	240			121782	⊖ 4 × 100	4.0	0.45	100	4.0 19.8 178	12	240			121783
12	240			121782															
⊖ 4 × 100	4.0	0.45	100	4.0 19.8 178	12	240			121783										
12	240			121783															

\*The shank is not separable.

**No.540 ECO VALUE Screwdriver (Precision Type)**

- Robust looking black hard grip.
- Wavy octagonal grip fits your palm and transmits driving torque effectively.
- Special grip with a clip.
- Thin shank screwdriver. Ideal for screw tightening in precision fields.
- Champagne gold plating, keeping the precise tip quality.



	Inner Ctn.	Outer Ctn.	(mm)	EDP No.																									
∅ 2.5 × 50	2.5	0.35	50	3.0 15.4 99	24	480			121821	⊕ 00 × 50	⊕No.0	50	3.0	15.4 99	24	480			121824	⊕ 0 × 75	⊕No.0	75	3.0	15.4 124	24	480			121825
24	480			121821																									
⊕ 00 × 50	⊕No.0	50	3.0	15.4 99	24	480			121824	⊕ 0 × 75	⊕No.0	75	3.0	15.4 124	24	480			121825										
24	480			121824																									
⊕ 0 × 75	⊕No.0	75	3.0	15.4 124	24	480			121825																				
24	480			121825																									

\*The shank is not separable.

**No.520 ECO VALUE Screwdriver (Stubby Type)**

- Robust looking black hard grip.
- Wavy octagonal grip fits your palm and transmits driving torque effectively.
- Ideal for working in cramped spaces.
- Champagne gold plating, keeping the precise tip quality.



	Inner Ctn.	Outer Ctn.	(mm)	EDP No.																									
⊖ 6 × 25	6.0	0.9	25	6.0 45 50	12	240			121811	⊕ 1 × 25	⊕No.1	25	6.0	45 50	12	240			121812	⊕ 2 × 25	⊕No.2	25	6.0	45 50	12	240			121813
12	240			121811																									
⊕ 1 × 25	⊕No.1	25	6.0	45 50	12	240			121812	⊕ 2 × 25	⊕No.2	25	6.0	45 50	12	240			121813										
12	240			121812																									
⊕ 2 × 25	⊕No.2	25	6.0	45 50	12	240			121813																				
12	240			121813																									

\*The shank is not separable.

**No.460NT-9S ECOSOFT T-bar screwdriver (w/socket bit set)**

- The ergonomic grip fits comfortably in your hand. T-shaped handle transmits high torque without applying too much force by your hand.
- Ball-lock type holds a socket assuredly. Hex drive 6.35mm.



Set content	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
Body	length 165.5mm dia. 100mm			
Socket bits	A/F5, A/F5.5, A/F6, A/F7, A/F8, A/F9, A/F10, A/F12, A/F13 x 26.5mm			
Accessories	Socket bit holder	235	120×30	5 30 121891

\*The shank is not separable.

## Powerful Tang-Thru Screwdriver



Luxurious furniture finish coating on the large handle, which fits more comfortably in your hand the more you use it.

Its better usability compared to plastic handles attracts support from many professional users.

## VESSEL

Feel the nature in your hand. Wooden Handle Screwdrivers

### No. 100 Powerful Tang-Thru Screwdriver

- Wooden handle and Tang-Thru shank with thick end cap.
- Large and long grip comfortable to hold.
- Black point tip.



No.100	Tip	Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5 × 75	5.5	0.8	75	5.8	182
∅ 6 × 100	6.0	0.9	100	6.4	223
∅ 6 × 300	6.0	0.9	300	6.4	423
∅ 8 × 150	8.0	1.1	150	8.0	294
⊕ 1 × 75	⊕No.1	75	5.8	27.0	182
⊕ 2 × 100	⊕No.2	100	6.4	30.5	223
⊕ 2 × 300	⊕No.2	300	6.4	30.5	423
⊕ 3 × 150	⊕No.3	150	8.0	34.0	294

No.350	Tip	Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5 × 75	5.5	0.8	75	5.5	25
∅ 6 × 100	6.0	0.9	100	6.3	28
∅ 8 × 150	8.0	1.1	150	8.0	33
∅ 9 × 200	9.0	1.2	200	9.0	36
∅ 10 × 300	10.0	1.2	300	9.0	36
⊕ 1 × 75	⊕No.1	75	5.0	25	178
⊕ 2 × 100	⊕No.2	100	6.3	28	218
⊕ 3 × 150	⊕No.3	150	8.0	33	283
⊕ 4 × 200	⊕No.4	200	9.0	36	355

### No. 350 Wooden Handle Tang-Thru Screwdriver

- Widely-used standard wooden handle screwdriver.
- Wooden handle and Tang-Thru shank with large end cap.
- Shot blasting tip.



No.350	Tip	Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
∅ 5.5 × 75	5.5	0.8	75	5.5	25
∅ 6 × 100	6.0	0.9	100	6.3	28
∅ 8 × 150	8.0	1.1	150	8.0	33
∅ 9 × 200	9.0	1.2	200	9.0	36
∅ 10 × 300	10.0	1.2	300	9.0	36
⊕ 1 × 75	⊕No.1	75	5.0	25	178
⊕ 2 × 100	⊕No.2	100	6.3	28	218
⊕ 3 × 150	⊕No.3	150	8.0	33	283
⊕ 4 × 200	⊕No.4	200	9.0	36	355

### No. 350 Wooden Handle Tang-Thru Screwdriver (Long Shank Type)

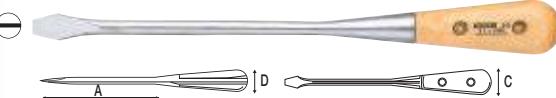
- Wooden handle and Tang-Thru shank.
- Long shank for fastening in a hard-to-reach space.



No.350	Tip	Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
∅ 6 × 200	6.0	0.9	200	6.3	28
∅ 6 × 250	6.0	0.9	250	6.3	28
∅ 6 × 300	6.0	0.9	300	6.3	28
⊕ 2 × 200	⊕No.2	200	6.3	28	320
⊕ 2 × 250	⊕No.2	250	6.3	28	370
⊕ 2 × 300	⊕No.2	300	6.3	28	420

### No. 30 "SPLIT" Handle Screwdriver

- Joined Tang-Thru shank and handle. Super strong type.



No.30	Tip	Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
∅ 9.5 × 150	9.5	1.2	9.5	145	29
∅ 11 × 200	11	1.2	11	195	285

No. 300

## Wood-Compo Screwdriver



HAND TOOLS

BITS &amp; SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

## VESSEL

Does not slip even when oily Non-Slip Screwdriver

### No. 300 Wood-Compo Screwdriver PAT.

- Extraordinary non-slip grip; Secure working efficiency even with oily hands.
- Wood-composite resin, reproducing the natural material texture.
- Rust-resistant black chrome plating shank.

### No. B-330 Wood-Compo Tang-Thru Screwdriver PAT.

- Extraordinary non-slip grip; Secure working efficiency even with oily hands.
- Tang-thru type, which can be tapped by a hammer. With star-shaped nut.
- Rust-resistant black chrome plating shank.



No.300      Inner Ctn. Outer Ctn. (mm) EDP No.

⊖ 5.5×	75	5.5	0.8	75	5.5	30	182	6	120	120021
⊖ 6×	100	6.0	0.9	100	6.4	32	215	6	120	120022
⊖ 6×	150	6.0	0.9	150	6.4	32	265	6	120	120027
⊖ 8×	150	8.0	1.1	150	8.0	35	275	6	120	120023
⊕ 1×	75	⊕No.1	75	5.5	30	182	6	120	120024	
⊕ 2×	100	⊕No.2	100	6.4	32	215	6	120	120025	
⊕ 2×	150	⊕No.2	150	6.4	32	265	6	120	120029	
⊕ 3×	150	⊕No.3	150	8.0	35	275	6	120	120026	

No.B-330      Inner Ctn. Outer Ctn. (mm) EDP No.

⊖ 5.5×	75	5.5	0.8	75	5.5	30	183	6	120	120041
⊖ 6×	100	6.0	0.9	100	6.4	32	217	6	120	120042
⊖ 6×	150	6.0	0.9	150	6.4	32	267	6	60	120043
⊖ 8×	150	8.0	1.1	150	8.0	35	277	6	60	120044
⊕ 1×	75	⊕No.1	75	5.5	30	183	6	120	120045	
⊕ 2×	100	⊕No.2	100	6.4	32	217	6	120	120046	
⊕ 2×	150	⊕No.2	150	6.4	32	267	6	60	120047	
⊕ 3×	150	⊕No.3	150	8.0	35	277	6	60	120048	

### No. B-300 Wood-Compo S/D (w/hanging card) PAT.

- Extraordinary non-slip grip; Secure working efficiency even with oily hands.
- Wood-composite resin, reproducing the natural material texture.
- Rust-resistant black chrome plating shank.



No.B-300      Inner Ctn. Outer Ctn. (mm) EDP No.

⊖ 5.5×	75	5.5	0.8	75	5.5	30	183	6	120	120071
⊖ 6×	100	6.0	0.9	100	6.4	32	217	6	120	120072
⊖ 6×	150	6.0	0.9	150	6.4	32	267	6	60	120073
⊖ 8×	150	8.0	1.1	150	8.0	35	277	6	60	120074
⊕ 1×	75	⊕No.1	75	5.5	30	183	6	120	120075	
⊕ 2×	100	⊕No.2	100	6.4	32	217	6	120	120076	
⊕ 2×	150	⊕No.2	150	6.4	32	267	6	60	120077	
⊕ 3×	150	⊕No.3	150	8.0	35	277	6	60	120078	

### No. 320 Wood-Compo Screwdriver (Stubby Type) PAT.

- Stubby type, which is convenient for tightening screws in cramped spaces.
- Wood-composite resin, reproducing the natural material texture.
- Rust-resistant black chrome plating shank.



No.320      Inner Ctn. Outer Ctn. (mm) EDP No.

⊖ 6×	15	6.0	0.9	15	6.0	35	68	6	120	120035
⊕ 2×	15	15	6.0	15	6.0	35	68	6	120	120037



Ultimate Non-Slip Screwdriver even with oily hands

Uses biomass plastic which contains 70% wood powder. This compound material forms the wood-compo screwdrivers, which is a new product of a category that can be called a "new wooden handled" screwdriver with texture of wood and excellent strength.

At development phase, this product proved to be "non-slip" even in an oily hand.

This feature is most applicable to work that involves oil such as car maintenance and iron work.



One point



Cr-V  
Steel

HAND TOOLS

BITS &amp; SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

27

## Non-Slip Screwdriver Does not slip even when oily

### No. B-340TX Wood-Compo TORX Screwdriver PAT.

- Extraordinary non-slip grip; Secures working efficiency even with oily hands.
- Wood-composite resin, reproducing the natural material texture.
- Non-electrolytic plating, keeping the precise tip quality.
- Also good for tamper-proof TORX screws.



No. B-340TX		I*	T	+	0	0	Inner Ctn.	Outer Ctn.	EDP No.
T10HX 80	2.72	80	5.5	30	188	6	120		120081
T15HX 80	3.26	80	5.5	30	188	6	120		120082
T20HX120	3.84	120	5.5	30	228	6	120		120083
T25HX120	4.40	120	6.4	32	236	6	60		120084
T27HX120	4.96	120	6.4	32	236	6	60		120085
T30HX120	5.49	120	8.0	35	246	6	60		120086
T40HX120	6.60	120	8.0	35	246	6	60		120087

TORX® is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

### No. B-380NT Wood-Compo Socket Screwdriver PAT.

- Extraordinary non-slip grip; Secures working efficiency even with oily hands. Wood-composite resin, reproducing the natural material texture.
- Black oxide plated socket.
- Rust resistant chrome plating. Hexagonal shank for fastening with a wrench.



No. B-380NT		I	O	O	I	H	+	0	0	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5 x125	5	8	18	125	5.0	30.0	224	6	60			120091
A/F 5.5x125	5.5	9	18	125	5.0	30.0	224	6	60			120092
A/F 7 x125	7	10	18	125	5.0	30.0	224	6	60			120093
A/F 8 x125	8	12	20	125	5.0	32.0	233	6	60			120094
A/F 10 x125	10	15	20	125	7.0	32.0	233	6	60			120095
A/F 12 x150	12	17	20	125	7.0	32.0	233	6	60			120096
A/F 13 x150	13	19	22	125	7.0	32.0	233	6	60			120097
A/F 14 x150	14	19	22	125	7.0	32.0	233	6	60			120098

### No. B-370 Non-slip Tang-Thru Screwdrivers

- Unique Non-Slip finish that prevents slipping even if oil adheres on the grip.
- Tang-thru type with a large nut. Good for heavy duty work.
- The end of the handle has a color ring facilitates to distinguish the tip difference at a glance.



No. B-370		I	O	O	I	H	+	0	0	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 5.5x 75	5.5	0.8	75	5.5	27.4	183	6	60				267590
⊖ 6 x 100	6.0	0.9	100	6.4	30.7	226	6	60				267591
⊖ 8 x 150	8.0	1.1	150	8.0	36.2	290	6	60				267592
⊕ 1 x 75	⊕ No.1	75	5.5	27.4	183	6	60					267593
⊕ 2 x 100	⊕ No.2	100	6.4	30.7	226	6	60					267594
⊕ 3 x 150	⊕ No.3	150	8.0	36.2	290	6	60					267595

## VESSEL

## VESSEL

## Non-Slip Screwdriver Does not slip even when oily

### No. B-340TX Wood-Compo TORX Screwdriver PAT.

- Extraordinary non-slip grip; Secures working efficiency even with oily hands.
- Wood-composite resin, reproducing the natural material texture.
- Non-electrolytic plating, keeping the precise tip quality.
- Also good for tamper-proof TORX screws.



No. B-340TX		I*	T	+	0	0	Inner Ctn.	Outer Ctn.	EDP No.
T10HX 80	2.72	80	5.5	30	188	6	120		120081
T15HX 80	3.26	80	5.5	30	188	6	120		120082
T20HX120	3.84	120	5.5	30	228	6	120		120083
T25HX120	4.40	120	6.4	32	236	6	60		120084
T27HX120	4.96	120	6.4	32	236	6	60		120085
T30HX120	5.49	120	8.0	35	246	6	60		120086
T40HX120	6.60	120	8.0	35	246	6	60		120087

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### No. B-380NT Wood-Compo Socket Screwdriver PAT.

- Extraordinary non-slip grip; Secures working efficiency even with oily hands. Wood-composite resin, reproducing the natural material texture.
- Black oxide plated socket.
- Rust resistant chrome plating. Hexagonal shank for fastening with a wrench.



No. B-380NT		I	O	O	I	H	+	0	0	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5 x125	5	8	18	125	5.0	30.0	224	6	60			120091
A/F 5.5x125	5.5	9	18	125	5.0	30.0	224	6	60			120092
A/F 7 x125	7	10	18	125	5.0	30.0	224	6	60			120093
A/F 8 x125	8	12	20	125	5.0	32.0	233	6	60			120094
A/F 10 x125	10	15	20	125	7.0	32.0	233	6	60			120095
A/F 12 x150	12	17	20	125	7.0	32.0	233	6	60			120096
A/F 13 x150	13	19	22	125	7.0	32.0	233	6	60			120097
A/F 14 x150	14	19	22	125	7.0	32.0	233	6	60			120098

### No. B-370 Non-slip Tang-Thru Screwdrivers

- Unique Non-Slip finish that prevents slipping even if oil adheres on the grip.
- Tang-thru type with a large nut. Good for heavy duty work.
- The end of the handle has a color ring facilitates to distinguish the tip difference at a glance.



No. B-370		I	O	O	I	H	+	0	0	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 5.5x 75	5.5	0.8	75	5.5	27.4	183	6	60				267590
⊖ 6 x 100	6.0	0.9	100	6.4	30.7	226	6	60				267591
⊖ 8 x 150	8.0	1.1	150	8.0	36.2	290	6	60				267592
⊕ 1 x 75	⊕ No.1	75	5.5	27.4	183	6	60					267593
⊕ 2 x 100	⊕ No.2	100	6.4	30.7	226	6	60					267594
⊕ 3 x 150	⊕ No.3	150	8.0	36.2	290	6	60					267595

Inner Ctn.: 3 sets, Outer Ctn.: 9 sets

No. 990

## G-grip Screwdriver



## VESSEL

For ultra precision and small screws. Precision Screwdrivers

### No. 990 | G-grip Screwdriver

PAT.

- The weight of the steel ball keeps the end cap in an optimum position for a grip.

StepFlat  
Cr-V Steel

- Black point tip, fitting well screws.
- Slotted tip is cut straight.



No.990 I (mm) Inner Ctn. Outer Ctn. EDP No.

⊖ 1.8 × 50	1.8	0.25	50	2.5	16	21	148	12	240	125901
⊖ 2.5 × 75	2.5	0.3	75	2.5	16	21	173	12	240	125902
⊖ 3 × 100	3	0.5	100	3.0	16	21	198	12	240	125903
⊖ 4 × 100	4	0.6	100	4.0	16	21	198	12	240	125904
⊖ 5 × 100	5	0.8	100	5.0	30	38	215	6	60	125905
⊕ 00 × 75	⊕No.00	75	2.5	16	21	173	12	240	125911	
⊕ 0 × 100	⊕No.0	100	3.0	16	21	198	12	240	125912	
⊕ 1 × 100	⊕No.1	100	3.0	30	38	215	6	60	125913	
⊕ 2 × 100	⊕No.2	100	5.0	30	38	215	6	60	125914	

### No. 9902/9903 | 3-Piece Micro Screwdriver Set

Cr-V Steel

- 2 types recommended to precision fields.
- Set of frequently used sizes.
- For adjustment and repair of precision device, electric device, glasses, watches, etc.



Model No.	Set content	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
9902	No.9900 ⊖00×75, ⊕0×100, ⊖1.8×50	235×70×15	5	30	125636
9903	No.9900 ⊖00×75, ⊕2.5×75, ⊖3×100	235×70×15	5	30	125637

### No. 990TX | G-grip TORX Screwdriver

PAT.

- The weight of the steel ball keeps the end cap in an optimum position for a grip.

MagicSpring  
Cr-V Steel  
※T6~T20

- A special precision spring is welded to the tip by laser, enabling the screwdriver to catch a TORX screw firmly by spring action.



No.990TX I (mm) Inner Ctn. Outer Ctn. EDP No.

T3 × 40	1.13	40	2.5	16	21	138	12	240	125921
T5 × 40	1.42	40	2.5	16	21	138	12	240	125923
⊕ MagicSpring T6 × 40	1.69	40	2.5	16	21	138	12	240	125924
⊕ MagicSpring T8 × 40	2.3	40	2.5	16	21	138	12	240	125926
⊕ MagicSpring T9 × 40	2.48	40	4.0	16	21	138	12	240	125927
⊕ MagicSpring T10×80	2.72	80	4.0	30	38	195	6	60	125928
⊕ MagicSpring T15×80	3.26	80	5.5	30	38	195	6	60	125929
⊕ MagicSpring T20×80	3.84	80	5.5	30	38	195	6	60	125930

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### No. 9900 | Micro Screwdriver

- Equipped with a cap for fast turning on the grip.
- Remarkably highly precise black point tip.

Cr-V Steel



No.9900 I (mm) Inner Ctn. Outer Ctn. EDP No.

⊖ 1.8 × 50	1.8	0.25	50	2.5	10	145	12	120	125621
⊖ 2.5 × 75	2.5	0.35	75	2.5	10	170	12	120	125622
⊖ 3 × 100	3	0.45	100	3	10	195	12	120	125623
⊖ 3 × 150	3	0.45	150	3	10	245	12	120	125624
⊕ 00 × 75	⊕No.00	75	2.5	10	170	12	120	125625	
⊕ 0 × 100	⊕No.0	100	3	10	195	12	120	125626	
⊕ 0 × 150	⊕No.0	150	3	10	245	12	120	125627	

### Catches a TORX screw

A special-shape spring is welded to the tip by laser.

### No. 990TX

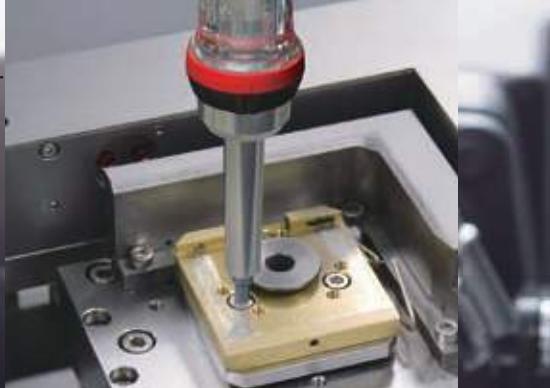
T6 / T8 / T9 / T10 / T15 / T20

MagicSpring

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# Ratchet Screwdriver



This functionally enhanced screwdriver enables screw tightening by simple repeated wrist movements.

Improved gear strength combined with our unique ratchet design makes these screwdrivers suitable for the most strenuous tightening jobs.

**No. TD-6804MG Ratchet Screwdriver (4-pc bit set)**

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Magnetic bits can be replaced with one-touch.
- Bit insertion part  $\bullet$ 6.35mm.



## Set content

Body	length 177mm dia. 28.5mm
Bits	$\oplus$ 1, $\oplus$ 2, $\oplus$ 3, $\ominus$ 6 $\times$ 25.4mm

Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235x80x29	5	30	247022

**No. TD-6808MG Ratchet Screwdriver (8-pc bit set)**

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Stores 8 types of bits including HEX bit. Magnetic bits can be replaced with one-touch.
- Bit insertion part  $\bullet$ 6.35mm.



## Set content

Body	length 177mm dia. 28.5mm
Bits	$\oplus$ 1, $\oplus$ 2, $\oplus$ 3, $\ominus$ 6, H2.5, H3, H4, H5 $\times$ 25.4mm

Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235x80x29	5	30	247023

**No. TD-6808TX Ratchet Screwdriver TORX (8-pc bit set)**

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Stores 8 types of bits including TORX bit. Magnetic bits can be replaced with one-touch.
- Bit insertion part  $\bullet$ 6.35mm.



## Set content

Body	length 177mm dia. 28.5mm
Bits	$\oplus$ 2, $\oplus$ 3 $\times$ 25.4mm

Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235x80x29	5	30	247024

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**No. TD-6816MG Ratchet Screwdriver (16-pc bit set)**

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- 16 types of bits to adapt to various types of work. Magnetic bits can be replaced with one-touch.
- Bit insertion part  $\bullet$ 6.35mm.



## Set content

Body	length 177mm dia. 28.5mm
Bits	$\oplus$ 1, $\oplus$ 2, $\oplus$ 3, $\ominus$ 6, H2, H2.5, H3, H4, H5, T10H, T15H, T20H, T25H, T27H, T30H, T40H $\times$ 25.4mm

Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235x90x29	5	30	247025

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**No. TD-6700W-23 Ratchet Stubby Screwdriver**

- Improves workability in cramped spaces! Stubby type that fits in your hand.
- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Ball-lock bits can be replaced with one-touch.
- Bit insertion part  $\bullet$ 6.35mm.



## Set content

Body	length 77mm dia. 35mm
Bits	$\oplus$ 2 / $\oplus$ 3 $\times$ 35mm

Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
135x70x40	10	60	247026

**No. TD-6700FX-4 Ratchet Stubby Screwdriver with Flexible Shaft**

- Improves workability in cramped spaces! Stubby type that fits in your hand.
- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Ball-lock bits can be replaced with one-touch.
- Bit insertion part  $\bullet$ 6.35mm.



## Set content

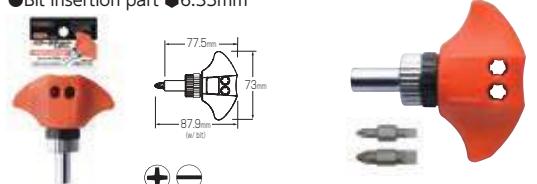
Body	length 77mm dia. 35mm
Bits	$\oplus$ 1, $\oplus$ 2, $\ominus$ 6 $\times$ 33mm

Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235x80x40	5	30	247027

Flexible Shaft (length 165mm)

**No. TD-81 Power Ratchet Screwdriver**

- Ratchet fine feed enables to fasten with a little wrist movement.
- Ideal ratchet mechanism for sufficient final tightening.
- 2 double-ended bits (different size combination) can be stored within the handle.
- Bit insertion part ●6.35mm



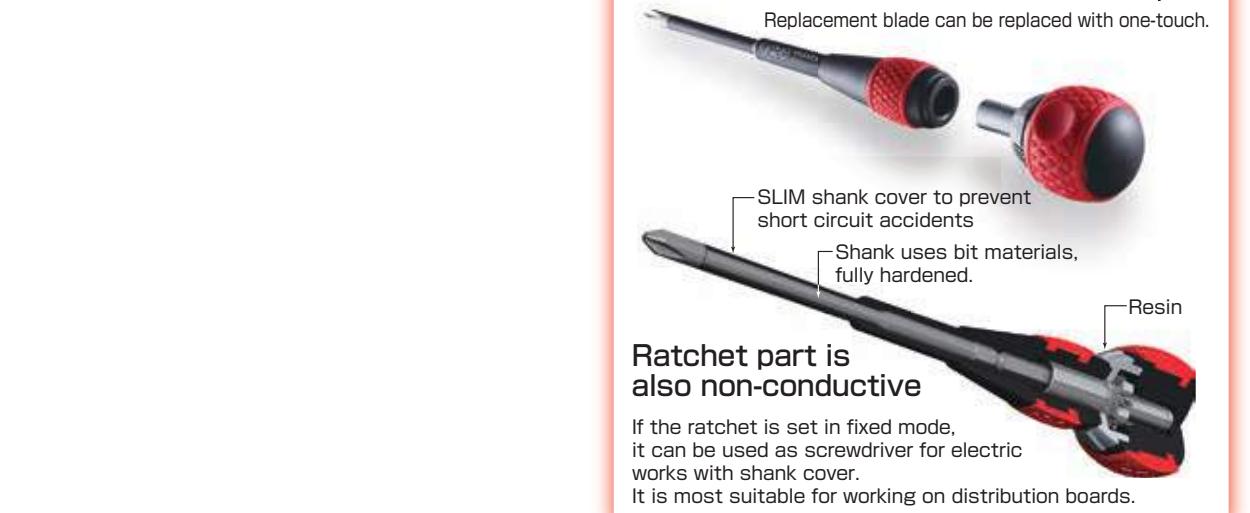
Model No.	Color	Bits	Package size (mm)	Inner Ctn.	EDP No.
TD-81R	Red	⊕1/⊖4, ⊕2/⊖6×25.4	115×73×34	10	250081

**No. TD-80 T-Bar Ratchet Screwdriver**

- Ratchet driving mechanism allows you to tighten a screw without adjusting your grip.
- Bit insertion part ●6.35mm

**One point**

Shanks are detachable from the ratchet part  
Replacement blade can be replaced with one-touch.

**No. 2200 Ball Ratchet Screwdriver**

- With 36-teeth gear ratchet to realize comfortable operation with fine tuning.
- Shank cover prevents short circuits. Thin shank is convenient for operating on terminal blocks.
- Shank uses bit materials, fully hardened. Replacement shank is available as option.



No.2200		Inner Ctn.	Outer Ctn.	EDP No.
⊖6x 100	6.0 0.8 100 6.0 41 200	6	60	125395
⊖6x 150	6.0 0.8 150 6.0 41 250	6	60	125396
⊕2 x 100	⊕No.2 100 6.0 41 200	6	60	125345
⊕2 x 150	⊕No.2 150 6.0 41 250	6	60	125346
⊕3 x 150	⊕No.3 150 6.0 41 250	6	60	125347

⚠ Electric insulation is not guaranteed. For safety purposes, shut off power before use.

**No. 2200B Ball Ratchet Screwdriver Replacement Blade**

- Shank uses bit materials, fully hardened.
- Replacement blade; can be replaced by pulling out the ball-grip part of No.2200.



No.2200B		Inner Ctn.	Outer Ctn.	EDP No.
⊖6x 100	6.0 0.8 100 6.0 158	6	60	125397
⊖6x 150	6.0 0.8 150 6.0 208	6	60	125398
⊕2 x 100	⊕No.2 100 6.0 158	6	60	125348
⊕2 x 150	⊕No.2 150 6.0 208	6	60	125349
⊕3 x 150	⊕No.3 150 6.0 208	6	60	125350

**No. TD-74 Flat-shaped Ratchet Screwdriver (straight type)**

- 18mm thin head ratchet screwdriver.
- Magnetized bits (Overall length: 18mm) for cramped space included.
- 2pcs of bit can be stored in the handle. With a hole for hanging.
- High-precision ratchet gear mechanism realizes ideal fastening.



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-74	Flat-shaped Ratchet Screwdriver (Straight type) Bits ⊕1, ⊖2, ⊖6×18mm	160×35×21	10	250074

**No. TD-75 Flat-shaped Ratchet Screwdriver (straight type)**

- 18mm thin head ratchet screwdriver.
- Magnetized bits (Overall length: 18mm) for cramped space included.
- 2pcs of bit can be stored in the handle. With a hole for hanging.
- High-precision ratchet gear mechanism realizes ideal fastening.



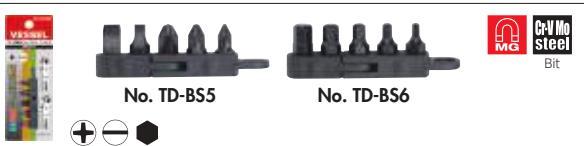
Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-75	Flat-shaped Ratchet Screwdriver (Straight type) Bits ⊕1, ⊖2, ⊖2, ⊖3, ⊖4, ⊖6×18mm Bit holder	160×50×21	10	250075

**No. TD-76 Flat-shaped Ratchet Screwdriver (straight type)**

- 18mm thin head ratchet screwdriver.
- Magnetized bits (Overall length: 18mm) for cramped space included.
- 2pcs of bit can be stored in the handle. With a hole for hanging.
- High-precision ratchet gear mechanism realizes ideal fastening.



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-76	Flat-shaped Ratchet Screwdriver (Straight type) Bits ⊕1, ⊖2, ⊖2, ⊖3, ⊖4, ⊖6, H2.5, H3, H4, H5, H6×18mm Bit holder	160×50×21	10	250076

**No. TD-BS 18mm replacement bits**

Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-BS5	Bits ⊕1, ⊖2, ⊖3, ⊖4, ⊖6×18mm Bit holder	120×40×23	10	251304
TD-BS6	Bits H2.5, H3, H4, H5, H6×18mm Bit holder	120×40×23	10	251305

**No. TD-77 Flat-shaped Ratchet Screwdriver (bent-up type)**

- 18mm thin head ratchet screwdriver.
- Magnetized bits (Overall length: 18mm) for cramped space included.
- 2pcs of bit can be stored in the handle. With a hole for hanging.
- High-precision ratchet gear mechanism realizes ideal fastening.



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-77	Flat-shaped Ratchet Screwdriver (Angled type) Bits ⊕1, ⊖2, ⊖6×18mm	160×35×21	10	250077

**No. TD-78 Flat-shaped Ratchet Screwdriver (bent-up type)**

- 18mm thin head ratchet screwdriver.
- Magnetized bits (Overall length: 18mm) for cramped space included.
- 2pcs of bit can be stored in the handle. With a hole for hanging.
- High-precision ratchet gear mechanism realizes ideal fastening.



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-78	Flat-shaped Ratchet Screwdriver (Angled type) Bits ⊕1, ⊖2, ⊖2, ⊖3, ⊖4, ⊖6×18mm Bit holder	160×50×21	10	250078

**No. TD-79 Flat-shaped Ratchet Screwdriver (bent-up type)**

- 18mm thin head ratchet screwdriver.
- Magnetized bits (Overall length: 18mm) for cramped space included.
- 2pcs of bit can be stored in the handle. With a hole for hanging.
- High-precision ratchet gear mechanism realizes ideal fastening.



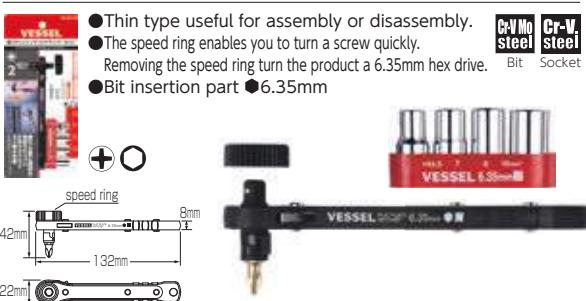
Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-79	Flat-shaped Ratchet Screwdriver (Angled type) Bits ⊕1, ⊖2, ⊖2, ⊖3, ⊖4, ⊖6, H2.5, H3, H4, H5, H6×18mm Bit holder	160×50×21	10	250079

**No. TD-70 Flat Plate Ratchet Screwdriver Set**

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bits	⊕1, ⊕2, ⊕3, ⊕4, ⊕6, H2.5, H3, H4, H5, H6×25.4mm	190×85×27	40	250070
Accessory	Bit belt holder			

**No. TD-71 Flat Plate Ratchet Screwdriver**

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bit	⊕2×25.4mm	190×85×27	40	250071

**No. TD-72 Flat Plate Ratchet Screwdriver Set**

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bit	⊕2×25.4mm	190×85×27	40	250072
Sockets	A/F 5.5, 7, 8, 10×26mm			
Accessory	Socket holder			

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bits	T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, ⊕2, ⊕6×25.4mm	190×85×27	10	252022
Accessory	Magnetic Screw Holder Bit belt holder			

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**No. TD-73MC Plate Ratchet Screw Catcher**

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bits	⊕1, ⊕2, ⊕3, ⊕4, ⊕6, H 2.5, 3, 4, 5, 6×25.4mm	190×85×27	40	250073
Accessory	Magnetic Screw Holder Bit belt holder			

**No. TX-12MC Plate Ratchet/Magnetic Screw Catcher(TORX)**

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bits	T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, ⊕2, ⊕6×25.4mm	190×85×27	10	252022
Accessory	Magnetic Screw Holder Bit belt holder			

**No. TX-11 Plate Ratchet TORX Set**

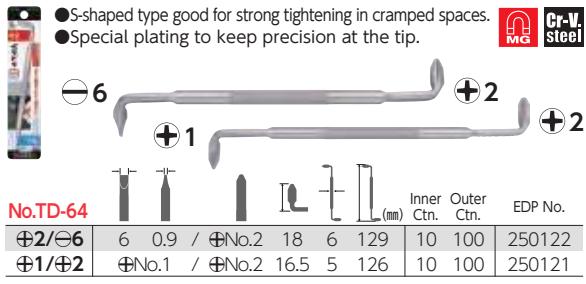
Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver			
Bit	⊕2×25.4mm	190×85×27	40	250072
Sockets	A/F 5.5, 7, 8, 10×26mm			
Accessory	Socket holder			

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**No. TD-BS Replacement Bit Set**

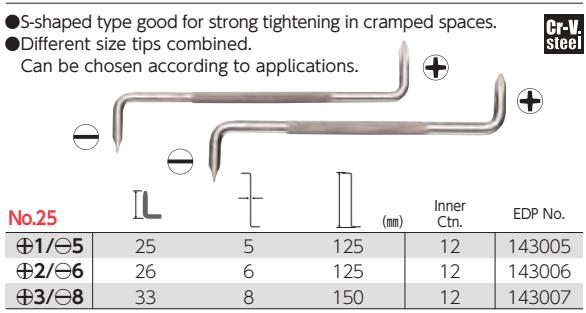
Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-BS1	⊕1, ⊕2, ⊕3, ⊕4, ⊕6 × 25.4mm Bit belt holder	120×45×23	10	251300
TD-BS2	H 2.5, 3, 4, 5, 6 × 25.4mm Bit belt holder	120×45×23	10	251301
TD-BS3	T10H, T15H, T20H, T25H, T30H × 25.4mm Bit belt holder	120×45×23	10	251302
TD-BS4	A/F 5.5, 7, 8, 10 Socket holder	120×45×23	10	251303

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**No. TD-64 "PETADORA" Z-shaped Offset Screwdriver**

No.TD-64	Inner Ctn.	Outer Ctn.	EDP No.
⊕2/⊖6	6	0.9 / ⊕No.2	18
⊕1/⊖2	⊕No.1 / ⊕No.2	16.5	5

Package size: 160×35×12mm

**No. 25 Offset Screwdriver**

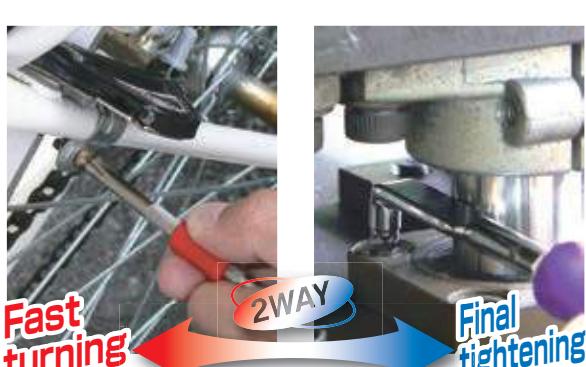
No.25	Inner Ctn.	EDP No.
⊕1/⊖5	25	12
⊕2/⊖6	26	12
⊕3/⊖8	33	12

Package size: 160×35×12mm

Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
251526	No.25 ⊕6/⊖2, ⊕5/⊖1	210×70×10	20	243011

**One point**

Speedy fast-turning,  
firm tightening



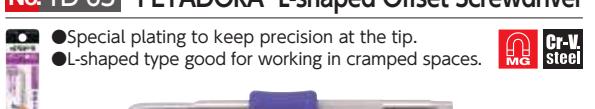
This one product can be used  
from fast-turning to tightening!

An evolution of offset screwdriver with all the required  
functions for tightening screws.

**No. TD-61 "PETADORA" L-shaped Offset Screwdriver**

No.TD-61	Cushion Grip color	Inner Ctn.	Outer Ctn.	EDP No.
⊖ 6	Blue	10	100	250105
⊕ 1	Green	10	100	250101
⊕ 2	Red	10	100	250102

Package size: 160×35×14mm

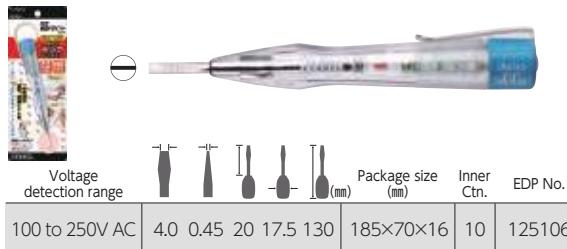
**No. TD-63 "PETADORA" L-shaped Offset Screwdriver**

No.TD-63	Cushion Grip color	Inner Ctn.	Outer Ctn.	EDP No.
H 2.5	Orange	10	100	250112
H 3	Purple	10	100	250113
H 4	Black	10	100	250114
H 5	Blue	10	100	250115

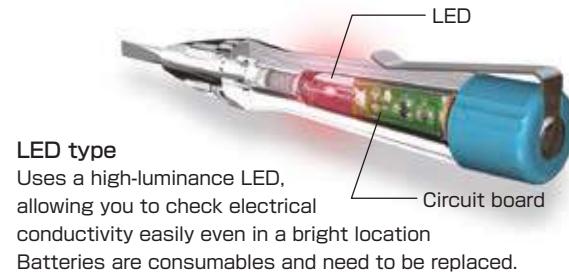
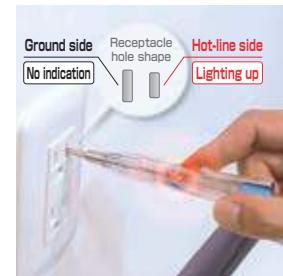
Package size: 160×35×14mm

**No. 83L LED Voltage Detection Screwdriver**

- For conduction/ continuity test in general household.
- Long-life LED lights brightly. Batteries can be replaced.
- Handy pencil-type screwdriver.



Voltage detection range	4.0	0.45	20	17.5	130	Package size (mm)	Inner Ctn.	EDP No.
100 to 250V AC	4.0	0.45	20	17.5	130	185x70x16	10	125106

**One point****Conductivity check of electrical wiring tools****Conductivity check / polarity discrimination**

A conductivity check of electrical wiring or receptacle and polarity discrimination of AC hot-line and ground sides

**Continuity test**

Continuity check of a wiring circuit  
Make sure that no power is applied to the circuit before checking continuity.

**No. TD-1300L****6-Piece Voltage Detection Screwdriver Set**

- Neon tube integrated into the grip end. When contacting the current-carrying point, the neon tube lights and continuity test can be conducted.
- Resin chuck enables to replace the blades. Lightweight resin grip, with a transparent end-cap at the grip edge.
- Frequently used 6 types of blade in a pack.
- Provided in a handy transparent vinyl carrying and storage pouch.
- Low voltage type(100 to 250V AC)

Cr-V steel

**No.TD-1300L**

Voltage detection range	⊖	Reversible blade content (mm)	⊕	Awl	Pin extractor	Inner Ctn.	EDP No.
100 to 250V AC	⊖4x125	⊕1x125	125	125		10	247021
	⊖6x125	⊕2x125					

\*Package size...185x105x31mm

**No. TD-1300B****5-Piece Voltage Detection Screwdriver Set**

- Neon tube integrated into the grip end. When contacting the current-carrying point, the neon tube lights and continuity test can be conducted.
- Resin chuck enables to replace the blades. Lightweight resin grip, with a transparent end-cap at the grip edge.
- A small diameter type socket suitable for small screws included in replacement blade set.
- Handy vinyl carrying and storage pouch
- Low voltage type (100 to 250V AC)

Cr-V steel  
Except Socket**No.TD-1300B**

Voltage detection range	⊖	Reversible blade content (mm)	⊕	Socket	Inner Ctn.	EDP No.
100 to 250V AC	⊖4x125	⊕1x125	A/F5	125	10	247031
	⊕2x125	A/F5.5	x125			

\*Package size...185x105x31mm

**No. 240001 Impact Driver**

- One-touch switching of the rotation direction.
- Soft non-slip resin handle, comfortable to grip. Designed for less shock on hands.
- For heavy-duty use.
- If the bit adapter is detached, a 12.7 mm socket can be attached.
- Bit insertion part ⌀8mm



Set content	Package size (mm)	Outer Ctn.	EDP No.
Bits ⌀2x36, ⌀2x80, ⌀3x36, ⌀3x80, ⌀4x36, ⌀10x36	220x73x80	5	246051
Body length 176mm dia. 37.5mm			

**No. C50 Impact Driver Bit**

Model No.	Set content	Applicable models	Package size (mm)	Inner Ctn.	EDP No.
C502125	⌀2x125	260002	170x42	10	486212
C503125	⌀3x125	260002	170x42	10	486213
C506125	⌀6x125	260002	170x42	10	486216

»For 10-Piece Set, please refer to page 83.

HAND TOOLS

**No. C51 Impact Driver Bit**

Model No.	Set content	Applicable models	Package size (mm)	Inner Ctn.	EDP No.
C512036	⌀2x36	250001, 240001	170x42	10	486201
C513036	⌀3x36	250001, 240001	170x42	10	486202
C518036	⌀8x36	250001, 240001	170x42	10	486203

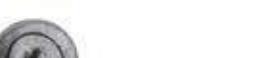
BITS &amp; SOCKETS

»For 10-Piece Set, please refer to page 83.

Mounting quantity: 1

**One point****Removal of a rusted or stuck screw**

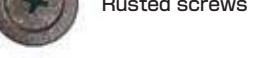
Hitting the handle with a hammer causes the impact to be converted into rotational force.



Distorted screws



Rusted screws



Stuck screws



40

ELECTRIC TOOLS  
AIR TOOLS  
STATIC SOLUTIONS  
GASOLINE ENGINE TOOLS

HAND TOOLS

ELECTRIC TOOLS  
AIR TOOLSSTATIC SOLUTIONS  
GASOLINE ENGINE TOOLS

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No. 8209BP

**"BALL POINT" L-wrenches**

**Max Tilting Angle 38° (Designed value)**

Inclining the wrench moves the driving points toward the entry of the hexagon screw head recess. Even if the neck place of the ball point is thick, the wrench can be inclined up to 38°, the maximum tilting angle.

**Magnetized tip can retain a hexagon screw head bolt.**

Constricted neck design with hexagonal shape enables to retain a hexagon screw head bolt firmly. Easy to replace bolts located in a deep place.

**Resistant to twist and breaking Extra Superalloy**

**Made in Japan** (except 8300HX-S)

With our new L-Wrench technology and design you will be able to perform the final tightening of your work even with the ball point shape.

**One point TORX Wrench Series**

**Quick tightening at tilted angle.**

**Max Tilting Angle 25° (Designed value)**

Ball-shaped TORX wrench. Can tighten screws quickly at a tilted angle. Ideal for a work in a cramped space such as automotive maintenance.

**Can be used with tamper-proof screws.**

Tamper-proof TORX screw has a protrusion in the center of the screw recess, and a standard TORX screwdriver cannot tighten or loosen such screw. \*Screws with a protrusion different from the standard TORX cannot be handled.

**TORX®** Tip-end processing based on TORX standards. Corresponds to various screws.

No. 8209BP  
"BALL POINT"  
Wrench  
Stubby 9-PC Set

L-shape angle 95° for easy handling.  
The arm length is half of the standard arm size.

**VESSEL****No. 8200BP-S Ball Point Wrench Stubby (Short Type) NEW**

- New ball shape with the maximum tilted angle of 38° (design value in our company).
  - Stubby ideal for cramped spaces
  - L-shape angle 95° for easy handling.
- The arm length is half of the standard arm size.



No.8200BP-S

I	□	□	Package Size (mm)	Inner Ctn.	EDP No.
1.5	4	52	160×45×5	10	143887
2	5	58	160×45×5	10	143888
2.5	6	60	160×45×5	10	143889
3	8	65	160×45×5	10	143890
4	9	72	200×60×8	10	143891
5	11	80	200×60×8	10	143892
6	13	90	200×60×8	10	143893
8	16	100	235×75×14	5	143894
10	19	112	235×75×14	5	143895

**No. 8200BP Ball Point Wrench Stubby NEW**

- New ball shape with the maximum tilted angle of 38° (design value in our company).
  - Stubby ideal for cramped spaces
  - L-shape angle 95° for easy handling.
- The arm length is half of the standard arm size.



No.8200BP

I	□	□	Package Size (mm)	Inner Ctn.	EDP No.
1.5	4	79	160×45×5	10	143897
2	5	86	160×45×5	10	143898
2.5	6	94	200×60×8	10	143899
3	8	101	200×60×8	10	143900
4	9	110	200×60×8	10	143901
5	11	120	200×60×8	10	143902
6	13	133	200×60×8	10	143903
8	16	154	235×75×14	5	143904
10	19	172	235×75×14	5	143905

**No. 8200BP-L Ball Point Wrench Stubby (Long Type) NEW**

- New ball shape with the maximum tilted angle of 38° (design value in our company).
  - Stubby ideal for cramped spaces
  - L-shape angle 95° for easy handling.
- The arm length is half of the standard arm size.



No.8200BP-L

I	□	□	Package Size (mm)	Inner Ctn.	EDP No.
1.5	4	79	160×45×5	10	143907
2	5	95	200×60×8	10	143908
2.5	6	110	200×60×8	10	143909
3	8	126	200×60×8	10	143910
4	9	142	200×60×8	10	143911
5	11	160	235×75×14	5	143912
6	13	180	235×75×14	5	143913
8	16	200	280×65×14	5	143914
10	19	224	350×75×14	5	143915

High functionality and improved workability Hex Wrenches

**No. 8209BP-S Ball Point Wrench Stubby (Short Type) 9PC Set NEW**

- New ball shape with the maximum tilted angle of 38° (design value in our company).
  - Stubby ideal for cramped spaces
  - L-shape angle 95° for easy handling.
- The arm length is half of the standard arm size.
- Provided with a convenient portable holder.  
This is openable facilitating to pick a necessary size.



No.8209BP-S

Set content	Package size (mm)	Inner Ctn.	EDP No.
8209BP-S H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm Accessory Holder	200×105×27	5	143896

**No. 8209BP Ball Point Wrench Stubby 9PC Set NEW**

- New ball shape with the maximum tilted angle of 38° (design value in our company).
  - Stubby ideal for cramped spaces
  - L-shape angle 95° for easy handling.
- The arm length is half of the standard arm size.
- Provided with a convenient portable holder.  
This is openable facilitating to pick a necessary size.



No.8209BP

Set content	Package size (mm)	Inner Ctn.	EDP No.
8209BP H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm Accessory Holder	245×105×27	5	143906

**No. 8209BP-L Ball Point Wrench Stubby (Long Type) 9PC Set NEW**

- New ball shape with the maximum tilted angle of 38° (design value in our company).
  - Stubby ideal for cramped spaces
  - L-shape angle 95° for easy handling.
- The arm length is half of the standard arm size.
- Provided with a convenient portable holder.  
This is openable facilitating to pick a necessary size.



No.8209BP-L

Set content	Package size (mm)	Inner Ctn.	EDP No.
8209BP-L H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm Accessory Holder	295×105×27	10	143916



**No. 8300BP Ball Point Wrench NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).



No.8300BP

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
1.5	16	79	160×45×5	10	143917	
2	17	86	160×45×5	10	143918	
2.5	18	94	200×60×8	10	143919	
3	20	101	200×60×8	10	143920	
4	25	110	200×60×8	10	143921	
5	28	120	200×60×8	10	143922	
6	32	133	200×60×8	10	143923	
8	36	154	235×75×14	5	143924	
10	40	172	235×75×14	5	143925	

**No. 8300BP-L Ball Point Wrench (Long Type) NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).

●Ball point can reach deep spaces.

Also, it is possible to apply force on the arm end.



No.8300BP-L

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
1.5	16	79	160×45×5	10	143927	
2	17	95	200×60×8	10	143928	
2.5	18	110	200×60×8	10	143929	
3	20	126	200×60×8	10	143930	
4	25	142	200×60×8	10	143931	
5	28	160	235×75×14	5	143932	
6	32	180	235×75×14	5	143933	
8	36	200	280×65×14	5	143934	
10	40	224	350×75×14	5	143935	
12	45	250	No Card	-	143936	
14	55	280	No Card	-	143937	
17	60	320	No Card	-	143938	
19	70	360	No Card	-	143939	

**No. 8300BP-XL Ball Point Wrench (Extra Long Type) NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).

●Ball point can reach deep spaces.

Also, it is possible to apply force on the arm end.



No.8300BP-XL

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
1.5	16	91	160×45×5	10	143951	
2	17	109	200×60×8	10	143952	
2.5	18	132	200×60×8	10	143953	
3	20	151	200×60×8	10	143954	
4	25	170	235×75×14	5	143955	
5	28	200	280×65×14	5	143956	
6	32	225	280×65×14	5	143957	
8	36	260	350×75×14	5	143958	
10	40	291	350×75×14	5	143959	

**No. 8309BP Ball Point Wrench 9PC Set NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).



No.8309BP

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
8309BP	H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm			245×105×27	5	143926

**No. 8309BP-L Ball Point Wrench (Long Type) 9PC Set NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).

●Ball point can reach deep spaces.

Also, it is possible to apply force on the arm end.



No.8309BP-L

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
8309BP-L	H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm			295×105×27	5	143940

**No. 8309BP-XL Ball Point Wrench (Extra Long Type) 9PC Set NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).

●Ball point can reach deep spaces.

Also, it is possible to apply force on the arm end.



No.8309BP-XL

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
8309BP-XL	H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm			350×105×27	5	143960

**No. 8300BP-LIN Ball Point Wrench (Long Type) (Inch) NEW**

●New ball shape with the maximum tilted angle of 38° (design value in our company).

●Ball point can reach deep spaces.

Also, it is possible to apply force on the arm end.



No.8300BP-LIN

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
1/16	15	79	160×45×5	10	143941	
5/64	17	93	200×60×8	10	143942	
3/32	18	108	200×60×8	10	143943	
1/8	20	127	200×60×8	10	143944	
5/32	25	140	200×60×8	10	143945	
3/16	28	158	235×75×14	5	143946	
1/4	32	178	235×75×14	5	143947	
5/16	36	198	280×65×14	5	143948	
3/8	40	222	350×75×14	5	143949	

**No. 8500BTX Ball End TORX Wrench NEW**

●Can tighten screws quickly at a tilted angle. Ideal for a work in a cramped space such as automotive maintenance.



No.8500BTX

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
T8	16	80	160×45×5	10	143961	
T9	16	80	160×45×5	10	143962	
T10	17	90	160×45×5	10	143963	
T15	18	100	200×60×8	10	143964	
T20	19	112	200×60×8	10	143965	
T25	20	126	200×60×8	10	143966	
T27	25	140	200×60×8	10	143967	
T30	28	160	235×75×14	5	143968	
T40	32	180	235×75×14	5	143969	

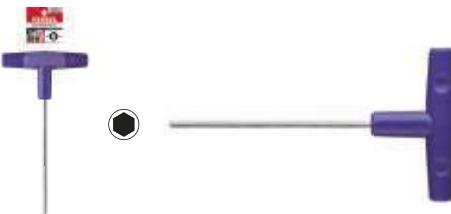
**No. 8500TXH Tamper-proof TORX Wrench NEW**

●Can be used with tamper-proof screws. Automotive, Motorcycle, Telecommunication devices, PC, etc.



No.8500TXH

I*	□	□	(mm)	Package Size (mm)	Inner Ctn.	EDP No.
T8H	16	80	160×45×5	10	143971	
T9H	16	80	160×45×5	10	143972	
T10H	17	90	160×45×5	10	143973	
T15H	18	100	200×60×8	10	143974	
T20H	19	112	200×60×8	10	143975	
T25H	20	126	200×60×8	10	143976	
T27H	25	140	200×60×8	10	143977	
T3						

**No. TW-H T-Handle Screwdriver NEW**

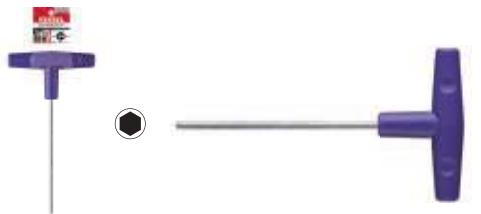
No.TW-H	I	II	III	IV	Inner Ctn.	EDP No.
	(mm)					
3	125	70	163	6	144361	
4	140	70	178	6	144362	
5	150	80	200	6	144363	
6	155	120	223	-	144364	
8	175	160	251	-	144365	
10	200	160	276	-	144366	

**No. FW-H Flag Handle Screwdriver NEW**

No.TW-H	I	II	III	IV	Inner Ctn.	EDP No.
	(mm)					
1.5	40	20	74	10	144373	
2	40	20	74	10	144374	
2.5	40	20	74	10	144375	

**No. 8300HX-S Hex Wrench (Short Type) NEW**

No.8300HX-S	I	II	III	IV	Inner Ctn.	EDP No.
	(mm)					
1.5	12.5	52.5	10	144060		
2	12	58	10	144061		
2.5	15	60	10	144062		
3	20	65	10	144063		
4	25	72	10	144064		
5	28	80	10	144065		
6	32	90	10	144066		
8	36	100	5	144067		
10	40	112	5	144068		

**No. TW-HIN T-Handle Screwdriver (Inch) NEW**

No.TW-HIN	I	II	III	IV	Inner Ctn.	EDP No.
	(mm)					
1/8	125	70	163	6	144367	
5/32	140	70	178	6	144368	
3/16	150	80	200	6	144369	
1/4	155	120	223	-	144370	
5/16	175	160	251	-	144371	
3/8	200	160	276	-	144372	

**No. 8900BP "RAINBALL" L-wrenches PAT.**

- Easy to find in a toolbox. Color-coded by size. Coating is peel-proofed by manganese phosphate under coating.
- New ball shape. Set the driving part so that it contacts near the entry point of the hexagonal hole, with the maximum tilted angle of 38° (design value in our company). The cross-sectional area of the neck of the ball is enlarged to improve the strength.
- High precision black point tip, unaffected by metal plating.
- Cross-section is "Ultra-Hex", which has the 3-point and 3-surface contact geometry to reduce deforming of screw holes.



No.8900BP	I	II	III	IV	Package size (mm)	Inner Ctn.	EDP No.
H 1.5	1.5	13.5	67.5	160×45×5	10	144341	
H 2	2	15.5	72	160×45×5	10	144342	
H 2.5	2.5	17.5	81	160×45×5	10	144343	
H 3	3	19	90.5	160×45×5	10	144344	
H 4	4	24	98.5	200×60×8	10	144345	
H 5	5	27	118.5	200×60×8	10	144346	
H 6	6	31	138	200×60×8	10	144347	
H 8	8	35	158	235×75×14	5	144348	
H 10	10	39	178.5	235×75×14	5	144349	

※Colors inside the table cells indicate the body color.

**No. 8906BP "RAINBALL" L-wrenches 6PC Set PAT.**

- Easy to find in a toolbox. Color-coded by size.
- New ball shape with the maximum tilted angle of 38° (design value in our company). The cross-sectional area of the neck of the ball is enlarged to improve the strength.
- Provided with a convenient portable holder.



Set content	Package size (mm)	Inner Ctn.	EDP No.
8900BP H 1.5, 2, 2.5, 3, 4, 5 mm	200×80×13	5	144352

**No. 8909BP "RAINBALL" L-wrenches 9PC Set PAT.**

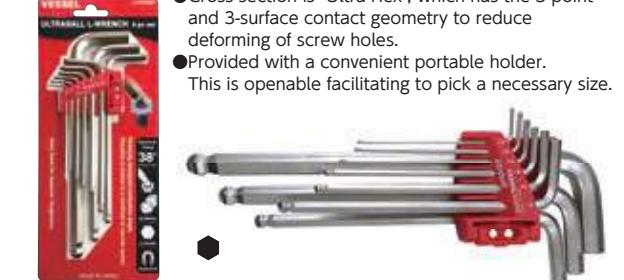
- Provided with a holder that opens like a fan and utilized as a stand, together with a magnetizer.
- Can be fixed onto level metal parts of machine tools, automated machinery, surface plates, etc. by the magnetic force of the magnetizer mounted to the lower part of the holder.
- The magnetizer can be taken out from the holder and used to magnetize and demagnetize a wrench.



Set content	Package size (mm)	Inner Ctn.	EDP No.
8900BP H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	245×105×27	5	144351

**No. 8409BP "ULTRABALL" L-wrenches 9PC Set PAT.**

- New ball shape with the maximum tilted angle of 38° (design value in our company). The cross-sectional area of the neck of the ball is enlarged to improve the strength.
- Cross-section is "Ultra-Hex", which has the 3-point and 3-surface contact geometry to reduce deforming of screw holes.
- Provided with a convenient portable holder. This is openable facilitating to pick a necessary size.



Set content	Package size (mm)	Inner Ctn.	EDP No.
8400BP H 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	245×105×27	5	144353

**One point****No.8409BP****Ultra Ball**

Unique ball configuration allowing the tip to incline 38° maximum facilitates tightening or loosening of screws!



Open-folded holder is convenient for carrying the hex wrenches.

**Ultra Hex**

Highly durable but no damage on screw surface!

3-point and 3-face contact hexagonal shape maximizes fastening effectiveness.

Not damaged

Damaged

## No. 8500TX TORX Key Wrench

- Special plating to keep precision at the tip.
- Knurled shank for fast turning.
- Precision tips based on TORX spec.

Cr-V  
steel

No. 8500TX	I*	L	LL	LLL	Package size (mm)	Inner Ctn.	EDP No.
T6	1.68	2.5	15	52	110x45x5	10	144301
T7	1.97	2.5	15	56	110x45x5	10	144302
T8	2.3	3	17	59	110x45x5	10	144303
T9	2.48	3	17	63	110x45x5	10	144304
T10	2.72	3	17	67	110x45x5	10	144305
T15	3.26	3.5	19	72	110x45x5	10	144306
T20	3.84	4	21	77	110x45x5	10	144307
T25	4.4	5	23	83	145x55x8	10	144308
T27	4.96	5	23	90	145x55x8	10	144309
T30	5.49	6	25	98	145x55x8	10	144310
T40	6.6	7	27	107	145x55x8	10	144311

No. 8500TX	I*	L	LL	LLL	Package size (mm)	Inner Ctn.	EDP No.
T6	1.68	2.5	15	52	110x45x5	10	144301
T7	1.97	2.5	15	56	110x45x5	10	144302
T8	2.3	3	17	59	110x45x5	10	144303
T9	2.48	3	17	63	110x45x5	10	144304
T10	2.72	3	17	67	110x45x5	10	144305
T15	3.26	3.5	19	72	110x45x5	10	144306
T20	3.84	4	21	77	110x45x5	10	144307
T25	4.4	5	23	83	145x55x8	10	144308
T27	4.96	5	23	90	145x55x8	10	144309
T30	5.49	6	25	98	145x55x8	10	144310
T40	6.6	7	27	107	145x55x8	10	144311

## No. 5400TX Power Grip TORX Screwdriver

- Champagne gold plating keeping the precise tip quality.
- Cellulose acetate resin grip. Ergonomic design.
- For working with tamper-proof screws (T5 and T6 excluded).

Cr-V  
steel

No. 5400TX	I*	L	LL	LLL	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
T 5 × 80	1.42	80	2.5	17.0	155	12	60	122854
T 6 × 80	1.69	80	2.5	17.0	155	12	60	122855
T 7H× 80	1.97	80	2.5	17.0	155	12	60	122856
T 8H× 80	2.3	80	3.0	17.0	155	12	60	122857
T 9H× 80	2.48	80	3.0	17.0	155	12	60	122858
T10HX 80	2.72	80	3.0	17.0	155	12	60	122859
T15HX 80	3.26	80	3.5	28.0	177	6	60	122860
T20HX 120	3.84	120	4.0	28.0	217	6	60	122861
T25HX 120	4.4	120	5.0	31.8	224	6	60	122862
T27HX 120	4.96	120	5.0	31.8	224	6	60	122863
T30HX 120	5.49	120	6.0	35.6	235	6	60	122864
T40HX 120	6.6	120	7.0	35.6	235	6	60	122865

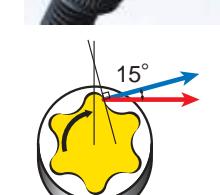
TORX® is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

## One point

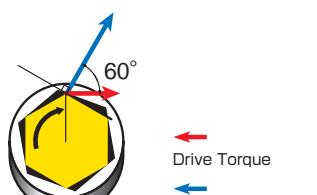
## Features of TORX tool

**TORX®**

Basic TORX consists of 6 ear-lobular shaped curves. Compared to hexagonal shape driver, TORX has higher drive effectiveness and transfers torque smoothly and accurately while eliminating "CAM-OUT".



**TORX**  
TORX transfers max torque due to small driving angle.



**Hex**  
Meanwhile, Hex square drive need max upload torque to transfer for large driving angle to other directions.

## TAMPER-PROOF TORX SYSTEM



Added function of "Never Touch Screw" a post in the middle of the recess for maximum security eliminates regular TORX drive or any other flat screwdrivers for safety. Tamper proof screws are mostly used at communication equipment and computers so as not to abuse the screwing/unscrewing due to its design and control of function. Keep off unscrewing unless otherwise maintenance serving practiced.

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## No. 8507TX TORX 7-Piece Key Set

- Special plating to keep precision at the tip.
- Knurled shank for fast turning.
- Precision tips based on TORX spec.

Cr-V  
steel

Set content	Package size (mm)	Inner Ctn.	EDP No.
8500TX T10, T15, T20, T25, T27, T30, T40	135x65x17	10	144315
Accessory Vinyl package			

## No. TX-12MC Plate Ratchet/Magnetic Screw Catcher(TORX)

- Magnet catches a screw firmly.
- Also provided with Torx bits popular in the maintenance.
- Also used for tamper-proof torx screws.
- The speed ring enables you to turn a screw quickly.
- Removing the speed ring turn the product a 6.35mm hex drive.
- Bit insertion part ● 6.35mm

Cr-V  
Steel

MG

Bit

Screw Holder



Set content	Package size (mm)	Inner Ctn.	EDP No.
Body Plate ratchet screwdriver	190x85x27	10	252022
Bits T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, Φ2, Φ6x25.4mm			
Accessory Magnetic Screw Holder Bit belt holder			

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## No. B-340TX Wood-Compo TORX Screwdriver

- Extraordinary non-slip grip:
- Secures working efficiency even with oily hands.
- Wood-composite resin, reproducing the natural material texture.
- Non-electrolytic plating, keeping the precise tip quality.
- Also good for tamper-proof TORX screws.

PAT.  
Cr-V  
steel

No. B-340TX	I*	L	LL	LLL	Outer Ctn.	Inner Ctn.	EDP No.	
T10H× 80	2.72	80	5.5	30	188	6	120	120081
T15H× 80	3.26	80	5.5	30	188	6	120	120082
T20H×120	3.84	120	5.5	30	228	6	120	120083
T25H×120	4.40	120	6.4	32	236	6	60	120084
T27H×120	4.96	120	6.4	32	236	6	60	120085
T30H×120	5.49	120	8.0	35	246	6	60	120086
T40H×120	6.60	120	8.0	35	246	6	60	120087

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## No. TX-11 Plate Ratchet TORX Set

- Storage holder included.
- For working with tamper-proof screws.
- The speed ring enables you to turn a screw quickly.
- Thin ratchet handle for working in cramped places.
- Ball locking system.
- Can be used with 6.35 mm across flats short bits and 6.35 mm square hole sockets.

Cr-V  
Steel

MG

Bit



Set content	Package size (mm)	Inner Ctn.	EDP No.
Body Plate ratchet screwdriver	190x85x27	10	252021
Bits T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, Φ2, Φ6x25.4mm			
Accessory Magnetic Screw Holder Bit belt holder			

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## No. TD-6310TX TORX Screwdriver Set

- Bit insertion part ● 6.35mm. Magnetized.
- Holds securely short bits. Reliable fastening as the bit does not drop easily.
- Grip made of environmental-friendly plant material.
- Provided with a bit belt for storage.

Cr-V  
Steel

Set content	Package size (mm)	Outer Ctn.	EDP No.
Body length 213mm dia. 28.5mm			
Bits Φ6, Φ2, T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H X25.4mm	2		

**No. 990TX G-grip TORX Screwdriver PAT.**

- The weight of the steel ball keeps the end cap in an optimum position for a grip.
- A special precision spring is welded to the tip by laser, enabling the screwdriver to catch a TORX screw firmly by spring action.



No. 990TX	I*				Inner (mm) Ctn.	Outer Ctn.	EDP No.	
	A	B						
T3 × 40	1.13	40	2.5	16	21	138	12 240	125921
T5 × 40	1.42	40	2.5	16	21	138	12 240	125923
.MagicSpring T6 × 40	1.69	40	2.5	16	21	138	12 240	125924
.MagicSpring T8 × 40	2.3	40	2.5	16	21	138	12 240	125926
.MagicSpring T9 × 40	2.48	40	4.0	16	21	138	12 240	125927
.MagicSpring T10× 80	2.72	80	4.0	30	38	195	6 60	125928
.MagicSpring T15× 80	3.26	80	5.5	30	38	195	6 60	125929
.MagicSpring T20× 80	3.84	80	5.5	30	38	195	6 60	125930

**No. TD-6816MG Ratchet Screwdriver (16-pc bit set)**

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- 16 types of bits to adapt to various types of work. Magnetic bits can be replaced with one-touch.
- Bit insertion part Ø6.35mm.

**No. TD-6808TX Ratchet Screwdriver TORX (8-pc bit set)**

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Stores 8 types of bits including TORX bit. Magnetic bits can be replaced with one-touch.
- Bit insertion part Ø6.35mm.

**No. TD-BS3 Replacement Bit Set**

Applicable models  
TD-70/TD-71/TD-72/TD-73MC/TD-80/TD-150/TD-160/S-12/S-13/TX-10/TX-11/TX-12MC/830MG-4/840/840L

Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-BS3	T10H, T15H, T20H, T25H, T30H ×25.4mm Bit belt holder	120×45×23	10	251302

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**TORX is also available for bits.****Industrial Bits Type A**

No.V TORX Bit ..... P66  
No.V TORX Bit (Tamper-Proof) ..... P67



No.V5 TORX Bit ..... P68

**Industrial Bits Type B**

No.N TORX Bit ..... P71, P84  
No.N TORX Bit (Tamper-Proof) ..... P71, P84



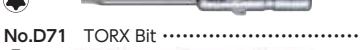
No.J TORX Bit ..... P75  
No.J TORX Bit (Tamper-Proof) ..... P74



No.A5 TORX Bit ..... P76

**Precision Bits**

No.DS73 Shockless Bit ..... P81



No.D71 TORX Bit ..... P82



No.D73 TORX Bit ..... P83



No.D76 TORX Bit ..... P84

**Short Bits**

No.A4 TORX Bit ..... P90

**Construction Bits**

No.SMVT TORX Bit (Tamper-Proof) ..... P108

**"PROKON" series**

No.SS16T Recessed "SAKISUBO" TORX Bit ..... P124



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**No. 3200VA-1****VA cable stripper**

The 3200VA-1 is a solution for stripping strenuous cables such as VA cables which becomes soft and elongates during the summer or as eco-friendly PE cables, which hardness during winter months.

**No. 3200VA-1 VA cable stripper** PAT.

- Even for eco-friendly PE cables, clear stripping can be perfectly achieved with light force.
- Corresponds to various sheath hardness according to cable manufacturers. Can adjust cutting depth in 5 steps.
- Precision blades by the metal injection offer excellent cutting quality.
- Designed to hold wire sheath so that the core conductor is always located at the center, preventing the blades from cutting into the conductor.



← See P51

Model No.	Overall length (mm)	Weight (g)	Wire size	Outer Ctn.	EDP No.
3200VA-1	180	370	PVC cables(VVF/ VA cables) PE cables(EM-EEF/ Eco cables) φ1.6mm duplex/φ2.0mm duplex φ1.6mm triplex/φ2.0mm triplex	5	141016
			Package size...250×115×63mm		
WB-013	3200VA-1	120×45×3	10	141084	

Model No.	Applicable wire stripper	Package size (mm)	Inner Ctn.	EDP No.
WB-013	3200VA-1	120×45×3	10	141084

**No. 3700KS/KM Cable Stripper**

- Easy to strip the wire sheath simply by turning the stripper around the cable.
- Easy-handling non-slip pad on retaining hardware.
- Enables to adjust the cutting depth with a dial on the bottom.
- Light-weight and compact portable model.



Model No.	Overall length (mm)	Weight (g)	Strip Capacity	Inner Ctn.	EDP No.
3700KS	130	78	Seath φ4~16mm	10	014641
3700KM	130	78	Seath φ8~28mm	10	014658

Contents: Replacement blade 1 piece (stored inside) Package size...185×75×32mm

**One point**

Easy to strip the wire sheath simply by turning the stripper around the cable.

**No. 3000 Wire Stripper**

- Nimbly and cleanly strips off sheathing in a single operation.
- Can be used with wiring for TV, radio, home appliances, electrical work, automotive circuits, telephones, etc.
- With a strip gauge.



Model No.	Overall length (mm)	Weight (g)	Wire diameter and nominal sectional area	Handle color	Outer Ctn.	EDP No.
3000A	170	350	For solid wire 0.5/1.2/1.6/2.0mm	Green	20	141001
3000B	170	350	For solid wire 1.0/1.6/2.0/2.6/3.2mm	Red	20	141002
3000C	170	350	For stranded wire 0.9/1.25/2.0/3.5/5.5mm	Black	20	141000

Package size...220×75×13mm

**Wire Stripper Cardbord product**

Model No.	Wire diameter and nominal sectional area	Package size (mm)	Outer Ctn.	EDP No.
300001	For solid wire 0.5/1.2/1.6/2.0mm	250×110×38	5	241001
300002	For solid wire 1.0/1.6/2.0/2.6/3.2mm	250×110×38	5	241002
300005	For stranded wire 0.9/1.25/2.0/3.5/5.5mm	250×110×38	5	241005

**Wire Stripper Blade**

Model No.	Applicable wire stripper	Wire diameter and nominal sectional area	Package size (mm)	Inner Ctn.	EDP No.
WB-001	3000A, 300001	For solid wire	95×30×15	5	141071
WB-002	3000B, 300002	For solid wire	95×30×15	5	141072
WB-003	3000C, 300005	For stranded wire	95×30×15	5	141073

**No. 3500E-1/2 Wire Stripper**

- Lightweight(100g), compact handy type.
- Diamond finely polished blade for precision stripping.
- AWG-mm-mm conversion table on the grip.



Model No.	Overall length (mm)	Weight (g)	Color	Inner Ctn.	Outer Ctn.	EDP No.
3500E-1	155	100	Red	5	30	141036
3500E-2	155	100	Yellow	5	30	141037

Package size...220×75×13mm

AWG	12	14	16	18	20	22	24
Solid wire (mm)	2.0	1.6	1.3	1.0	0.8	0.65	0.5
Stranded wire (mm)	3.3	2.0	1.3	0.8	0.5	0.3	0.2
AWG	18	20	22	24	26	28	30
Solid wire (mm)	1.0	0.8	0.65	0.5	0.4	0.3	0.25
Stranded wire (mm)	0.8	0.5	0.3	0.2	0.13	0.08	0.05

**One point****3500E-3/3500E-4****No. 3500E-3/4 Wire Stripper**

- True circle shape. No damage on wires.
- Different colors adopted for instant awareness of holding position.
- Thread cutters for small screws or bolts.
- Anti-drop cord can be attached.
- AWG-mm-mm2 conversion table on the cushion grip.



Model No.	Overall length (mm)	Weight (g)	Color	Inner Ctn.	Outer Ctn.	EDP No.
3500E-3	163	107	Red	5	30	141013
3500E-4	163	107	Yellow	5	30	141014

Cardboard size: 220×75×13mm

AWG	12	14	16	18	20	22	24
Solid wire (mm)	2.0	1.6	1.3	1.0	0.8	0.65	0.5
Stranded wire (mm)	3.3	2.0	1.3	0.8	0.5	0.3	0.2
AWG	18	20	22	24	26	28	30
Solid wire (mm)	1.0	0.8	0.65	0.5	0.4	0.3	0.25
Stranded wire (mm)	0.8	0.5	0.3	0.2	0.13	0.08	0.05

\* Some Teflon wires are not suitable.

**No. DB-200 Bucket for Electricians****No. 76-10 Gel Grip Hammer (Plastic Head)**

- Gel resin grip drastically absorbs the shocks by hammer blows to your palm. Alleviates the strain on your wrist.
- Slip resistance grip design of elastomer resin.
- Excellent balance between both heads, ensuring firm feeling of hammering.
- Hammer heads are screwed on and replaced easily. Replacement head is available as option.



Model No.	Size	Length	Head Diameter	Length (mm)	Weight (g)	Inner Ctn.	Outer Ctn.	EDP No.
76-10	1	315	32	120	430	6	60	142082

**Replacement Head for No.76 (Plastic Head)**

Model No.	Set content	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
076110 Card Product	1Lb×2pcs	170×60×35	-	5	242024
76-10H Boxed	1Lb	130×155×35	20	400	142131

\*Apply hammer Gel Grip Hammer No.76-10 No.77-10 Plastic Head Hammer No.70-1

**No. 77-10 Gel Grip Hammer (Rubber/Plastic Head)**

- Gel resin grip drastically absorbs the shocks by hammer blows to your palm. Alleviates the strain on your wrist.
- Slip resistance grip design of elastomer resin.
- Excellent balance between both heads, ensuring firm feeling of hammering.
- Hammer heads are screwed on and replaced easily. Replacement head is available as option.
- The hammer heads are screwed on and replaced easily. Rubber head is available as option. Rubber head is of light gray color, which does not cause color staining to the object.



Model No.	Size	Length	Head Diameter	Length (mm)	Weight (g)	Inner Ctn.	Outer Ctn.	EDP No.
77-10	1	315	32	120	430	6	60	142091

**Replacement Head for No.77 (Rubber Head)**

Model No.	Set content	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
077110 Card Product	1Lb×2pcs	170×60×35	-	5	242021
77-10H Boxed	1Lb	130×155×35	20	400	142121

\*Apply hammer Gel Grip Hammer No.77-10 Cannot be used for plastic hammer No.70-1.

**No. 70 Plastic Head Hammer**

- Soft durable plastic head. Does not damage workpieces.
- Replacement head is available as option in a box.
- Replacement head of 1/2, 1 and 1 1/2 sizes is also available in 2-pc pre-carded package.

**No. 76-10 Gel Grip Hammer (Plastic Head)**

- Gel resin grip drastically absorbs the shocks by hammer blows to your palm. Alleviates the strain on your wrist.
- Slip resistance grip design of elastomer resin.
- Excellent balance between both heads, ensuring firm feeling of hammering.
- Hammer heads are screwed on and replaced easily. Replacement head is available as option.



Model No.	Size	Length	Head Diameter	Length (mm)	Weight (g)	Inner Ctn.	Outer Ctn.	EDP No.
76-10	1	315	32	120	430	6	60	142082

**Replacement Head for No.76 (Plastic Head)**

Model No.	Set content	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
076110 Card Product	1Lb×2pcs	170×60×35	-	5	242024
76-10H Boxed	1Lb	130×155×35	20	400	142131

\*Apply hammer Gel Grip Hammer No.76-10 No.77-10 Plastic Head Hammer No.70-1

**No. 77-10 Gel Grip Hammer (Rubber/Plastic Head)**

- Gel resin grip drastically absorbs the shocks by hammer blows to your palm. Alleviates the strain on your wrist.
- Slip resistance grip design of elastomer resin.
- Excellent balance between both heads, ensuring firm feeling of hammering.
- Hammer heads are screwed on and replaced easily. Replacement head is available as option.
- The hammer heads are screwed on and replaced easily. Rubber head is available as option. Rubber head is of light gray color, which does not cause color staining to the object.



Model No.	Size	Length	Head Diameter	Length (mm)	Weight (g)	Inner Ctn.	Outer Ctn.	EDP No.
77-10	1	315	32	120	430	6	60	142091

**Replacement Head for No.77 (Rubber Head)**

Model No.	Set content	Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
077110 Card Product	1Lb×2pcs	170×60×35	-	5	242021
77-10H Boxed	1Lb	130×155×35	20	400	142121

\*Apply hammer Gel Grip Hammer No.77-10 Cannot be used for plastic hammer No.70-1.

**No. RG-95 Ratchet Rivet Gun**

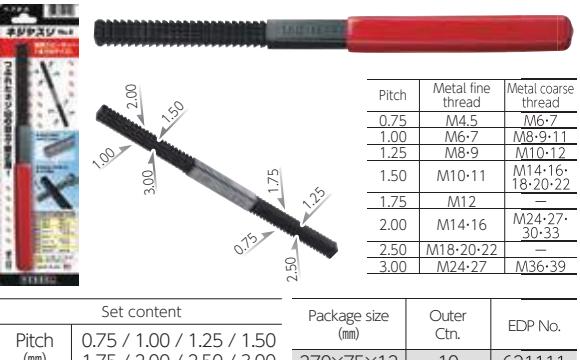
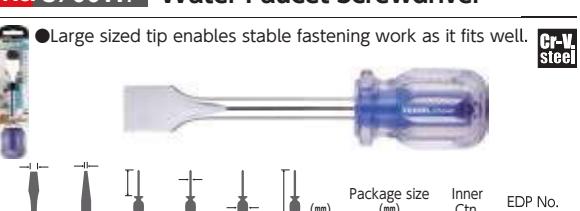
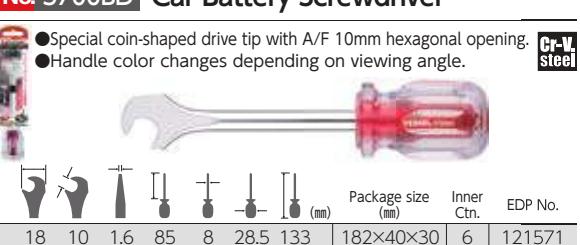
- Can calk blind rivets easily with one hand.
- Easily calks 4.8 mm steel rivets that were difficult to use with existing manual riveters.



Set content	Package size (mm)	Outer Ctn.	EDP No.
Body overall length 230mm weight 570g	350×140×30	5	621310
Nose piece 2.4, 3.2, 4.0, 4.8mm			
Nose piece wrench A/F10mm			

**No. 8 Thread File**

- Quickly restores threads of tooling machines, automobiles, etc.
- 1 tool can be used with 8 different thread pitches.

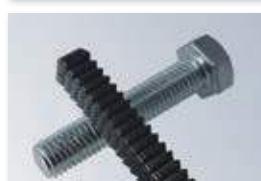
**No. 5700WP Water Faucet Screwdriver****No. 5700BD Car Battery Screwdriver****No. ZW-3/ZW-4 Thread Thru Stud Wrench**

- Works with continuous thread studs, cut bolts and hanger bolts.
- Can be used 2 ways: Straight for tightening, or bent for fast turning.
- Can be used from halfway point with long hanger bolts.
- Lightweight, compact and easy to carry.

Model No.	Thread part 3/8	Thread part 1/2	Weight (mm/g)	Package size (mm)	Inner Ctn.	EDP No.	
ZW-3	32	20	140	224	195×64×27	10	621320
ZW-4	32	20	140	222	195×64×27	10	621321

**One point****Features of special tools**

Ratchet Rivet Gun  
Allows you to caulk blind rivets easily with one hand



Thread File  
For restoring of screw threads  
One file can be used for eight different thread pitches.



Water Faucet Screwdriver  
Dedicated for installing a full-thread bolt  
It can be bent to turn a bolt quickly.



Car Battery Screwdriver  
It is a combination of a spanner with width across flats of 10mm for car battery removal and a coin-shaped drive tip.

# BITS & SOCKETS



## Contents

Type A Industrial Bits .....	61 - 68
Type B Industrial Bits.....	69 - 78
Precision Bits .....	79 - 85
Bit Holders, etc.....	86 - 91

### About ISO

#### ISO 9001 : 2008

Our screwdriver manufacturing division, VESSEL SHIMANE CO., LTD is certified according to ISO standard, the global standard for quality assurance control.

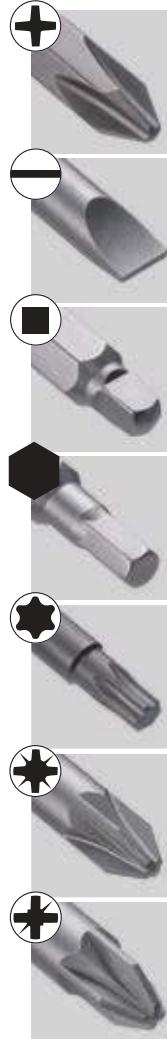


#### ISO 14001 : 2004

We obtained ISO 14001 in August 2010. VESSEL will further strive to offer eco-friendly products, aiming at minimizing the environmental burden as a manufacturing group.



# Industrial bits Technical BITS & SOCKETS TECHNICAL



HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

## RoHS

### Environmental measures

Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium / PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) / DEHP, BBP, DBP, DIBP (phthalate esters)

The products with this mark in this catalogue are compliant with the RoHS directives (EU) (usage limit of the above 10 substances).

Note: For the updated information on RoHS compliant products, visit our homepage, because some products or sizes are under investigation or are not compliant at the time of publication of this catalogue.

### For cross recessed screws

Most commonly used in the market JIS B4633.  
Devised by PHILLIPS SCREW COMPANY.



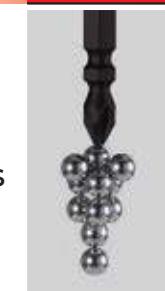
### For slotted head screws

Especially used for small screws for watches, glasses and precision equipment.  
Also used for cross recessed slotted screws JIS B4609.



### For square screws

Mainly used for quake-resistant hardware.  
Also good for sash doors and log houses.



### For hexagonal socket screws

Used for metal products assembly, mold tools, machines, precision equipment and motorcycles, etc.



### For TORX screws

Used for hard disk, automobiles and cutting tools.  
VESSEL manufactures tools for TORX and TORX PLUS under the licensing agreement with Acument Intellectual Properties, LLC.



### For POZIDRIV screws

Favored in Europe and used for OA devices, computers, housing materials, automobiles and airplanes.  
VESSEL manufactures POZIDRIV tools under the licensing agreement with European Ind. Serv. Ltd. in UK.



### For SUPADRIV screws

Favored in UK, Where this shape was devised, and used for OA devices, computers, housing materials, automobiles and airplanes. VESSEL manufactures SUPADRIV tools under the licensing agreement with European Ind. Serv. Ltd. in UK.

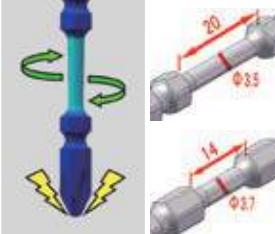


### Torsion part

Torsion part absorbs the impact caused when the screw head is fully seated by an impact driver, preventing tip breakage.



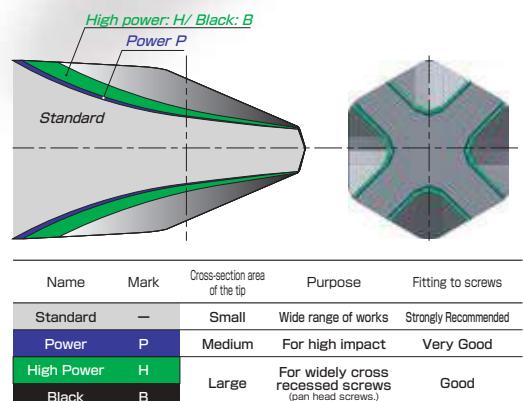
$\phi 3.5 \times 20\text{mm}$



For soft joint such as wood screws fastening.  
Suitable when fastened material is soft.

$\phi 3.7 \times 14\text{mm}$

For hard joint such as drill fastening.  
Suitable when fastened material is hard.



**Environmental measures**  
Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium / PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) / DEHP, BBP, DBP, DIBP (phthalate esters)  
The products with this mark in this catalogue are compliant with the RoHS directives (EU) (usage limit of the above 10 substances).  
Note: For the updated information on RoHS compliant products, visit our homepage, because some products or sizes are under investigation or are not compliant at the time of publication of this catalogue.

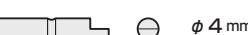
### Sockets with a press-fitted shank

The socket and the shank are separately heat-treated at different harnesses, realizing a high torsional strength nearly two times greater than that of integrated type sockets.



### Insertion part

For compact electric screw drivers



$\phi 4\text{ mm}$

82P



$\phi 4\text{ mm}$

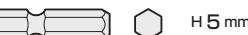
81P  
83P



$\phi 5\text{ mm}$

84P

For electric or air screwdrivers



$H 5\text{ mm}$

71P  
85P



$H 5\text{ mm}$

71P

For air or electric impact screwdrivers



$H 6.35\text{ mm}$

65P  
~68P  
86P



$H 6.35\text{ mm}$

63P  
~65P



$H 6.35\text{ mm}$

73P  
~78P  
86P  
~88P



$H 6.35\text{ mm}$

72P  
73P



$H 8\text{ mm}$

68P



$H 8\text{ mm}$

68P

### Carefully selected materials

With our long experience and research in manufacturing, we developed our own materials with balanced hardness (less wearing) and toughness (hard to chip).

Properties of the elements contained in the materials are improved to an optimal level through a heat treatment process.

**C** ...Carbon

The more carbon is contained, the greater hardening penetration becomes. When the carbon content is 0.6 % or more, abrasion resistance increases, although hardening penetration remains the same.

**Ni** ...Nickel

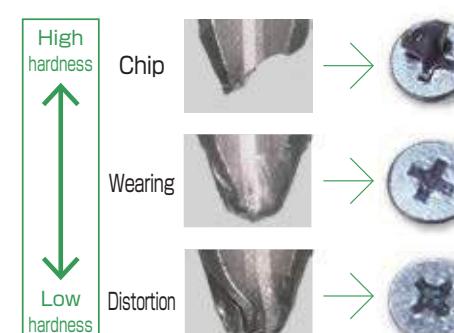
The addition of small amount of nickel increases steel's shock resistance and toughness. When added in a large amount, it becomes weak and breaks easily.

**Cr** ...Chrome

Hardenability increases. Oxidation resistance increases. Toughness is improved.

**Mo** ...Molybdenum

Hardenability increases. Significant decrease in toughness can be prevented.



### Hardness (Heat processing classifications)

Chip, wearing and deformation, which directly affect the life of bits and sockets, can be controlled by choosing different hardnesses (heat processing classification)

Hardness (Heat processing classification)	Examples of use for screws	Industrial use
X Possible highest hardness	Precision small screws, automated machine fitting, collated screws	Precision device assembly, light electrical automated screw tightening, collated screws for housing
H High hardness	Wood screws, small screws, tapping screws, self-drilling screws	Light electric assembly, communication acoustic device assembly, civil engineering and construction work
G Standard hardness	Tapping screws, small screws	Automobile and machine assembly, sash frame assembly
E Low hardness	Self-drilling screws, tapping screws, small screws	Rigid joint, sheet metal assembly, heavy work
S		



## Applicable models

Please check the model No. of your drivers before determining which bit(s) to choose.



Shape	Model No.	Page	Applicable models	
			Air Screwdriver	Electric Screwdriver
	A14	63P 64P	VESSEL GT-H4R-H4PR-H4.5-H5R-H5P-PH4-PH5-S4.5DR-PLR- PLZ-PLP-PLHII-S6MLR-S6HS-S6.5D-P4.5D-P4.5DR- P5LS-P6EXD-P6LSIII-P6HS-P6.5D-S4TR-S4TS- S4TG-SSTR-SSTB-S5TG-S5TS-S4.5XD-P4.5XD- PLXD-P60XD-P6LXD-S6LXD-S60XD-PLIXD-P5XD	VESSEL VE-5000-5000P-6000-6000P  Toshiba CI-144VBKS  Hitachi Koki WH 7DL-9DM2-10DL-10DAL-14DSL2-14DBAL2- 14DDL-14DDL2-18DBAL2-18DDL-18DDL2- 14DBEL-18DBEL-14DKL-18DKL-10DCL-14DCL- 12H2-12AB2-12VE WM 10DBL-14DBL-18DBL WP 14DSL-12VA DB 3DL2 FWH 7DL-10DAL-10DFL-14DGL-14DSAL-12DC2- 12VD-10DCL FDB 3DL2-10DFL WV 4SA2-5SA-8V  (Old model) WH 6DC-9DM-12DM-12DAF2-12DM2-12DMR-12DK- 12DMR2-14DMRL-14DBL-14DBAL-18DBDL- 8DYA (No.2 only available)-14DH-14DM-14DML- 14DRM-14DSL-18DL-12VA-12VB-12VC3-12VC2- 12VC-12VD WP 10A-12DM WV 4SA-5VC-5VD-5VE-6VC-6VH-6VJ-6M-6MV-6MV2
	A14P		Hitachi Koki WH 12AB2-12H2	
	M-A14			
	A14H			
	A14B		NPK ND-○○○Y NPW-○○○Y SD-4	
	AZ14			
	AS14		Fuji Kuki FLT series D-10-D-20 FPT series D-10 FL series D-10 FPV series D-10 FW series D-10-D-20-D-60-D-70-D-80	
	A14R			
	AL14			
	AT14			
	AT14P		Makita AD604-AD605H	
	ST14			
	A16	65P 66P	Yokota YLa60B-70B-80B YLT50B-60B-70B-60BL-70BL Y-40SB-41B-46B  YX-80B-180B-180SB-280B-380B-500B-180SB- 280SB-380SB-500SB	
	M-A16			
	D81		TD 0220-021D-061D-090D-110D-135D-134D-146D- 134DX2-146DX2-134DSHX-160D-170D-138D- 149D-136D-137D-146D-147D-148D	
	V		TL 060D-061D TP 140D-131D-141D TS 131D-141D 6955-6963SPK DF 010D-030D-031D	
	66P			
	67P		Yutani D-6SPAL-5WPEA-6WSPEA-6WSHPEA-600SHEA- 604A-8WPE-6SSAEL-6WSHSA DH-6PL-4.5PEA-6PLE-4.5SA-6SEL HPW-4D-6D-6xD-8xD-4SD-6SD-6xD ETC-10HD-15HD-5HSD-10HSD	
	A20			
	A20-5		Panasonic EZ 75A7-75A1-7544-7207-6506-7545-7521- 7520-7548-6507-7410-7411-7420-6220	
	SB			
	MA20		Ryobi BD-361 BID-1100-180-1810-1228-1229-1250-1260-1415- 1416-1417-1418-143-1440-145-1805-1806	
	MA20S		CID-1100 ID-140	
	HA		Tonichi AUR5N	
	HAM		MAX PJ-ID144-SD101	
	HD-71 x 45		Yokota YBX-50B	
	D830082	108P	Panasonic EZ 6220-6225-7410-7411	
	D831045			
	D831075		Ryobi D-500	
	D832075			
	D832100			
	A15	68P	VESSEL GT-P8D-P10SI-P80XD	Hitachi Koki WH 14DA
	A19			Panasonic EZ6680
	V5			



## No. A14 Double End Bit

- If one end breaks, the other end can be used.
- A wide variety of bits according to different heat treatment.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 45	H	10	100	413029
65	H	10	100	413031
65	G	10	100	413032
110	H	10	100	413231
110	G	10	100	413232
⊕ 2× 45	X	10	100	413039
45	H	10	100	413041
45	G	10	100	413040
65	X	10	100	413047
65	H	10	100	413042
65	G	10	100	413043
65	E	10	100	413045
110	X	10	100	413262
110	H	10	100	413241
110	G	10	100	413242
110	E	10	100	413243
150	X	10	100	413263
150	H	10	100	413245
150	G	10	100	413246
150	E	10	100	413247
200	X	10	150	413264
200	H	10	150	413249
200	G	10	150	413248
200	F	10	150	413250
300	G	10	100	413255
⊕ 3× 45	H	10	100	413051
45	E	10	100	413050
65	X	10	100	413054
65	H	10	100	413052
65	E	10	100	413053
110	H	10	100	413252
110	E	10	100	413251

## No. A14P Double End Bit (Power tip)

- If one end breaks, the other end can be used.
- Well balanced combination between tip precision and strength.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	413360
110	H	10	100	413361

## No. A14H TAPPING Bit (High power tip)

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	413351
110	H	10	100	413355
150	H	10	100	413359

## No. M-A14 Double End Bit (Magnetized)

- If one end breaks, the other end can be used.
- Strongly magnetized.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 45	H	10	100	413401
65	H	10	100	413402
110	H	10	100	413407
⊕ 2× 45	H	10	100	413403
45	G	10	100	413404
65	H	10	100	413405
65	G	10	100	413406
110	H	10	100	413408
110	G	10	100	413411
150	H	10	100	413409

## No. A14B TAPPING Bit (Black tip)

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 50	S	10	100	413141
75	S	10	100	413142
100	S	10	100	413341
150	S	10	100	413342

## No. AZ14 GIZA Bit

## PAT.

- If one end breaks, the other end can be used.
- Jagged tip prevents cam-out.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2× 65	H	10	100	413367
110				

H 6.35 mm
**No. A14 Square Double End Bit**

- If one end breaks, the other end can be used.
- Specially-shaped tip prevents the bit from getting stuck.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SQ 1x 65	H	10	100	413380
SQ 2x 65	H	10	100	413381
110	H	10	100	413383
* 150	H	10	100	413385
SQ 3x 65	H	10	100	413382
110	H	10	100	413384
150	H	10	100	413386

**No. A14R Square Double End Bit**

- If one end breaks, the other end can be used.
- With a ring attached preventing the bit from getting stuck.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
* SQ 1x 65	H	10	100	413387
* SQ 2x 65	H	10	100	413388
* 110	H	10	100	413389
* 150	H	10	100	413390
SQ 3x 65	H	10	100	413391
* 110	H	10	100	413392
* 150	H	10	100	413393

**No. A14 SUPADRIV Bit**

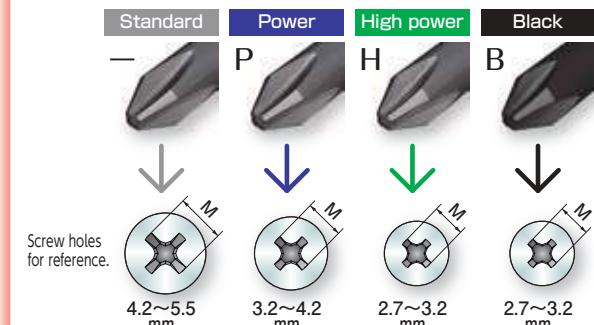
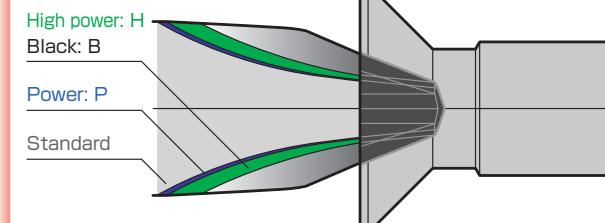
- SUPADRIV systems are patented and registered as the trademark of EIS corp. in U.K.
- VESSEL has a manufacturing license in Japan and selling same to the world.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
SDV1x 65	H	10	100	636101
SDV2x 45	H	10	100	636105
65	H	10	100	636106
SDV3x 65	H	10	100	636111

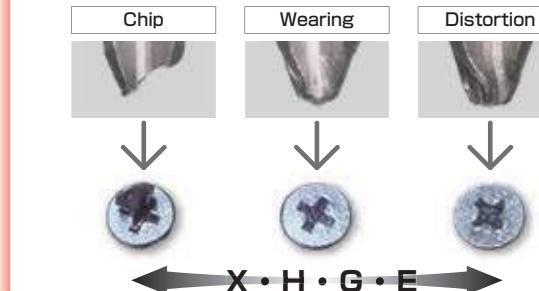
**One point****Bit selection I**

- Selecting Phillips tip suitable for screw head hole



\* M dimension : the size of a cross recess on a screw head viewed from directly above

- Selecting Phillips tip according to hardness classification



X • H • G • E

H 6.35 mm
**No. AL14 ALFA Bit**

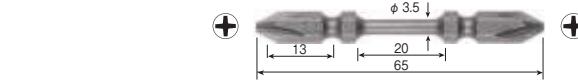
- If one end breaks, the other end can be used.
- Modest torsion effect created by tempering treatment on the ball grooves.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 65	H	10	100	413369
110	H	10	100	413370

**No. AT14 TORSION Bit**

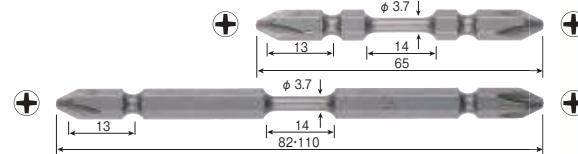
- If one end breaks, the other end can be used.
- For soft joint such as wood screws.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x3.5x 65	H	10	100	413143
110	H	10	100	413144

**No. AT14P TORSION Bit (Power tip)**

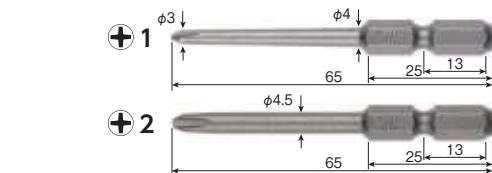
- If one end breaks, the other end can be used.
- For hard joint such as drill screws.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x3.7x 65	X	10	100	415361
82	X	10	100	415362
110	X	10	100	415363

H 6.35 mm
**No. A16 Recessed Bit**

- Recessed type. Thin shank allows for use in narrow spaces.



Size Tip x φ x Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1x3 x 65	H	10	100	415061
⊕ 2x4.5 x 65	H	10	100	415066

**One point****Bit selection II**

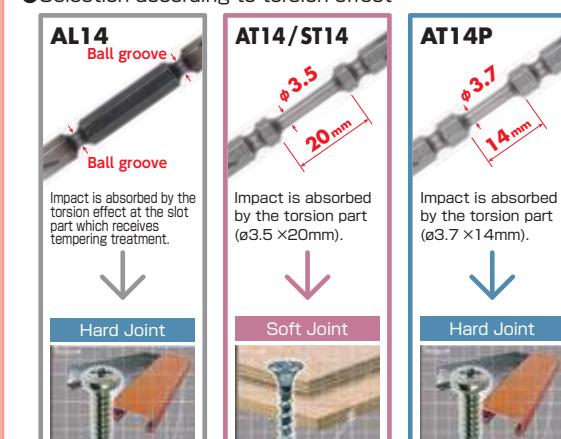
- Selection according to bit shapes

**Double End Bit**

If one end breaks, the other end can be used.

Thin shank improves workability in narrow spaces.

- Selection according to torsion effect

**Hard Joint**

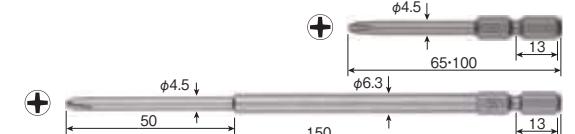
When an instantaneous impact is given when the head of drill screw and tapping screw is fully seated

**Soft Joint**

When load is gradually increased such as in fastening wood screws

**No. M-A16 Recessed Bit (Magnetized)**

- Recessed type. Thin shank allows for use in narrow spaces.
- Powerfully magnetized.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x4.5x 65	H	10	100	415311
100	H	10	100	415312
150	H	10	100	415313

**No. A16 Hex Bit**

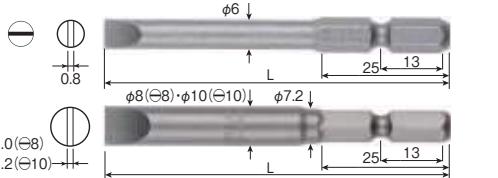
- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
H 2x 65	H	10	100	481090
110	H	10	100	481100
2.5x 65	H	10	100	481091
110	H	10	100	481101
3x 65	H	10	100	481092
110	H	10	100	481102
4x 65	H	10	100	481093
110	H	10	100	481103
5x 65	G	10	100	481094
110	G	10	100	481104
6x 65	G	10	100	481096
110	G	10	100	481105

**No. A16 Recessed Bit**

- For assembly work focusing on workability.

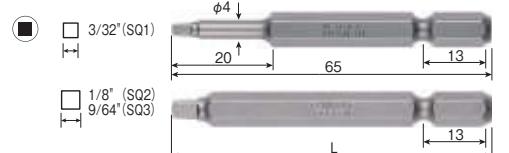


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊖ 6x 45	G	10	100	415071
70	G	10	100	415072
⊖ 8x 45	G	10	300	415171
70	G	10	250	415172
⊖ 10x 52	G	10	200	415271
70	G	10	200	415272

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VESSEL has a manufacturing license in Japan and selling same to the world.

**No. A16 Square Bit**

- For assembly work focusing on workability.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
* SQ 1x4x 65	H	10	100	481001
* SQ 2x 65	H	10	100	481002
* 110	H	10	100	481005
* 150	H	10	100	481008
* SQ 3x 65	H	10	100	481003
* 110	H	10	100	481006
* 150	H	10	100	481009

**No. D81 Recessed Bit**

- Recessed type. Thin shank allows for use in narrow spaces.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 82	X	10	100	482040
82	H	10	100	482041
82	E	10	100	482042

**No. V TORX Bit**

- For TORX screws used in the automotive industry.

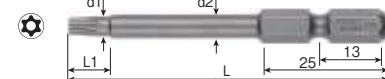


Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.	
T 6x 65	1.65	1.95	6.5	4.0	634997
110	1.65	1.95	6.5	4.0	634998
T 8x 65	2.3	2.60	7.0	4.5	634999
110	2.3	2.60	7.0	4.5	635000
T 10x 65	2.72	3.02	7.5	4.5	635120
110	2.72	3.02	7.5	4.5	635121
T 15x 65	3.26	3.56	7.5	4.5	635125
110	3.26	3.56	7.5	4.5	635126
T 20x 65	3.84	4.14	7.5	5.0	635130
110	3.84	4.14	7.5	5.0	635131
T 25x 65	4.4	4.70	8.0	5.0	635135
110	4.4	4.70	8.0	5.5	635136
T 27x 65	4.96	5.26	8.0	5.5	635140
110	4.96	5.26	8.0	5.5	635141
T 30x 65	5.49	5.79	8.5	6.0	635145
110	5.49	5.79	8.5	6.0	635146
T 40x 65	6.6	H6.35	—	H6.35	635150
110	6.6	H6.35	—	H6.35	635151

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VESSEL has a manufacturing license in Japan and selling same to the world.

**No. V TORX Bit (Tamper-Proof)**

- For TORX screws used in the automotive industry.
- With a round hole for tamper-proof.



Size Tip×Overall Length (mm)	mm	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T8H × 65	2.3	2.60	7.0	4.5	10	635032	
110	2.3	2.60	7.0	4.5	10	635033	
T10Hx 65	2.72	3.02	7.5	4.5	10	635001	
110	2.72	3.02	7.5	4.5	10	635002	
T15Hx 65	3.26	3.56	7.5	4.5	10	635005	
110	3.26	3.56	7.5	4.5	10	635006	
T20Hx 65	3.84	4.14	7.5	5.0	10	635010	
110	3.84	4.14	7.5	5.0	10	635011	
T25Hx 65	4.4	4.70	8.0	5.0	10	635015	
110	4.4	4.70	8.0	5.0	10	635016	
T27Hx 65	4.96	5.26	8.0	5.5	10	635020	
110	4.96	5.26	8.0	5.5	10	635021	
T30Hx 65	5.49	5.79	8.5	6.0	10	635025	
110	5.49	5.79	8.5	6.0	10	635026	
T40Hx 65	6.6	H6.35	—	H6.35	10	635030	
110	6.6	H6.35	—	H6.35	10	635031	

Size Tip×Overall Length (mm)	mm	φD	Drilling holes depth (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 10x 50	16	10	10	10	150	416396

**No. A20-5 Socket Bit**

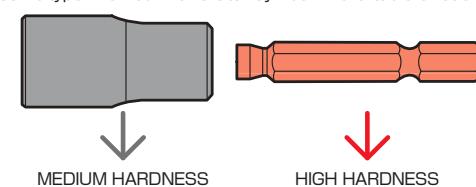
- Short type socket bit to use in narrow spaces, such as on the periphery of automobile engines.



Size Tip×Overall Length (mm)	mm	φD	Drilling holes depth (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 10x 50	16	10	10	10	150	416396

**One point****Features of press-fit type sockets**

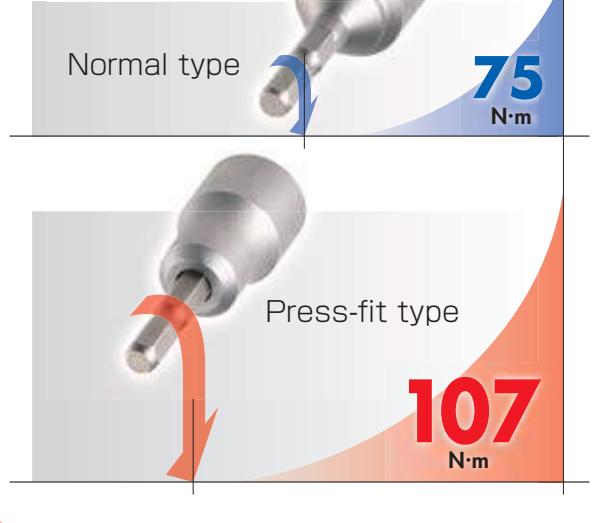
(Press-fit type: marked with a star symbol in the table of each model)



The shank and socket have been heat-treated to the best hardness and press-fit together.  
The socket part is strong against wear and shank against twisting, resulting in higher durability.

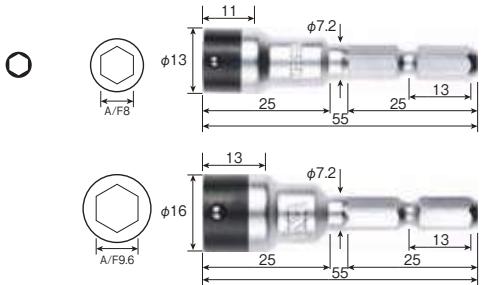
**Prevents shank breakage**

Torsion moment with a static torque



**No. SB Nut Setter (Ball Lock)**

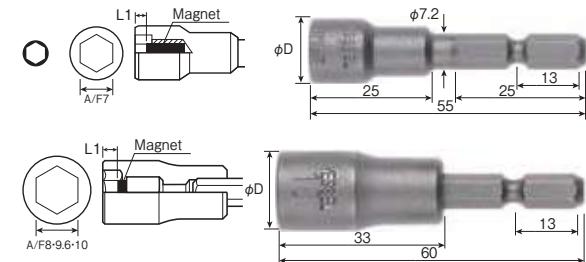
- Socket bit for Hex screws.
- Ball-lock type for minimum cutting particles.



Size Tip×Overall Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5/16" (8mm) × 55 (For screw dia. 5mm)	5	50	482531
A/F 3/8" (9.6mm) × 55 (For screw dia. 6mm)	5	50	482532

**No. MA20 Socket Bit (Press-Fit Magnet)**

- Socket bit for Hex screws.
- Holds the screw with a strong magnet, to prevent the screws from dropping.



Size Tip×Overall Length (mm)	φD	L1 (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 7 × 55 (For screw dia. of 4mm)	13	2.5	10	200	482510
A/F 8 × 60 (For screw dia. of 5mm)	☆ 13.5	3.17	10	150	482511
A/F 9.6 × 60 (For screw dia. of 6mm)	☆ 15	3.96	10	150	482512
A/F 10 × 60 (For screw dia. of 6mm)	☆ 16	3.96	10	150	482513

☆Press-fit type.

**No. MA20S Socket Bit (Side Magnet)**

- Socket bit for Hex screws.
- Holds the screw with side magnet, to prevent the screws from dropping.



Size Tip×Overall Length (mm)	φD	Drilling holes depth (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 5/16"(8mm) × 55	13	20	10	100	482401
A/F 3/8"(9.6mm) × 55	16	20	10	100	482402
A/F 10mm × 55	16	20	10	100	482403

**No. A15 Double End Bit**

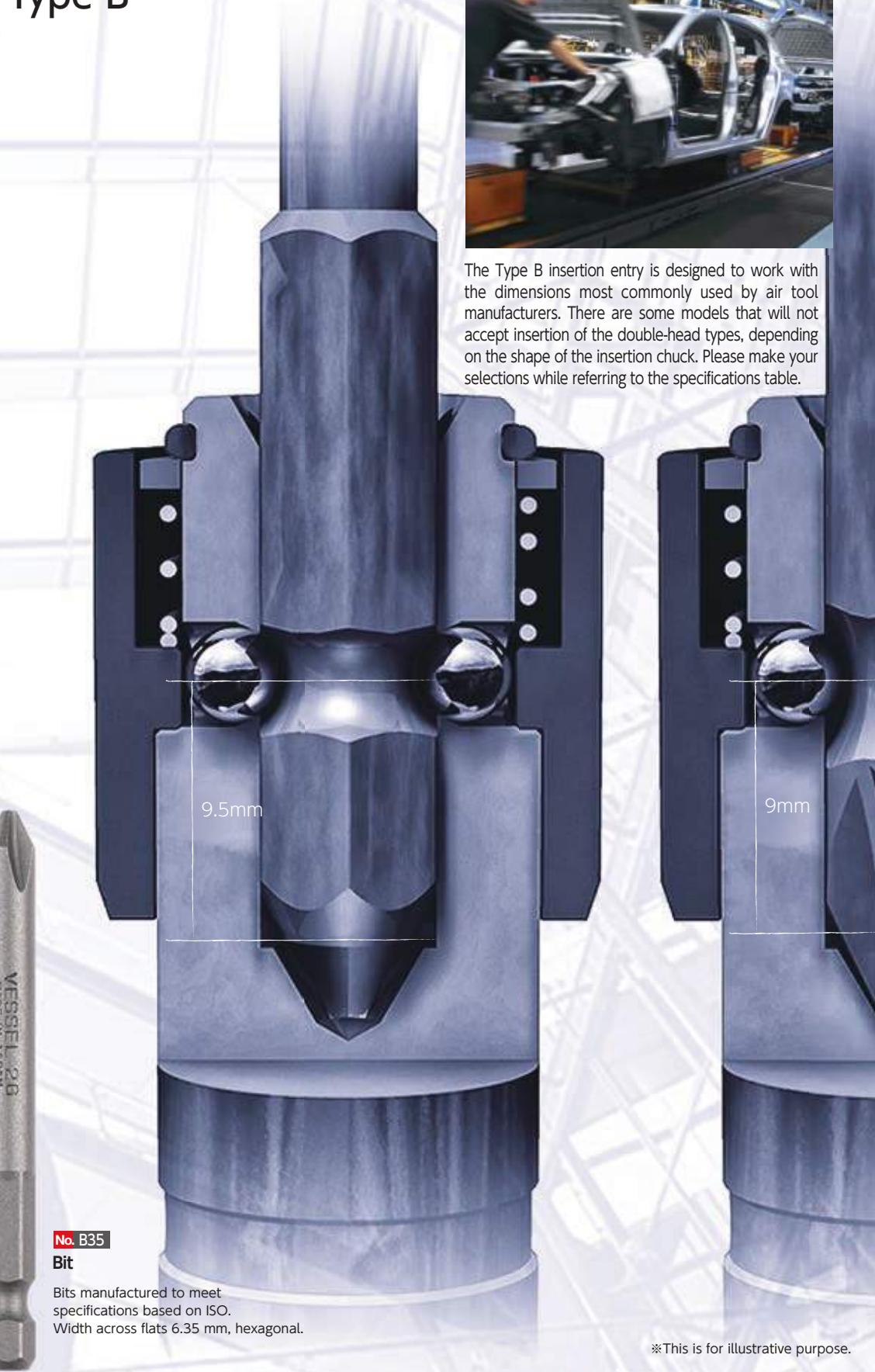
- If one end breaks, the other end can be used.
- High strength with 8mm hexagonal shank.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 65	G	10	250	414041
110	G	10	150	414042
⊕ 3x 65	E	10	250	414051
110	E	10	150	414052

**Bit Type B**

The Type B insertion entry is designed to work with the dimensions most commonly used by air tool manufacturers. There are some models that will not accept insertion of the double-head types, depending on the shape of the insertion chuck. Please make your selections while referring to the specifications table.

**No. B35****Bit**

Bits manufactured to meet specifications based on ISO.  
Width across flats 6.35 mm, hexagonal.

\*This is for illustrative purpose.

## Applicable models

Please check the model No. of your drivers before determining which bit(s) to choose.

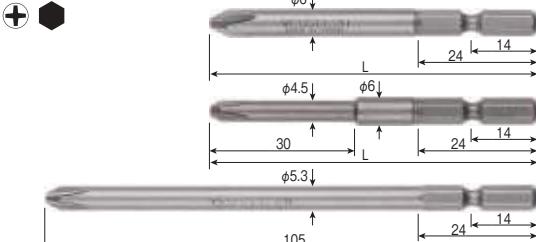
Shape	Model No.	Page	Applicable models	
			Air Screwdriver	Electric Screwdriver
	B36	71P	<b>VESSEL</b> GT-S5TFR-S5TFB-S5TFG-S4TFR-S4TFS-S4TFG <b>Uryu</b> US-40-3.5A-4-4PB/ US-LT○○A/AL series <b>Yokota</b> YD-3-4-400SC	<b>VESSEL</b> VE-4000-4000P-4500-4500P
	B34	71P	<b>VESSEL</b> GT-S4TFR-S4TFS-S4TFG-S5TFR-S5TFB-S5TFG <b>Uryu</b> US-40-3.5A-4-4PB (Except B44 Socket Bit Overall Length 70mm) US-LT○○A/AL series <b>Yokota</b> YD-3-4-400SC	<b>VESSEL</b> VE-4000-4000P-4500-4500P <b>Hios</b> PG-7000, BLG-5000BC1/-15/-20/-HT BLG-5000/-15/-20/HT, BL-5000/-15/-20-5020-7000/-20 CL-4000-6000-6500-7000 SS-4000-6500-7000, α-4500-5000-6500 CD-4000-5000-6000-7000 VB-1510/-18-1820-3012-2008-3020 VZ-1510-1812-1820-3012-3007
	N			<b>Delvo</b> DLV ○○○○-EJN/-DJN/-DJE DLV 7(8)120-SPC-7(8)130-SPC-7(8)140-SPC- 7(8)241-SPC-7(8)231-SPC DLV 30LL(P)-SPC-30SL(P)-SPC-30HL(P)-SPC
	B44			<b>Hitachi Koki</b> WT 3G/3GP-4G/4GP-5G/5GP <b>Kanon</b> 3K-120L-180L-180LF-120P-180P-180PF 9K-130P-140P-130PF-131L-131LF-131P-131PF 5KD-200-300
	B43	72P	<b>Uryu</b> UX-U-UW-ALPHA-UL-UEP-UAT-UA-UDP all driver type US-350W-450WB-5-50-5PB-○○W/PW-LT○○B/BL/PB	<b>Yokota</b> YBX-50A
	M-B43		<b>NPK</b> ND-○○○X, NPW-○○○X	<b>Tonichi</b> AUR5N-U (Except U1000CN)・UR-DU
	B43P	73P	<b>Fuji Kuki</b> FLT series D-1, FL series D-1, FPW series D-1 FW series D-1-D-2-D-6-D-7-D-8, FD series D-4-D-5	● Following Tool models are applicable only for the single end bits. <b>Hios</b> PG-7000 BLG-4000BC1-5000BC1/-15/-20/-HT BLG-4000-5000/-15/-20/20-5020-7000/-20 CL-4000-6000-6500-7000-9000 SS-4000-6500-7000 α-4500-5000-6500 CD-4000-5000-6000-7000 VB-1510/-18-1820-3012-4504-2008-3020 VH-1820-3012 VZ-1510-1812-1820-3012-3007-4504-4506 VZH-1820-3012
	B43H		<b>Yutani</b> D-6SPBL-5WPEB-6WSPEB-6WSHPEB-6005HEB- 604B-8WPE-6SSBEL-6WSHSB DH-6PL-4.5PEB-6PLE-4.5SB-6SELB HPW-4D-6D-6aD-8aD-4SD-6SD-6aSD	
	B43B	73P	<b>BT43</b> YLa60A-70A-80A YEX-120A-150A-501A-100SA-120SA-150SA- 300SA-500SA	<b>Delvo</b> DLV ○○○○-EKN/-DKN/-DKE DLV 8150-SPC-7(8)251-SPC DLV 45LL(P)-SPC-45SL(P)-SPC-70LL(P)-SPC
	BT43P		<b>Yokota</b> TKa60A-70A-80A YLT50A-60A-70A-60AL-70AL Y-40SA-41A-46A YX-80A-180A-280A-380A-500A-280A-380A- 500A-180SA-280SA-380SA-500SA-280CA-500CA YBX-50A YD-4005CA-5005CA-5PHCA-3A-4A-4.5SZ-5A- 4.5LAZ-6WAZK-6005Z-40PZ-4.5PZK-600PZ- 650PZ-65PTZ-65PZ-670A-670A-F-670A-R-670A-RF	<b>Uryu</b> UDBP-AF-TA-A <b>Kanon</b> 9K-150P
	B35	73P ~76P	<b>Atlas-Copco</b> LUM-LUF-LUD-TWIST-COMBI series	 <b>Manual type Torque Screwdriver</b>
	J	74, 75P		
	IP	75P		
	X5000	76P		
	B45	77P		
	MB45	78P		
	MB45S			
	MB45D			
	HB	86P		
	HBM	87P		
	DBHM	88P		
	B39	76P	<b>VESSEL</b> GT- H4RC-H5RC-S6CD-PLRC <b>Uryu</b> US-3.5ACB-4CA-5CA- LT30B-○○C-LT40B-○○C	<b>Yutani</b> D-6WHCL <b>Yokota</b> YD-600L YX-280CA-500CA
				<b>Kanon (Old model)</b> CN 60LTDK～N 10LTDK(N6～N100LTDK) CN 60STDK～N 10STDK(N6～N100STDK) CN 100～CN 500DPSK(N10～N50DPSK) CN 100～CN 500DPKS-L(N10～N50DPKS-L) CN 15/CN 30LTDK-H(N1.5/N3LTDK-H) DTDK-CN 500EXL(DTDK-N5EXL)

**VESSEL**



No. B34 Bit

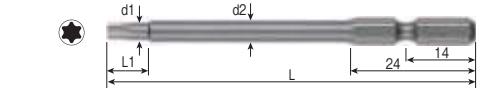
- For assembly work focusing on workability.
  - Hexagonal shape with the width across flats of 5mm is also suited for electric drivers.



Size Tip×Overall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1 × 70	H	10	100	422031
100	H	10	100	422032
150	H	10	100	422033
⊕ 1×4 × 70	H	10	100	422048
⊕ 1×4×30×70	H	10	100	446335
⊕ 1×5.3× 105	H	10	100	422034
120	X	10	100	422040
120	H	10	100	422035
⊕ 2 × 70	H	10	100	422041
100	H	10	100	422042
120	H	10	100	422045
150	H	10	100	422043
200	H	10	100	422044
⊕ 2×3×30×75	H	10	100	446340
⊕ 2×4.5× 70	H	10	100	422049
⊕ 2×5.3× 105	H	10	100	422046
120	H	10	100	422047
H 2 × 70	H	10	100	422071
H 2.5× 70	H	10	100	422072
H 3 × 70	H	10	100	422073
H 4 × 70	H	10	100	422074
H 5 × 70	H	10	100	422075

**No. N TORX Bit**

- For TORX screws popular in the automotive industry.



Size Tip×Overall Length (mm)	mm		d1	L1	d2	Inner (mm) Ctn.	EDP No.
<b>T5 × 75</b>	1.37	1.67	6.5	4.0	10	635498	
<b>100</b>	1.37	1.67	6.5	4.0	10	635499	
<b>T6 × 75</b>	1.65	1.95	6.5	4.0	10	635500	
<b>100</b>	1.65	1.95	6.5	4.0	10	635501	
<b>T8 × 75</b>	2.3	2.60	7.0	4.5	10	635505	
<b>100</b>	2.3	2.60	7.0	4.5	10	635506	
<b>T10× 75</b>	2.72	3.02	7.5	4.5	10	635510	
<b>100</b>	2.72	3.02	7.5	4.5	10	635511	
<b>T15× 75</b>	3.26	3.56	7.5	4.5	10	635515	
<b>100</b>	3.26	3.56	7.5	4.5	10	635516	
<b>T20× 75</b>	3.84	4.14	7.5	5.0	10	635520	
<b>100</b>	3.84	4.14	7.5	5.0	10	635521	
<b>T25× 75</b>	4.4	4.70	8.0	5.0	10	635525	
<b>100</b>	4.4	4.70	8.0	5.0	10	635526	
<b>T27× 75</b>	4.96	5.26	8.0	5.5	10	635530	
<b>100</b>	4.96	5.26	8.0	5.5	10	635531	

TORX is a registered trademark of Acument TM Intellectual Properties, LLC (USA).  
VESSEL has a manufacturing license in Japan and selling same to the world.

**No. N TORX Bit (Tamper-Proof)**

- For TORX screws popular in the automotive industry
  - With a round hole for tamper-proof.

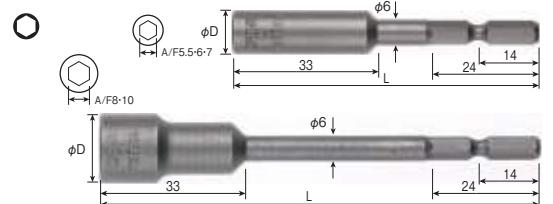


Size Tip×Overall Length (mm)	mm		d1	L1	d2 (mm)	Inner Ctn.	EDP No.
<b>T10H×</b> 75	2.72	3.02	7.5	4.5	10	635551	
100	2.72	3.02	7.5	4.5	10	635552	
<b>T15H×</b> 75	3.26	3.56	7.5	4.5	10	635553	
100	3.26	3.56	7.5	4.5	10	635554	
<b>T20H×</b> 75	3.84	4.14	7.5	5.0	10	635555	
100	3.84	4.14	7.5	5.0	10	635556	
<b>T25H×</b> 75	4.4	4.70	8.0	5.0	10	635557	
100	4.4	4.70	8.0	5.0	10	635558	

TORX is a registered trademark of Acument TM Intellectual Properties, LLC (USA).  
VESSEL has a manufacturing license in Japan and selling same to the world.

No. B44 Socket Bit

- Socket bit for Hex screws



Size Tip×Overall Length (mm)	φD	Drilling holes depth	Inner (mm) Ctn.	Outer Ctn.	EDP No.
<b>A/F 5.5× 70</b>	9	25	10	250	422371
<b>100</b>	9	25	10	250	422381
<b>6× 70</b>	10	25	10	200	422372
<b>100</b>	10	25	10	200	422382
<b>7× 70</b>	11	25	10	200	422373
<b>100</b>	11	25	10	150	422383
<b>8× 70</b>	13	25	10	200	422374
<b>100</b>	13	25	10	150	422384
<b>10×100</b>	16	25	10	100	422385



No. B36 Double End Bit

- If one end breaks, the other end can be used.
  - For assembly work focusing on workability.



Size Tip x Overall Length (mm)	Heat treatment classification	Inner Ctr.	Outer Ctr.	EDP No.
⊕ 1x 70	H	10	100	423031
100	H	10	100	423032
⊕ 2x 70	H	10	100	423041
100	H	10	100	423042
150	H	10	100	423043
200	H	10	100	423044

 H 6.35 mm
**No. B43 Double End Bit**

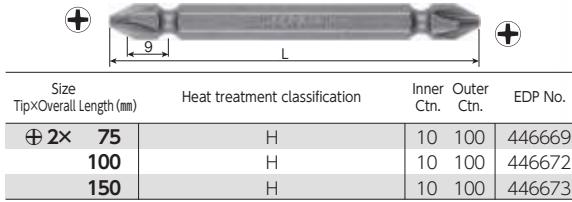
- If one end breaks, the other end can be used.
- For assembly work focusing on workability.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1x 75	H	10	100	425032
⊕ 2x 50	X	10	100	425036
50	H	10	100	425037
50	E	10	100	425038
75	X	10	100	425039
75	H	10	100	425040
75	G	10	100	425041
75	E	10	100	425042
100	X	10	100	425046
100	H	10	100	425047
100	G	10	100	425043
100	E	10	100	425044
150	X	10	100	425048
150	H	10	100	425049
150	G	10	100	425045
200	G	10	100	425050
300	H	10	100	446373
⊕ 3x 75	H	10	100	425054
75	E	10	100	425055
100	H	10	100	425057
100	E	10	100	425058
150	H	10	100	446375

**No. M-B43 Double End Bit (Magnetized)**

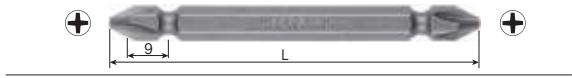
- If one end breaks, the other end can be used.
- For assembly work focusing on workability.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 75	H	10	100	446669
100	H	10	100	446672
150	H	10	100	446673

**No. B43P Double End Bit (Power tip)**

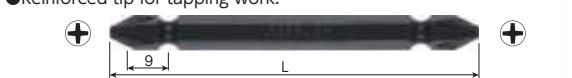
- If one end breaks, the other end can be used.
- Well balanced combination between tip precision and strength.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 75	H	10	100	425171
100	H	10	100	425172

**No. B43H TAPPING Bit (High power tip)**

- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 75	H	10	100	425151
100	H	10	100	425153
150	H	10	100	425155

**No. B43B TAPPING Bit (Black tip)**

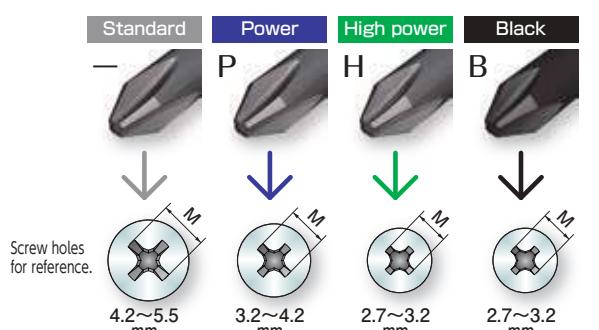
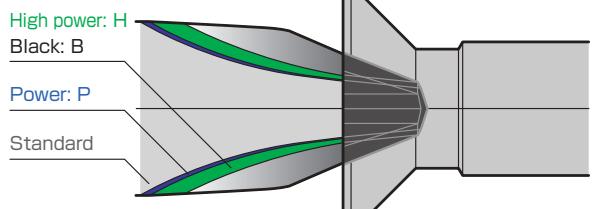
- If one end breaks, the other end can be used.
- Reinforced tip for tapping work.



Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x 50	S	10	100	425141
75	S	10	100	425142
100	S	10	100	425143
150	S	10	100	425144

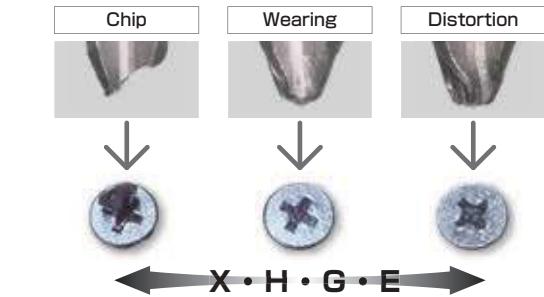
**One point****Bit selection I**

- Selecting Phillips tip suitable for screw head hole



\* M dimension : the size of a cross recess on a screw head viewed from directly above

- Selecting Phillips tip according to hardness classification



X • H • G • E

 H 6.35 mm
**No. BT43 TORSION Bit**

- If one end breaks, the other end can be used.
- For soft joint such as wood screws.



Size TipxφxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x3.5x 75	H	10	100	425161
100	H	10	100	425162

**No. BT43P TORSION Bit (Power tip)**

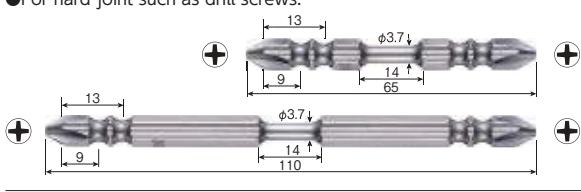
- If one end breaks, the other end can be used.
- For hard joint such as drill screws.



Size TipxφxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x3.7x 75	X	10	100	425201
100	X	10	100	425202

 H 6.35 mm
**No. RS SUPER TORSION bit**

- If one end breaks, the other end can be used.
- Compatible with both A and B type chucks.
- For hard joint such as drill screws.

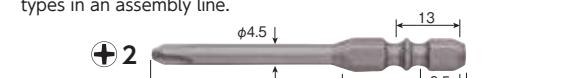


Model No.	Contents	Heat treatment classification	Package size (mm)	EDP No.
RS10P2065F	⊕2xφ3.7x 65 10pcs.	H	143x87x7	486948
RS10P2082F	⊕2xφ3.7x 82 10pcs.	H	143x87x7	486949
RS10P2110F	⊕2xφ3.7x110 10pcs.	H	162x87x7	486950

InnerCtn.: 10 sets

 H 6.35 mm
**No. M-AB16 Recessed Bit (Magnetized)**

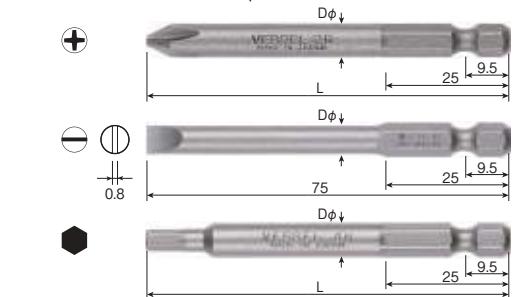
- Compatible with both A and B type chucks.
- Useful when using multiple fastening tools with different drive types in an assembly line.



Size TipxφxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 2x4.5x 65	H	10	100	415301
100	H	10	100	415302
150	H	10	100	415303

 H 6.35 mm
**No. B35 Bit**

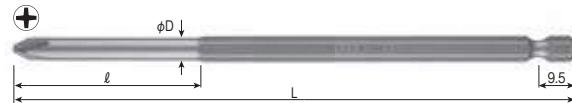
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Size TipxφxOverall Length (mm)	Heat treatment classification	φD	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1 x 50	H	7.0	10	100	424032
75	X	7.0	10	100	424034
⊕ 1 x4.5x100	H	4.5	10	100	424035
50	G	7.0	10	100	424040
75	X	7.0	10	100	424062
75	G	7.0	10	100	424041
75	E	7.0	10	100	424042
100	H	7.0	10	100	424048
100	G	7.0	10	100	424043
100	E	7.0	10	100	424044
150	H	7.0	10	100	424049
150	G	7.0	10	100	424045
150	E	7.0	10	100	424046
⊕ 2 x4.5x100	H	4.5	10	100	424038
75	H	7.0	10	100	424050
75	E	7.0	10	100	424051
100	H	7.0	10	100	424052
100	E	7.0	10	100	424053
100	G	7.0	10	100	424054
150	H	6.0	10	100	424075
⊕ 6.35x0.97x 49 (1524)	H	6.35	10	100	487245
⊕ 7.9x1.17x 49 (1526)	H	7.92	10	100	487255

**No. B35 Bit**

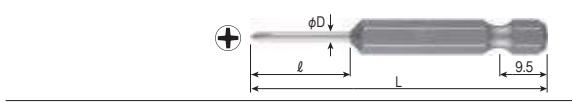
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	l	L	Inner Ctn.	Outer Ctn.	EDP No.
1092	H	⊕2	6.35	50	152	10	100	487208

**No. B35 Bit**

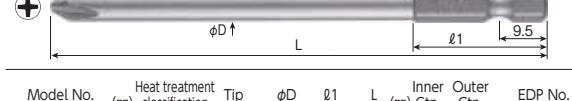
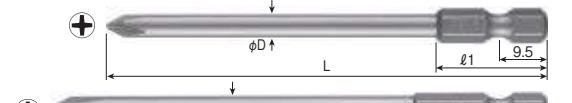
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	l	L	Inner Ctn.	Outer Ctn.	EDP No.
⊕00x1.2x20x60	H	⊕00	1.2	20	60	10	100	446126
⊕00x2x40x100	H	⊕00	2.0	40	100	10	100	446141
⊕01x1.4x30x60	H	⊕0	1.4	30	60	10	100	446145
* ⊕01x1.4x30x100	H	⊕0	1.4	30	100	10	100	446147
⊕02x20x60	H	⊕0	2.0	20	60	10	100	446153
⊕02x30x100	H	⊕0	2.0	30	100	10	100	446157

**No. B35 Bit**

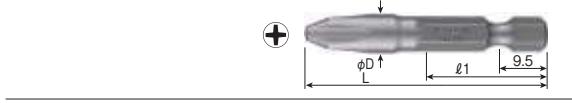
- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



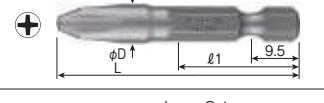
Model No.	Heat treatment classification	Tip	φD	l	L	Inner Ctn.	Outer Ctn.	EDP No.
10600	H	⊕00	1.58	21	49	10	100	446423
1060	H	⊕0	3.17	21	49	10	100	487195
1081	H	⊕1	4.76	21	89	10	100	487202
* 4301/150	H	⊕1	4.5	27	150	10	100	489672
4302/51	H	⊕2	6.0	27	51	10	100	489229
4302/100	H	⊕2	6.0	27	100	10	100	489255
4302/127	H	⊕2	6.0	27	127	10	100	446435
4302/150	H	⊕2	6.0	27	150	10	100	489673
4302/200	H	⊕2	6.0	27	200	10	100	446439
1062	H	⊕2	6.35	21	49	10	100	487205
1072	H	⊕2	6.35	21	70	10	100	487206
1082	H	⊕2	6.35	21	89	10	100	487207

**No. B35 Bit**

- For assembly work focusing on workability.
- International standards compatible H 6.35mm(1/4")



Model No.	Heat treatment classification	Tip	φD	l	L	Inner Ctn.	Outer Ctn.	EDP No.
1063	H	⊕3	8.0	25	49	10	100	487210
1073	H	⊕3	8.0	25	70	10	100	487211
1083	H	⊕3	8.0	25	89	10	100	487212

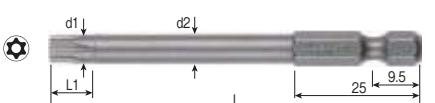


Model No.	Heat treatment classification	Tip	φD	l	L	Inner Ctn.	Outer Ctn.	EDP No.
1063	H	⊕3	8.0	25	49	10	100	487210
1073	H	⊕3	8.0	25	70	10	100	487211

\* 4303/100 H ⊕3 8.0 25 100 10 100 489256

**No. J TORX Bit (Tamper-Proof)**

- For TORX screws used in the automotive industry.
- With a round hole for tamper-proof.

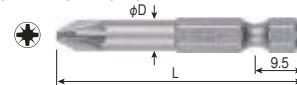


Model No.	mm	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T6H × 75	1.65	1.95	6.5	4.0	10	635283	
100	1.65	1.95	6.5	4.0	10	635284	
T8H × 75	2.3	2.60	7.0	4.5	10	635285	
100	2.3	2.60	7.0	4.5	10	635286	
T10H× 49 (T10610H)	2.72	3.02	7.5	3.96	10	446533	
70 (T10710H)	2.72	3.02	7.5	3.96	10	446544	
75	2.72	3.02	7.5	4.5	10	635251	
100	2.72	3.02	7.5	4.5	10	635252	
T15H× 75	3.26	3.56	7.5	4.5	10	635255	
100	3.26	3.56	7.5	4.5	10	635256	
T20H× 49 (T10620H)	3.84	4.14	7.5	4.37	10	446535	
70 (T10720H)	3.84	4.14	7.5	4.37	10	446546	
75	3.84	4.14	7.5	5.0	10	635261	
100	3.84	4.14	7.5	5.0	10	635262	
T25H× 75	4.4	4.70	8.0	5.0	10	635265	
100	4.4	4.70	8.0	5.0	10	635266	
T27H× 75	4.96	5.26	8.0	5.5	10	635271	
100	4.96	5.26	8.0	5.5	10	635272	
T30H× 75	5.49	5.79	8.5	6.0	10	635275	
100	5.49	5.79	8.5	6.0	10	635276	
T40H× 75	6.6	—	7.0	10	10	635281	
100	6.6	—	7.0	10	10	635282	

Model No.	mm	d1	L1	d2	(mm)	Inner Ctn.	EDP No.
T5H × 49 (T10605)	1.37	1.67	6.5	3.18	10	446486	
70 (T10705)	1.37	1.67	6.5	3.18	10	447355	
89 (T10805)	1.37	1.67	6.5	3.18	10	447356	
T6 × 75	1.65	1.95	6.5	4.0	10	635300	
100	1.65	1.95	6.5	4.0	10	635301	
152 (T10906)	1.65	1.95	6.5	3.18	10	447317	
T7 × 70 (T10707)	1.97	2.27	6.5	3.18	10	446499	
75	1.97	2.27	6.5	4.0	10	635303	
90 (T10807)	1.97	2.27	6.5	3.18	10	446509	
152 (T10907)	1.97	2.27	6.5	3.18	10	446519	
T8 × 49 (T10608)	2.3	2.6	7.0	3.18	10	446489	
70 (T10708)	2.3	2.6	7.0	3.18	10	446500	
75	2.3	2.6	7.0	4.5	10	635305	
90 (T10808)	2.3	2.6	7.0	3.18	10	446510	
152 (T10908)	2.3	2.6	7.0	3.18	10	446520	
T9 × 70 (T10709)	2.5	2.78	7.0	3.18	10	446501	
90 (T10809)	2.5	2.78	7.0	3.18	10	446511	
152 (T10909)	2.5	2.78	7.0	3.18	10	446521	
T10× 49 (T10610)	2.72	3.02	7.5	3.96	10	446491	
70 (T10710)	2.72	3.02	7.5	3.96	10	446502	
75	2.72	3.02	7.5	4.5	10	635310	
100	2.72	3.02	7.5	4.5	10	635311	
152 (T10910)	2.72	3.02	7.5	3.96	10	446522	
T15× 49 (T10615)	3.26	3.56	7.5	3.96	10	446492	
70 (T10715)	3.26	3.56	7.5	3.96	10	446503	
75	3.26	3.56	7.5	4.5	10	635315	
90 (T10815)	3.26	3.56	7.5	3.96	10	446513	
100	3.26	3.56	7.5	4.5	10	635316	
152 (T10915)	3.26	3.56	7.5	3.96	10	446523	
T20× 49 (T10620)	3.84	4.14	4.75	4			

**No. B35 POZIDRIV Bit**

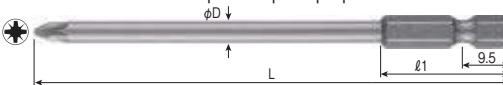
●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Tip	ØD	l	L	Inner Ctn.	Outer Ctn.	EDP No.
* PZ0 × 2 × 60	H	PZ0	2.0	20	60	10	100	447301
* PZ0 × 3 × 60	H	PZ0	3.0	20	60	10	100	447303
PZ1 × 50	H	PZ1	4.8	—	50	10	100	424101
PZ2 × 50	H	PZ2	6.3	—	50	10	100	424102
PZ3 × 50	H	PZ3	8.0	—	50	10	100	424103

**No. B35 POZIDRIV Bit**

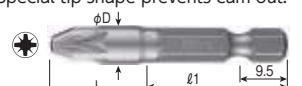
●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Tip	ØD	l1	L	Inner Ctn.	Outer Ctn.	EDP No.
* 1071PZ	H	PZ1	4.76	21	70	10	100	487216
* 1081PZ	H	PZ1	4.76	21	89	10	100	487217
* 4301/100PZ	H	PZ1	4.5	27	100	10	100	489257
* 4302/100PZ	H	PZ2	6.0	27	100	10	100	489258
* 4302/127PZ	H	PZ2	6.0	27	127	10	100	446445
* 4302/150PZ	H	PZ2	6.0	27	150	10	100	489674
* 4302/200PZ	H	PZ2	6.0	27	200	10	100	446449
* 1062PZ	H	PZ2	6.35	21	49	10	100	487220
1062PZ	X	PZ2	6.35	21	49	10	100	487523
* 1082PZ	H	PZ2	6.35	21	89	10	100	487222

**No. B35 POZIDRIV Bit**

●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Tip	ØD	l1	L	Inner Ctn.	Outer Ctn.	EDP No.
* 1063PZ	H	PZ3	8.0	29	49	10	100	487225
* 4304/51PZ	H	PZ4	8.0	29	51	10	100	489234

**No. B39 Bit**

●For assembly work focusing on workability.



Model No.	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 1× 23	H	10	100	424131
⊕ 2× 23	H	10	100	424141
40	H	10	100	424143
100	H	10	100	424147
* ⊕2×4.8×25×150(1092-2)	H	10	—	487209
* ⊕3×6.3×25×50(1063-2)	H	10	—	487214

**No. B39 POZIDRIV Bit**

●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Inner Ctn.	EDP No.
* PZ2×4.8×25×150(1092PZ-2)	H	10	487224

**No. B39 POZIDRIV Bit**

●For POZIDRIV screws. ●Special tip shape prevents cam-out.



Model No.	Heat treatment classification	Inner Ctn.	EDP No.
* PZ2×4.8×25×150(1092PZ-2)	H	10	487224

**No. B39 3-Flute Fastening Bit**

●For fastening screws used in aircraft, special vehicles, etc.



Size	TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
TW1×40		H	10	100	424201
TW2×40		H	10	100	424202
TW3×40		H	10	100	424203
TW4×40		H	10	100	424204
TW5×40		H	10	100	424205

**No. X50 Adapters**

●Hex socket adaptors.



Model code	SQ	Overall Length (mm)	Inner Ctn.	EDP No.
X5001	1/4"	35	10	487380
X5003	1/4"	75	10	487382
X5004	1/4"	100	10	487383
X5005	1/4"	150	10	487384
X5012	3/8"	50	10	487391
X5013	3/8"	75	10	487392
X5014	3/8"	100	10	487393
X5015	3/8"	150	10	487394

**No. A5 TORX Bit**

●For TORX screws used in the automotive industry.

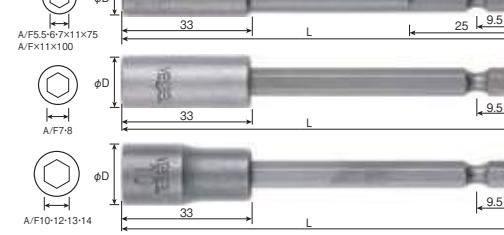


Size	Tip	mm	Overall Length (mm)	Inner Ctn.	EDP No.
T30		5.49	32	10	635427
T40		6.6	32	10	635428
T45		7.77	32	10	635429
T50		8.79	32	10	635430

TORX is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

**No. B45/13\*\* Socket Bit**

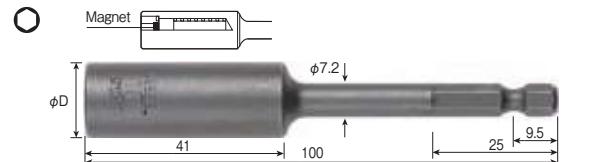
●Socket bit for Hex screws.



Model No.	A/F	ØD	l1	l2	OAL (mm)	Inner Ctn.	EDP No.
1304/50	4	8	3	15	50	10	489301
1304/75	4	8	3	25	75	10	489314
1304/100	4	8	3	25	100	10	489327
1345/50	4.5	8	3	15	50	10	489302
1345/75	4.5	8	3	25	75	10	489315
1345/100	4.5	8	3	25	100	10	489328
1305/50	5	8.5	3.5	15	50	10	489303
1305/75	5	8.5	3.5	25	75	10	489316
1305/100	5	8.5	3.5	25	100	10	489329
1305/150	5	8.5	3.5	25	150	10	489330
1305/200	6	10	4	25	200	10	489341
1306/50M	5	8.5	3.5	50	10	489340	
1306/75M	5	8.5	3.5	75	10	489351	
1306/100M	5	8.5	3.5	100	10	489362	
1306/150M	5	8.5	3.5	150	10	489369	
1306/200M	6	10	4	200	10	489376	
1307/50M	7	13	4.5	50	10	489343	
1307/75M	7	13	4.5	75	10	489344	
1307/100M	7	13	4.5	100			

**No. MB45D** Socket Bit (Sliding Magnet)

- Socket bit for Hex screw.
- Holds the screw with sliding magnet, to prevent the screws from dropping.

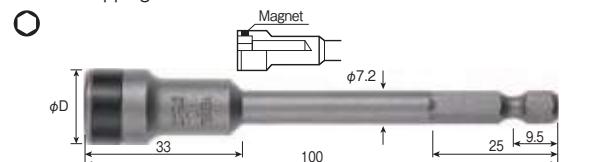


Model No. (mm) φD Hole depth (mm) Inner Ctn. Outer Ctn. EDP No.

A/F 8×100	13	36	10	100	482516
A/F 10×100	16	36	10	100	482517

**No. MB45S** Socket Bit (Side Magnet)

- Socket bit for Hex screw.
- Holds the screw with side magnet, to prevent the screws from dropping.

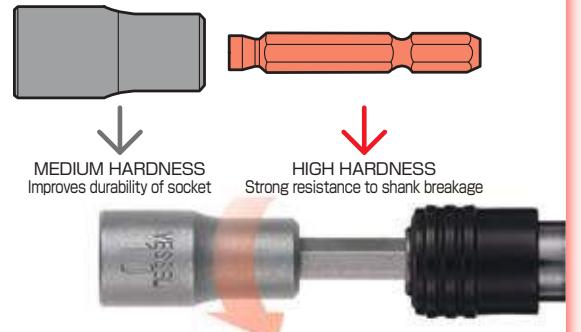


Model No. (mm) φD Hole depth (mm) Inner Ctn. Outer Ctn. EDP No.

A/F 8×100	13	25	10	100	482406
A/F 10×100	16	25	10	100	482407

**One point****Features of press-fit type sockets**

(Press-fit type: marked with a star symbol in the table of each model)



The shank and socket have been heat-treated to the best hardness and press-fit together. The socket part is strong against wear and shank against twisting, resulting in higher durability.

Prevents shank breakage  
Torsion moment with a static torque

Normal type

**No. DS73**  
**Shockless Bit**

High Precision Bit Tips  
Bits with 4mm and 5mm shafts for use with a wide variety of small, electric drivers.  
Our strong, durable bits undergo actual work tests, damage tests, and repeated fatigue tests before delivery to the market.

In our quest for ever-greater reliability, we employ torque analysis and screw-engagement checks that result in ultra high precision bit tips.

**No. DS73**  
**Shockless Bit**

Combination of special alloy steel + zinc die cast.  
Less variation in inrush torque at seating, therefore tightening becomes consistent.  
Moreover, the tip durability is improved significantly.

## Applicable models

Please check the model No. of your drivers before determining which bit(s) to choose.

Shape	Model NO.	Page	Applicable models
H 5 mm			Electric S/D (Precision type)
B34	84P	VESSEL VE-4000-4000P-4500-4500P  Hios PG-7000 BLG-5000BC1/-15/-20-HT BLG-5000/-15/-20/HT BL-5000/-15/-20-5020-7000/-20 CL-4000-6000-6500-7000 SS-4000-6500-7000 α-4500-5000-6500 CD-4000-5000-6000-7000 VB-1510/-18-1820-3012-2008-3020 VZ-1510-1812-1820-3012-3007  Delvo DLV ○○○○-EJN/-DJN/-DJE DLV 7(8)120-SPC-7(8)130-SPC-7(8)140-SPC-7(8)241-SPC-7(8)231-SPC DLV 30LL(P)-SPC-30SL(P)-SPC-30HL(P)-SPC	
N	85P	Hitachi Koki WT 3G/3GP-4G/4GP-5G/5GP  Kanon 3K-120L-180L-180LF-120P-180P-180PF, 9K-130P-140P-130PF-131L-131LF-131P-131PF, 5KD-200-300  Panasonic FE-A310S-A310MH-A310L-A111L-A111MH-A111M-A710AXN-A710MHN	
D71	82P	Delvo DLV ○○○○-BMN/-CMN/-EMN/-SB DLV 5820-5820H-5840 DLV 7410A-SPC-7410HA-SPC-7420A-SPC-7321-SPC-7331-SPC-7020-SPC-7030-SPC-7031-SPC-8020-SPC-8030-SPC-8031-SPC	
D72			
φ 4 mm			
DS73	81P	VESSEL VE-1500-1500EPA-2000-2000EPA-3000  Hios PG-3000-5000 BLG-4000BC1-5000BC1/-15/-20 BLG-4000-5000/-15/-20 BL-2000-3000-5000/-15/-20 CL-2000-3000-4000 SS-2000-3000-4000 α-4500-5000 CD-4000-5000 VB-1510/-18 VZ-1510  Kanon 3K-110L-110P 2KD-100-200-300	
D73	83P		
φ 4 mm			
D76	84P	Hios CL-6000-6500-7000 SS-6500-7000 α-6500 CD-6000-7000	

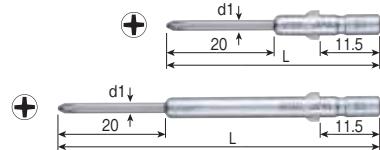


φ 4 mm

## No. DS73 Shockless Bit

PAT.

- Combination of special alloy steel and zinc die cast; Stable fastening torque and improved durability.
- Bit tip high-precision-machined to thread standards.

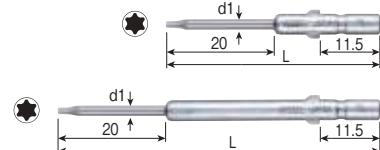


Model No.	(mm)	d1	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 00×1.5×40	60	1.5	10	100	483801
⊕ 0 ×1.5×40	60	1.5	10	100	483802
⊕ 0 ×1.7×40	60	1.7	10	100	483809
⊕ 0 ×2.0×40	60	2.0	10	100	483810
			10	100	483811
			10	100	483812
			10	100	483813
			10	100	483814

## No. DS73 Shockless Bit

PAT.

- Combination of special alloy steel and zinc die cast; Stable fastening torque and improved durability.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	d1	Inner Ctn.	Outer Ctn.	EDP No.	
T5 ×2.0× 40	60	1.37	2.0	10	100	483901
T6 ×2.0× 40	60	1.65	2.0	10	100	483902

TORX is a registered trademark of Acument TM Intellectual Properties, LLC (USA).  
VESSEL has a manufacturing license in Japan and selling same to the world.

## One point

## Advantage of Shockless Bit

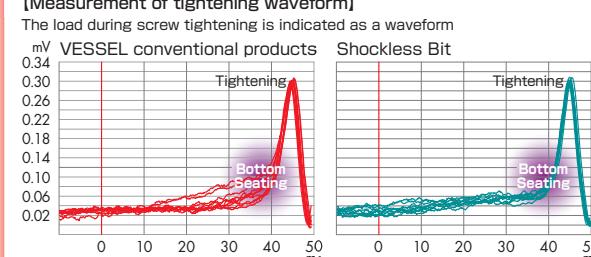
Shockless Bit have cushioning characteristics to absorb the impact occurred when a screw is fully seated.  
Less variable inrush torque at the time of screw seating, realizing fastening stability



## Stable tightening torque

The combination of alloy steel and zinc creates a shockless effect and stabilizes the tightening torque.

## [Measurement of tightening waveform]

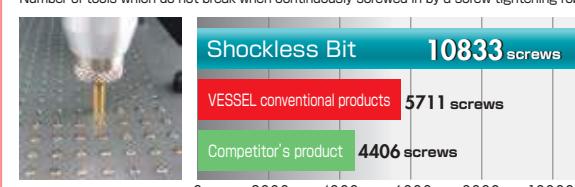


## Break-resistant with improved durability

The shockless effect of the alloy steel and zinc combination greatly improves the durability of the tool tip.

## [Driving durability test]

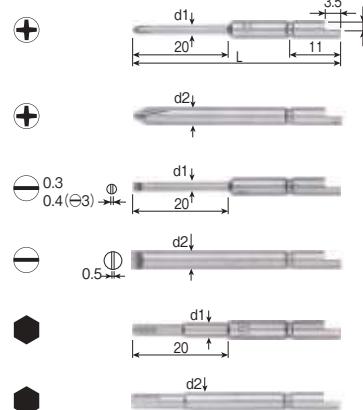
Number of tools which do not break when continuously screwed in by a screw tightening robot.



Cushion effect of combination of several materials enables the impact on the tip-end to be absorbed and makes the bit durable. This also leads to less damage on screw or workpieces as Shockless Bit is not merely hard but cushiony.

**No. D71 Bit**

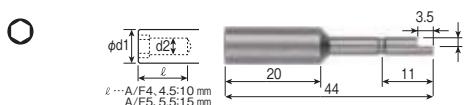
- With crescentic shank shape in cross section; for fastening precision small screws.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	d1	d2	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 00×1.5× 44		1.5	—	10	100	482901	
64		1.5	—	10	100	482902	
* ⊕ 00×2 × 64 (EPH204)	2.0	2.0	10	—	446293		
* ⊕ 00×2.5× 44 (EPH205)	2.5	2.0	10	—	446294		
⊕ 0 ×2 × 44	2.0	—	10	100	482911		
64	2.0	—	10	100	482912		
⊕ 0 ×2.5× 44	2.5	—	10	100	482913		
64	2.5	—	10	100	482914		
⊕ 1 ×3 × 44	3.0	—	10	100	482921		
64	3.0	—	10	100	482922		
⊕ 1 ×4 × 44	—	4.0	10	100	482923		
64	—	4.0	10	100	482924		
⊕ 2 ×4 × 44	—	4.0	10	100	482931		
64	—	4.0	10	100	482932		
⊕ 2 ×0.3× 44	2.0	—	10	200	482941		
⊕ 2.5×0.3× 44	2.5	—	10	200	482942		
⊕ 3 ×0.4× 44	3.0	—	10	200	482943		
⊕ 4 ×0.5× 44	—	4.0	10	200	482944		
H 1.5×2 × 44	2.0	—	10	200	482951		
H 2 ×3 × 44	3.0	—	10	200	482952		
H 2.5×3 × 44	3.0	—	10	200	482953		
H 3 ×4 × 44	—	4.0	10	200	482954		

**No. D72 Socket Bit**

- With crescentic shank shape in cross section; for fastening precision small screws.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	d1	d2	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F 4 × 44		7	3	10	100	482961	
A/F 4.5× 44		7	3	10	100	482962	
A/F 5 × 44	8	4	—	10	100	482963	
A/F 5.5× 44	8	4	—	10	100	482964	

**No. D71 TORX Bit**

- With crescentic shank shape in cross section; for fastening precision small screws such as computers, HDDs.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	mm	d1	Inner Ctn.	Outer Ctn.	EDP No.
T1 × 44	0.84	1.5	10	100	635601	
T2 × 44	0.94	1.5	10	100	635602	
T3 × 44	1.12	1.7	10	100	635603	
T4 × 44	1.3	1.8	10	100	635604	
T5 × 44	1.37	2.0	10	100	635605	
T6 × 44	1.65	2.5	10	100	635606	
T7 × 44	1.97	2.5	10	100	635607	
T8 × 44	2.3	3.0	10	100	635608	
T8H × 44 (ETX254)	2.3	4	10	200	446323	
T9 × 44	2.48	3.0	10	100	635609	
T10 × 44	2.72	3.0	10	100	635610	
T15H × 44 (ETX259)	3.26	4	10	200	446328	

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VESSEL has a manufacturing license in Japan and selling same to the world.

Model No.	(mm)	d1	d2	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 00×1.5× 44	1.5	—	10	100	482901		
64	1.5	—	10	100	482902		
* ⊕ 00×2 × 64 (EPH204)	2.0	2.0	10	—	446293		
* ⊕ 00×2.5× 44 (EPH205)	2.5	2.0	10	—	446294		
⊕ 0 ×2 × 44	2.0	—	10	100	482911		
64	2.0	—	10	100	482912		
⊕ 0 ×2.5× 44	2.5	—	10	100	482913		
64	2.5	—	10	100	482914		
⊕ 1 ×3 × 44	3.0	—	10	100	482921		
64	3.0	—	10	100	482922		
⊕ 1 ×4 × 44	—	4.0	10	100	482923		
64	—	4.0	10	100	482924		
⊕ 2 ×4 × 44	—	4.0	10	100	482931		
64	—	4.0	10	100	482932		
⊕ 2 ×0.3× 44	2.0	—	10	200	482941		
⊕ 2.5×0.3× 44	2.5	—	10	200	482942		
⊕ 3 ×0.4× 44	3.0	—	10	200	482943		
⊕ 4 ×0.5× 44	—	4.0	10	200	482944		
H 1.5×2 × 44	2.0	—	10	200	482951		
H 2 ×3 × 44	3.0	—	10	200	482952		
H 2.5×3 × 44	3.0	—	10	200	482953		
H 3 ×4 × 44	—	4.0	10	200	482954		

Model No.	(mm)	IP	φD	l	L	(mm)	Inner Ctn.	Outer Ctn.	EDP No.
2IP × 44	2IP	1.5	20	44	10	—	447428		
2IP × 64	2IP	1.5	20	64	10	—	447412		
3IP × 44	3IP	1.7	20	44	10	—	447429		
3IP × 64	3IP	1.7	20	64	10	—	447413		

φd1 = φA/4: 4.5×10 mm  
φd2 = φA/5: 5.5×15 mm

Model No. (mm) d1 d2 (mm) Inner Ctn. Outer Ctn. EDP No.

A/F 4 × 44 7 3 10 100 482961

A/F 4.5× 44 7 3 10 100 482962

A/F 5 × 44 8 4 10 100 482963

A/F 5.5× 44 8 4 10 100 482964

A/F 4 × 44 7 3 10 100 482961

A/F 4.5× 44 7 3 10 100 482962

A/F 5 × 44 8 4 10 100 482963

A/F 5.5× 44 8 4 10 100 482964

**No. D73 Bit**

- For fastening precision small screws.
- Bit tip high-precision-machined to thread standards.



Model No.	(mm)	Tip	l	d1	d2	L	Inner Ctn.	Outer Ctn.	EDP No.
⊕ 00×1.2×20×40	00	20	1.2	—	40	10	100	446001	
⊕ 00×1.5×40	00	20	1.5	—	40	10	100	445981*(483001)	
⊕ 00×1.5×60	00	20	1.5	—	60	10	100	445982*(483002)	
⊕ 00×1.5×80	00	20	1.5	—	80	10	100	483003	
⊕ 00×1.7×20×40	00	20	1.7	—	40	10	100	446004	
⊕ 00×2×40	00	20	2	—	40	10	100	445983*(483005)	
⊕ 00×2×60	00	20	2	—	60	10	100	445984*(483006)	
⊕ 0×1.2×20×40	0	20	1.2	—	40	10	100	483007	
⊕ 0×1.4×20×40	0	20	1.4	—	40	10	100	446016	
⊕ 0×1.4×20×60	0	20	1.4	—	60	10	100	446017	
⊕ 0×1.4×20×80	0	20	1.4	—	80	10	100	483008	
⊕ 0×1.5×20×40	0	20	1.5	—	40	10	100	446022	
⊕ 0×1.5×20×60	0	20	1.5	—	60	10	100	446076	
⊕ 0×1.7×40	0	20	1.7	—	40	10	100	483010	
⊕ 0×1.7×60	0	20	1.7	—	60	10	100	445986*(483011)	
⊕ 0×1.7×80	0	20	1.7	—	80	10	100	483012	
⊕ 0×1.8×60	0	20	1.8	—	60	10	100	483013	
⊕ 0×2×20×40	0	20	2	—	40	10	100	446025	
⊕ 0×2×20×60	0	20	2	—	60	10	100	446026	
⊕ 0×2×30×60									



# One point

## Custom-Made Bits

If you cannot find an appropriate bit among our standard line-up, VESSEL can also produce specially designed bits for your application.

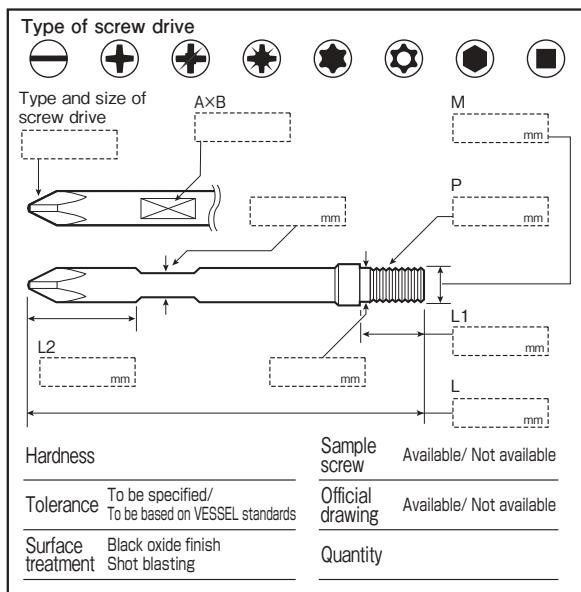


**Bits for automated assembly lines**  
High-precision processing is required for bits to be installed in automatic assembly machines, which operate in micro-level accuracy. VESSEL has technology and know-how for such precision bits as one of the biggest bit manufacturers in the world.



**Laser marking**  
Necessary information can be directly laser-marked on bits, which brings further efficiency to your inventory management.

### How to request for customized bits for automated machinery



### Outline for made-to-order bit

**Arrangement** We receive a minimum order of 10 pieces including test samples. Since the more the number of bits ordered, the less the unit cost becomes, we recommend you to make a bulk purchase for production.

**Delivery deadline** Normally, we ship products within 21 work days after receiving your order. Regarding bits for Torx and automatic machine (screw thread cutting), we try to ship products within 25 work days after receiving your order.

\*For some types of bits, more time may be needed to machine specific dies and jigs.  
\*For delivery deadline, we will inform you each time.

H 6.35 mm

### No. HA Bit Holder

- Holds a bit with C-pin.
- Cutting chips do not attach to the bit.



Size TipxOverall Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F6.35×75	—	10 100	482410

### No. HAM Bit Holder

- Holds the bit with a strong magnetic force.



Size TipxOverall Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F6.35×75	—	10 100	482415

H 6.35 mm

### No. HB Bit Holder

- Holds a bit with C-pin.
- Cutting chips do not attach to the bit.



Size TipxOverall Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F6.35×75	—	10 100	482420

### No. HBM Bit Holder

- Holds the bit with a strong magnetic force.



Size TipxOverall Length (mm)	Inner Ctn.	Outer Ctn.	EDP No.
A/F6.35×75	—	10 100	482425

### No. DBH-01 Bit Holder

- Holds a bit with C-pin.



Size TipxOverall Length	Inner Ctn.	EDP No.
A/F6.35×60	—	482431
* A/F6.35×102(BH44)	—	487366

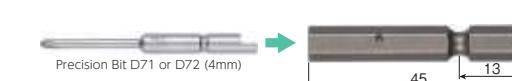
### No. BH423M Bit Holder



Size TipxOverall Length	Inner Ctn.	EDP No.
A/F6.35×75	—	487370

### No. HD-71×45 Bit Holder

- By attaching a crescent shank shape precision bit, it can be used with compact electric screwdrivers.



Size Overall Length (mm)	Inner Ctn.	EDP No.
45	—	482429

\*Bit is not included.

# One point

Precision bits can be installed to electric screwdrivers.

D71/D72(4mm) bits can be inserted.

### No. HD-71×45



**No. MMBC-J Magnet Screw Catcher**

● Micro magnet screw catchers.



Size Tip×Overall Length (mm)	Tip size	L	Inner Ctn.	EDP No.
T10× 49	T10	49	10	447111
70	T10	70	10	447112
T15× 49	T15	49	10	447115
70	T15	70	10	447116
T20× 49	T20	49	10	447113
75	T20	75	10	447101
150	T20	150	10	447109
T25× 49	T25	49	10	447117
70	T25	70	10	447118

**No. MMBC Magnet Screw Catcher**

● Micro magnet screw catchers.



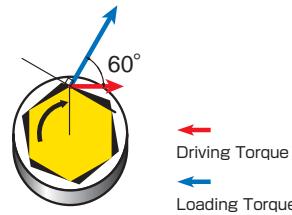
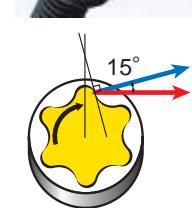
Size Tip×Overall Length (mm)	Tip size	L	Inner Ctn.	EDP No.
T10× 33	T10	33	10	447104
T15× 33	T15	33	10	447102
T20× 33	T20	33	10	447103
T25× 33	T25	33	10	447110
PH1× 33	PH1	33	10	447105
PH2× 33	PH2	33	10	447106
PZ1× 33	PZ1	33	10	447107
PZ2× 33	PZ2	33	10	447108

**Replacement Bits For MMBC Series**

Size Tip×Overall Length (mm)		Inner Ctn.	EDP No.
PH1× 33	bit only, for MMBC	10	447333
PH2× 33	bit only, for MMBC	10	447334
PZ1× 33	bit only, for MMBC	10	447335
PZ2× 33	bit only, for MMBC	10	447336
T10× 33	bit only, for MMBC	10	447329
T10× 49	bit only, for MMBC-J	10	447337
T10× 70	bit only, for MMBC-J	10	447338
T15× 33	bit only, for MMBC	10	447330
T15× 49	bit only, for MMBC-J	10	447361
T15× 70	bit only, for MMBC-J	10	447362
T20× 33	bit only, for MMBC	10	447331
T20× 49	bit only, for MMBC-J	10	447339
T20× 75	bit only, for MMBC-J	10	447340
T20×150	bit only, for MMBC-J	10	447341
T25× 33	bit only, for MMBC	10	447332

**One point****Features of TORX Bits**

TORX has 6-lobe shaped curves. Compared to hexagonal shape driver, TORX has higher drive effectiveness and transfers torque smoothly and accurately while eliminating "CAM-OUT".

**TORX**

TORX transfers max torque due to small driving angle.

**Hex**

Meanwhile, Hex square drive need max upload torque to transfer for large diving angle to other directions.

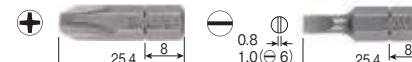
**TAMPER-PROOF TORX SYSTEM**

Added function of "Never Touch Screw" a post in the middle of the recess for maximum security eliminates regular TORX drive or any other flat screwdrivers for safety. Tamper proof screws are mostly used at communication equipment and computers so as not to abuse the screwing/unscrewing due to its design and control of function. Keep off unscrewing unless otherwise maintenance serving practiced.

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**No. B33 Short Bit (For Bit Holder)**

● Can be used by attaching to a bit holder.



Model No. (mm)	Heat treatment classification	Tip	L (mm)	Inner Ctn.	Outer Ctn.	EDP No.
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⊕1 × 25.4	H	⊕1	25.4	10	100	421231
⊕2 × 25.4	H	⊕2	25.4	10	100	421241
⊕3 × 25.4	G	⊕3	25.4	10	100	421242
⊖4 × 25.4	H	⊖4	25.4	10	100	421251
⊖6 × 25.4	H	⊖6	25.4	10	100	421252
H2 × 25.4	H	H2	25.4	10	100	421260
H2.5×25.4	H	H2.5	25.4	10	100	421261
H3 × 25.4	H	H3	25.4	10	100	421262
H4 × 33.3	H	H4	33.3	10	100	421263
H5 × 33.3	H	H5	33.3	10	100	421264
H6 × 33.3	H	H6	33.3	10	100	421265

**No. B33 3-Flute Bit (For Bit Holder)**

● Can be used by attaching to a bit holder.



Model No. (mm)	Heat treatment classification	Tip	L (mm)	Inner Ctn.	EDP No.
* 4002	H	TW2	25.4	10	446412
* 4004	H	TW4	25.4	10	446415

**No. B33 Square Bits (For Bit Holder)**

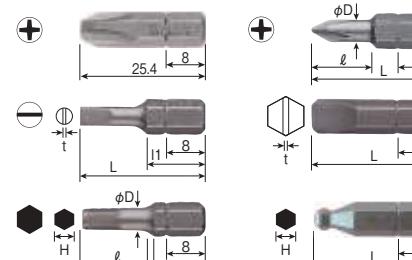
● Can be used by attaching to a bit holder.



Model No.	Contents	Set content	Inner Ctn.	Outer Ctn.	EDP No.
B33 Driver Bit Set	1 for each	⊕1, ⊕2, ⊕3, ⊖4, ⊖6×25.4 with holder	1	10	421270
B33 Hex. Bit Set	1 for each	H 2, 2.5, 3×25.4 H 4, 5, 6×33.3 with holder	1	10	421271

**No. B33 Short Bit (For Bit Holder)**

● Can be used by attaching to a bit holder.



Model No. (mm)	Heat treatment classification	Tip	φD	l	l1	L (mm)	Outer Ctn.	EDP No.
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* 1001	H	⊕1	—	—	—	25.4	10	487105	
* 3002R/25	H	⊕2	6	12	—	25	10	489003	
* 1002	H	⊕2	—	—	—	25.4	10	487106	
1002X	X	⊕2	—	—	—	25.4	10	487502	
5603/25	H	⊖3 × 0.5t	—	—	11	25	10	489061	
5635/25	H	⊖3.5 × 0.55t	—	—	11	25	10	489678	
* 1501	H	⊖4.76 × 0.86t	—	—	—	25.4	10	487120	
* 1502	H	⊖5.56 × 1.02t	—	—	—	25.4	10	487121	
* 1503	H	⊖6.35 × 1.07t	—	—	—	25.4	10	487122	
* 1504	H	⊖7.14 × 1.17t	—	—	—	25.4	10	487123	
* 1505	H	⊖8 × 1.27t	—	—	—	25.4	10	487124	
30325/25	H	H2.5	3	4.5	11	25	10	489052	
* 21005	H	H5	—	—	12.7	18	33.3	10	487143
3034/25	H	H4	4.75	6	11	25	10	489054	
3036/25	H	H6	—	8	—	25	10	489056	
3038/25	H	H8	—	10	—	25	10	489057	
* 3760/25	H	BP H6	—	—	—	25	10	446407	

**No. A4 TORX Bit**

●Can be used by attaching to a bit holder.



Size Tip No.	mm	Overall Length (mm)	Inner Ctn.	EDP No.
<b>T6</b>	1.65	25.4	10	635400
<b>T8</b>	2.3	25.4	10	635401
<b>T10</b>	2.72	25.4	10	635402
<b>T15</b>	3.26	25.4	10	635403
<b>T20</b>	3.84	25.4	10	635404
<b>T25</b>	4.4	25.4	10	635405
<b>T27</b>	4.96	25.4	10	635406
<b>T30</b>	5.49	25.4	10	635407
<b>T40</b>	6.6	25.4	10	635408

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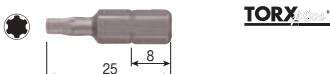


Model No.	Size	mm	Overall Length (mm)	Inner Ctn.	EDP No.
<b>T3/25</b>	T3	1.12	25	10	489154
<b>T5/25</b>	T5	1.37	25	10	489155
<b>T7/25</b>	T7	1.99	25	10	489157
<b>T27/25</b>	T27	4.96	25	10	489164
★ <b>TF08/25</b>	T8H	2.31	25	10	446392
★ <b>TF09/25</b>	T9H	2.5	25	10	446393
★ <b>TF15/25</b>	T15H	3.26	25	10	489168
★ <b>TF25/25</b>	T25H	4.43	25	10	489170
★ <b>TF27/25</b>	T27H	4.96	25	10	489171
★ <b>TF30/25</b>	T30H	5.49	25	10	489172

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**No. IP TORX Plus Bit**

●Can be used by attaching to a bit holder.



Size Tip No.	mm	Overall Length (mm)	Inner Ctn.	EDP No.
<b>15IP</b>	3.26	25	10	447204
<b>20IP</b>	3.84	25	10	447205
<b>25IP</b>	4.4	25	10	447206
<b>30IP</b>	5.49	25	10	447207
<b>40IP</b>	6.6	25	10	447208

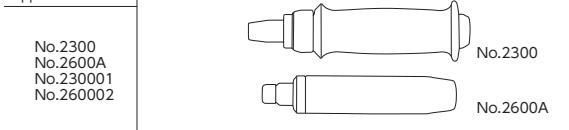
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■ **H 6.35 mm**

**No. C50 Impact Driver Bit**

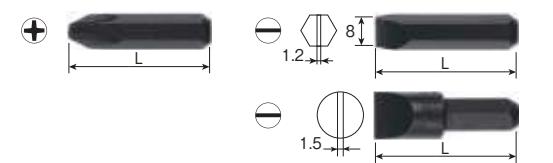
Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	EDP No.
<b>⊕ 1x 125</b>	G	10	431301
<b>⊕ 2x 125</b>	G	10	431302
<b>⊕ 3x 125</b>	G	10	431303
<b>⊖ 5x 125</b>	G	10	431311
<b>⊖ 6x 125</b>	G	10	431312
<b>⊖ 7x 125</b>	G	10	431313

Applicable models



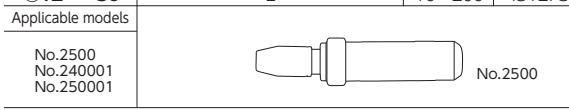
Model No.	Contents	Set content	Inner Ctn.	EDP No.
<b>2300• 2600A Bit Set</b>	1 for each	C50 ⊕1, ⊕2, ⊕3, ⊕5, ⊖6, ⊖7×125mm	1	431701

■ **H 8 mm**

**No. C51 Impact Driver Bit**

Size TipxOverall Length (mm)	Heat treatment classification	Inner Ctn.	Outer Ctn.	EDP No.
<b>⊕ 2x 36</b>	G	10	250	431041
<b>80</b>	G	10	250	431042
<b>⊕ 3x 36</b>	E	10	250	431051
<b>80</b>	E	10	250	431052
<b>⊕ 4x 36</b>	E	10	250	431061
<b>⊖ 8x 36</b>	E	10	250	431171
<b>80</b>	E	10	250	431172
<b>⊕10x 36</b>	E	10	250	431271
<b>80</b>	E	10	200	431272
<b>⊕12x 36</b>	E	10	200	431273

Applicable models



Model No.	Contents	Set content	Inner Ctn.	Outer Ctn.	EDP No.
<b>2500 Bit Set</b>	1 for each	C51 ⊕2, ⊕3, ⊕4, ⊖10×36mm	1	50	431801

■ **9.5 mm Attachment for Impact Driver**

**No. S6 TORX Socket**

●SQ9.5mm TORX sockets for impact wrenches



Size TipxOverall Length (mm)	mm	d1 (mm)	EDP No.
<b>T30x 75</b>	▲	5.49	635681
<b>T40x 75</b>	▲	6.6	635682
<b>T45x 75</b>	▲	7.77	635683
<b>T50x 75</b>	▲	8.79	635684

▲For the date of delivery, consult Vessel.  
VESSEL has a manufacturing license in Japan and selling same to the world.

■ **12.7 mm Attachment for Impact Driver**

**No. S8 TORX Socket**

●SQ12.7mm TORX sockets for impact wrenches.



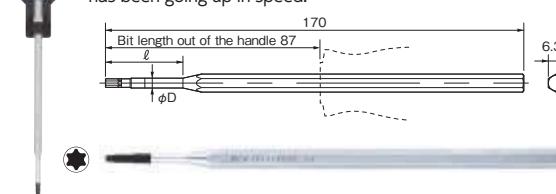
Size TipxOverall Length (mm)	mm	d1 (mm)	EDP No.
<b>T40x 75</b>	▲	6.6	635691
<b>T45x 75</b>	▲	7.77	635692
<b>T50x 75</b>	▲	8.79	635693

▲For the date of delivery, consult Vessel.  
VESSEL has a manufacturing license in Japan and selling same to the world.

**No. BTX Blades for Torque Screwdrivers**

●Blades for TORX screws.

●Adopted for replacement of chips of machine tools that has been going up in speed.



Model No.	Tip	mm	l (mm)	φD (mm)	Outer Ctn.	EDP No.
<b>BTX06</b>	T6	1.69	30	3.5	10	173206
<b>BTX07</b>	T7	1.97	30	3.5	10	173207
<b>BTX08</b>	T8	2.3	30	3.5	10	173208
<b>BTX10</b>	T10	2.72	30	3.5	10	173210
<b>BTX15</b>	T15	3.26	32	4.5	10	173215
<b>BTX20</b>	T20	3.84	34	5	10	173220

**No. B\_IP Blades for Torque Screwdrivers**

●Blades for TORX PLUS screws.

●Optimal for replacement of chips of machine tools that has been going up in speed.

Model No.	Tip	mm	l (mm)	φD (mm)	Outer Ctn.	EDP No.
<b>B06IP</b>	6IP	1.69	30	3.5	10	173106
<b>B07IP</b>	7IP	1.97	30	3.5	10	173107
<b>B08IP</b>	8IP	2.29	30	3.5	10	173108
<b>B09IP</b>	9IP	2.48	30	3.5	10	173109
<b>B10IP</b>	10IP	2.72	30	3.5	10	173110
<b>B15IP</b>	15IP	3.25	30	4.5	10	173111

**No. BPH Blades for Torque Screwdrivers**

●Blades for Phillips screws.

●Optimal for tightening control of

Construction Bits  
**BITS & SOCKETS**



# Contents

- Construction Bits ..... 96 - 112
- Construction Sockets ..... 113 - 121
- PROKON series ..... 122 - 129
- Black Laser Series ..... 130 - 131
- Drill Bits / Drill Chucks ..... 132 - 137

## About ISO



### ISO 9001 : 2008

Our screwdriver manufacturing division, VESSEL SHIMANE CO., LTD is certified according to ISO standard, the global standard for quality assurance control.



### ISO 14001 : 2004

We obtained ISO 14001 in August 2010. VESSEL will further strive to offer eco-friendly products, aiming at minimizing the environmental burden as a manufacturing group.

# Ideal Bits for construction & facilities

# BITS & SOCKETS

## TECHNICAL



### Rib PAT.

Magnum bit is an unconventional bit with reinforced ribs on its tip. Combining with optimal torsion part, it has realized excellent torque transmission and high durability. With high strength, this bit shows superb durability for various works.



### GIZA

The jagged tip of our GIZA BIT prevents cam-out of cross-head screws. Just as the bit starts to cam-out, the jagged edges bite into the internal wall of the recess of the screw.



### EXTRA HARD

Our EXTRA HARD BITS have been hardened to a maximum hardness of 62 HRC. They are ideal for relatively hard screws such as stainless steel screws and board screws.



### TAPPING

Our TAPPING BITS are designed with thick wings and short flutes for extra strength, making them ideal for heavy-duty work such as driving sash screws of greater than 4mm in diameter.



### SLENDER

The tips of our SLENDER BIT series have been worked to a fine point, making it easy to see the heads of the screws. These bits are designed for soft joint work such as wood screws and resin tapping screws.



### JAWS PAT.

Our JAWS BITS are perfect for working wood screws. From start to finish, these bits bite into the screw holes, allowing for increased work efficiency without fallen screws.



### Tapered shape (SAKISUBO BITS)

The constricted part of the bit reduces the vibration caused when the thread starts to enter the material and screw passes through wood grain, preventing cam out and allowing efficient works.

111P  
123P  
~125P  
127P  
131P

## Environmental Measures

### RoHS

Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium / PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) / DEHP, BBP, DBP, DIBP (phthalate esters)

The products with this mark in this catalogue are compliant with the RoHS directives (EU) (usage limit of the above 10 substances).

Note: For the updated information on RoHS compliant products, visit our homepage, because some products or sizes are under investigation or are not compliant at the time of publication of this catalogue.

102P  
131P

105P

105P

105P

103P  
104P

105P

### Carefully selected materials

With our long experience and research in manufacturing, we developed our own materials with hardness (less wearing) and toughness (hard to chip). Properties of the elements contained in the materials have been improved to an optimal level through a heat treatment process.

**C** ...Carbon

The more carbon is contained, the greater hardening penetration becomes. When the carbon content is 0.6 % or more, abrasion resistance increases, although hardening penetration remains the same.

**Ni** ...Nickel

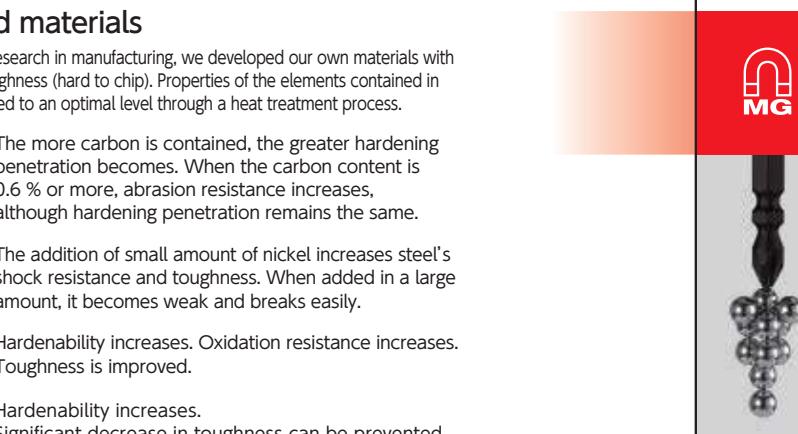
The addition of small amount of nickel increases steel's shock resistance and toughness. When added in a large amount, it becomes weak and breaks easily.

**Cr** ...Chrome

Hardenability increases. Oxidation resistance increases. Toughness is improved.

**Mo** ...Molybdenum

Hardenability increases. Significant decrease in toughness can be prevented.



### Magnetized bits

These bits can capture screws with a strong magnetic force enhancing work efficiency.



### Torsion part

Torsion part absorbs the impact caused when the screw head is fully seated by an impact driver, preventing tip breakage.



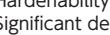
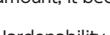
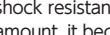
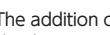
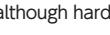
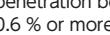
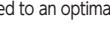
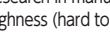
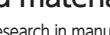
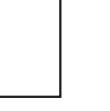
Φ3.5×20mm



For soft joint such as fastening wood screws Suitable when fastened material is soft

Φ3.7×14mm

For hard joint such as drill fastening Suitable when fastened material is hard



**"GOSAI" Bits**No. GS14  
Double End "GOSAI" bits

- Different colors applied to each size.
- Endurable and ductile.



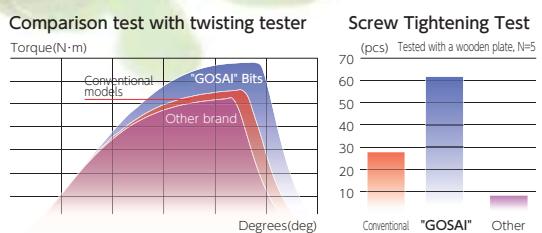
"Extra Superalloy" is VESSEL's new and unique steel material for bits. This is very endurable and ductile, determining reputation of VESSEL bits.

Resistant to twist and breaking.

## Extra Superalloy\*

\*Adopted to the items and sizes optimizing the material characteristics.

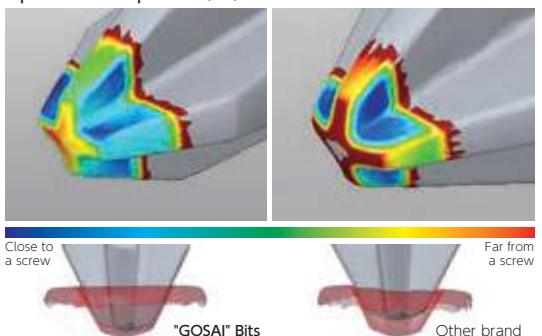
- The max hardness is HRC62. Resistant to breaking and twisting, and also transmitting the torque properly and assuredly, for reliable screw tightening.



- Precise tip-end machining. High quality fitting.

As the tip-end is not plated or painted, the cross shaped tip-end can fit various screws.

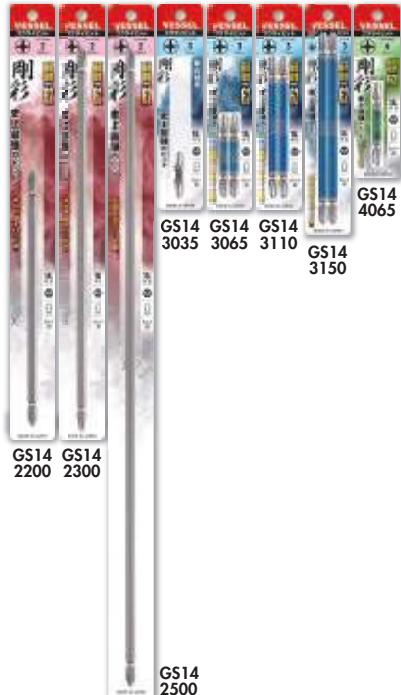
Tip-end 3D comparison (+0)



\*The illustrations are for reference only.

**VESSEL****No. GS14 Double End "GOSAI" bits NEW**

- Different colors applied to each size.
- Endurable and ductile.



Model No.	Set Content	Package Size (mm)	EDP No.
GS141035	⊕1× 35 1pc.	160×35×8	485501
GS141065	⊕1× 65 2pcs.	160×35×8	485502
GS141110	⊕1×110 2pcs.	160×35×8	485503
GS142035	⊕2× 35 1pc.	160×35×8	485504
GS142045	⊕2× 45 1pc.	160×35×8	485505
GS142065	⊕2× 65 2pcs.	160×35×8	485506
GS142082	⊕2× 82 2pcs.	160×35×8	485507
GS142110	⊕2×110 2pcs.	160×35×8	485508
GS142130	⊕2×130 2pcs.	180×35×8	485509
GS142150	⊕2×150 2pcs.	180×35×8	485510
GS142200	⊕2×200 1pc.	340×35×8	485511
GS142300	⊕2×300 1pc.	340×35×8	485512
GS142500	⊕2×500 1pc.	540×35×8	485513
GS143035	⊕3× 35 1pc.	160×35×8	485514
GS143065	⊕3× 65 2pcs.	160×35×8	485515
GS143110	⊕3×110 2pcs.	160×35×8	485516
GS143150	⊕3×150 2pcs.	180×35×8	485517
GS144065	⊕4× 65 1pc.	135×35×8	485519

\*Colors inside the table indicate the bit color.  
Inner Ctn.: 10 sets

**No. GS5P Double End "GOSAI" Bit 5-pc set NEW**

Model No.	Set Content	Package Size (mm)	EDP No.
GS5P2065	⊕2× 65 5pcs.	160×70×8	485552
GS5P2082	⊕2× 82 5pcs.	160×70×8	485553
GS5P2110	⊕2×110 5pcs.	160×70×8	485554
GS5P2130	⊕2×130 5pcs.	180×70×8	485555
GS5P2150	⊕2×150 5pcs.	180×70×8	485556

\*Colors inside the table indicate the bit color.  
Inner Ctn.: 10 sets

**No. GS14 Double End Combi "GOSAI" Bit NEW**

- 2 different sizes are combined into one bit.



Model No.	Set Content	Package Size (mm)	EDP No.
GS141211	⊕1/⊕2×110 2pcs.	160×35×8	485520
GS142311	⊕2/⊕3×110 2pcs.	160×35×8	485518
GS145665	⊕5/⊕6× 65 2pcs.	160×35×8	485550
GS145611	⊕5/⊕6×110 2pcs.	160×35×8	485551
GS141565	⊕1/⊕5× 65 2pcs.	160×35×8	485521
GS141511	⊕1/⊕5×110 2pcs.	160×35×8	485522
GS142665	⊕2/⊕6× 65 2pcs.	160×35×8	485523
GS142611	⊕2/⊕6×110 2pcs.	160×35×8	485524
GS142615	⊕2/⊕6×150 2pcs.	180×35×8	485525
GS142620	⊕2/⊕6×200 1pc.	340×35×8	485526

\*Colors inside the table indicate the bit color.  
Inner Ctn.: 10 sets

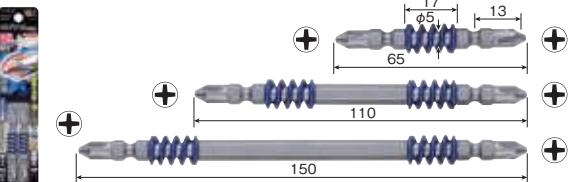






**No. MX14 Double End MAGNUM bit 2-Piece Set PAT.**

- Long life with ribbed tip and torsion.
- Plastic spring facilitates bit replacement.



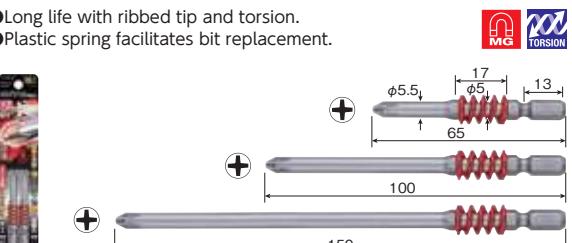
Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX142065	⊕2×φ5× 65 2pcs.	H	160×35×8	485031
MX142110	⊕2×φ5×110 2pcs.	H	160×35×8	485033
MX142150	⊕2×φ5×150 2pcs.	H	210×35×8	485034

Inner Ctn.: 10 sets

**No. MX5P Double End MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX5P2065	⊕2×φ5× 65 5pcs.	H	160×70×8	485051
MX5P2110	⊕2×φ5×110 5pcs.	H	160×70×8	485052

Inner Ctn.: 10 sets

**No. MX16 Recessed MAGNUM bit 2-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX162065	⊕2×φ5× 65 2pcs.	H	160×35×8	485035
MX162100	⊕2×φ5×100 2pcs.	H	160×35×8	485037
MX162150	⊕2×φ5×150 2pcs.	H	210×35×8	485038

Inner Ctn.: 10 sets

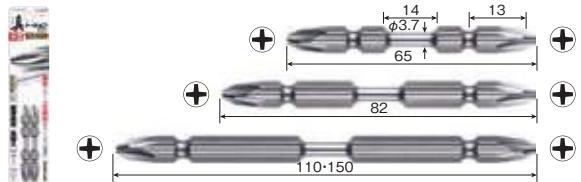
**No. MX5P Recessed MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX5P2065D	⊕2×φ5× 65 5pcs.	H	160×70×8	485053
MX5P2100D	⊕2×φ5×100 5pcs.	H	160×70×8	485054

Inner Ctn.: 10 sets

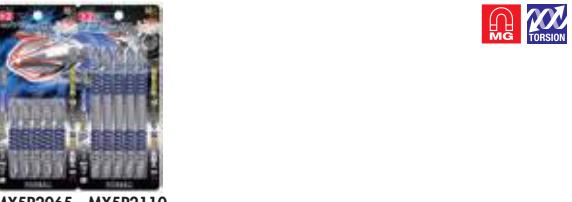
**No. RT "SUPER TORSION BIT" 2-Piece Set PAT.**

- Tapered tip allows for easy view of small screw head.
- Combination of strong tip-end and torsion which is suitable for heavy works.
- Ultra Hex shank avoids damage to the chuck.



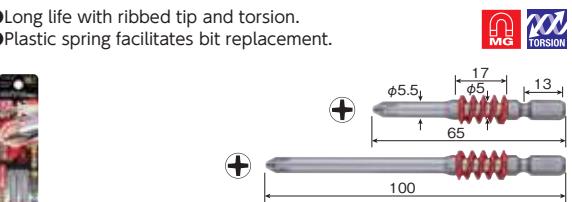
Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
RT142065	⊕2×φ3.7× 65 2pcs.	X	160×35×8	484461
RT142082	⊕2×φ3.7× 82 2pcs.	X	160×35×8	484462
RT142110	⊕2×φ3.7×110 2pcs.	X	160×35×8	484463

Inner Ctn.: 10 sets

**No. MX5P Double End MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX5P2065	⊕2×φ5× 65 5pcs.	H	160×70×8	485051
MX5P2110	⊕2×φ5×110 5pcs.	H	160×70×8	485052

Inner Ctn.: 10 sets

**No. MX16 Recessed MAGNUM bit 2-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX162065	⊕2×φ5× 65 2pcs.	H	160×35×8	485035
MX162100	⊕2×φ5×100 2pcs.	H	160×35×8	485037

Inner Ctn.: 10 sets

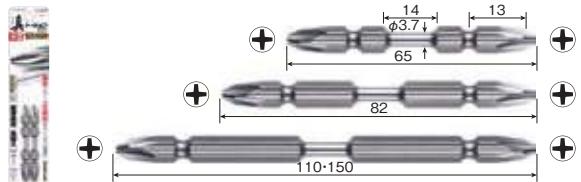
**No. MX5P Recessed MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX5P2065D	⊕2×φ5× 65 5pcs.	H	160×70×8	485053
MX5P2100D	⊕2×φ5×100 5pcs.	H	160×70×8	485054

Inner Ctn.: 10 sets

**No. RT "SUPER TORSION BIT" 2-Piece Set PAT.**

- Tapered tip allows for easy view of small screw head.
- Combination of strong tip-end and torsion which is suitable for heavy works.
- Ultra Hex shank avoids damage to the chuck.



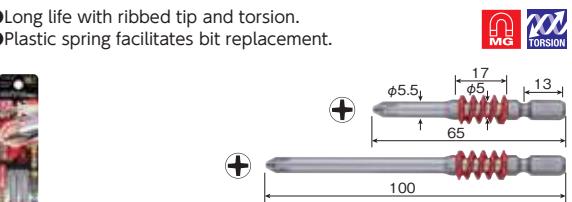
Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
RT142065	⊕2×φ3.7× 65 2pcs.	X	160×35×8	484461
RT142082	⊕2×φ3.7× 82 2pcs.	X	160×35×8	484462
RT142110	⊕2×φ3.7×110 2pcs.	X	160×35×8	484463

Inner Ctn.: 10 sets

**No. MX5P Double End MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX5P2065	⊕2×φ5× 65 5pcs.	H	160×70×8	485051
MX5P2110	⊕2×φ5×110 5pcs.	H	160×70×8	485052

Inner Ctn.: 10 sets

**No. MX16 Recessed MAGNUM bit 2-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX162065	⊕2×φ5× 65 2pcs.	H	160×35×8	485035
MX162100	⊕2×φ5×100 2pcs.	H	160×35×8	485037

Inner Ctn.: 10 sets

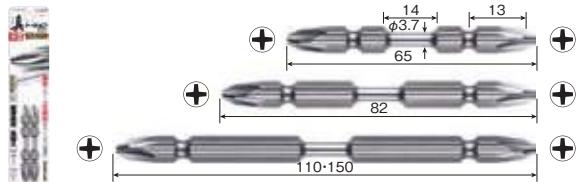
**No. MX5P Recessed MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
MX5P2065D	⊕2×φ5× 65 5pcs.	H	160×70×8	485053
MX5P2100D	⊕2×φ5×100 5pcs.	H	160×70×8	485054

Inner Ctn.: 10 sets

**No. RT "SUPER TORSION BIT" 2-Piece Set PAT.**

- Tapered tip allows for easy view of small screw head.
- Combination of strong tip-end and torsion which is suitable for heavy works.
- Ultra Hex shank avoids damage to the chuck.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
RT142065	⊕2×φ3.7× 65 2pcs.	X	160×35×8	484461
RT142082	⊕2×φ3.7× 82 2pcs.	X	160×35×8	484462
RT142110	⊕2×φ3.7×110 2pcs.	X	160×35×8	484463

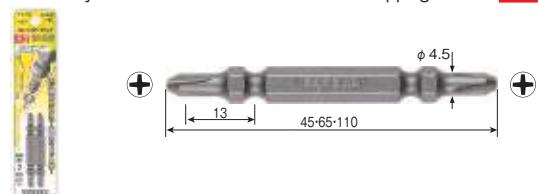
Inner Ctn.: 10 sets

**No. MX5P Double End MAGNUM bit 5-Piece Set PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
</tbl\_info

**No. AS SLENDER BIT 2-Piece Set**

- Tapered finished tip fits to slim screws.
- For soft joint such as wood screws and resin tapping screws.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
AS141065	⊕1× 65	2pcs.	H	160×35×8
AS142045	⊕2× 45	2pcs.	H	160×35×8
AS142065	⊕2× 65	2pcs.	H	160×35×8
AS142110	⊕2×110	2pcs.	H	160×35×8

Inner Ctn.: 10 sets

**No. BW SLENDER BIT 5-Piece Set**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
BW-180	⊕2× 65	5pcs.	H	140×70×23
BW-181	⊕2×110	5pcs.	H	140×70×23
BW-182	⊕2× 65 ⊕2×110	3pcs. 2pcs.	H	140×70×23

Provided with one bit holder. Outer Ctn.: 10 sets

**No. AS5P SLENDER BIT 5-Piece Set**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
AS5P1065F	⊕1× 65	5pcs.	H	135×50×7
AS5P2065F	⊕2× 65	5pcs.	H	135×50×7
AS5P2110F	⊕2×110	5pcs.	H	160×50×7

Inner Ctn.: 10 sets

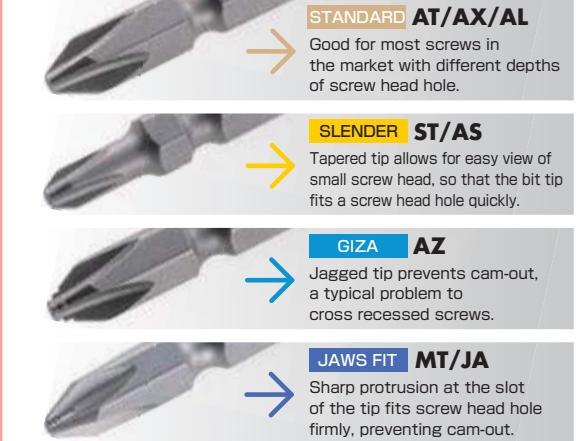
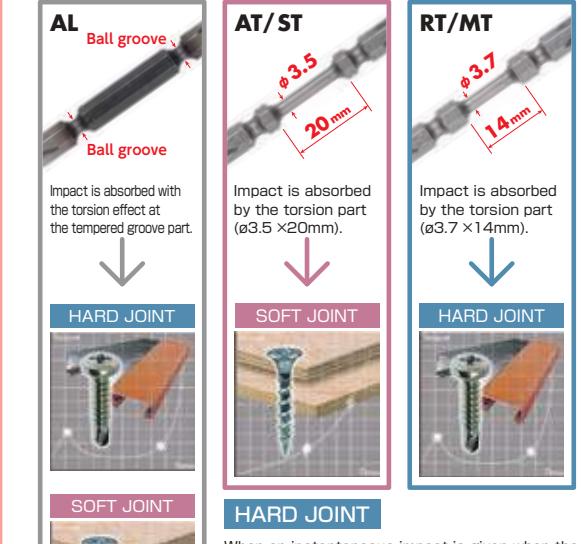
**No. AS20P SLENDER BIT 20-Piece Set**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
AS20P2065F	⊕2× 65	20pcs.	H	143×87×14
AS20P2110F	⊕2×110	20pcs.	H	162×87×14

Inner Ctn.: 5 sets

**One point****Bit Selection**

- Different tip-end for various application.

**Selection according to torsion effect**

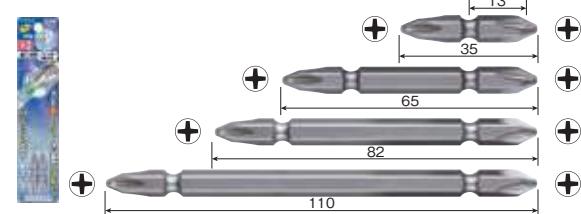
When an instantaneous impact is given when the head of drill screw or tapping screw is fully seated

**SOFT JOINT**

When the load is gradually increased such as in fastening wood screws

**No. JA JAWS BIT 2-Piece Set****PAT.**

- Jaws Fit tip fits screw head hole.
- Reliable work possible as this tip prevents screws from falling over.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
JA142035	⊕2× 35	2pcs.	H	160×35×8
JA142065	⊕2× 65	2pcs.	H	160×35×8
JA142082	⊕2× 82	2pcs.	H	160×35×8
JA142110	⊕2×110	2pcs.	H	160×35×8

Inner Ctn.: 10 sets

**No. JA5P JAWS BIT 5-Piece Set****PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
JA5P2065	⊕2× 65	5pcs.	H	160×70×8
JA5P2082	⊕2× 82	5pcs.	H	160×70×8
JA5P2110	⊕2×110	5pcs.	H	160×70×8

Inner Ctn.: 10 sets

**No. AX EXTRA HARD BIT 2-Piece Set**

- The highest hardness of 62HRC, suited for stainless screws and plaster board screws.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
AX142045	⊕2× 45	2pcs.	X	160×35×8
AX142065	⊕2× 65	2pcs.	X	160×35×8
AX142110	⊕2×110	2pcs.	X	160×35×8
AX162065	⊕2×φ4.5× 65	2pcs.	X	160×35×8
AX162100	⊕2×φ4.5×100	2pcs.	X	160×35×8

Inner Ctn.: 10 sets

**No. BW EXTRA HARD BIT 5-Piece Set****PAT.**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
BW-36	⊕2× 65	5pcs.	X	140×70×23
BW-37	⊕2×110	5pcs.	X	140×70×23
BW-38	⊕2×φ4.5× 65	5pcs.	X	140×70×23
BW-39	⊕2×φ4.5×100	5pcs.	X	140×70×23

Provided with one bit holder. Outer Ctn.: 10 sets

**No. AZ GIZA BIT 2-Piece Set****PAT.**

- Jagged parts prevents cam-out.
- Suited for fastening screws in a poor footing unstable place.

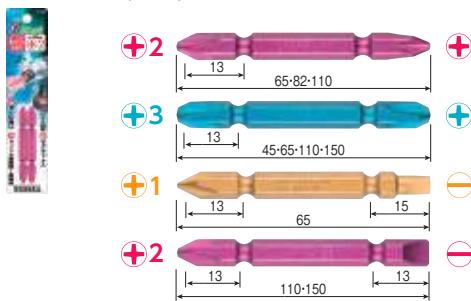


Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
AZ142065	⊕2× 65	2pcs.	H	160×35×8
AZ142110	⊕2×110	2pcs.	H	160×35×8
AZ142150	⊕2×150	2pcs.	H	210×35×8
AZ142200	⊕2×200	2pcs.	H	260×35×8

Inner Ctn.: 10 sets

**No. IR14 IRO BIT (Color-coded Bit) 2-Piece Set**

- Bits colored according to size.
- Excellent rust proof performance.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
IR142065	⊕2× 65 2pcs.	H	160×35×8	485104
IR142082	⊕2× 82 2pcs.	H	160×35×8	485107
IR142110	⊕2×110 2pcs.	H	160×35×8	485105
IR143045	⊕3× 45 2pcs.	H	160×35×8	485110
IR143065	⊕3× 65 2pcs.	H	160×35×8	485111
IR143110	⊕3×110 2pcs.	H	160×35×8	485112
IR143150	⊕3×150 2pcs.	H	210×35×8	485113
IR141565	⊖1/⊖5× 65 2pcs.	H	160×35×8	485120
IR142611	⊕2/⊖6×110 2pcs.	H	160×35×8	485122
IR142615	⊕2/⊖6×150 2pcs.	H	210×35×8	485123

※Colors inside the table cells indicate the bit color.

Inner Ctn.: 10 sets

**No. IR5P IRO BIT (Color-coded Bit) 5-Piece Set**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
IR5P2065F	⊕2× 65 5pcs.	H	135×50×7	485167
IR5P2110F	⊕2×110 5pcs.	H	160×50×7	485168
IR5P3065F	⊕3× 65 5pcs.	H	135×50×7	485169

※Colors inside the table cells indicate the bit color.

Inner Ctn.: 10 sets

**No. SM16H Hex Bit**

●For hexagon socket head bolts or set screws commonly used for machines and facilities, cars and motorcycles.



Model No.	Contents	Card size (mm)	EDP No.
<b>SM16H020</b>	H 2 × 65 1pc.	135×35×8	486671
<b>SM16H025</b>	H 2.5× 65 1pc.	135×35×8	486672
<b>SM16H030</b>	H 3 × 65 1pc.	135×35×8	486673
<b>SM16H040</b>	H 4 × 65 1pc.	135×35×8	486674
<b>SM16H050</b>	H 5 × 65 1pc.	135×35×8	486675
<b>SM16H060</b>	H 6 × 65 1pc.	135×35×8	486676
<b>SM16H080</b>	H 8 × 65 1pc.	135×35×8	486677
Inner Ctn.: 10 sets			

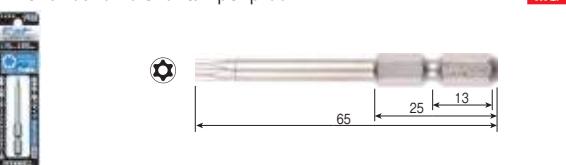
**No. BW Hex Bit 5-Piece Set**

Model No.	Contents	Card size (mm)	EDP No.
<b>BW-31</b>	H2.5, 3, 4, 5, 6×65 1 for each	140×70×23	486591

Provided with one bit holder. Outer Ctn.: 10 sets

**No. SMVT TORX Bit (Tamper-Proof)**

●For TORX screws used in the automobile industry.  
●With a round hole for tamper-proof.

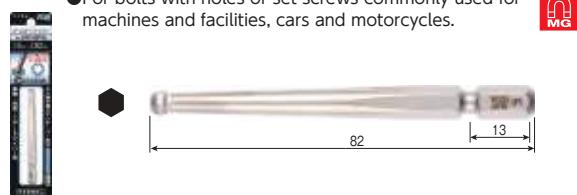


Model No.	Contents	Card size (mm)	EDP No.
<b>SMVT08H</b>	T 8HX 65 1pc.	135×35×8	486681
<b>SMVT10H</b>	T10HX 65 1pc.	135×35×8	486682
<b>SMVT15H</b>	T15HX 65 1pc.	135×35×8	486683
<b>SMVT20H</b>	T20HX 65 1pc.	135×35×8	486684
<b>SMVT25H</b>	T25HX 65 1pc.	135×35×8	486685
<b>SMVT27H</b>	T27HX 65 1pc.	135×35×8	486686
<b>SMVT30H</b>	T30HX 65 1pc.	135×35×8	486687
<b>SMVT40H</b>	T40HX 65 1pc.	135×35×8	486688
Inner Ctn.: 10 sets			

TORX is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

**No. SM16BP Ball Point Bit**

●For bolts with holes or set screws commonly used for machines and facilities, cars and motorcycles.



Model No.	Contents	Card size (mm)	EDP No.
<b>SM16BP40</b>	H 4 × 82 1pc.	160×35×8	486696
<b>SM16BP50</b>	H 5 × 82 1pc.	160×35×8	486697
<b>SM16BP60</b>	H 6 × 82 1pc.	160×35×8	486698
Inner Ctn.: 10 sets			

**No. D83 Bit 2-Piece Set**

Model No.	Contents	Card size (mm)	EDP No.
<b>D830082</b>	⊕0×φ2 ×φ4.5× 82 2pcs.	160×35×8	486287

Model No.	Contents	Card size (mm)	EDP No.
<b>D831075</b>	⊕1×φ4 × 75 2pcs.	160×35×8	486283

Inner Ctn.: 10 sets

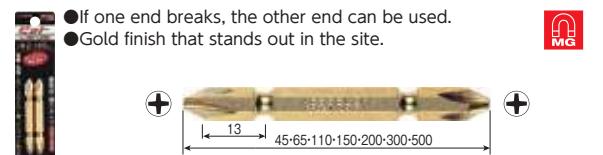
**No. M16 Bit for small precision screws 2-Piece Set**

Model No.	Contents	Card size (mm)	EDP No.
<b>M160082</b>	⊕0×φ2×φ4.5× 82 2pcs.	160×35×8	486158

Inner Ctn.: 10 sets

**No. GM14 Double End Gold Color Bit (Magnetic) 2-Piece Set**

●If one end breaks, the other end can be used.  
●Gold finish that stands out in the site.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
<b>GM141065</b>	⊕1× 65 2pcs.	H	135×35×8	486421
<b>GM141110</b>	⊕1×110 2pcs.	H	160×35×8	486422
<b>GM142045</b>	⊕2× 45 2pcs.	H	135×35×8	486423
<b>GM142065</b>	⊕2× 65 2pcs.	H	135×35×8	486424
<b>GM142110</b>	⊕2×110 2pcs.	H	160×35×8	486425
<b>GM143065</b>	⊕3× 65 2pcs.	H	135×35×8	486428
<b>GM142150</b>	⊕2×150 2pcs.	H	210×35×8	486426
<b>GM142200</b>	⊕2×200 2pcs.	H	260×35×8	486459
<b>GM143110</b>	⊕3×110 2pcs.	H	160×35×8	486429

Inner Ctn.: 10 sets

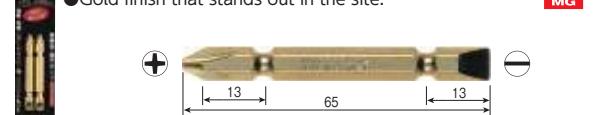
**No. GM14 Double End Gold Color Bit (Magnetic) 1-Piece**

Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
<b>GM142300</b>	⊕2×300 1pc.	H	340×35×17	486570
<b>GM142500</b>	⊕2×500 1pc.	H	540×35×17	486571

Silver finish. For the S hanger. Inner Ctn.: 10 sets

**No. GM14 Double End Gold Color Bit 2-Piece Set**

●1bit for ⊕/⊖ types.  
●Gold finish that stands out in the site.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
<b>GM141565</b>	⊕1/⊖5 × 65 2pcs.	H	135×35×8	486441
<b>GM142665</b>	⊕2/⊖6 × 65 2pcs.	H	135×35×8	486442

Inner Ctn.: 10 sets

**No. BW Gold Color Bit 5-Piece Set**

●Gold finish that stands out in the site.

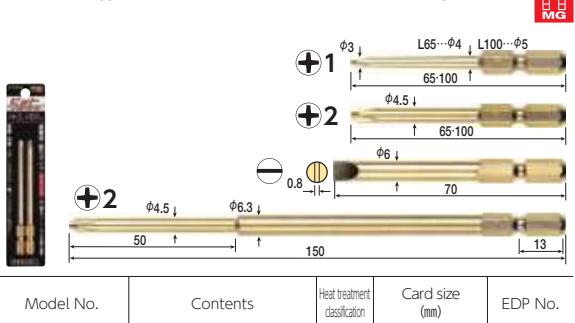


Model No.	Contents	Card size (mm)	EDP No.
<b>BW-52</b>	Double End Gold Color Bit ⊕2× 65 5pcs.	95×70×23	486622
<b>BW-53</b>	Double End Gold Color Bit ⊕2×110 5pcs.	140×70×23	486623

Provided with one bit holder. Outer Ctn.: 10 sets

**No. GM16 Step Gold Color Bit 2-Piece Set**

●Recessed type. Thin shank allows for use in narrow spaces.



Model No.	Contents	Heat treatment classification	Card size (mm)	EDP No.
<b>GM166070</b>	⊖6×φ6 × 70 2pcs.	G	160×35×8	486454
<b>GM161065</b>	⊕1×φ4 × 65 2pcs.	H	135×35×8	486455
<b>GM161100</b>	⊕1×φ5 × 100 2pcs.	H	160×35×8	486459
<b>GM162065</b>	⊕2×φ4.5× 65 2pcs.	H	135×35×8	486456
<b>GM162100</b>	⊕2×φ4.5×100 2pcs.	H	160×35×8	486457
<b>GM162150</b>	⊕2×φ4.5×φ6.3×150 2pcs.	H	210×35×8	486458

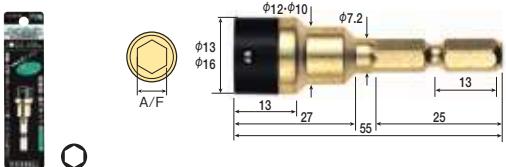
Inner Ctn.: 10 sets

**No. BW Gold Color Bit 10-Piece Set**

●Excellent rust proof performance.

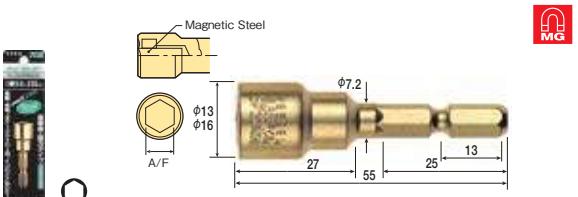


Model No.	Contents	Card size (mm)	EDP No.
<b>BW-11</b>	Double End Gold Color Bit ⊕2× 45 10pcs.	120×85×23	486311
<b>BW-12</b>	Double End Gold Color Bit ⊕2× 65 10pcs.	120×85×23	486312
<b>BW-13</b>	Double End Gold Color Bit ⊕2×110 10pcs.	150×100×23	486313
<b>BW-15</b>	Double End Gold Color Bit ⊕1×65, ⊕2×110, ⊕3×65 1 for each ⊕2×45, ⊕2×65 2 for each ⊖2×65, ⊖2×110 1pc. Double End		

**No. GSB** Gold Color Nut Setter (Locked with ball)

Model No.	Contents	Card size (mm)	EDP No.
GSB8055	A/F 5/16"×55(for 5mm) 1pc.	135×35	486511
GSB9655	A/F 3/8"×55(for 6mm) 1pc.	135×35	486512

Inner Ctn.: 5 sets

**No. GSAM** Gold Color Nut Setter (Magnetic)

Model No.	Contents	Card size (mm)	EDP No.
GSAM8055	A/F 5/16"×55(for 5mm) 1pc.	135×35	486501
GSAM9655	A/F 3/8"×55(for 6mm) 1pc.	135×35	486502

Inner Ctn.: 5 sets

**No. GMA** Gold Bits (in zip pack)

- Packed in a bag with a zipper for easy storage.
- Gold finish that stands out in the site.



Model No.	Contents	Heat treatment classification	Package size (mm)	EDP No.
GMA14 $\oplus 2 \times 45H$	GM14 $\oplus 2 \times 45$ 10pcs.	H	145×80×7	410150
GMA14 $\oplus 2 \times 65H$	GM14 $\oplus 2 \times 65$ 10pcs.	H	145×80×7	410153
GMA14 $\oplus 2 \times 110H$	GM14 $\oplus 2 \times 110$ 10pcs.	H	190×80×7	410156
GMA16 $\oplus 1 \times \phi 3 \times 65H$	GM16 $\oplus 1 \times \phi 3 \times 65$ 10pcs.	H	145×80×7	418303
GMA16 $\oplus 1 \times \phi 3 \times 100H$	GM16 $\oplus 1 \times \phi 3 \times 100$ 10pcs.	H	190×80×7	418306
GMA16 $\oplus 2 \times \phi 4.5 \times 65H$	GM16 $\oplus 2 \times \phi 4.5 \times 65$ 10pcs.	H	145×80×7	418313
GMA16 $\oplus 2 \times \phi 4.5 \times 100H$	GM16 $\oplus 2 \times \phi 4.5 \times 100$ 10pcs.	H	190×80×7	418316

Inner Ctn.: 10 sets

**No. BW-70** Socket Bit Belt

Model No.	Contents	Card size (mm)	EDP No.
BW-70	A/F 8×60 A/F 10×60 A/F 12×60 A/F 13×60 A/F 14×60 1 for each	140×80×23	486705

Provided with one bit holder. Outer Ctn.: 5 sets

**No. SB** Nut Setter (For power tools)

Model No.	Contents	Card size (mm)	EDP No.
SB A/F 5/16"×55	A/F 5/16"×55(for 5mm) 5pcs.	127×87×15	482531
SB A/F 3/8"×55	A/F 3/8"×55(for 6mm) 5pcs.	127×87×15	482532

Outer Ctn.: 10 sets

**No. D80** Cordless Screwdriver Bit

Model No.	Contents	Card size (mm)	EDP No.
D80	$\oplus 1, \oplus 2, \ominus 6.3 \times 50$ 1 for each	125×55×8	482301

Inner Ctn.: 1 set, Outer Ctn.: 50 sets

**No. BB** Bit Belt Holder

Model No.	Contents	Package size (mm)	EDP No.
BB-5	Bit Belt Holder for 5pcs.	158×78×28	486579
BB-10	Bit Belt Holder for 10pcs.	118×98×38	486580

Outer Ctn.: 10 sets

**No. VBA** Double End Power Bit (w/Bit Belt)

- Holder included for hanging from the waist belt.
- Anti-rust surface treatment.
- Popular 2 sizes available.



Model No.	Contents	Card size (mm)	EDP No.
VBA20651	Non-electrolytic plated bit $\oplus 2 \times 65H$ 10pcs.	50×100	484056
VBA21101	Non-electrolytic plated bit $\oplus 2 \times 110H$ 10pcs.	85×120	484057

with one piece of holder case Inner Ctn.: 10 sets

**No. BMG43** Bit Mag Bottle 20-pc Set Double End Bits (B-type) PAT.

- Basic bits which are long popular in assembly factories.
- Optimal for hard joint parts such as tapping and machine screws.
- Integrated magnetizer in the cap to magnetize/demagnetize bits.
- Provided with a ring to hang onto hooks.

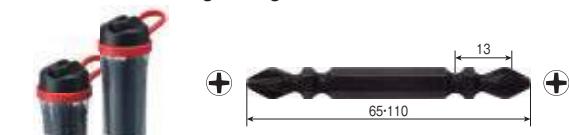


Model No.	Contents	Heat treatment classification	Bottle size (mm)	EDP No.
BMG43 $\oplus 2 \times 100H$	$\oplus 2 \times 100$ 20pcs.	H	53×100×153	415282

Inner Ctn.: 5 sets

**No. SMG14** Bit Mag Bottle 20-pc Set SAKISUBO Double End Bits PAT.

- Tip is easy to see, and the torsion effect of the constricted part produces great durability.
- Used for soft joints such as wood screw work.
- Integrated magnetizer in the cap to magnetize/demagnetize bits.
- Provided with a ring to hang onto hooks.

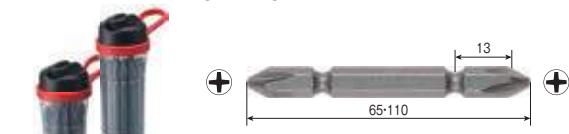


Model No.	Contents	Heat treatment classification	Bottle size (mm)	EDP No.
SMG14 $\oplus 2 \times 65H$	$\oplus 2 \times 65$ 20pcs.	H	53×100×111	415283
SMG14 $\oplus 2 \times 110H$	$\oplus 2 \times 110$ 20pcs.	H	53×100×153	415284

Inner Ctn.: 5 sets

**No. AMG14** Bit Mag Bottle 20-pc Set Double End Bits (A-type) PAT.

- Basic bits which are long popular in assembly factories.
- Optimal for hard joint parts such as tapping and machine screws.
- Integrated magnetizer in the cap to magnetize/demagnetize bits.
- Provided with a ring to hang onto hooks.



Model No.	Contents	Heat treatment classification	Bottle size (mm)	EDP No.
AMG14 $\oplus 2 \times 65H$	$\oplus 2 \times 65$ 20pcs.	H	53×100×111	415285
AMG14 $\oplus 2 \times 110H$	$\oplus 2 \times 110$ 20pcs.	H	53×100×153	415286

Inner Ctn.: 5 sets

**One point**

**Magnetize/demagnetize with freedom**

Insert the bit into the central groove and pull it out to magnetize the bit.

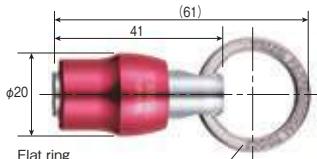
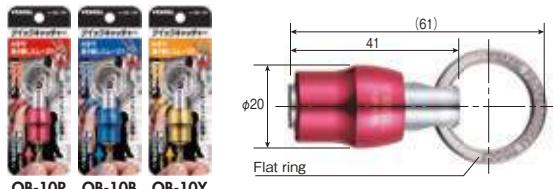
Magnetize

Demagnetize

Move the bit along the side of the groove and pull it up to demagnetize the bit.

**No. QB-10 Quick Catcher**

- Bit can be replaced with just one hand.
- Smooth surface finish and pull-up type sleeve prevent tools from dropping.
- Strong ball chuck enables to mount a tool up to 500g.
- Flat ring with large diameter is easy to mount on carabiners, etc.



Model No.	Contents	Card size (mm)	EDP No.
<b>QB-10R</b>	Quick Catcher(Red)	1pc.	135×50×22 486921
<b>QB-10B</b>	Quick Catcher(Blue)	1pc.	135×50×22 486922
<b>QB-10Y</b>	Quick Catcher(Yellow)	1pc.	135×50×22 486923

Inner Ctn.: 10 sets Outer Ctn.: 10 sets

**No. QB-K3C Quick Catcher 3-Piece Set**

- Bit can be replaced with just one hand.
- Smooth surface finish and pull-up type sleeve prevent tools from dropping.
- Strong ball chuck enables to mount a tool up to 500g.
- Provided with a carabiner to hang onto your belt, etc.



Model No.	Contents	Card size (mm)	EDP No.
<b>QB-K3C</b>	Quick catcher(Red·Blue·Yellow)、Carabiner(Black)	1pc.	135×50×50 486924

Inner Ctn.: 10 sets Outer Ctn.: 100 sets

**No. QB-KBAD Quick Catcher with Key Adapter**

- Bit can be replaced with just one hand.
- Smooth surface finish and pull-up type sleeve prevent tools from dropping.
- Strong ball chuck enables to mount a tool up to 500g.
- Provided with a carabiner to hang onto your belt, etc.

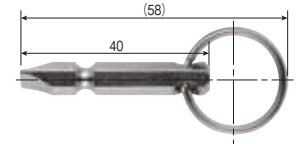


Model No.	Contents	Card size (mm)	EDP No.
<b>QB-KBAD</b>	Quick catcher(Black),Key adapter, Carabiner(Black)	1pc.	135×50×31 486925

Inner Ctn.: 10 sets Outer Ctn.: 100 sets

**No. QB-AD Key Adapter**

- Key adapter for Quick Catcher QB series.
- A flat blade for prizing, which can also be used to open paint can lids.
- Flat ring with large diameter is easy to mount on carabiners, etc.



Model No.	Contents	Card size (mm)	EDP No.
<b>QB-AD</b>	Key adapter	1pc.	135×50×9 486926

Inner Ctn.: 10 sets Outer Ctn.: 100 sets

**No. SL****GO-TAN Semi-Long socket**

Medium length socket characterized by carefully polished mirror finish.  
Smooth streamlined design fits comfortably in your hand.

Light-weight Deep Hole Sockets are good especially for installation and/or roof work of solarpanels, which are expanding.

ADVANCED

**PRESS-FIT**

TECHNOLOGY



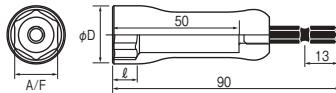
Improved strength against shank breakage, press fit type

**No. SL****"GO-TAN" Semi-long Socket**

The most versatile medium length socket  
Plane contact type hex socket  
Streamlined mirror finish body fits your hand and has an excellent rust-proof performance.

**No. SL "GO-TAN" (Hard Forged) Semi-long Socket**

- The most versatile medium length socket.
- Streamlined mirror finish (chrome plating) and excellent rust-proof sockets.
- Plane contact type hex socket.



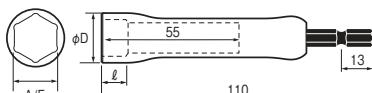
←See P100

Model No.	A/F	φD	l	Overall Length (mm)	Card size (mm)	EDP No.
SL200790	7	11	6.5	90	143×35	486741
SL200890	8	14	6.5	90	143×35	486731
SL200990	9	15	6.5	90	143×35	486742
SL201090	10	16	6.5	90	143×35	486732
SL201190	11	17	7	90	143×35	486743
SL201290	12	18	7.5	90	143×35	486733
SL201390	13	19	8	90	143×35	486734
SL201490	14	20	8	90	143×35	486735
SL201590	15	21	8	90	143×35	486744
SL201790	17	23	9	90	143×35	486736
SL201990	19	25	10	90	143×35	486737
SL202190	21	28	11	90	143×35	486738
SL202290	22	29	12	90	143×35	486739
SL202490	24	32	13	90	143×35	486740

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. TA "GO-TAN" (Hard Forged) Mirror Socket PAT.**

- With a shank press-fit into the socket with resin, suppressing the concentration of stress on the shank part when impact is applied.
- Streamlined mirror finish (chrome plating) and excellent rust-proof sockets.
- Plane contact type hex socket.

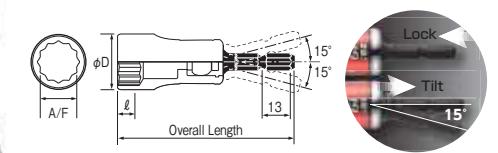


Model No.	A/F	φD	l	Overall Length (mm)	Card size (mm)	EDP No.
TA200811	8	14	6.5	110	165×35	485008
TA201011	10	16	6.5	110	165×35	485010
TA201211	12	18	7.5	110	165×35	485012
TA201311	13	19	8	110	165×35	485013
TA201411	14	20	8	110	165×35	485014
TA201711	17	23	9	110	165×35	485017
TA201911	19	25	10	110	165×35	485019
TA202111	21	28	11	110	165×35	485021
TA202211	22	29	12	110	165×35	485022
TA202411	24	32	13	110	165×35	485024

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. WSA "GO-TAN" (Hard Forged) Tilt Short Socket**

- Pull the shank for tilting use. Push the shank toward the socket to fix.
- Recommended to the work more in a cramped space than at a sharp corner of a space.
- Tilting angle 15° assures superior torque transmission. The socket does not wobble and does not damage nuts.



Model No.	A/F	φD	l	Overall Length (mm)	Card size (mm)	EDP No.
WSA2008	8	13	6.5	75	130×35	486751
WSA2010	10	16	6.5	75	130×35	486752
WSA2012	12	18	7.5	75	130×35	486753
WSA2013	13	19	8	75	130×35	486754
WSA2014	14	20	8	75	130×35	486755
WSA2017	17	23	9	75	130×35	486756
WSA2019	19	25	10	75	130×35	486757
WSA2021	21	28	11	80	140×35	486758
WSA2024	24	32	13	85	145×35	486759

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. WSA209PS****"GO-TAN" (Hard Forged) Tilt Short Socket 9-Piece Set**

- Pull the shank for tilting use. Push the shank toward the socket to fix.
- Recommended to the work more in a cramped space than at a sharp corner of a space.
- Tilting angle 15° assures superior torque transmission. The socket does not wobble and does not damage nuts.



Model No.	Set Contents	Case size (mm)	EDP No.
WSA209PS	"GO-TAN" (Hard Forged) Tilt Short Socket 1 for each A/F8, 10, 12, 13, 14, 17, 19, 21, 24	227×105×38	486760

**No. SL209PS "GO-TAN" (Hard Forged) Semi-long Socket 9-Piece Set**

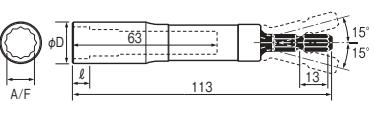
- Combination of the most versatile medium length sockets.
- Streamlined mirror finish (chrome plating) and excellent rust-proof sockets.
- Plane contact type hex socket.



Model No.	Set Contents	Case size (mm)	EDP No.
SL209PS	"GO-TAN" (Hard Forged) Semi-long Socket 1 for each A/F8, 10, 12, 13, 14, 17, 19, 21, 24	227×105×38	486745

**No. WA | Tilt Socket**

- Usually can be used as deep length socket, but at a corner can be used as a tilting socket.
- Plane contact type dodecagonal socket allows for easy fitting to bolts and nuts, improving working performance.



Model No.	A/F	φD	l	Overall Length (mm)	Card size (mm)	EDP No.
WA201011	10	16	6.5	113	165×35	486361
WA201211	12	18	7.5	113	165×35	486362
WA201311	13	19	8	113	165×35	486363
WA201411	14	20	8	113	165×35	486364
WA201711	17	23	9	113	165×35	486365
WA201911	19	25	10	113	165×35	486366
WA202111	21	28	11	113	165×35	486367
WA202211	22	29	13	113	165×35	486368
WA202411	24	32	13	113	165×35	486369

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**One point****Various applications of socket bits**

For assembly and disassembly of electric appliances, hex tapping screws, and bolt and nut tightening



For mounting casters and adjust bolts, and pipe saddles to ALC, etc.



For corrugated panels (hook bolts), folded plate roof materials, and drill screws to be used between roof frames, etc.



For mounting fixtures to C-shape steel (drill screws, etc.)



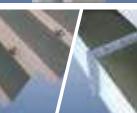
For corrugated panels (hook bolts), steel furniture assembly, lag screws, etc.



For corrugated slate panels (hook bolts), form work equipment (plastic cones), etc.



For mounting members to cavity walls (hanger bolts for cavity walls), lag screws, facility, piping work, etc.



For placing folded plate roof (roof bolts), duct mounting, facility, piping work, etc.



For scaffolding work (clamps), cable rack assembly, lag screws, etc.



For strap bolts, lag screws, etc.



For form tie nuts, strap bolts, lag screws, etc.



Useful when concrete is attached to a form tie nut

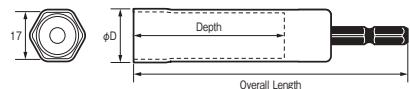


For hole-down joint metals (bolt with washer, anchor bolt), etc.



**No. KAR20 Strut Channel Socket**

- Very thin hexagonal socket, preventing its head from being obstructed by the strut channel frame.
- Special hexagonal shape in consideration of less damage on each edge of the nut.
- Deep hole in the box assuring to tighten long head screws, too.

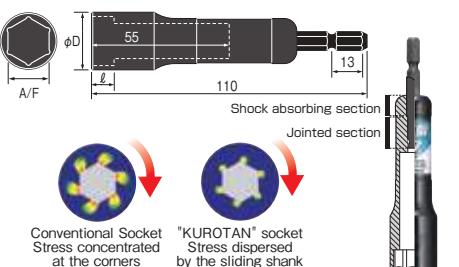


Model No.	A/F	$\phi D$	Depth	Overall Length (mm)	Card size (mm)	EDP No.
KAR201710	17	19.9	55	100	155×35×21	357489
KAR201715	17	19.9	105	150	205×35×21	357496

Inner Ctn: 5 sets

**No. HA "KUROTAN" Socket PAT.**

- Professional's preferred all black finish.
- Improved durability as unique shank structure disperses the impact.
- Plane contact type hex socket.

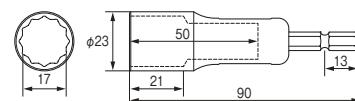


Model No.	A/F	$\phi D$	$\ell$	Overall Length (mm)	Card size (mm)	EDP No.
HA201911	19	25	10	110	160×35	486117
HA202111	21	28	11	110	160×35	486118

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. LAS Scaffolding Worker's Socket**

- Socket for scaffolding corresponding to clamps.
- Plane contact type dodecagonal socket allows for easy fitting to bolts and nuts, improving workability.

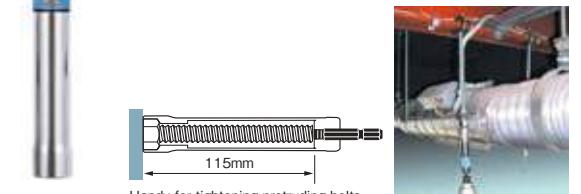
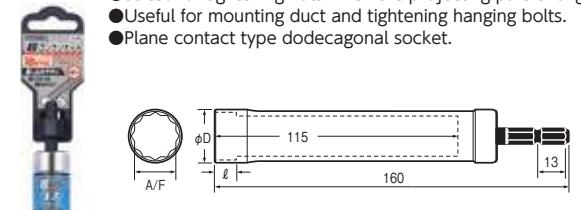


Model No.	A/F	Outer Diameter $\phi$	$\ell$	Overall Length (mm)	Card size (mm)	EDP No.
LAS20179	17	23	21	90	146×35	486150

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. XA Drop-ceiling Socket**

- Suited for tightening nuts when the projecting part is long.
- Useful for mounting duct and tightening hanging bolts.
- Plane contact type dodecagonal socket.



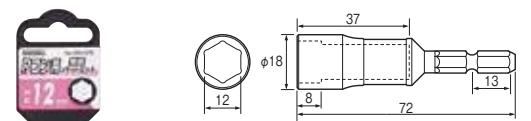
Handy for tightening protruding bolts.

Model No.	A/F	$\phi D$	$\ell$	Overall Length (mm)	Card size (mm)	EDP No.
XA201715	17	23	9	160	217×35	486132
XA201915	19	25	10	160	217×35	486133
XA202115	21	28	11	160	217×35	486134
XA202415	24	32	13	160	217×35	486131

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 50 sets

**No. A201275 Socket for Plastic Cone**

- For attaching and removing plastic cones.
- The shank can be hit with a hammer to remove concrete rubble.

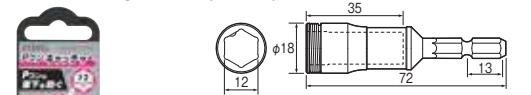


Model No.	A/F	$\phi D$	Overall Length (mm)	Card size (mm)	EDP No.
A201275	12	18	72	120×35	486241

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. A201275C Plastic Cone Catcher**

- A spring and a ball hold a plastic cone firmly, preventing plastic cone from coming out unexpectedly.

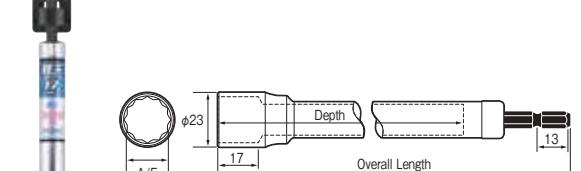


Model No.	A/F	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
A201275C	12	18	72	130×35	486265

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. KA Drop-ceiling Socket**

- Super long size socket with a deep hole.
- The diameter of the deep hole part is designed to be as small as the size of the thread, realizing light weight and making overhead position work easier.
- Plane contact type dodecagonal socket.

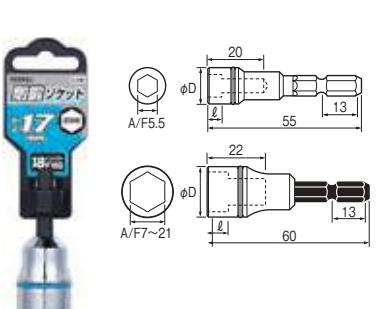


Model No.	A/F	Outer Diameter $\phi$	Depth	Overall Length	Card size (mm)	EDP No.
KA201730	17	23	255	300	355×35	484421
KA201750	17	23	455	500	555×35	484422
KA201770	17	23	655	700	755×35	484423

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets

**No. SA "GO-TAN" Socket**

- Basic sockets.
- Plane contact type hexagonal socket allowing for excellent durability.



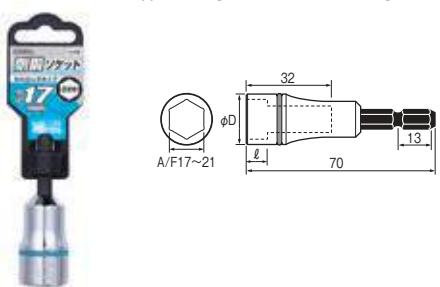
Axial Press-fitting is strong against twisting

Model No.	A/F	$\phi D$	$\ell$	Overall Length (mm)	Card size (mm)	EDP No.
SA205555	5.5	10	3.5	55	110×35	486230
SA200755	7	13	5	60	115×35	486231
SA200860	8	13.5	6.5	60	115×35	486232
SA209660	9.6	16	6.5	60	115×35	486233
SA201060	10	16	6.5	60	115×35	486234
SA201260	12	18	8	60	115×35	486235
SA201360	13	19	8	60	115×35	486236
SA201460	14	20	8	60	115×35	486237
SA201760	17	23	9	60	115×35	486238

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. SA "GO-TAN" Semi-Long Type**

- Basic sockets.
- Plane contact type hexagonal socket allowing for excellent durability.



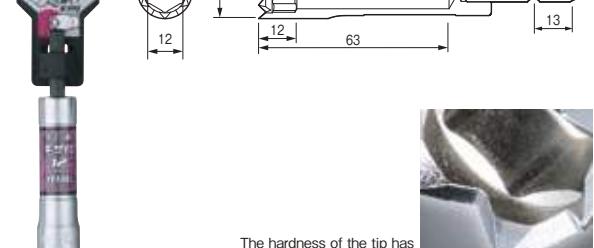
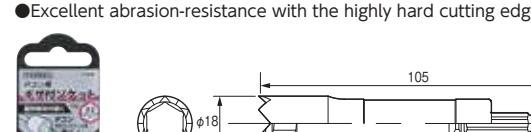
\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

Model No.	A/F	$\phi D$	$\ell$	Overall Length (mm)	Card size (mm)	EDP No.
SA201770	17	23	9	70	125×35	486243
SA201970	19	25	10	70	125×35	486239
SA202170	21	28	11	70	125×35	486240

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets Outer Ctn: 100 sets

**No. A201210B Rubble-removing Socket for Plastic Cones (Carbide Chip)**

- For attaching and removing plastic cones while removing concrete rubbles.
- Excellent abrasion-resistance with the highly hard cutting edge.

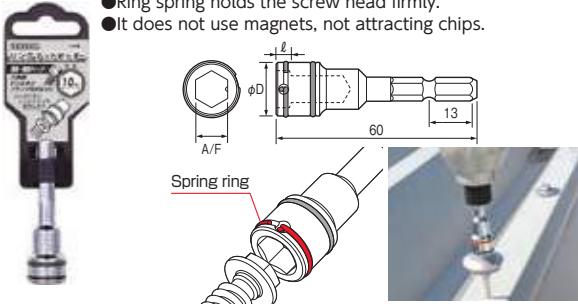


Model No.	A/F	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
A201210B	12	18	105	160×35	486264

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn: 5 sets

**No. SAR** Ring Nut Setter

- Ring spring holds the screw head firmly.
- It does not use magnets, not attracting chips.

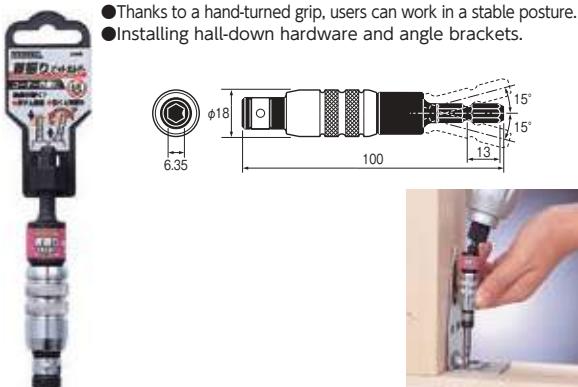


Model No.	A/F	$\phi D$	$l$	Overall Length (mm)	Card size (mm)	EDP No.
<b>SAR0860</b>	<b>8</b>	13	3	60	115×35	486245
<b>SAR9660</b>	<b>9.6</b>	16	4	60	115×35	486246
<b>SAR1060</b>	<b>10</b>	16	5	60	115×35	486247

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. WBJ** Tilt Bit Holder PAT.

- Thanks to a hand-turned grip, users can work in a stable posture.
- Installing hall-down hardware and angle brackets.

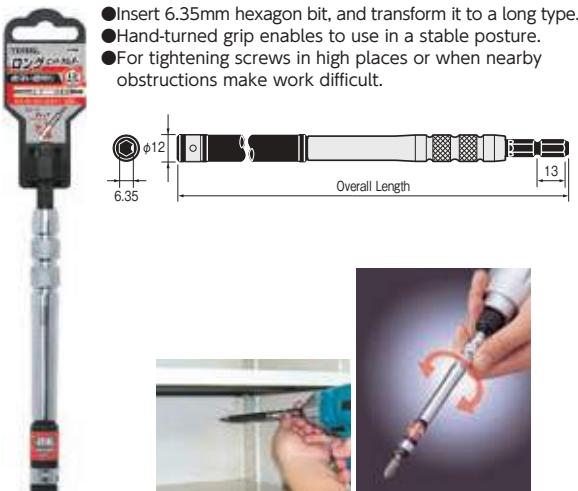


Model No.	Bit mounting angle (mm)	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
<b>WBJ100</b>	6.35	18	100	160×35	486357

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. EXJ** Long Bit Holder

- Insert 6.35mm hexagon bit, and transform it to a long type.
- Hand-turned grip enables to use in a stable posture.
- For tightening screws in high places or when nearby obstructions make work difficult.



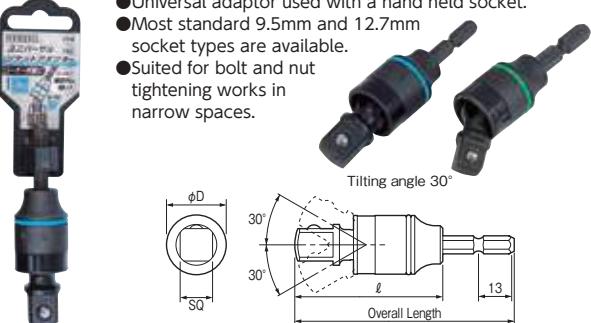
Model No.	Bit mounting angle (mm)	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
<b>EXJ150</b>	6.35	12	150	205×35	486350
<b>EXJ300</b>	6.35	12	300	355×35	486351

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. A20USQ** Universal Socket Adapter

- Universal adaptor used with a hand held socket.

- Most standard 9.5mm and 12.7mm socket types are available.
- Suited for bolt and nut tightening works in narrow spaces.



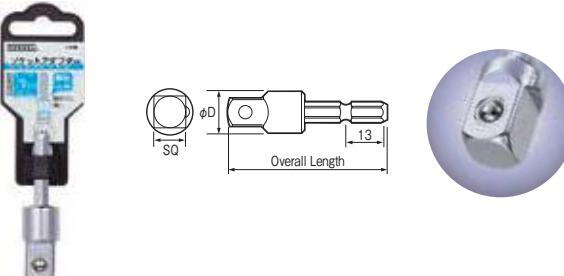
Model No.	Square drive size A/F	$\phi D$	$l$	Overall Length (mm)	Card size (mm)	EDP No.
<b>A20USQ3</b>	<b>3/8" (9.5mm)</b>	20	49	77	133×35	486268
<b>A20USQ4</b>	<b>1/2" (12.7mm)</b>	23	56	84	140×35	486269

\*The colors of the A/F column in the table indicate the seal colors. Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. A20BSQ** Socket Adapter

- Use your own sockets.

- Available in 3 sizes for different types of socket chucks.
- Superior durability by press-fitting (3/8", 1/2" only).

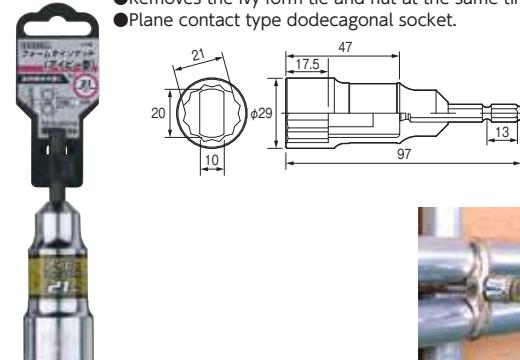


Model No.	Square drive size A/F	$\phi D$	Overall Length (mm)	Card size (mm)	EDP No.
<b>A20BSQ2</b>	<b>1/4" (6.35mm)</b>	8	45	105×35	486352
<b>A20BSQ3</b>	<b>3/8" (9.5mm)</b>	14	54	112×35	486353
<b>A20BSQ4</b>	<b>1/2" (12.7mm)</b>	16	59	117×35	486354

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. A202110F** Form Tie Socket(For Ivy Form Ties)

- Removes the ivy form tie and nut at the same time.
- Plane contact type dodecagonal socket.

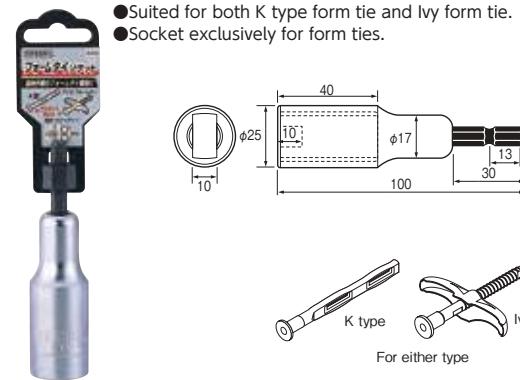


Model No.	A/F	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
<b>A202110F</b>	<b>21</b>	29	97	160×35	486267

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. GA20F101** Form Tie Socket

- Suited for both K type form tie and ivy form tie.
- Socket exclusively for form ties.



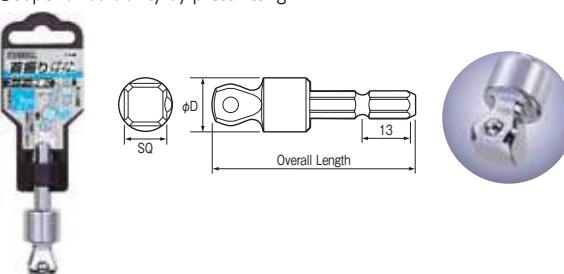
Model No.	A/F	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
<b>GA20F101</b>	<b>10</b>	25	100	160×35	486491

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. A20WSQ** Tilt Socket Adapter PAT.

- Use your own sockets.

- When pulled it swings, and when pushed it is locked.
- Superior durability by press-fitting.



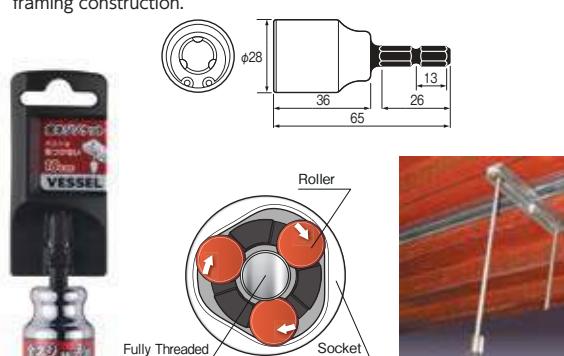
Model No.	Square drive size A/F	$\phi D$	Overall Length (mm)	Card size (mm)	EDP No.
<b>A20WSQ3</b>	<b>3/8" (9.5mm)</b>	14	56	114×35	486355
<b>A20WSQ4</b>	<b>1/2" (12.7mm)</b>	16	60	117×35	486356

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. A20ZW** Fully Threaded Socket

- 3 rollers hold screw firmly.

- Indispensable for a work with hanging bolts and light gauge steel framing construction.

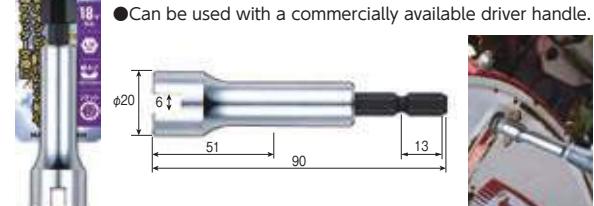


Model No.	Screw size	Outer Diameter $\phi$	Overall Length (mm)	Card size (mm)	EDP No.
<b>A20ZW30</b>	<b>w3/8</b>	28	66	124×38×28	486359
<b>A20ZW40</b>	<b>w1/2</b>	28	66	124×38×28	486360

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. A20CH13** Thumbscrew Socket

- To fasten either wing screws or hexagonal nuts (Wing screw size: M4/5/6, Hexagonal nut: A/F13mm).
- Can fasten many wing screws during a short time, mounting this product to an electric impact driver. May be recommended to installation of electric fences or PVC greenhouses.
- A/F13mm type may be recommended to replacement of bush cutters.
- Can be used with a commercially available driver handle.

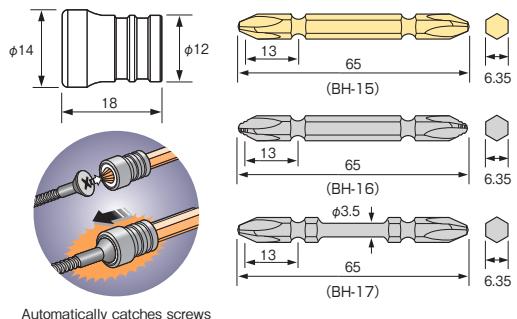


Model No.	A/F	$\phi D$	Overall Length (mm)	Card size (mm)	EDP No.
<b>A20CH13</b>	<b>13</b>	20	90	140×35	486244

Inner Ctn.: 5 sets Outer Ctn.: 100 sets

**No. BH Magnetic Screw Catcher**

- When a screw approaches the bit, the magnet sleeve moves automatically to catch the screw.
- Suited for building work such as floor panels, joist, interior finish, 2x4, etc.



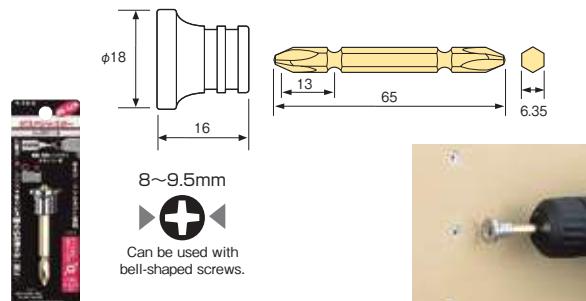
Model No.	Contents	Card size (mm)	EDP No.
<b>BH-15</b>	Magnetic Screw Catch 1pc. Double End Gold Color Bit $\oplus 2 \times 65$ 1pc.	135×45	486331
<b>BH-16</b>	Magnetic Screw Catch "GIZA" bit $\oplus 2 \times 65$ 1pc.	135×45	486332
<b>BH-17</b>	Magnetic Screw Catch Torsion bit $\oplus 2 \times 65$ 1pc.	135×45	486333

Inner Ctn.: 10 sets

**No. BH-13 Screw Adjuster**

PAT.

- Provided with screw stopper.
- Keeps the level of screw head constant in continuous work, causing no damage to the plaster board.



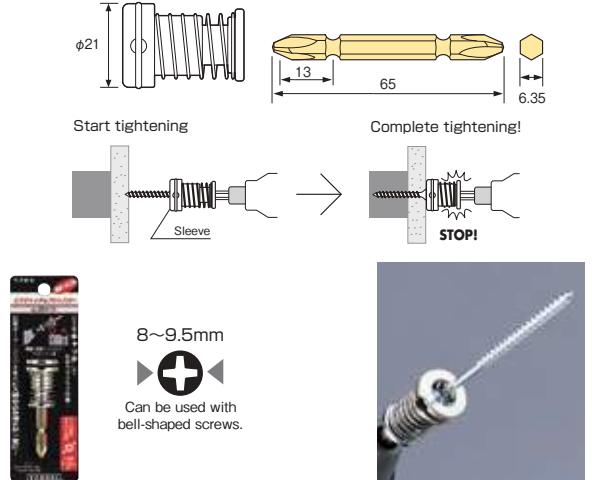
Model No.	Contents	Card size (mm)	EDP No.
<b>BH-13</b>	Screw Adjuster 1pc. Double End Gold Color Bit $\oplus 2 \times 65$ 1pc.	135×45	486329

Outer Ctn.: 10 sets

**No. BH-11 Screw Catch and Adjuster**

PAT.

- Catches long screws even without magnetic force.
- Screw stopper function keeps the level of screw head constant, causing no damage to the plaster board.



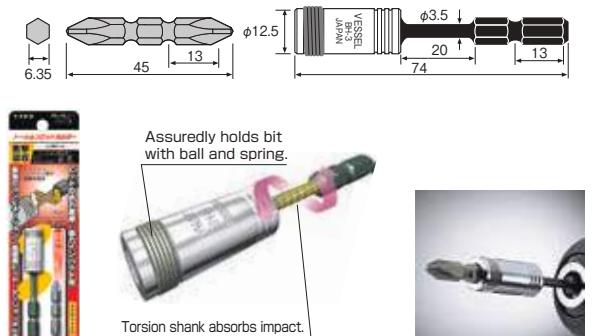
Model No.	Contents	Card size (mm)	EDP No.
<b>BH-11</b>	Screw Catch and Adjuster 1pc. Double End Gold Color Bit $\oplus 2 \times 65$ 1pc.	135×45	486324

Outer Ctn.: 10 sets

**No. BH-14 Torsion Bit Holder**

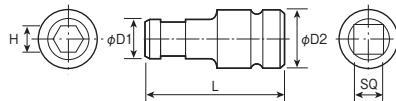
Bit

- Bit holder with a torsion part.
- Can be used by mounting a double-ended bit.
- Prevents screw stripping and bit breakage.



Model No.	Contents	Card size (mm)	EDP No.
<b>BH-14</b>	Torsion Bit Holder 1pc. High Hardness Bit $\oplus 2 \times 45$ 1pc.	160×45	486330

Inner Ctn.: 10 sets

**9.5 / 12.7 mm For Impact Adapter****No. A30 Socket Anvil**

Model No.	(SQ) × A/F (H) (mm)	Dimensions			Applicable to	EDP No.
		D1	D2	L (mm)		
<b>A30</b>	9.5×6.35	13	20	45	A14-A16	479201
	9.5×8.0	16	20	47.5	A15-A19	479202
	12.7×6.35	13	25	49	A14-A16	479401
	12.7×8.0	16	25	51	A15-A19	479402

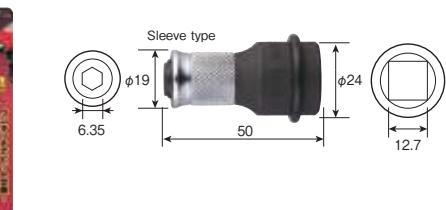
**12.7 mm For Impact Adapter****No. BH-30 Socket Anvil**

Model No.	(SQ) × A/F (H) (mm)	Dimensions			EDP No.
		D1	D2	L (mm)	
<b>BH-30</b>	12.7×6.35	135	60	486336	

Inner Ctn.: 5 sets

**No. BHC-30 Socket Anvil (sleeve type)**

- Adaptor used with air/electric impact wrench.
- 6.35mm hexagon bits can be mounted at one-touch.

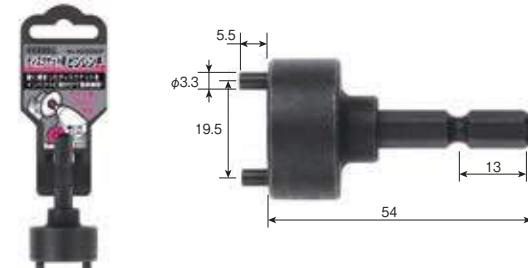


Model No.	(SQ) × A/F (H) (mm)	Dimensions			EDP No.
		D1	D2	L (mm)	
<b>BHC-30</b>	12.7×6.35	135	60	486582	

Inner Ctn.: 5 sets

**No. A202050P Pin Wrench for Disk Nut**

- Can be used with an electric impact driver to remove firmly tightened disk nuts easily.
- For the disk grinder with the wheel diameter of 100mm.



Model No.	Pitch of nut holes (mm)	Pin diameter $\phi$ (mm)	Card size (mm)	EDP No.
<b>A202050P</b>	19.5	3.3	107×35	486581

Inner Ctn.: 5 sets

**One point****For simple loosening of disk nuts...**

An opposite side 6.35mm pin wrench with hexagonal shaft for disk nuts that can be attached to an impact driver. Disk nuts which cannot be removed by the drill wrench that came with the impact driver can be easily loosened and removed with this unit.

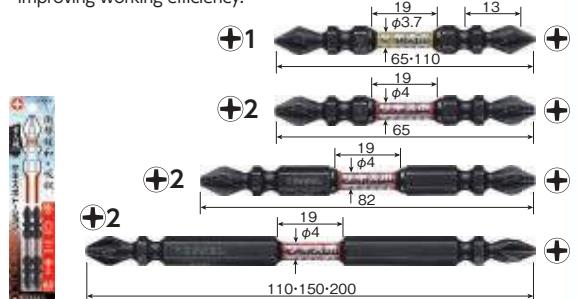


**SAKISUBO Torsion Bit****No. SST SAKISUBO Torsion Bit 2-Piece Set PAT.**

- Highly durable tapered bit combined with torsion effect.
- Cushion effect at the constricted part prevents cam-out, improving working efficiency.

**No. NMCS Recessed SAKISUBO Bit With Bit Magnetizer/Demagnetizer PAT.**

- Magnetic screw catcher with two built-in neodymium magnets holds screws securely.
- Combined with recessed bit, ideal for continuous screw tightening in confined places and on the dry walls.



Model No.	Contents	Card size (mm)	EDP No.
SST141065	⊕1xφ3.7× 65 2pcs.	160×35×8	485321
SST141110	⊕1xφ3.7×110 2pcs.	160×35×8	485335
SST142065	⊕2xφ4 × 65 2pcs.	160×35×8	485322
SST142082	⊕2xφ4 × 82 2pcs.	160×35×8	485323
SST142110	⊕2xφ4 ×110 2pcs.	160×35×8	485324
SST142150	⊕2xφ4 ×150 2pcs.	210×35×8	485325
SST142200	⊕2xφ4 ×200 2pcs.	260×35×8	485326

**No. SST5P SAKISUBO Torsion Bit 5-Piece Set PAT.**

Model No.	Contents	Card size (mm)	EDP No.
SST5P2065	⊕2xφ4 × 65 5pcs.	160×70×8	485444
SST5P2082	⊕2xφ4 × 82 5pcs.	160×70×8	485445
SST5P2110	⊕2xφ4 ×110 5pcs.	160×70×8	485446

**No. SS16 Recessed SAKISUBO Bit 2 Piece Set PAT.**

- Thin shank type ideal for working in narrow places.
- Cushion effect at the constricted part prevents cam-out that may occur at the time of passing wood grains in the wooden work.



Model No.	Contents	Card size (mm)	EDP No.
SS161065	⊕1xφ3 ×65 2pcs.	160×35×8	485336
SS161100	⊕1xφ3 ×100 2pcs.	160×35×8	485327
SS162065	⊕2xφ4.5×65 2pcs.	160×35×8	485337
SS162082	⊕2xφ4.5×82 2pcs.	160×35×8	485338
SS162100	⊕2xφ4.5×100 2pcs.	160×35×8	485328
SS162120	⊕2xφ4.5×120 2pcs.	210×35×8	485339
SS162150	⊕2xφ4.5×150 2pcs.	210×35×8	485340

**No. NMCS Recessed SAKISUBO Bit With Bit Magnetizer/Demagnetizer PAT.**

- Magnetic screw catcher with two built-in neodymium magnets holds screws securely.
- Combined with recessed bit, ideal for continuous screw tightening in confined places and on the dry walls.



Model No.	Contents	Card size (mm)	EDP No.
NMCS16210	Recessed SAKISUBO Bit +2xφ4.5×100 1pc. Bit Magnetizer/Demagnetizer 1pc.	160×35×17	349958
NMCS16215	Recessed SAKISUBO Bit +2xφ4.5×150 1pc. Bit Magnetizer/Demagnetizer 1pc.	210×35×17	349965

Inner Ctn: 10 sets

**One point**  
Strong magnet catches screws.  
**Bit Magnetizer / Demagnetizer**

Approx.  
**20**  
times stronger  
**0.318kgf**



**No. SS16H** Recessed "SAKISUBO" Hex Bit PAT.

- For hex hole bolts and screws.
- Long type useful for hard-to-reach places.



Model No.	Contents	Card size (mm)	EDP No.
<b>SS16H2010</b>	H2.0 × 100 1pc.	160×35×8	485329
<b>SS16H2510</b>	H2.5 × 100 1pc.	160×35×8	485330
<b>SS16H3010</b>	H3.0 × 100 1pc.	160×35×8	485331
<b>SS16H4010</b>	H4.0 × 100 1pc.	160×35×8	485332
<b>SS16H5010</b>	H5.0 × 100 1pc.	160×35×8	485333
<b>SS16H6010</b>	H6.0 × 100 1pc.	160×35×8	485334

Inner Ctn.: 10 sets

**No. BW** Recessed "SAKISUBO" Hex Bit 5-Piece Set PAT.

Model No.	Contents	Card size (mm)	EDP No.
<b>BW-32</b>	Recessed "SAKISUBO" Hex Bit A/F2.5, 3.0, 4.0, 5.0, 6.0 × 100 1 for each Bit Magnetizer/Demagnetizer 1pc.	160×70×23	486592

Inner Ctn.: 10 sets

**No. SS16BP** Recessed "SAKISUBO" Ball Point Bit PAT.

- For hex hole bolt and screw.
- Ball point tip with an inclination angle of 30°.



Suited for working in cramped places of high-density packaging.



Model No.	Contents	Card size (mm)	EDP No.
<b>SS16BP2010</b>	H2.0 × 100 1pc.	160×35×8	485341
<b>SS16BP2510</b>	H2.5 × 100 1pc.	160×35×8	485342
<b>SS16BP3010</b>	H3.0 × 100 1pc.	160×35×8	485343
<b>SS16BP4010</b>	H4.0 × 100 1pc.	160×35×8	485344
<b>SS16BP5010</b>	H5.0 × 100 1pc.	160×35×8	485345
<b>SS16BP6010</b>	H6.0 × 100 1pc.	160×35×8	485346

Inner Ctn.: 10 sets

**No. SS16T** Recessed "SAKISUBO" TORX Bit PAT.

- Specialized for Torx screws.
- Manufactured under license by Torx, this bit is compatible with any Torx screws.



Model No.	Contents	Card size (mm)	EDP No.
<b>SS16T1010</b>	T10 × 100 1pc.	160×35×8	485347
<b>SS16T1510</b>	T15 × 100 1pc.	160×35×8	485348
<b>SS16T2010</b>	T20 × 100 1pc.	160×35×8	485349
<b>SS16T2510</b>	T25 × 100 1pc.	160×35×8	485350
<b>SS16T3010</b>	T30 × 100 1pc.	160×35×8	485351

Inner Ctn.: 10 sets

**No. BW** Recessed "SAKISUBO" TORX Bit 5-Piece Set PAT.

Model No.	Contents	Card size (mm)	EDP No.
<b>BW-33</b>	Recessed "SAKISUBO" TORX Bit T10, 15, 20, 25, 30 × 100 1 for each Bit Magnetizer/Demagnetizer 1pc.	160×70×23	486593

Inner Ctn.: 10 sets

**No. NMC-2P** Bit Magnetizer/Demagnetizer NEW

- Magnetic screw catcher with two built-in neodymium magnets holds screws securely.
- Combined with bit, ideal for continuous screw tightening in cramped places and on the dry walls.



Model No.	Contents	Card size (mm)	EDP No.
<b>NMC-2P</b>	Bit Magnetizer/Demagnetizer 2pcs.	120×44×17	486575

Inner Ctn.: 10 sets

**No. S14** Double End "SAKISUBO" Bit 2-Piece Set

- The constricted part acts as a cushion, absorbing the shock from power impact tools, and improves durability.
- Optimal for fastening joists, staircase construction, concrete panels, sash attachment and interior fixtures.



Model No.	Contents	Card size (mm)	EDP No.
<b>S142065</b>	⊕2× 65 2pcs.	160×35×8	485447
<b>S142082</b>	⊕2× 82 2pcs.	160×35×8	485448
<b>S142110</b>	⊕2×110 2pcs.	160×35×8	485449
<b>S142150</b>	⊕2×150 2pcs.	210×35×8	485450

Inner Ctn.: 10 sets

**No. S5P** Double End "SAKISUBO" Bit 5-Piece Set

- Tapered tip prevents cam-out.
- Excellent durability.



Model No.	Contents	Package size (mm)	EDP No.
<b>S5P2065F</b>	⊕2× 65 5pcs.	135×50×7	485435
<b>S5P2110F</b>	⊕2×110 5pcs.	160×50×7	485436

Inner Ctn.: 10 sets

**No. NMCS3P** "SAKISUBO" Bit with Bit Magnetizer/Demagnetizer (packed in a plastic bag) 3-Piece Set

- A set of SAKISUBO bits with convenient NMC-2P Bit Magnetizer/Demagnetizer.
- More affordable by omitting printing mark from the bit.
- Both 3-piece and 8-piece sets come with 1 × NMC-2P Bit Magnetizer/Demagnetizer.



Model No.	Contents	Package size (mm)	EDP No.
<b>NMCS3P2065F</b>	SAKISUBO Bit ⊕2× 65 3pcs. Bit Magnetizer/Demagnetizer 1pc.	130×50×16	485359
<b>NMCS3P2082F</b>	SAKISUBO Bit ⊕2× 82 3pcs. Bit Magnetizer/Demagnetizer 1pc.	130×50×16	485360
<b>NMCS3P2110F</b>	SAKISUBO Bit ⊕2×110 3pcs. Bit Magnetizer/Demagnetizer 1pc.	160×50×16	485361

Inner Ctn.: 10 sets

**No. NMCS8P** "SAKISUBO" Bit with Bit Magnetizer/Demagnetizer (packed in a plastic bag) 8-Piece Set

Model No.	Contents	Card size (mm)	EDP No.
<b>NMCS8P2065F</b>	SAKISUBO Bit ⊕2× 65 8pcs. Bit Magnetizer/Demagnetizer 1pc.	143×87×16	485362
<b>NMCS8P2082F</b>	SAKISUBO Bit ⊕2× 82 8pcs. Bit Magnetizer/Demagnetizer 1pc.	143×87×16	485363
<b>NMCS8P2110F</b>	SAKISUBO Bit ⊕2×110 8pcs. Bit Magnetizer/Demagnetizer 1pc.	162×87×16	485364

Inner Ctn.: 10 sets

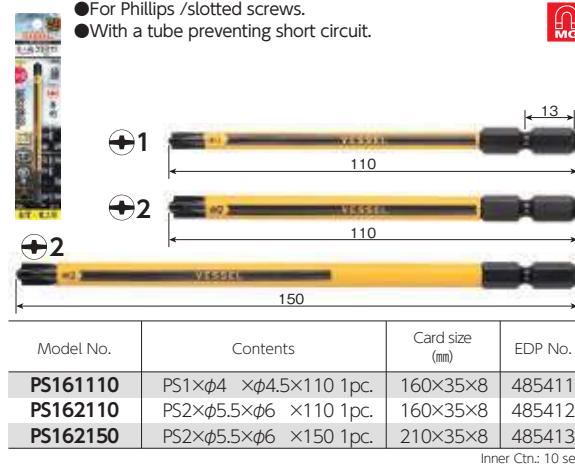
**No. SDT5P** "SAKISUBO" Slender Torsion Bit 5-Piece Set

Model No.	Contents	Card size (mm)	EDP No.
<b>SDT5P2065</b>	⊕2× 65 5pcs.	160×70×8	485398
<b>SDT5P2082</b>	⊕2× 82 5pcs.	160×70×8	485399
<b>SDT5P2110</b>	⊕2×110 5pcs.	160×70×8	485400

Inner Ctn.: 10 sets

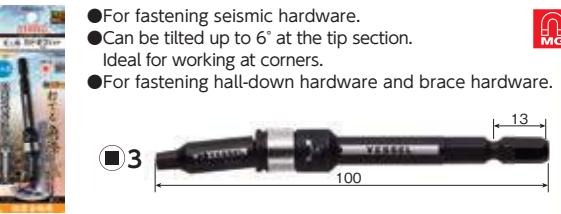
**No. PS "Plus-Minus" Bit for Terminal Screws**

- For Phillips /slotted screws.
- With a tube preventing short circuit.



Model No.	Contents	Card size (mm)	EDP No.
PS161110	PS1×φ4 ×φ4.5×110 1pc.	160×35×8	485411
PS162110	PS2×φ5.5×φ6 ×110 1pc.	160×35×8	485412
PS162150	PS2×φ5.5×φ6 ×150 1pc.	210×35×8	485413

Inner Ctn.: 10 sets

**No. KDB "KADOGIWA" Corner Bit for Brace**

Model No.	Contents	Card size (mm)	EDP No.
KDB-SQ3	SQ 3×100 1pc.	160×50×13	485421

Inner Ctn.: 10 sets

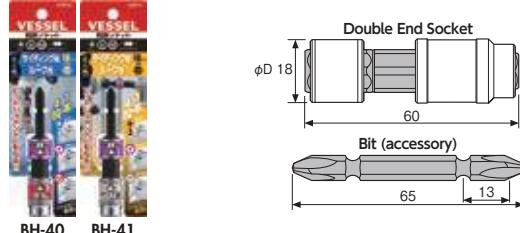
**No. KDB Replacement Corner Bit**

Model No.	Contents	Card size (mm)	EDP No.
KDB-SQ3K	SQ 3× 35 1pc.	135×35×8	485422

Inner Ctn.: 10 sets

**No. BH-40/41 Double-End Socket NEW**

- 1 socket compatible with multiple drill screws.
- Multi-function socket also usable as an adapter for bit extension.



Model No.	Bit (accessory)	Socket Size (A/F)	OAL	φD (mm)	EDP No.
BH-40	⊕2×65	8/9.6	60	18	486761
BH-41	⊕2×65	8/10	60	18	486762

\*Metalworking drill: up to dia.6mm

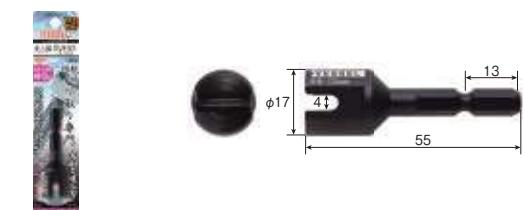
Card size: 160mm x 50mm, Inner Ctn: 5 sets, Outer Ctn: 50 sets

\*Woodworking drill: up to dia.12mm

\* Socket bit cannot be linked.

**No. A20ZB "BARITORI" Full Tread Deburring Bit**

- Burrs of thread studs (made of iron) can be removed by electrical impact tools.
- Optimal for edge surface finish of hanging bolts and anchor bolts.

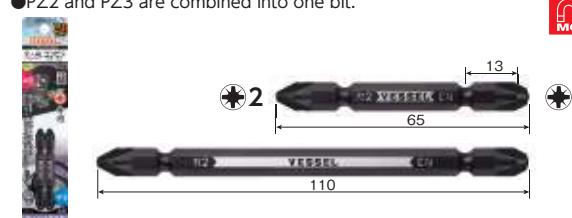


Model No.	Applicable	Card size (mm)	EDP No.
A20ZB55	Full Tread(iron)M8, 3/8, M10, M12	160×35×20	485431

Inner Ctn.: 5 sets

**No. PZ Double End Combi Bit 2-Piece Set**

- PZ2 and PZ3 are combined into one bit.

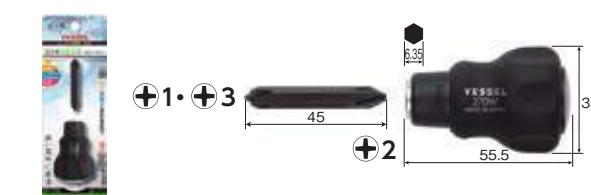


Model No.	Contents	Card size (mm)	EDP No.
PZ142365	PZ2/ PZ3×65 2pcs.	160×35×8	485401
PZ142311	PZ2/ PZ3×110 2pcs.	160×35×8	485402

Inner Ctn.: 10 sets

**No. 270BW-123 Combi Plus Stubby Screwdriver**

- Stubby type suited for working in cramped places.
- Three sizes are combined into one bit. Can be used for most of Phillips screws commonly used.

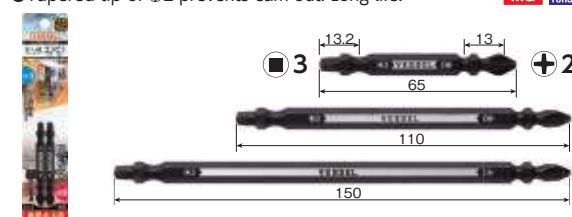


Model No.	Contents	Card size (mm)	EDP No.
270BW-123	●Bit Interchangeable Cushion Sutby Grip ●Bit ⊕1 · ⊕3 / ⊕2×45mm	160×55×37	233076

Inner Ctn.: 10 sets

**No. PQ Double End Combi Bit 2-Piece Set**

- SQ3 and ⊕2 are combined into one bit.
- Tapered tip of ⊕2 prevents cam-out. Long life.



Model No.	Contents	Card size (mm)	EDP No.
PQ142365	⊕2 / SQ3× 65 2pcs.	160×35× 8	485406
PQ142311	⊕2 / SQ3×110 2pcs.	160×35× 8	485407
PQ142315S	⊕2 / SQ3×150 1pc.	190×35×17	485408

Inner Ctn.: 10 sets

**No. 220W-62 Ball-Grip Interchangeable Screwdriver**

- Slotted tip used for quick connection terminal such as outlet and frequently-used ⊕2 are combined into one bit.



Model No.	Contents	Card size (mm)	EDP No.
220W-62	●Bit Interchangeable Ball-Grip ●Bit ⊕6 / ⊕2×110mm	160×70×43	233071

Inner Ctn.: 10 sets

**No. 220W-123 Combi Plus Screwdriver**

- Three sizes are combined into one bit. Can be used for most of Phillips screws commonly used.

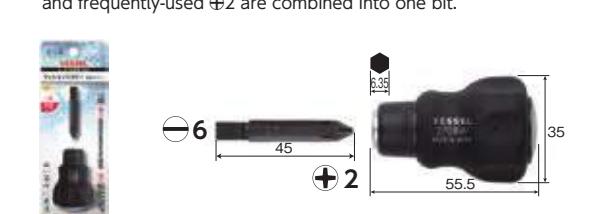


Model No.	Contents	Card size (mm)	EDP No.
220W-123	●Bit Interchangeable Ball-Grip ●Bit ⊕6 / ⊕2×110mm	160×70×43	233073

Inner Ctn.: 10 sets

**No. 270BW-62 Cushion Stubby Interchangeable Screwdriver**

- Stubby type suited for working in cramped places.
- Slotted tip used for quick connection terminal such as outlet and frequently-used ⊕2 are combined into one bit.



Model No.	Contents	Card size (mm)	EDP No.
270BW-62	●Bit Interchangeable Cushion Sutby Grip ●Bit ⊕6 / ⊕2×110mm	160×70×43	233075

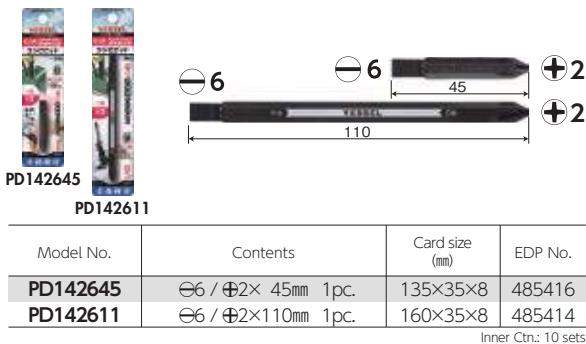
Inner Ctn.: 10 sets

**No. 220W-3 Ball-Grip Interchangeable Screwdriver Set**

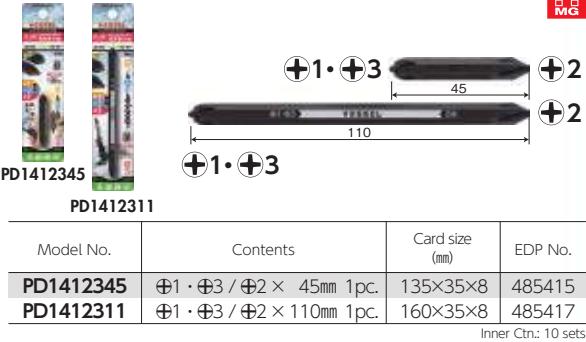
●Convenient set with  $\oplus 1$ ,  $\oplus 3$ , slotted tip used for quick connection terminal such as outlet, frequently-used  $\oplus 2$ , and Pozidrive Pz2 and Pz3 widely used for imported furniture assembly and snowboard bindings.

**No. PD Dedicated Replacement Combi Bit**

●Slotted tip used for quick connection terminal such as outlet and frequently-used  $\oplus 2$  are combined into one bit.

**No. PD Dedicated Replacement Combi Plus Bit**

●Three sizes are combined into one bit.



PD1412311 / PD142611 Application Models 220W / 220W-3 / 220W-62 / 220W-123  
PD1412345 / PD142645 Application Models 270BW / 270BW-62 / 270BW-123

**No. 220W Bit Interchangeable Ball-Grip**

●Can be used as a normal ball-grip driver by inserting a bit for electric driver (6.35 mm hex bit).  
●Black grip gives a robust impression.

**No. 270BW Bit Interchangeable Cushion Sutby Grip**

●Stubby type suited for working in confined places. Can be used with bits for electric driver (6.35 mm hex bit).  
●Black grip gives a robust impression.

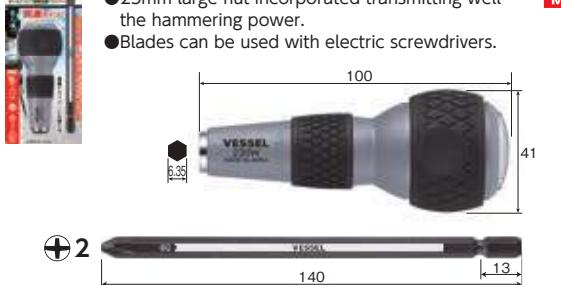


## One point Combi PLUS

One bit for 3-size tip-end!  
One side is dedicated to frequently-used  $\oplus 2$  and another for both  $\oplus 1$  and  $\oplus 3$ .

**No. 230W-2 Ball Grip (Bit-replaceable Tang-Thru Screwdriver)**

●Blade interchangeable tang-thru grip.  
●25mm large nut incorporated transmitting well the hammering power.  
●Blades can be used with electric screwdrivers.



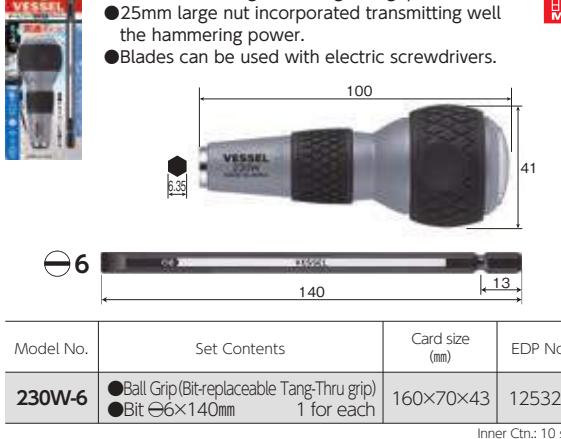
## No. 230W-3 Ball Grip (Bit-replaceable Tang-Thru Screwdriver)

●Blade interchangeable tang-thru grip.  
●25mm large nut incorporated transmitting well the hammering power.  
●Blades can be used with electric screwdrivers.



## No. 230W-6 Ball Grip (Bit-replaceable Tang-Thru Screwdriver)

●Blade interchangeable tang-thru grip.  
●25mm large nut incorporated transmitting well the hammering power.  
●Blades can be used with electric screwdrivers.

**No. 230W Ball Grip (Bit-replaceable Tang-Thru grip)**

●Blade interchangeable tang-thru grip. (A/F6.35mm)  
●25mm large nut incorporated transmitting well the hammering power.



## No. PD162140 / PD163140 / PD166140 Replacement Bit

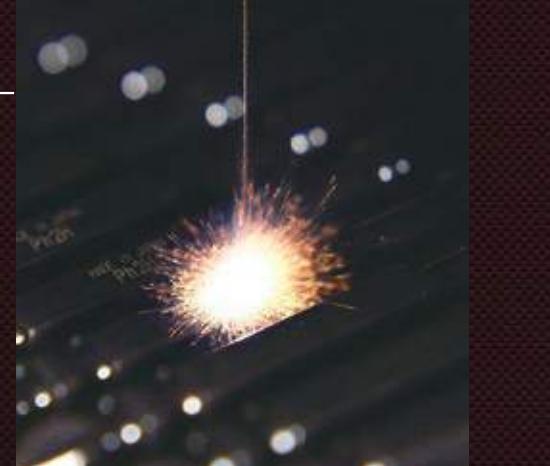
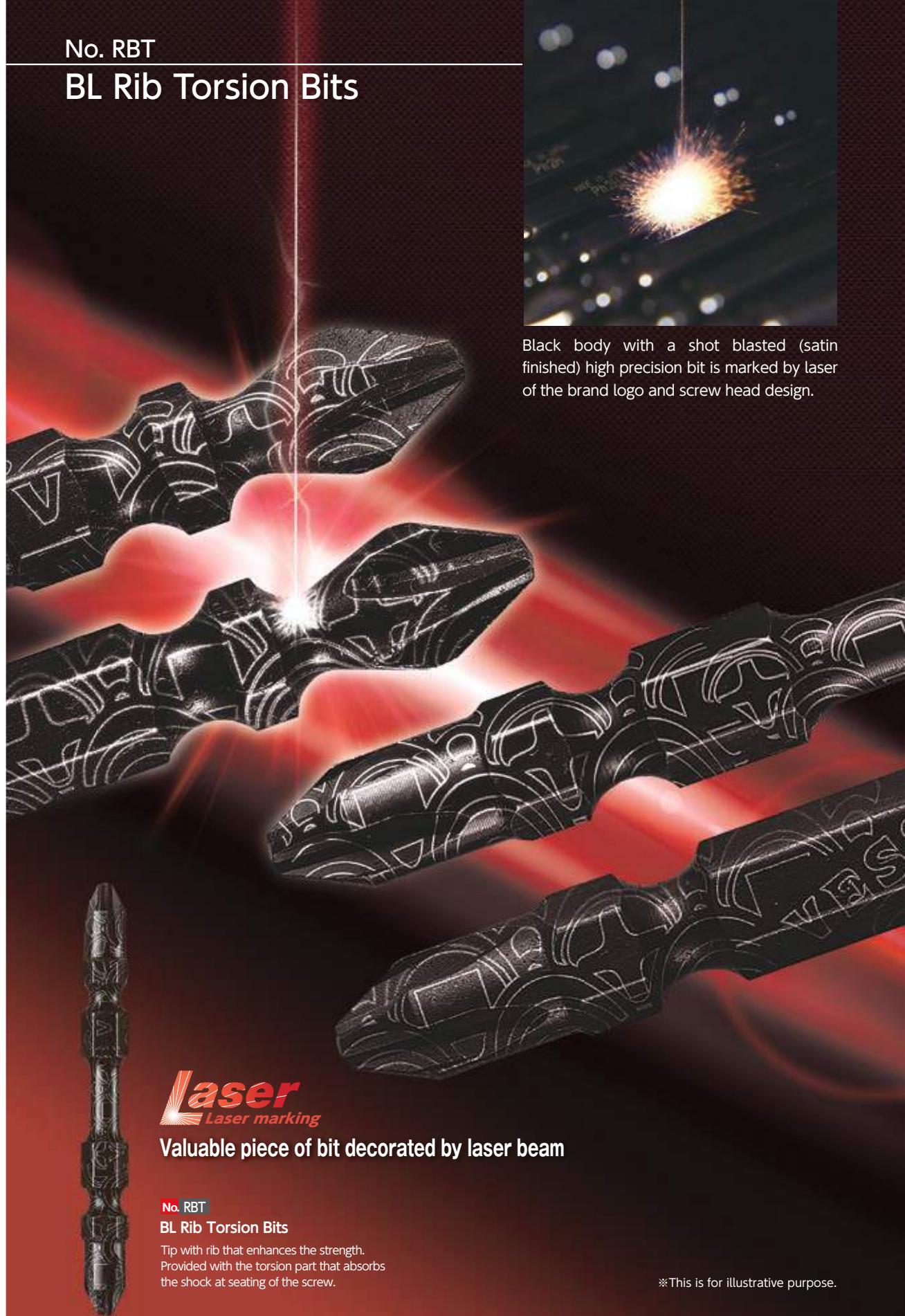
●Interchangeable blade for the 230W (ball grip tang-thru grip). A/F6.35mm.  
●Blades can be used with electric screwdrivers.



Model No.	Contents	Card size (mm)	EDP No.
PD162140	$\oplus 2 \times 140mm$ 1pc	175x35x8	485418
PD163140	$\oplus 3 \times 140mm$ 1pc	175x35x8	485419
PD166140	$\ominus 6 \times 140mm$ 1pc	175x35x8	485420

Inner Ctn.: 5 sets



**BL Rib Torsion Bits**

Black body with a shot blasted (satin finished) high precision bit is marked by laser of the brand logo and screw head design.

**VESSEL**

High precision & high durability bits Black Laser Series

**No. S3P BL SAKISUBO Bit 3-Piece Set**

- SAKISUBO bits whose constricted part acts as a cushion, absorbing the shock from power impact tools.
- Optimal for fastening joists, staircase construction, concrete panels, sash attachment and interior fixtures.



Model No.	Contents	Card size (mm)	EDP No.
S3P2065-BL	⊕2× 65 3pcs.	160×43×8	485371
S3P2082-BL	⊕2× 82 3pcs.	160×43×8	485372
S3P2110-BL	⊕2×110 3pcs.	160×43×8	485373

Inner Ctn.: 10 sets

**No. S5P BL SAKISUBO Bit 5-Piece Set**

- Bits in a clip holder with magnetizer.

Model No.	Contents	Card size (mm)	EDP No.
S5P2065-BL	⊕2× 65 5pcs.	160×75×23	485383
S5P2082-BL	⊕2× 82 5pcs.	160×75×23	485384
S5P2110-BL	⊕2×110 5pcs.	160×75×23	485385

Inner Ctn.: 5 sets

**No. SST3P BL SAKISUBO Torsion Bit 3-Piece Set PAT.**

- SAKISUBO shape, in which the constricted part acts as a cushion, absorbing the shock from power impact tools.
- Torsion effect that absorbs the shock generated at the time of seating of the screw.
- Optimal for fastening joists, staircase construction, concrete panels, sash attachment and interior fixtures.



Model No.	Contents	Card size (mm)	EDP No.
SST3P2065-BL	⊕2× 65 3pcs.	160×43×8	485377
SST3P2082-BL	⊕2× 82 3pcs.	160×43×8	485378
SST3P2110-BL	⊕2×110 3pcs.	160×43×8	485379

Inner Ctn.: 10 sets

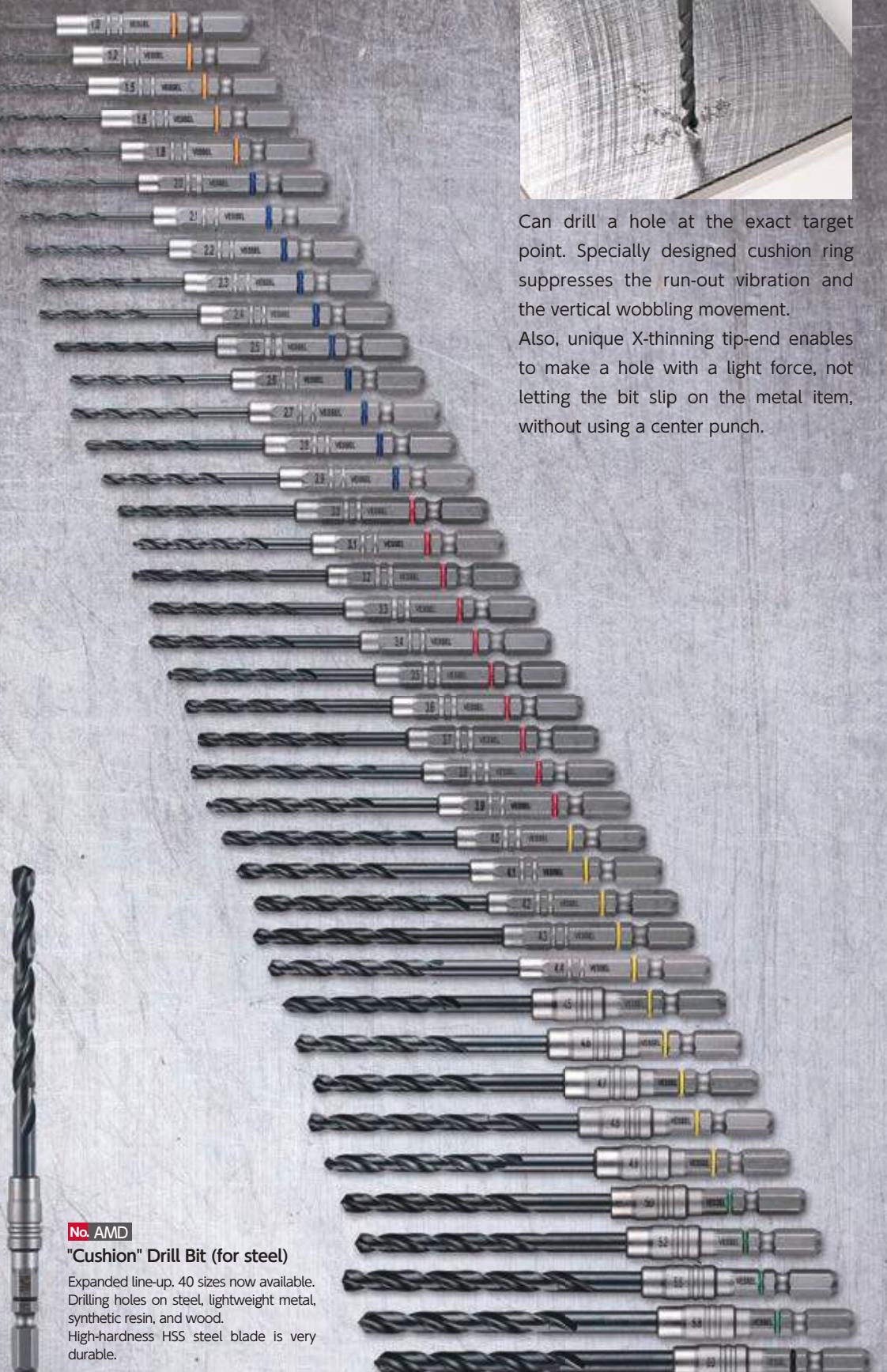
**No. SST5P BL SAKISUBO Torsion Bit 5-Piece Set PAT.**

- Bits in a clip holder with magnetizer.

Model No.	Contents	Card size (mm)	EDP No.
SST5P2065-BL	⊕2× 65 5pcs.	160×75×23	485389
SST5P2082-BL	⊕2× 82 5pcs.	160×75×23	485390
SST5P2110-BL	⊕2×110 5pcs.	160×75×23	485391

Inner Ctn.: 5 sets

**No. RBT3P BL Rib Torsion Bit 3-Piece Set****No. RB3P BL Rib Bit 3-Piece Set****No. RB5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 5-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 5-Piece Set****No. RBT5P BL Rib Torsion Bit 3-Piece Set****No. RBT5P BL Rib Bit 3-Piece Set**

**"Cushion" Drill Bit (for steel)**

No. AMD

**"Cushion" Drill Bit (for steel)**

Expanded line-up. 40 sizes now available.  
Drilling holes on steel, lightweight metal,  
synthetic resin, and wood.  
High-hardness HSS steel blade is very  
durable.

Can drill a hole at the exact target point. Specially designed cushion ring suppresses the run-out vibration and the vertical wobbling movement.

Also, unique X-thinning tip-end enables to make a hole with a light force, not letting the bit slip on the metal item, without using a center punch.

**VESSEL**

High efficiency, speeding up tools

**Drill Bits/Drill Chucks****No. AMD "Cushion" Drill Bit (for steel) PAT.**

- Expanded line-up. 40 sizes now available.
- Drilling holes on steel, lightweight metal, synthetic resin, and wood.
- High-hardness HSS steel blade is very durable.



Model No.	φD	l	A	Overall Length (mm)	X-shape (cross) thinning	EDP No.
AMD-1.0	1.0	22	12	72	—	461111
AMD-1.2	1.2	26	16	76	—	461112
AMD-1.5	1.5	24	18	74	—	461113
AMD-1.6	1.6	26	20	76	—	461114
AMD-1.8	1.8	29	22	79	—	461115
AMD-2.0	2.0	32	24	82	—	461001
AMD-2.1	2.1	32	24	82	—	461116
AMD-2.2	2.2	36	27	86	—	461117
AMD-2.3	2.3	36	27	86	—	461118
AMD-2.4	2.4	40	30	90	—	461119
AMD-2.5	2.5	40	30	90	—	461002
AMD-2.6	2.6	40	30	90	—	461120
AMD-2.7	2.7	44	33	94	—	461121
AMD-2.8	2.8	44	33	94	—	461003
AMD-2.9	2.9	44	33	94	—	461122
AMD-3.0	3.0	44	33	94	●	461004
AMD-3.1	3.1	44	36	94	●	461123
AMD-3.2	3.2	48	36	98	●	461005
AMD-3.3	3.3	48	36	98	●	461006
AMD-3.4	3.4	53	39	103	●	461017
AMD-3.5	3.5	53	39	103	●	461007
AMD-3.6	3.6	53	39	103	●	461018
AMD-3.7	3.7	53	39	103	●	461008
AMD-3.8	3.8	58	43	108	●	461009
AMD-3.9	3.9	58	43	108	●	461124
AMD-4.0	4.0	58	43	108	●	461010
AMD-4.1	4.1	58	43	108	●	461125
AMD-4.2	4.2	58	43	108	●	461011
AMD-4.3	4.3	63	47	113	●	461019
AMD-4.4	4.4	63	47	113	●	461126
AMD-4.5	4.5	63	47	114	●	461012
AMD-4.6	4.6	64	47	114	●	461127
AMD-4.7	4.7	64	47	114	●	461128
AMD-4.8	4.8	69	52	120	●	461013
AMD-4.9	4.9	70	52	120	●	461129
AMD-5.0	5.0	69	52	120	●	461014
AMD-5.2	5.2	69	52	120	●	461020
AMD-5.5	5.5	76	57	127	●	461015
AMD-5.8	5.8	77	57	127	●	461130
AMD-6.0	6.0	76	57	127	●	461016

\*Colors inside the table cells indicate the ring color.  
Mounting quantity : 1 Card size : 165x35x8mm  
Inner Ctn.: 10 sets, Outer Ctn.: 200 sets

**No. AMD3S****"Cushion" Drill Bit (for steel) 3-Piece Set PAT.**

- Drilling holes on steel, lightweight metal, synthetic resin, and wood.
- High-hardness HSS steel blade is very durable.



Model No.	Contents	Card size (mm)	EDP No.
AMD3S-1	2.0 / 2.5 / 3.0mm 1pc ea	165x45x10	461101
AMD3S-2	3.0 / 3.5 / 4.0mm 1pc ea	165x45x10	461102
AMD3S-3.5	3.5mm 3 pcs	165x45x10	461103
AMD3S-2.0	2.0mm 3pcs	165x45x10	461089
AMD3S-2.5	2.5mm 3pcs	165x45x10	461090
AMD3S-2.8	2.8mm 3pcs	165x45x10	461091
AMD3S-3.0	3.0mm 3pcs	165x45x10	461092
AMD3S-3.2	3.2mm 3pcs	165x45x10	461093
AMD3S-3.3	3.3mm 3pcs	165x45x10	461094
AMD3S-3.8	3.8mm 3pcs	165x45x10	461095
AMD3S-4.0	4.0mm 3pcs	165x45x10	461096
AMD3S-4.2	4.2mm 3pcs	165x45x10	461097
AMD3S-4.5	4.5mm 3pcs	165x45x10	461098
AMD3S-5.0	5.0mm 3pcs	165x45x10	461099
AMD3S-6.0	6.0mm 3pcs	165x45x10	461100

Inner Ctn.: 10 sets

**No. AMD6P****"Cushion" Drill Bit (for steel) 6-Piece Set**

Model No.	Contents	Card size (mm)	EDP No.
AMD6P-3.5	3.5mm 6 pcs	165x55x7	461104

Inner Ctn.: 10 sets

**No. AMD7S****"Cushion" Drill Bit (for steel) 7-Piece Set**

Model No.	Contents	Card size (mm)	EDP No.
AMD7S	φD 2.8,3.0,3.5,4.2, 4.5,5.0,6.0mm (1 each)	175x65x10	461105

Inner Ctn.: 10 sets

**No. AMD14S****"Cushion" Drill Bit (for steel) 14-Piece Set**

Model No.	Contents	Card size (mm)	EDP No.
AMD14S	φD 1.5,2.0,2.5,2.8,3.0,3.2,3.5,4.0, 4.5,5.0,5.5,6.0,6.5,7.0mm (1 each)	155x108x38	461106

Inner Ctn.: 10 sets

**No. KMD "KESSAKU" Drill Bit (for steel)**

- "Irregular spiral shape" adopted. Spiral angle is moderate toward the shank side. Chips are exhausted smoothly, resulting in a high speed drilling.
- X-shape (cross) thinning process helps the tip fit the object and drill a hole without punching.
- Tip-end angle is as acute as 118°. Can drill a hole with a light force.
- Sharp edge lasts as high hardness HSS steel is adopted.



Model No.	φD (mm)	A (mm)	Overall Length (mm)	Card size (mm)	Inner Ctn. Outer Ctn.	EDP No.
KMD-6.5	6.5	63	107	165×35×11	10 200	461141
KMD-7.0	7.0	65	109	165×35×11	10 200	461142
KMD-7.5	7.5	66	110	165×35×11	10 200	461143
KMD-8.0	8.0	67	111	165×35×11	10 200	461144
KMD-8.5	8.5	70	114	165×35×11	10 200	461145
KMD-9.0	9.0	73	117	165×35×11	10 200	461146
KMD-9.5	9.5	74	118	165×35×15	5 100	461147
KMD-10.0	10.0	76	120	165×35×15	5 100	461148
KMD-10.5	10.5	78	122	165×35×15	5 100	461149
KMD-11.0	11.0	81	125	165×35×15	5 100	461150
KMD-11.5	11.5	82	126	165×35×15	5 100	461151
KMD-12.0	12.0	83	127	165×35×15	5 100	461152
KMD-12.5	12.5	83	128	165×35×15	5 100	461153
KMD-13.0	13.0	85	130	165×35×15	5 100	461154

Mounting quantity : 1

**One point**

Drill a large bore hole with "KESSAKU" drill bit.

**Irregular spiral shape**

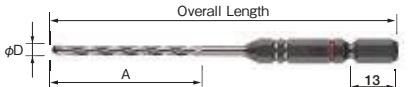
While making a hole, high speed revolution of power tool may cause the machined chips to block the drilled hole and, in consequence, the product cannot be drilled through. In order to let out the chips sequentially, the tip-end of the drill adopts an irregular spiral shape in its design. The spiral angle turns to be more moderate in the drive side. This design enables to make the drilling work quicker by exhausting the machined chips efficiently.

**X-shape thinning**

Improved bite. No punch (a marking to determine the center of the machined object so that the drill tip-end does not move) is required.

**No. ACD "Cushion" Drill Bit (for concrete) PAT.**

- Drilling holes on mortar, block, brick, ALC, plaster boards, etc. and also drilling pilot holes for screw anchor insertion and plugless screws.

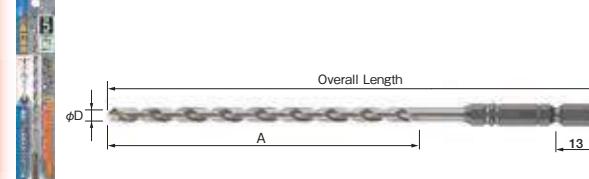
**Carbide Chip + Asymmetry shape**

This asymmetry shaped tip reduces the cutting resistance, making it possible to drill at a relatively low torque.

Model No.	φD	A	Overall Length (mm)	Card size (mm)	EDP No.
ACD-3.0	3.0	45	102	165×35×8	462001
ACD-3.2	3.2	45	102	165×35×8	462002
ACD-3.4	3.4	45	102	165×35×8	462003
ACD-3.5	3.5	45	102	165×35×8	462004
ACD-3.8	3.8	50	107	165×35×8	462005
ACD-4.0	4.0	50	107	165×35×8	462006
ACD-4.3	4.3	50	107	165×35×8	462007
ACD-4.5	4.5	50	107	165×35×8	462008
ACD-4.8	4.8	50	107	165×35×8	462009
ACD-5.0	5.0	50	107	165×35×8	462010
ACD-5.3	5.3	65	122	165×35×8	462015
ACD-5.5	5.5	65	122	165×35×8	462011
ACD-6.0	6.0	65	122	165×35×8	462012
ACD-6.4	6.4	65	122	165×35×8	462013
ACD-6.5	6.5	65	122	165×35×8	462014

\*Colors inside the table cells indicate the ring color.

Mounting quantity : 1 Inner Ctn: 10 sets, Outer Ctn: 200 sets

**No. ACD "Cushion" Drill Bit (for concrete) Long Type PAT.**

Model No.	φD	A	Overall Length (mm)	Card size (mm)	EDP No.
ACD-3.4L	3.4	95	152	200×35×8	462029
ACD-3.5L	3.5	95	152	200×35×8	462030
ACD-4.3L	4.3	100	157	200×35×8	462031
ACD-4.8L	4.8	100	157	200×35×8	462032
ACD-5.0L	5.0	100	157	200×35×8	462033
ACD-6.4L	6.4	115	172	200×35×8	462034

\*Colors inside the table cells indicate the ring color.

Mounting quantity : 1 Inner Ctn: 10 sets, Outer Ctn: 200 sets

**No. ACD3S "Cushion" Drill Bit (for concrete) 3-Piece Set PAT.**

Model No.	Contents	Card size (mm)	EDP No.
ACD3S-3.4	3.4mm 3 pcs	165×50×8	462101
ACD3S-3.5	3.5mm 3 pcs	165×50×8	462102
ACD3S-4.3	4.3mm 3 pcs	165×50×8	462103

\*Colors inside the table cells indicate the ring color.

Inner Ctn: 10 sets

**No. APD "Cushion" Drill Bit for Porcelain Tiles NEW**

- Slipless quick drilling.
- Special carbide chip for porcelain tiles is attached at the bit tip with heat-resistant solder.
- Cushion ring prevents backlash, enabling to drill at the right point.



Model No.	φD	A	Overall Length (mm)	Card size (mm)	EDP No.
APD-3.0	3.0	45	102	165×35×8	464001
APD-3.2	3.2	45	102	165×35×8	464002
APD-3.4	3.4	45	102	165×35×8	464003
APD-3.5	3.5	45	102	165×35×8	464004
APD-3.8	3.8	50	107	165×35×8	464005
APD-4.0	4.0	50	107	165×35×8	464006
APD-4.3	4.3	50	107	165×35×8	464007
APD-4.5	4.5	50	107	165×35×8	464008
APD-4.8	4.8	50	107	165×35×8	464009
APD-5.0	5.0	50	107	165×35×8	464010
APD-5.3	5.3	65	122	165×35×8	464011
APD-5.5	5.5	65	122	165×35×8	464012
APD-6.0	6.0	65	122	165×35×8	464013
APD-6.4	6.4	65	122	165×35×8	464014
APD-6.5	6.5	65	122	165×35×8	464015

\*Colors inside the table cells indicate the ring color.

Mounting quantity : 1

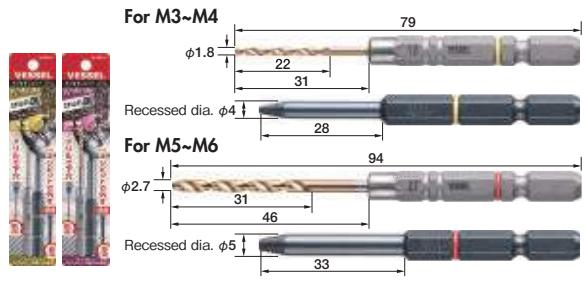
Inner Ctn: 10 sets, Outer Ctn: 200 sets

82

mm

**No. NEJ** Damaged Screw Remover Bit "Slim Type" NEW

- Slim tip-end suitable for use in a cramped space.
- Titanium coated cobalt high-speed steel drill can be used with a stainless steel screw.
- Make a pilot hole on the damaged screw head with the drill bit and remove it with the thread tip-end bit.



Model No.	Set contents	EDP No.
NEJ-4	Drill bit (1.8mm), Thread tapered bit (φ4)	485429
NEJ-5	Drill bit (2.7mm), Thread tapered bit (φ5)	485430

\*Colors inside the table cells indicate the ring color. Card size:160×35×8mm Inner Ctn.: 10 sets Outer Ctn.: 100 sets

**No. NEJ-45** Damaged Screw Remover Bit "Slim Type" Set

Model No.	Set contents	EDP No.
NEJ-45	Drill bit (1.8mm), Thread tapered bit (φ4) Drill bit (2.7mm), Thread tapered bit (φ5)	485423

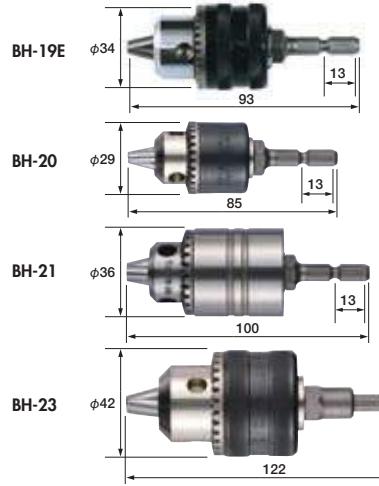
Card size:160×50×12mm Inner Ctn.: 10 sets Outer Ctn.: 50 sets

**One point**

Solution for removal of stripped screws.

**No. BH** Drill Chuck Key Type

- For Air tools, Electric tools.
- Excellent holding performance. High precision.
- High durability shaft unit.
- Key type: Attach and detach tools with the included key.
- Hybrid type: Works with or without a key.



Model No.	Contents	Tip grip range (mm)	Card size (mm)	EDP No.
BH-19E	Drill Chuck · Key	Dia:1.0~10	140×80×37	485311
BH-20	Drill Chuck · Key	Dia:0.8~6.5	140×80×31	486337
BH-21	Drill Chuck · Key (Hybrid)	Dia:1.5~10	140×80×38	486338
BH-23	Drill Chuck · Key	Dia:1.5~13	140×80×44	486340

For the BH-25 applicable models, see the D83 type on page 58  
Inner Ctn.: 5 sets

**No. BH** Spare Shaft for Drill Chucks

Model No.	Contents	Screw size	Card size (mm)	EDP No.
BH-24	Spare shank · Reversing screw	3/8-24UNF	135×35×17	486341
BH-29	Spare shank · Reversing screw	1/2-20UNF	135×35×17	486349

Inner Ctn.: 5 sets

**No. BH-28** Drill Chuck SDS Puls type

- For rotary hammer and hammer drills.



Model No.	Contents	Tip grip range (mm)	Card size (mm)	EDP No.
BH-28	Drill Chuck (Keyless)	Dia:1.5~13	185×100×45	486348

Inner Ctn.: 5 sets

**No. BH-22H** Drill Chuck SDS Puls type

- For rotary hammer and hammer drills.



Model No.	Contents	Tip grip range (mm)	Card size (mm)	EDP No.
BH-22H	Drill Chuck · Key (Keyed)	Dia:2.5~13	185×100×45	485312

Inner Ctn.: 5 sets

**No. BH-22HC** Dust-proof cap

- For BH-22H.



Model No.	Contents	Box size (mm)	EDP No.
BH-22HC	Dust-proof cap / 5pcs.	58×56×174	485313

Inner Ctn.: 5 sets

# ELECTRIC TOOLS



## Contents

Electric Screwdrivers .....	142 - 148
DC Type Controller／Power Adapter .....	148
Screw Counter／Screw Feeder／ Torque Meter .....	149 - 150
Pistol Grip／Color Sleeves／Extension Cord Corner Angle Attachment .....	151
Tool Arms .....	152 - 157

# Electric Screwdrivers Technical

# ELECTRIC TOOLS

# TECHNICAL



16-step, 5scale: VE-1500, 2000  
16-step, 8scale: VE-3000, 4000(P), 4500(P), 5000(P), 6000P  
24-step, 5scale: VE-1500(EPA), 2000(EPA)

## Accurate and secure torque adjustment

As the torque adjustment pitch is fine, precise adjustments are possible. A tamper-proof sleeve is enclosed as a standard accessory which can avoid the inappropriate torque setting.



Tamper-proof sleeve is enclosed as an accessory.



Anti-static model suitable for use in the ESD protected area (EPA).

Conductive resin is used for the body, switch lever, and sleeve, so screws can be tightened safely even in areas where static electricity is a concern. Resistance Value  $10^5 \sim 10^{10} \Omega$

※VE-1500EPA, VE-2000EPA



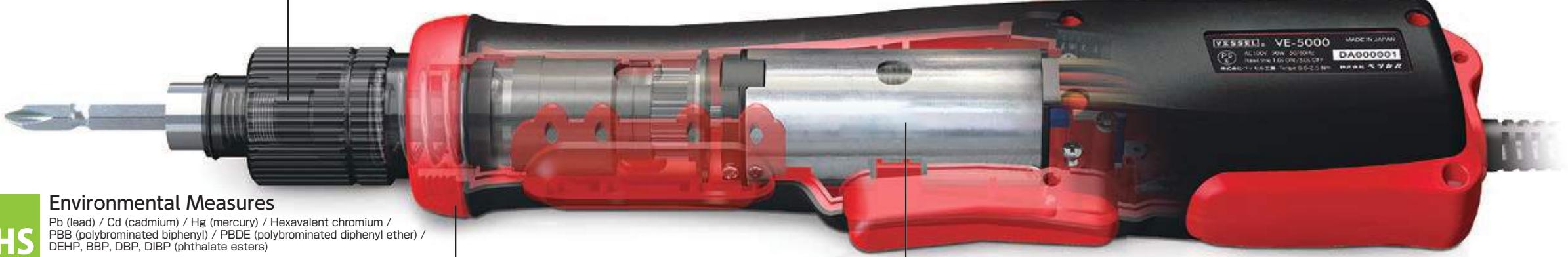
## Easy installation and wiring applicable to various working sites

The newly designed controller (DC type) has a rounded back surface for easy installation onto the cell block's pipe. The AC type is plugged into a 100VAC outlet, and does not require a controller.



External controller capable of Hi or LOW selection

Easy cord connection (DC type)



## RoHS

### Environmental Measures

Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium / PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) / DEHP, BBP, DBP, DIBP (phthalate esters)

The products with this mark in this catalogue are compliant with the RoHS directives (EU) (usage limit of the above 10 substances).

Note: For the updated information on RoHS compliant products, visit our homepage, because some products or sizes are under investigation or are not compliant at the time of publication of this catalogue.

## Easy-to-use, anti-fatigue ergonomic design

The ergonomically designed handle has a shape that fingers naturally fit at the lever position when the handle is gripped, a soft gel pad that absorbs vibration, and a non-slip surface finish, etc.



Lever

Lever

Push

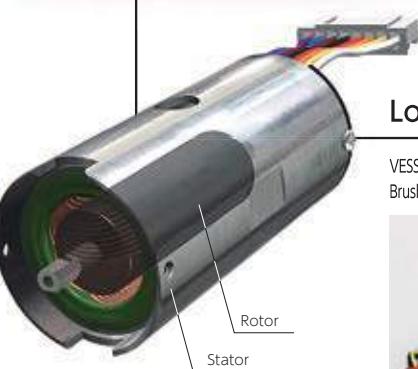
Vibration-absorbing gel pad

Lever method for vertical driving.

A thumb holder assures more stable operation.  
(VE-1500, 1500EPA, 2000, 2000EPA)

Push method for horizontal driving.

GEL pad on the grip assures a firm hold and absorbs vibration for comfortable operation.



Brushed motors require replacement of brushes at regular intervals because the brushes wear out. Brushless motors are free from maintenance because the motor rotation is controlled by an inverter to suppress the abrasion. Also brushless motors feature low annoying sounds and low electrical noises.



Rigid gear clutch

High-strength cord is fixed firmly onto the main body to prevent breakage by on/off and pulling (except VE-1500 and 2000).

Magnetic switch (non-contact) is used to reduce wear and damage.

# Electric Screwdrivers

**No. VE-4000****Electric Screwdrivers**

High performance, slot-less and brush-less motor is used in the heart of an electric screwdriver. Improves not only the tightening accuracy but also the efficiency and the ease of maintenance, to enhance the performance of production sites.



The ergonomic design that reduces the burden on the worker during consecutive assembly and/or fastening work.

Easy installation and wiring. Accurate torque adjustment. Maintenance-free concept for long and constant use.

The VE series is an electric screwdriver for professional use that powerfully supports the production lines.

**No. VE-1500**

Lever type | DC Type | 16-step×5scales

**No. VE-2000**

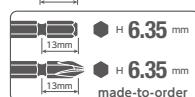
Lever type | DC Type | 16-step×5scales

**No. VE-3000**

Lever type | DC Type | 16-step×8scales

**No. VE-4000**

Lever type | DC Type | High-speed revolution | 16-step×8scales



Push type | DC Type | High-speed revolution | 16-step×8scales

**No. VE-4000P****No. VE-4500**

Lever type | DC Type | 16-step×8scales



Push type | DC Type | 16-step×8scales

**No. VE-4500P**

● Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.

● Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.

● Prevents mis-operation of adjustment by a tamper-proof sleeve. ● Power cable (2m) integrated type without a connector on the main body.

● VE-1500/2000 have connectors, and only the main body can be removed. Power cable length is 2m.

Model No.	Output torque range (N·m)	Applicable screws	Tapping (mm)	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	Controller	EDP No.	
VE-1500 VE-1500, VE-1500EPA	0.01~0.15	M1.0~1.7	1.0~1.5	H 1000/LO 700	12VDC 15W	200	190	D73⊕0×1.4×40··1/⊕0×1.7×40··1	VCT-20	550001	
VE-2000 VE-2000, VE-2000EPA	0.06~0.34	M1.0~2.3	1.0~2.0mm	H 1000/LO 700	12VDC 15W	200	190	D73⊕0×1.4×40··1/⊕0×1.7×40··1	VCT-20	550002	
VE-3000 VE-3000	0.15~1.0	M2.0~3.0	1.0~2.0mm	DC Type					VCT-30	550003	
VE-4000 VE-4000, 4000P VE-4000AC, 4000PAC	0.3~1.5	M2.5~4.0	1.6~2.6mm	DC Type AC Type					VCT-45	550004	
VE-4500 VE-4500, 4500P (-HS4) VE-4500AC, 4500PAC	0.4~1.8	M3.0~4.0	2.3~3.0mm	DC Type AC Type					—	550103	
VE-5000 VE-5000, 5000P (-DL5) VE-5000SOP, 5000PSOP	0.6~2.5	M3.0~4.0	2.6~3.5mm	AC Type (SOP: Signal output) (R: 1200min⁻¹)	H 2000/No setting	32VDC 55W	250	700	B36⊕1×70··1/⊕2×70··1	VCT-45	550104
VE-6000 VE-6000, 6000P (-DL5) VE-6000SOP, 6000PSOP	1.6~4.5	M4.0~5.0	≤4mm	AC Type (SOP: Signal output) (R: 1200min⁻¹) (SOP: Signal output)	H 1000/LO 700	32VDC 55W	250	710	B36⊕1×70··1/⊕2×70··1	VCT-45	550005
									—	550105	
									VCT-45	550006	
									—	550106	
									VCT-45	550007	
									—	550107	

\*Common accessories for products with controllers: 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), 1 AC cable (1.8 m), 1 3P2P conversion adapter, user manual Material: PC+elastomer

\*Common accessories for products without controllers: 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), user manual Material: PC + elastomer

Screwdriver Model Selection Table

Model	Output torque range					Model		
	0	1.0	2.0	3.0	4.0 N·m		Applicable screws	Small screws
VE-1500 VE-1500, VE-1500EPA	0.01~0.15					M1.0~1.7	1.0~1.5mm	DC Type Conductive DC
VE-2000 VE-2000, VE-2000EPA	0.06~0.34					M1.0~2.3	1.0~2.0mm	DC Type Conductive DC
VE-3000 VE-3000	0.15~1.0					M2.0~3.0	1.0~2.0mm	DC Type
VE-4000 VE-4000, 4000P VE-4000AC, 4000PAC	0.3~1.5					M2.5~4.0	1.6~2.6mm	DC Type AC Type
VE-4500 VE-4500, 4500P (-HS4) VE-4500AC, 4500PAC	0.4~1.8					M3.0~4.0	2.3~3.0mm	DC Type AC Type
VE-5000 VE-5000, 5000P (-DL5) VE-5000SOP, 5000PSOP	0.6~2.5					M3.0~4.0	2.6~3.5mm	AC Type (SOP: Signal output) (R: 1200min⁻¹)
VE-6000 VE-6000, 6000P (-DL5) VE-6000SOP, 6000PSOP	1.6~4.5					M4.0~5.0	≤4mm	AC Type (SOP: Signal output) (R: 1200min⁻¹) (SOP: Signal output)

**No. VE-4000AC**

Lever type | AC Type | PSE | 16-step×8scales

**No. VE-4500AC**

Lever type | AC Type | PSE | 16-step×8scales

**No. VE-5000**

Lever type | AC Type | PSE | 16-step×8scales

**No. VE-6000**

Lever type | AC Type | PSE | 16-step×8scales

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.

The AC type is a 100VAC input that requires no controller.

**No. VE-6000P**

Push type | AC Type | PSE | 16-step×8scales

**No. VE-4500PAC**

Push type | AC Type | PSE | 16-step×8scales

**No. VE-5000P**

Push type | AC Type | PSE | 16-step×8scales

**No. VE-6000P**

Push type | AC Type | PSE | 16-step×8scales

\*Common accessories: 1 suspension ring (Except VE-4000, VE-4000P, VE-4500, VE-4500P), 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), 1 3P2P conversion adapter, user manual Material: PC + elastomer

**No. VE-4500-HS4 NEW**

Lever type | DC Type | 16-step×8scales

**No. VE-4500P-HS4 NEW**

Push type | DC Type | 16-step×8scales

**No. VE-5000-DL5 NEW**

Lever type | AC Type | 16-step×8scales

**No. VE-5000P-DL5 NEW**

Push type | AC Type | 16-step×8scales

**No. VE-6000-DL5 NEW**

Lever type | AC Type | 16-step×8scales

**No. VE-6000P-DL5 NEW**

Push type | AC Type | 16-step×8scales

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.

- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.

- Prevents mis-operation of adjustment by a tamper-proof sleeve.

- Power cable(2.5m) integrated type without a connector on the main body.

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-4500-HS4	0.4~1.8	M3.0~4.0	2.3~3.0	Hi 2000 Lo 700	32VDC 55W	250	710	B73 ④1×40··1
VE-4500P-HS4	0.6~2.5	M3.0~4.0	2.6~3.5	1000	100VAC 50/60Hz 90W	290	1100	B36 ④2×70··2
VE-5000-DL5	0.6~2.5	M3.0~4.0	2.6~3.5	1000	100VAC 50/60Hz 90W	290	1100	B36 ④2×70··2
VE-5000P-DL5	1.6~4.5	M4.0~5.0	≤4	1000	100VAC 50/60Hz 120W	290	1100	B36 ④2×70··2
VE-6000-DL5	1.6~4.5	M4.0~5.0	≤4	1000	100VAC 50/60Hz 120W	290	1100	B36 ④2×70··2
VE-6000P-DL5	1.6~4.5	M4.0~5.0	≤4	1000	100VAC 50/60Hz 120W	290	1100	B36 ④2×70··2

\*Common accessories: main body (with power cord)×1, tamper-proof sleeve×2, set screws (M3×3), hexagonal wrench (H1.5), 3P2P conversion adapter, usermanual, Material: PC + elastomer  
VE-4500(P)HS4: Power cable(2m), Controller VCT-45×1, Enclosed AC cable (1.8 m)×1 VE-5000(P)DL5, VE-600(P)DL5: suspension ring×1

**No. VE-5000R NEW**

Lever type | AC Type | PSE | 16-step×8scales

**No. VE-5000PR NEW**

Push type | AC Type | PSE | 16-step×8scales

**No. VE-6000R NEW**

Lever type | AC Type | PSE | 16-step×8scales

**No. VE-6000PR NEW**

Push type | AC Type | PSE | 16-step×8scales

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.

- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.

- Prevents mis-operation of adjustment by a tamper-proof sleeve.

The AC type is a 100VAC input that requires no controller.

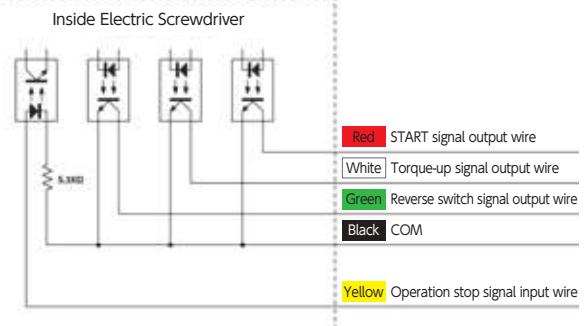
Model No.	Output torque range (N·m)	Applicable screws Small screw	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000R	0.6~2.5	M3.0~4.0	2.6~3.5	1200	100VAC 50/60Hz 120W	290	1100	M-A14 ④2×65H··2
VE-5000PR	1.6~4.5	M4.0~5.0	≤4	1200	100VAC 50/60Hz 135W	290	1100	M-A14 ④2×65H··2
VE-6000R	1.6~4.5	M4.0~5.0	≤4	1200	100VAC 50/60Hz 135W	290	1100	M-A14 ④2×65H··2
VE-6000PR	1.6~4.5	M4.0~5.0	≤4	1200	100VAC 50/60Hz 135W	290	1100	M-A14 ④2×65H··2

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3), hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

**One point**

**Equipped with 3 output signal wires and 1 input signal wire, enabling to be controlled by PLC.**

**START**   **Torque-up**   **Reverse Switch**   **STOP**

**Input/Output Circuit Diagram****Detail of Cables****Output signal cables**

Color of lead wire	Function
Red	START signal output
White	Torque-up signal output
Green	Reverse switch signal output
Black	COM

**Input signal cables**

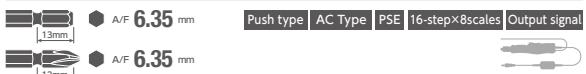
Color of lead wire	Function
Yellow	Operation stop signal input

**No. VE-5000SOP****No. VE-6000SOP**

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.
- Equipped with 3 output signal wires and 1 input signal wire, enabling to be controlled by PLC.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000SOP	0.6~2.5	M3.0~4.0 2.6~3.5	1000	100VAC 50/60Hz 90W	290	1100	M-A14 $\oplus$ 2×65H··2	550016
VE-5000PSOP								550018
VE-6000SOP	1.6~4.5	M4.0~5.0 $\leq$ 4	1000	100VAC 50/60Hz 120W	290	1100	M-A14 $\oplus$ 2×65H··2	550017
VE-6000PSOP								550019

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

**No. VE-5000RSOP NEW****No. VE-6000RSOP NEW****No. VE-5000PRSOP NEW****No. VE-6000PRSOP NEW**

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.

- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.

- Prevents mis-operation of adjustment by a tamper-proof sleeve.

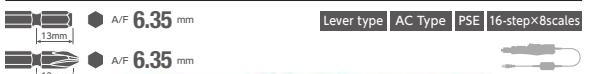
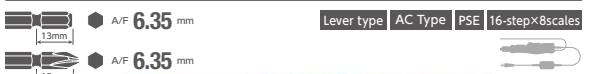
- Power cable(2.5m) integrated type without a connector on the main body.

- No-load rotation speed : 1200min⁻¹(High speed type)

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000RSOP	0.6~2.5	M3.0~4.0 2.6~3.5	1200	100VAC 50/60Hz 120W	290	1100	M-A14 $\oplus$ 2×65H··2	550032
VE-5000PRSOP								550033
VE-6000RSOP	1.6~4.5	M4.0~5.0 $\leq$ 4	1200	100VAC 50/60Hz 135W	290	1100	M-A14 $\oplus$ 2×65H··2	550034
VE-6000PRSOP								550035

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

**No. VE-5000S NEW****No. VE-5000PS NEW****No. VE-5000SSOP NEW****No. VE-5000PSSOP NEW**

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.

- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.

- Prevents mis-operation of adjustment by a tamper-proof sleeve.

- Power cable(2.5m) integrated type without a connector on the main body.

- No-load rotation speed : 2000min⁻¹(High speed type)

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000S	0.6~2.5	M3.0~4.0 2.6~3.5	2000	100VAC 50/60Hz 150W	290	1100	M-A14 $\oplus$ 2×65H··2	550036
VE-5000PS								550037
VE-5000SSOP								550038
VE-5000PSSOP								550039

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

**No. VE-1500EPA****One point****Conductive resin body**

- Anti-static resin is used for the body, switch lever and sleeve. Prevents static electricity from damaging the assembled items. Resistance:  $10^5$  to  $10^{10}\Omega$  or smaller

**No. VE-2000EPA****No. VE-1500EPA  
No. VE-2000EPA**

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by tamper-proof sleeve.
- Power cable (2m) integrated type without a connector on the main body.

Model No.	Output torque range (N·m)	Applicable screws	No-load rotation speed (min⁻¹)	Rating	External dimensions(mm)	Weight(g)	Enclosed bits	Controller	EDP No.
VE-1500EPA	0.01~0.15	M1.0~1.7	1.0~1.5	Hi: 1000 / LO: 700	12VDC 15W	200	190	D73 $\oplus$ 0x1.4x40···1 $\oplus$ 0x1.7x40···1	VCT-20 550201
VE-1500EPAU								—	550108
VE-2000EPA	0.06~0.34	M1.0~2.3	1.0~2.0	Hi: 1000 / LO: 700	12VDC 15W	200	190	D73 $\oplus$ 0x1.4x40···1 $\oplus$ 0x1.7x40···1	VCT-20 550202
VE-2000EPAU								—	550109

\*Common accessories for products with controllers: 1 suspension ring, 1 tamper-proof sleeve, 2 set screws (M3x3), 1 hexagonal wrench (H1.5), 1 AC cable (1.8 m), 1 3P2P conversion adapter, 1 3P/6P conversion cord, user manual. Material: Conductive PC + conductive elastomer

\*Common accessories for products without controllers: 1 suspension ring, 1 tamper-proof sleeve, 2 set screws (M3x3), 1 hexagonal wrench (H1.5), 1 3P/6P conversion cord, user manual. Material: Conductive PC + conductive elastomer

**No. VCT-20/ 30/ 45 DC Type Controller**

- Rear surface is cut in round shape, so that it is easily mounted on the pipe of the cell bench.
- Hi (high speed) and LO (low speed) can be switched by flicking the switch.

Model No.	Rating	Secondary power	Dimensions(mm)	Weight(g)	Compatible models	Package contents	EDP No.
VCT-20	100~240VAC 50/60Hz 31~42VA	Hi: 12VDC / LO: 9VDC 1.0A	72x170x40	230	VE-1500, 1500EPA, 2000, 2000EPA	AC cable (1.8m)···1, 3P2P conversion adapter···1	550301
VCT-30	100~240VAC 50/60Hz 63~79VA	Hi: 32VDC / LO: 24VDC 1.0A	72x170x40	300	VE-3000	AC cable (1.8m)···1, 3P2P conversion adapter···1	550302
VCT-45	100~240VAC 50/60Hz 62~78VA	Hi: 32VDC / LO: 24VDC 0.9A	82x200x55	510	VE-4000, 4000P, 4500, 4500P	AC cable (1.8m)···1, 3P2P conversion adapter···1	550303

**No. AD24-SC2 Power Adapter NEW**

I/P : 100~240VAC, O/P : 24VDC



Model No.	Dimensions(mm)	Weight(g)	Compatible models	EDP No.
AD24-SC2	70x50x30	110	VSC-02	551073

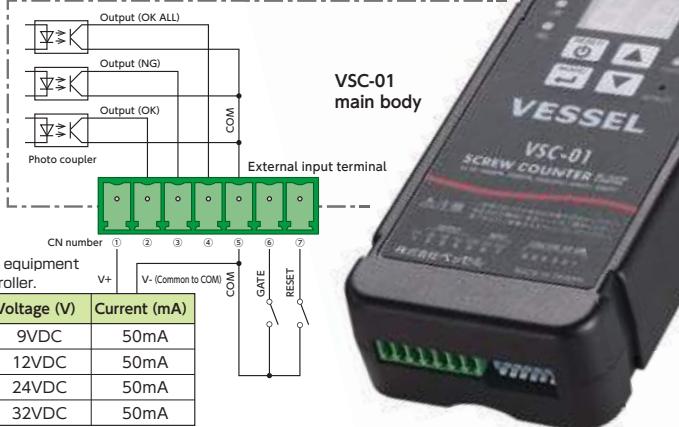
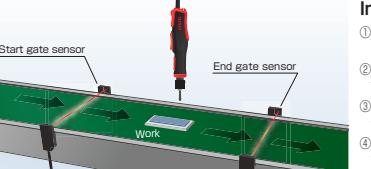
**No. VSC-01 Screw Counter**

- Connected between the electric screwdriver VE series and the power source, to notify tightening completion, insufficient tightening and wrong screws by alarm sound and light.
- Convenient slow start function and final tightening function available.
- Compact and lightweight, can be mounted anywhere.

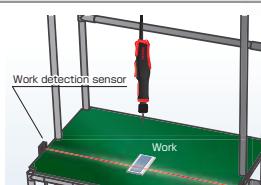
Model No.	Compatible Controller	Output	Dimensions(mm)	Weight(g)	Compatible models	EDP No.
VSC-01	VCT-20	Hi: 12VDC, LO: 9VDC	150x65x32	180	VE-1500EPA, VE-2000EPA	551002
	VCT-30	Hi: 32VDC, LO: 24VDC			VE-3000	
	VCT-45	Hi: 32VDC, LO: 24VDC			VE-4000, VE-4000P, VE-4500, VE-4500P	

**One point****Input and output signals from the external input/output terminal.**

- Combined with PLC or sensors, it can control processes.

**Interlocked with sensor****Interlocked with gate sensor**

- Passes the start gate sensor. Screw tightening work can be started.
- Start the screw tightening work.
- Tighten the specified number of screws.
- Screw tightening work is completed. Screw tightening work completion signal is sent out.
- Passes the end gate sensor. You can move onto the next work.

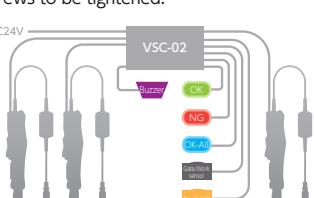
**Interlocked with work detection sensor**

- Work detection sensor detects the existence of work. Screw tightening work can be started.
- Start the screw tightening work.
- Tighten the specified number of screws.
- Screw tightening work is completed. Screw tightening work completion signal is sent out, and you can move onto the next work.

**No. VSC-02 Screw Counter NEW**

- Max. 16 sequences x 64 channels
- Max. 32 channels registration (tightening time per screwdriver in use)
- Count function from 0 to 99 screws to be tightened.

- 24-contact terminal (VE screwdriver x 3 pcs + Power + External connection)
- 24V DC input 300mA



\*To be used with the SOP screwdrivers (lever or push type)



Model	VSC-02
Input	24VDC 300mA (Option: AC adapter AD24-SC2)
Display	LCD 16 characters x 2 lines (5x8 dot)
Signal input/ output terminal	Input 2 terminals (TLP785) Output 3 terminals (TLP627) Line output (Output impedance 1kΩ)
Number of VE series that can be connected	3 pcs
Number of sequences that can be preset	16 sequences x 64 channels each
Number of channels that can be preset	32 channels
Number of counts that can be preset	1 to 99 pcs
Count method	Count-up, Count-down (can be switched)
Auto-reset time	0.00 to 9.99 sec.
Screw tightening time (upper limit time)	0.01 to 9.99 sec.
Screw tightening time (lower limit time)	0.00 to 9.99 sec.
Dimensions	64 x 122 x 37 mm (excluding protrusions)
Weight	340g
Operating temperature/humidity	Options: AD24-SC2 (AC adapter, Input 100-240VAC, Output 24VDC)
Accessories	Instruction manual
Applicable models	VE-5000SOP, 5000PSOP, 6000SOP, 6000PSOP
EDP No.	551003

\* Options: AD24-SC2 (AC adapter, Input 100-240V AC, Output 24V DC)



# Hand Free Arm



Tool arm series, usable like your hand and arm. Absorbs impact during screw tightening and alleviates waist fatigue. More accurate screw tightening as the tool arm guides your hand and arm vertically or horizontally. Working environment improvement in the production line or at a working bench.

## VESSEL

Uniform movement and improved tightening performance accuracy

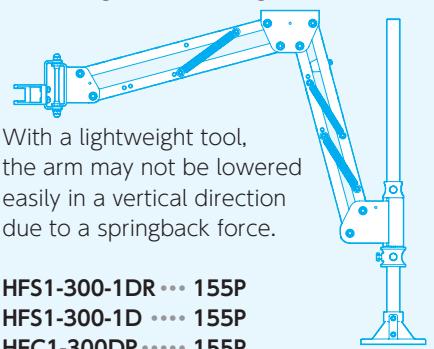
## Tool Arms

### Arm Types

#### 1) Double-link arm

(with two arms connected by a linked structure)

- Advantages :**
- Highly flexible with a wide range of arm movement.
  - Stable tightening accuracy with horizontal movement of the electric screwdriver.
  - Balancing effect for weight load reduction.



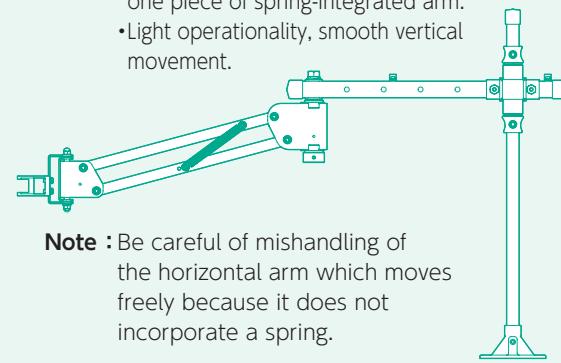
**Note :** With a lightweight tool, the arm may not be lowered easily in a vertical direction due to a springback force.

**Model :** HFS1-300-1DR .... 155P  
HFS1-300-1D .... 155P  
HFC1-300DR .... 155P  
HFKCC-3-1DR .... 156P

#### 3) Single-link arm

(combination of horizontal arm and spring-integrated arm)

- Advantages :**
- Suitable for use in a narrow space or on a small worktable than the double-link arm type.
  - Simple movement as this type consists of only one piece of spring-integrated arm.
  - Light operability, smooth vertical movement.



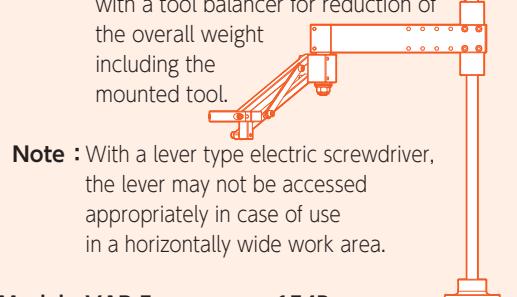
**Note :** Be careful of mishandling of the horizontal arm which moves freely because it does not incorporate a spring.

**Model :** HFAC-3-1DR ..... 156P

#### 2) Linear arm with tool balancer

(with bearing bushing for vertical sliding movement)

- Advantages :**
- Allows vertical movement of the mounted tool within any movable range.
  - Improved tightening accuracy with stable movement.
  - Less weight load applied to workers with a tool balancer for reduction of the overall weight including the mounted tool.



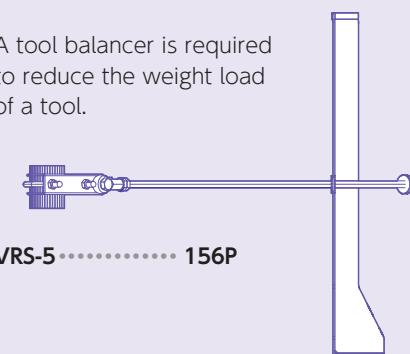
**Note :** With a lever type electric screwdriver, the lever may not be accessed appropriately in case of use in a horizontally wide work area.

**Model :** VAB-5 ..... 154P

#### 4) Simplified stand arm

- Advantages :**
- Effective to reduce the rotational load of the electric screwdriver.
  - Low cost due to simple structure design.
  - Can be moved freely in all directions.

**Note :** A tool balancer is required to reduce the weight load of a tool.



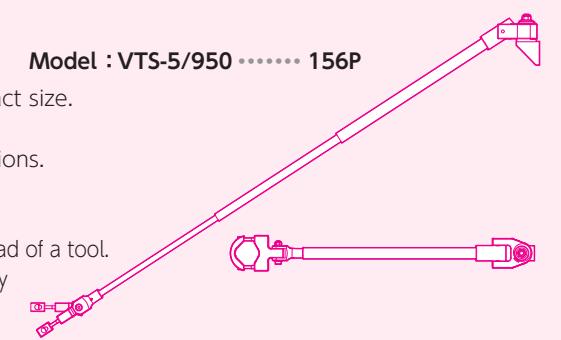
**Model :** VRS-5 ..... 156P

#### 5) Telescopic arm

(with carbon pipes that extend and contract)

- Advantages :**
- Usable on a narrow workbench due to compact size.
  - Made of a strong lightweight carbon fiber.
  - Can be moved freely without load in all directions.
  - Installable in ceilings and walls.

**Model :** VTS-5/950 ..... 156P

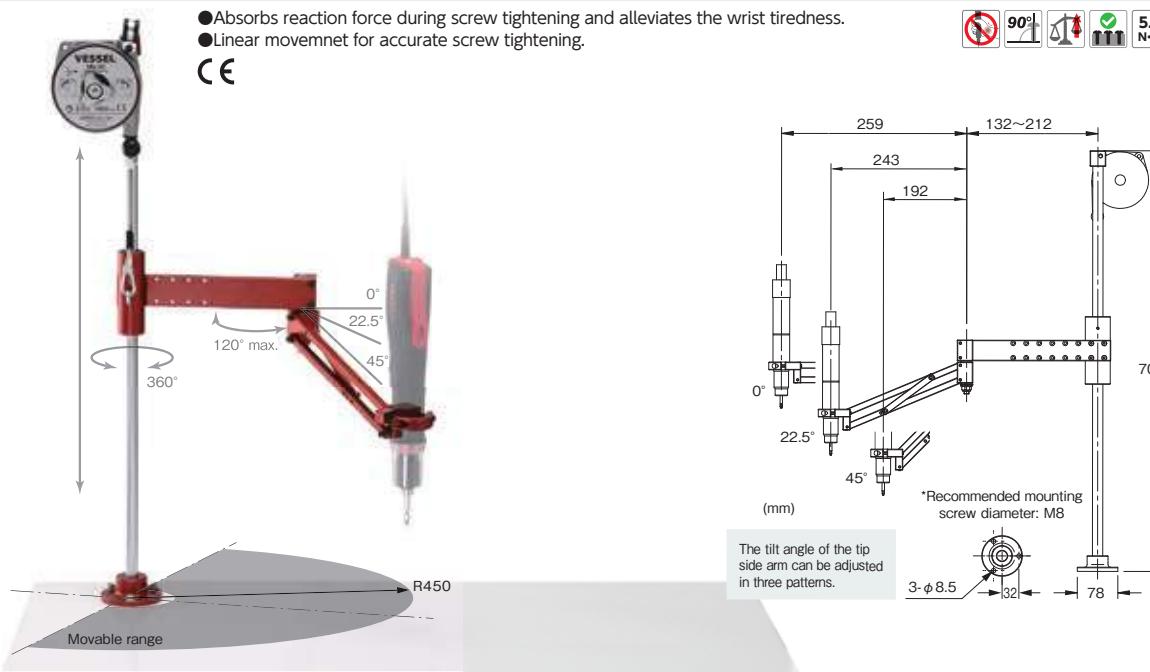


**Note :**

- A tool balancer is required to reduce the weight load of a tool.
- With a lever type electric screwdriver, the lever may not be accessed appropriately in case of use in a horizontally wide work area.

**No. VAB-5 Vertical Arm NEW**

- Absorbs reaction force during screw tightening and alleviates the wrist tiredness.
- Linear movemnet for accurate screw tightening.



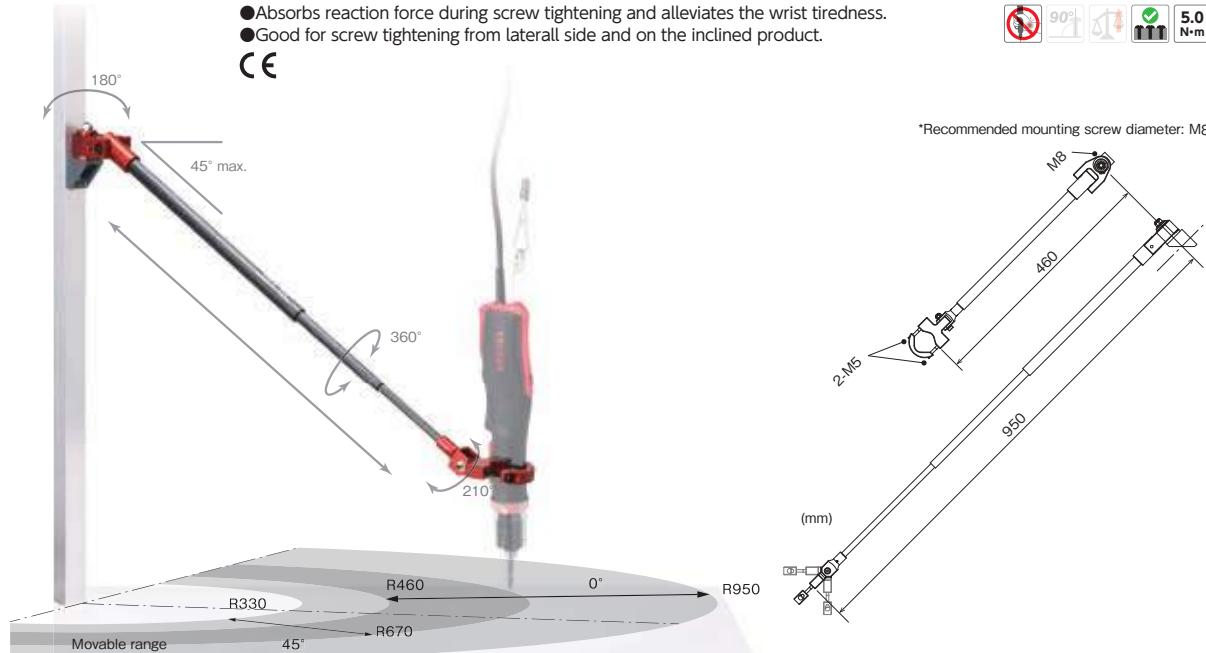
Model No.	Max. Reaction Force (N·m)	Maximum load (kg)	Installed Tool O/D (Φmm)	Height (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>VAB-5</b>	5	1.2	25~42	705	to R450 (When the arm angle is 22.5 degrees)	3.1 (Accessories included)	551082

Applicable: VE series (Electric Screwdriver) All models

Contents: Tool balancer (VBL-30)

**No. VTS-5/950 Sliding Arm NEW**

- Absorbs reaction force during screw tightening and alleviates the wrist tiredness.
- Good for screw tightening from laterall side and on the inclined product.



Model No.	Max. Reaction Force (N·m)	Maximum load (kg)	Installed Tool O/D (Φmm)	Arm Length (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>VTS-5/950</b>	5	1.2	25~42	460~950	R330 to 670 (When the arm angle is 45 degrees)	0.53 (Accessories included)	551083

Applicable: VE series (Electric Screwdriver) All models

Contents: Universal adapter (already installed)

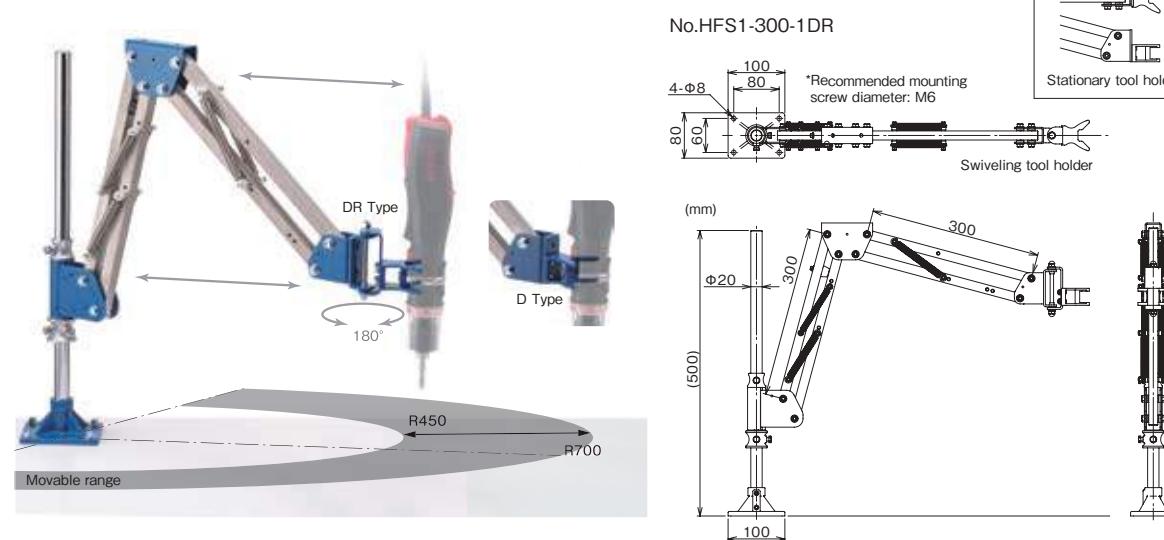
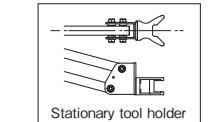
**No. HFS1-300-1D/R Hand Free Arm NEW**

- Accurate screw tightening by stable vertical and/or horizontal movement.
  - Tool attachment section which rotates facilitates tool operation in the application where the tool needs to be moved back and forth, up and down.
- \*D type : Absorbs reaction force during tapping screw tightening and alleviates the wrist tiredness.



D-type only

No.HFS1-300-1D



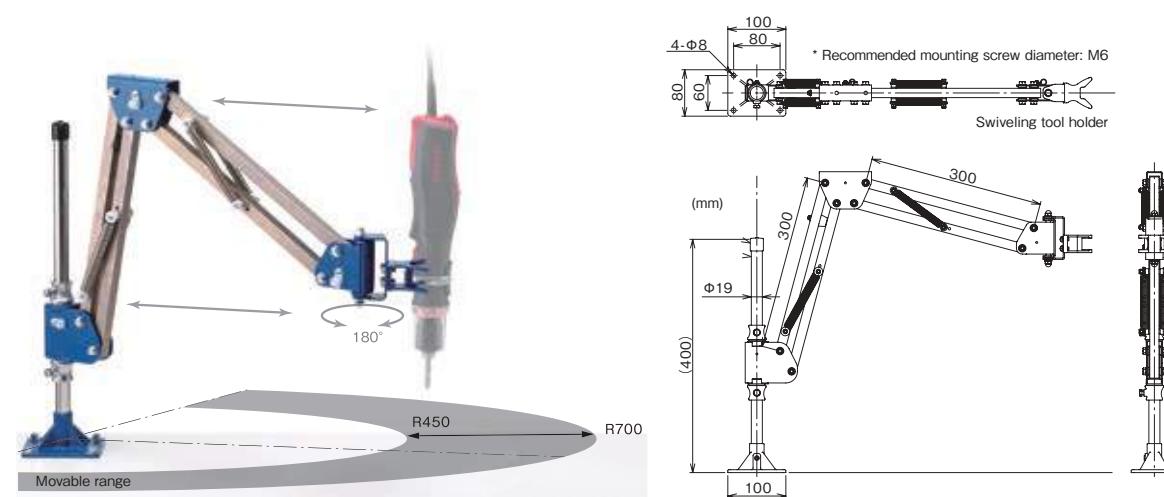
Model No.	Max. Reaction Force (N·m)	Allowable load (kg)	Installed Tool O/D (Φmm)	Arm Length (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>HFS1-300-1DR</b>	5.2	0.8~1.2	35~45	300+300	R450~700	4.1 (Accessories not included)	552053
<b>HFS1-300-1D</b>	5.2	0.8~1.2	35~45	300+300	R450~700	4.1 (Accessories not included)	552054

Applicable: VE-3000, VE-4000(P, AC, PAC), VE-4500(P, AC, PAC), VE-5000(P, SOP, PSOP), VE-6000(P, SOP, PSOP)

Contents: Replacement kit, Rubber sheet, Hose band

**No. HFC1-300DR Hand Free Arm NEW**

- Absorbs reaction force during screw tightening and alleviates the wrist tiredness.
- Tool attachment section which rotates facilitates tool operation in the application where the tool needs to be moved back and forth, up and down.
- Light-weight and cost-saving type.



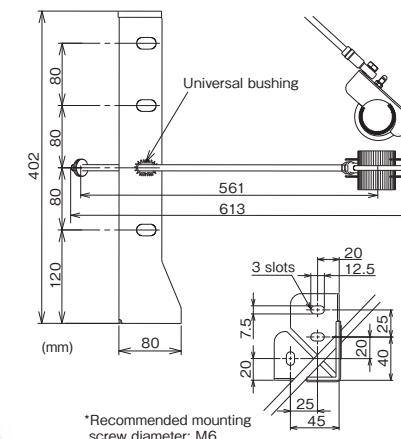
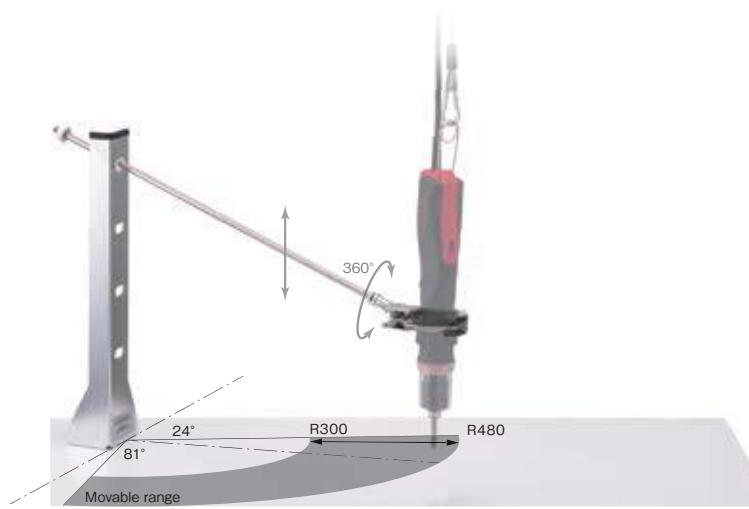
Model No.	Max. Reaction Force (N·m)	Allowable load (kg)	Installed Tool O/D (Φmm)	Arm Length (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>HFC1-300DR</b>	4.5	0.8~1.2	35~45	300+300	R450~700	2.7 (Accessories not included)	552051

Applicable: VE-3000, VE-4000(P, AC, PAC), VE-4500(P, AC, PAC), VE-5000(P, SOP, PSOP), VE-6000(P, SOP, PSOP)

Contents: Replacement kit, Rubber sheet, Hose band

**No. VRS-5 Reaction Control Arm NEW**

- This stand absorbs impact caused during screw tightening and reduces the operation load.
- Enables to tighten screws assuredly.
- Also enables to tighten screws horizontally located.

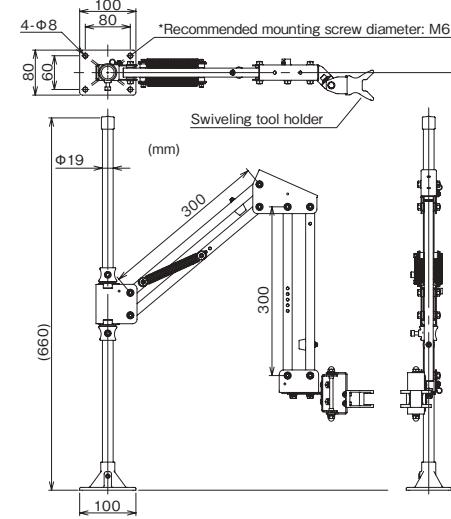
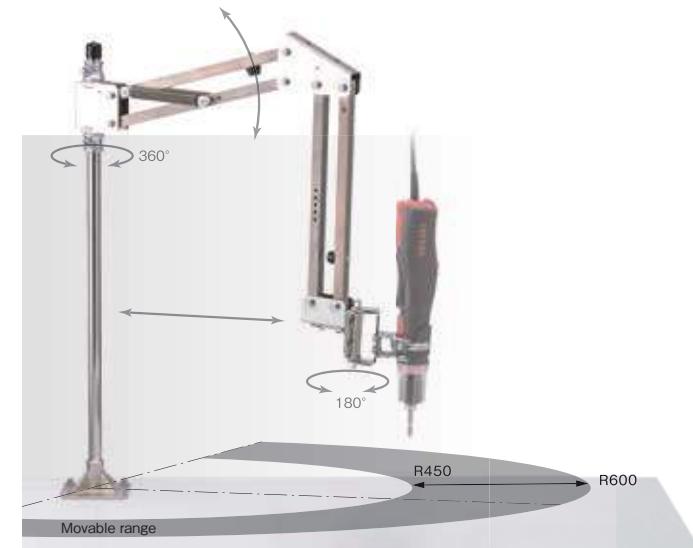


Model No.	Max. Reaction Force (N·m)	Maximum load (kg)	Installed Tool O/D (Φmm)	Shaft Length (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>VRS-5</b>	4.5	1.1	40	561	R300~480	0.85	551081

Applicable: VE-6000(P, SOP, PSOP), VE-5000(P, SOP, PSOP) Contents:Free Bush (1 spare), Rubber cover bush

**No. HFKCC-3-1DR Hand Free Arm NEW**

- Accurate screw tightening with the arm tool keeping the vertical positioning of the screwdriver.
- Plated parts incorporated make optimal for the electric device industry in which the paint separation should not occur.
- Tool attachment part which rotates, enables to handle the screwdriver freely even in a wide moving range application.

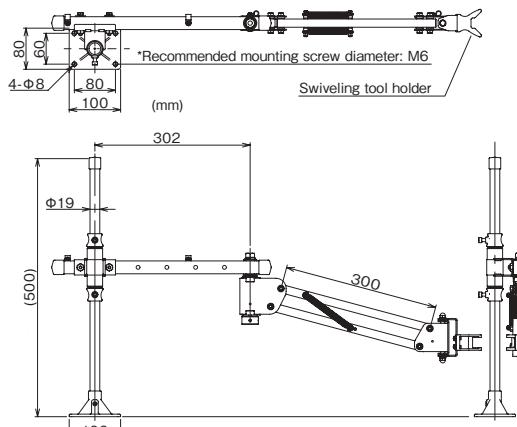
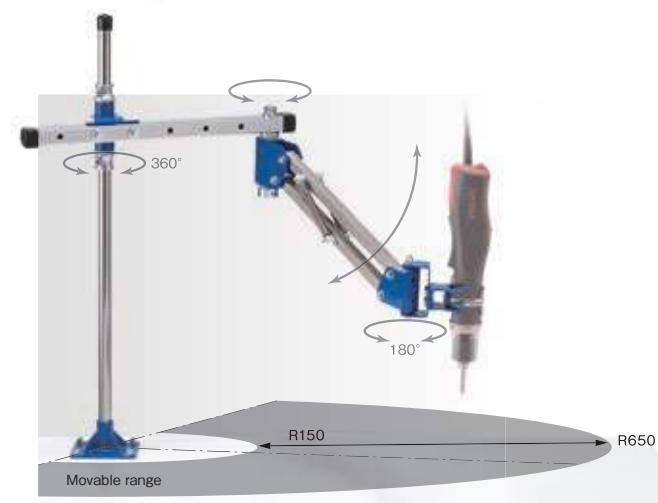


Model No.	Max. Reaction Force (N·m)	Applicable electric screwdrivers Weight (kg)	Tool O/D (Φmm)	Arm Length (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>HFKCC-3-1DR</b>	4.5	0.6~1.0	35~45	300+300	R450~600	2.9(Accessories not included)	552056

Applicable: VE-3000, VE-4000(P, AC, PAC), VE-4500(P, AC, PAC), VE-5000(P, SOP, PSOP), VE-6000(P, SOP, PSOP) Contents: Replacement kit, Rubber sheet, Hose band

**No. HFAC-3-1DR Hand Free Arm NEW**

- Accurate screw tightening with the arm tool keeping the vertical positioning of the screwdriver.
- Good for a work in a cramped space or with a small product.
- Tool attachment part which rotates, enables to handle the electric screwdriver freely in an application which requires to move it here and there.



Model No.	Max. Reaction Force (N·m)	Applicable electric screwdrivers Weight (kg)	Tool O/D (Φmm)	Arm Length (mm)	Movable Radius (mm)	Weight (kg)	EDP No.
<b>HFAC-3-1DR</b>	4.5	0.6~1.0	35~45	302+300	R150~650	3.1(Accessories not included)	552055

Applicable: VE-3000, VE-4000(P, AC, PAC), VE-4500(P, AC, PAC), VE-5000(P, SOP, PSOP), VE-6000(P, SOP, PSOP) Contents: Replacement kit, Rubber sheet, Hose band

# AIR TOOLS



## Contents

- Air Screwdrivers ..... 162 - 171
- Air Impact Wrenches ..... 172 - 184
- Power Scalers ..... 185 - 186
- Air Sanders/Air Grinders ..... 187 - 192
- Air Saws/Air Drills ..... 193 - 196
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HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

159

# AIR TOOLS TECHNICAL



## Standard A type anvil

Can be used with A type of industrial bits.  
For more information, contact us.

## Option

Can be used with B type of industrial bits.  
For more information, contact us.



## Pin-lock Type Anvil

Insert socket and lock with a pin.  
Mainly used for industrial assembly line.

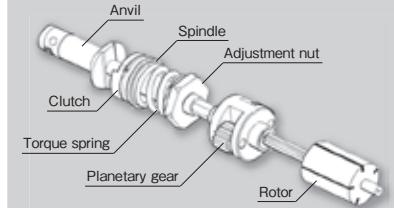


## Retainer Ring Type Anvil

Pin type anvil combined with a retainer ring.

## Tough Aluminum Body

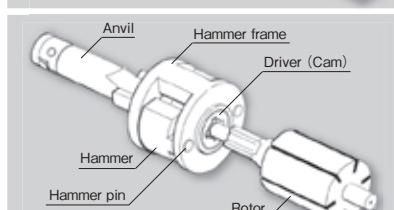
### Mechanism : Air Screwdriver



### Clutch Type / Gear Type Air Screwdriver

The speed of air motor rotation is reduced by planetary gears so as to raise the rotation torque. Smooth and stable tightening can be performed via engagement of the clutch.

**Torque Control Type :** When the tightening torque reaches to the specified level, the air supply is cut off by the movement of cam-shaft, and operation is suspended.



### Impact type Air Screwdriver

The hammer which is rotated by the rotor makes use of the impact of the striking the anvil, and a construction is obtained which generates a powerful tightening force.

**Torque Control Type :** As the bolt or nut is tightened, its resistance value increases, and the percussion part and rotary part are greatly inverted. This angle of inversion is caught by the clutch, transmitted to the stop valve, and the air is cut off.

166P

170P  
171P

167P  
~169P

171P

### RoHS

#### Environmental Measures

Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium / PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) / DEHP, BBP, DBP, DIBP (phthalate esters)

The products with this mark in this catalogue are compliant with the RoHS directives (EU) (usage limit of the above 10 substances).

Note: For the updated information on RoHS compliant products, visit our homepage, because some products or sizes are under investigation or are not compliant at the time of publication of this catalogue.



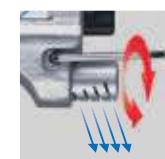
#### Oil Xtra Series

The impact mechanism is filled with lubricating oil. In addition to changing the impact noise to a softer, smoother sound, the oil prevents part damage due to friction.



#### Adjust Dial (Dual-purpose switch)

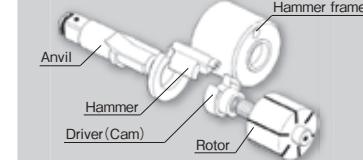
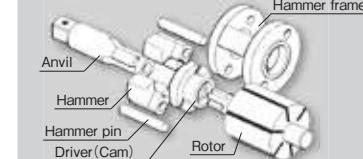
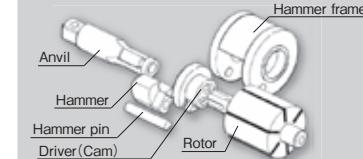
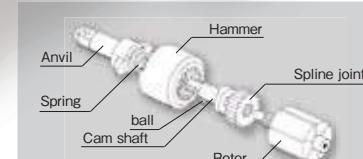
Consolidated control part combining air flow control switch and forward reverse control switch.



#### Silencer

Built-in filter reduces exhaust sound.

### Mechanism : Air Impact Wrench



#### Impact Type Innovative "V" Hammer

A hammer moves forward and backward by rotating and hit the anvil, which makes powerful and speedy tightening. Good hammering efficiency, and compact and light-weight type.

#### Impact Type Single Hammer

A construction whereby 1 rotation of the rotor causes the hammer to inflict 1 blow on the anvil. Due to this 1 rotation/1 percussion system, a strong tightening is obtainable.

#### Impact Type Double Hammer

A construction whereby 1 rotation of the rotor causes the hammer to inflict 2 blows on the anvil. Due to this 1 rotation/2 percussions system, a stable tightening is obtainable.

#### Pinless Impact Type Pinless Hammer

Rotation force of air motor is transmitted to the driver (cam) to rotate the hammer to hit the anvil, the impact of which enhances impact efficiency, allowing for firm screw tightening. Introduced pinless hammer which is small but outputs a great torque force.

174P  
175P

178P  
~180P

181P  
~183P

176P  
177P

# Air Screwdrivers

## Oil Xtra Series



A wide variety of air screwdrivers for high efficiency work.

We have developed products such as "Oil Extra" series which is filled with oil in the impact part unit, as well as air tube exhaust models, aiming at reducing noise and vibration.



## VESSEL

### Applicable Models

\*Only for referential purposes.

Small screw	Philips	Applicable Models
<b>M2</b>	<b>0 (Old JIS 1)</b>	S4TGF, S4TG
<b>M2.3</b>	<b>0 (Old JIS 1)</b>	S4TGF, S4TFS, S4TG, S4TS
<b>M2.5</b>	<b>1</b>	S4TGF, S4TFS, S4TG, S4TS, S5TGF, S5TG
<b>M2.6</b>	<b>0 (Old JIS 1)</b>	H4RC, S4TFS, S4TS, S5TGF, S5TG
<b>M3</b>	<b>1 (Old JIS 2)</b>	H4R, H4PR, PH4, H4RC, S4TFS, S4TS, S4TR, S5TGF, S5TFB, S5TG, S5TB
<b>M3.5</b>	<b>2</b>	H4R, H4PR, PH4, H4RC, H5RC, S4TR, S5TFB, S5TB
<b>M4</b>	<b>2</b>	H4R, H4PR, PH4, H4RC, H5P, PH5, H5RC, S4.5DR, P4.5DR, PLR, PLP, PLZ, PLRC, P5LS, S4TR, S5TBF, S5TB, PLX, S4.5XD, P4.5XD, PLX, P5XD
<b>M4.5</b>	<b>2</b>	H5R, H5P, PH5, H5RC, S4.5DR, P4.5DR, PLR, PLP, PLZ, PLRC, P5LS, S5TFR, S5TR, S5TB, PLX, S4.5XD, P4.5XD, PLX, P5XD
<b>M5</b>	<b>2</b>	H5R, H5P, PH5, H5HS, S6CD, S5TFR, S5TR, S5TS, PLX, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, S60XD, PLIXD, P5XD
<b>M6</b>	<b>3</b>	H5D, P6.5D, S6CD, P6EXD, S6LXD, P6LXD, P60XD, S60XD
<b>M8</b>	<b>4 (Old JIS 3)</b>	H5D, P6.5D, P8D, P10SII, P60XD, S60XD, P80XD
<b>M10</b>	<b>4</b>	P8D, P10SII, P80XD

Wood screw	Philips	Applicable Models
<b>1.8</b>	—	H4R, H4PR, PH4
<b>2.1</b>	<b>1</b>	H4R, H4PR, PH4
<b>2.4</b>	<b>1</b>	H4R, H4PR, PH4
<b>2.7</b>	<b>1</b>	H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, S4.5XD, P4.5XD
<b>3.1</b>	<b>2</b>	H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, S4.5XD, P4.5XD
<b>3.5</b>	<b>2</b>	H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6CD, PLX, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, P60XD, S60XD, PLIXD, P5XD
<b>3.8</b>	<b>2</b>	PLHII, P6LSIII, S6MLR, S6HS, P6HS, S6CD, S6.5D, P6.5D, P6.5CD, P5.5D, PLX, P6EXD, S6LXD, P6LXD, P60XD, PLIXD, P5XD
<b>4.1</b>	<b>2</b>	PLHII, P6LSIII, S6MLR, S6HS, P6HS, S6CD, S6.5D, P6.5D, P6EXD, S6LXD, P6LXD, P60XD, S60XD
<b>4.5</b>	<b>2</b>	S6.5D, P6.5D, P6EXD, P60XD, P8D, P10SII, S60XD, P80XD
<b>4.8</b>	<b>2</b>	P8D, P10SII, P80XD
<b>5.1</b>	<b>3</b>	P8D, P10SII, P80XD
<b>5.5</b>	<b>3</b>	P8D, P10SII, P80XD
<b>5.8</b>	<b>3</b>	P8D, P10SII, P80XD
<b>6.2</b>	<b>3</b>	P8D, P10SII, P80XD

Tapping screw	Philips	Applicable Models
<b>3.5</b>	<b>2</b>	H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, S4.5XD, P4.5XD
<b>4</b>	<b>2</b>	H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, PLX, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, P60XD, S60XD
<b>4.2</b>	<b>2</b>	PLHII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, PLX, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, P60XD, S60XD
<b>4.5</b>	<b>2</b>	P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6.5D, P6.5D, S6CD, PLX, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, P60XD, S60XD
<b>4.8</b>	<b>2</b>	P6.5D, P60XD, S60XD
<b>5</b>	<b>2</b>	P6.5D, P8D, P10SII, P60XD, S60XD, P80XD
<b>5.5</b>	<b>3</b>	P8D, P10SII, P80XD
<b>6</b>	<b>3</b>	P8D, P10SII, P80XD

Hexagonal recess bolt Hexagonal head bolt	H (mm)	H (mm)	Applicable Models
<b>M2.5</b>	<b>2.0</b>	<b>5.0</b>	H4RC
<b>M3</b>	<b>2.5</b>	<b>5.5</b>	H4R, H4PR, PH4, H4RC
<b>M3.5</b>	—	<b>6.0</b>	H4R, H4PR, PH4, H4RC, H5RC
<b>M4</b>	<b>3.0</b>	<b>7.0</b>	H4R, H4PR, PH4, H5R, H5P, PH5, H5RC, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, PLX, S4.5XD, P4.5XD, PLX, P5XD
<b>M5</b>	<b>4.0</b>	<b>8.0</b>	H5R, H5P, PH5, S4.5DR, P4.5DR, PLR, PLP, PLZ, P5LS, P6LSIII, P6HS, PLHII, S6MLR, S6HS, S6CD, PLX, S4.5XD, P4.5XD, P6EXD, S6LXD, P6LXD, P60XD, S60XD, PLIXD, P5XD
<b>M6</b>	<b>5.0</b>	<b>10.0</b>	P6EXD, S6LXD, P6LXD, P60XD, S60XD
<b>M7</b>	—	<b>11.0</b>	S6.5D, P6.5D, P60XD, S60XD
<b>M8</b>	<b>6.0</b>	<b>13.0</b> (Small bolt <b>12.0</b> )	S6.5D, P6.5D, P8D, P10SII, P60XD, S60XD, P80XD
<b>M10</b>	<b>8.0</b>	<b>16.0</b> (Old JIS <b>17.0</b> ) (Small bolt <b>14.0</b> )	P8D, P10SII, P80XD

Standard screw 4~5mm Compact, lightweight and high revolution motor. For recycle plant, small sash frame, etc. Oil Xtra Series ←See P161



No. GT-S4.5XD

6.35 Bit sleeve retainer  
Noise reducer



No. GT-P4.5XD

6.35 Bit sleeve retainer  
Noise reducer/Rear exhaust



No. GT-PLXD

6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer



No. GT-P5XD

6.35 Bit sleeve retainer  
Noise reducer/Rear exhaust



No. GT-PLIXD

6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer  
Suppress noise with air tube  
See P165 One point→

Standard screw 5~6mm Stable tightening performance with high power. For sash frame for building, exterior, home building, etc.



No. GT-S6LXD

6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer



No. GT-P6LXD

6.35 Bit sleeve retainer  
Noise reducer/Rear exhaust

Standard screw 6~8mm Powerful torque force. For installing parts, fastening concrete screw, etc. Oil Xtra Series



No. GT-P60XD

6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer/Rear exhaust



No. GT-S60XD

6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer/Rear exhaust

Standard screw 8~10mm Powerful torque force. For installing parts, fastening concrete screw, etc.



No. GT-P80XD

8 Bit sleeve retainer  
④ Adjust dial  
Noise reducer/Rear exhaust

Standard screw 5~6mm High power models for construction.



No. GT-P6EXD

6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer/Rear exhaust

Does not damage work piece with protector.

## One point

### Suppress noise with air tube

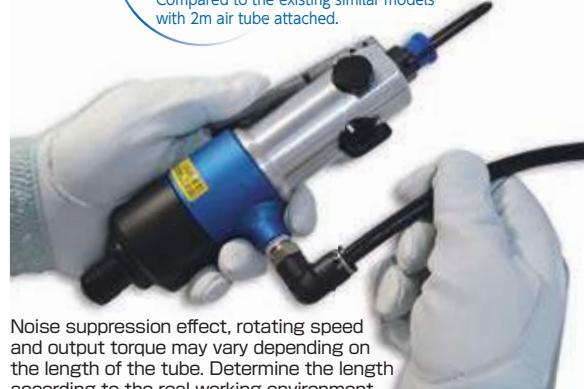
Exhaust noise is reduced by mounting existing Ø8 air tube.

No. GT-PLIXD

-8dB

\*No-load noise  
Approx. 78dB

Compared to the existing similar models with 2m air tube attached.



Noise suppression effect, rotating speed and output torque may vary depending on the length of the tube. Determine the length according to the real working environment.

Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		EDP No.
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug	
GT-S4.5XD	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,500	0.2	G 1/4	188	585	A14 $\oplus$ 2x65G	BPN-2F	311085
GT-P4.5XD	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,000	0.2	Rc 1/4	170	735	A14 $\oplus$ 2x65G	BPB-2	311089
GT-PLXD	4.0~5.0	3.8~4.2	3.3~3.8	4.0~5.0	11,000	0.35	G 1/4	198.5	670	A14 $\oplus$ 2x65G	BPN-2F	311113
GT-P5XD	4.0~5.0	3.5~4.0	3.3~3.8	4.0~5.0	11,000	0.33	Rc 1/4	172	790	A14 $\oplus$ 2x65G	BPB-2	311100
GT-PLIXD	4.0~5.0	3.8~4.2	3.3~3.8	4.0~5.0	7,300	0.29	G 1/4	198	740	A14 $\oplus$ 2x65G	BPN-2F	311114
GT-S6LXD	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	12,000	0.4	G 1/4	212	815	A14 $\oplus$ 2x65G	BPN-2F	311115
GT-P6LXD	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	12,500	0.45	Rc 1/4	184	876	A14 $\oplus$ 2x65G	BPB-2	311116

\*Air pressure: 0.6MPa · Air hose diameter: 6.35mm · Overall length and Weight: Accessories not included.

-Capacity is listed as instant reference and depends on operation conditions.

-w/Rotary parts oil (VG-10), Impact parts oil (VG-32)

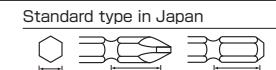
Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		EDP No.
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug	
GT-P60XD	6.0~8.0	4.0~5.0	3.8~4.5	6.0~8.0	7,500	0.38	Rc 1/4	176	1,130	A14 $\oplus$ 2x65E/ $\oplus$ 3x65E	BPB-2	324021
GT-S60XD	6.0~8.0	4.0~5.0	3.8~4.5	6.0~8.0	7,500	0.38	Rc 1/4	198	1,030	A14 $\oplus$ 2x65E/ $\oplus$ 3x65E	BPB-2	324023
GT-P80XD	8.0~10.0	5.0~6.0	4.5~6.2	8.0~10.0	7,000	0.4	Rc 1/4	172	1,520	A15 $\oplus$ 2x65G/ $\oplus$ 3x65E	H4	324050
GT-P6EXD	5.0~6.0	4.0~4.5	3.6~4.8	5.0~6.0	9,300	0.55	Rc 1/4	155	1,085	A14 $\oplus$ 2x65G	BPB-2	311150

\*Air pressure: 0.6MPa · Air hose diameter: 6.35mm · Overall length and Weight: Accessories not included.

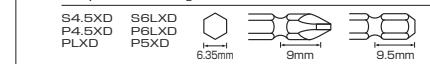
-Capacity is listed as instant reference and depends on operation conditions.

-w/Rotary parts oil (VG-10), Impact parts oil (VG-32)

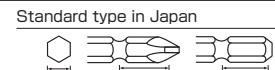
Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.



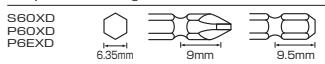
\*Option: Following retainer anvil is available.



Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.



\*Option: Following retainer anvil is available.



Standard screw 2.6~3.5mm Speed-reduction type air driver.

Standard screw 3.5~4.5mm Speed-reduction type air screwdriver.



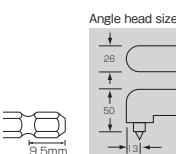
No. GT-H4RC

6.35 Ball spring retainer  
Noise reducer



No. GT-H5RC

6.35 Ball spring retainer



Standard screw 3~4mm Compact, lightweight and silent gear speed-reduction mechanism.



No. GT-H4R

6.35 Ball spring retainer  
Lever push starting/Noise reducer



No. GT-H4PR

6.35 Ball spring retainer  
Push starting/Noise reducer

Standard screw 4~5mm Compact and lightweight. Basic models for assembly plant.



No. GT-S4.5DR

6.35 Bit sleeve retainer  
Noise reducer



No. GT-P4.5DR

6.35 Bit sleeve retainer  
Noise reducer/Rear exhaust



No. GT-PLR

6.35 Ball spring retainer  
③ Adjust dial



No. GT-P5LS

6.35 Bit sleeve retainer  
Noise reducer/Rear exhaust

Standard screw 4~5mm Stable tightening performance with high power. For installing electrical parts.



No. GT-H5R

6.35 Ball spring retainer  
Lever push starting



No. GT-H5P

6.35 Ball spring retainer  
Push starting/Noise reducer



No. GT-PLP

6.35 Ball spring retainer  
Push starting/Noise reducer



No. GT-PLZ

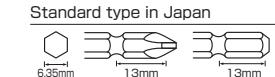
6.35 Bit sleeve retainer  
③ Adjust dial  
Noise reducer

Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		EDP No.
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug	
GT-H4R	3~4	—	1.8~2.4	3~4	1,500	0.2	G 1/4	190	590	A14 $\oplus$ 2X65G	BPN-2F	311036
GT-H4PR	3~4	—	1.8~2.4	3~4	1,500	0.19	G 1/4	213	610	A14 $\oplus$ 2X65G	BPN-2F	311046
GT-H4RC	2.6~3.5	—	—	2.6~3.5	1,500	0.2	G 1/4	216	735	B39 $\oplus$ 2X23H	BPN-2F	311034
GT-H5R	4~5	3.5~4	2.7~3.5	4~5	1,500	0.25	G 1/4	225	880	A14 $\oplus$ 2X65G	BPN-2F	311066
GT-H5P	4~5	3.5~4	2.7~3.5	4~5	1,500	0.25	G 1/4	235	880	A14 $\oplus$ 2X65G	BPN-2F	311065
GT-H5RC	3.5~4.5	—	—	3.5~4.5	1,500	0.25	G 1/4	248	1,047	B39 $\oplus$ 2X23H	BPN-2F	311064

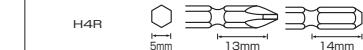
\*Air pressure: 0.6MPa \*Air hose diameter: 6.35mm \*Overall length: Accessories and hanger parts not included. \*Weight: Accessories not included.

\*Capacity is listed as instant reference and depends on operation conditions.

Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.



\*Option: Following retainer anvil is available.

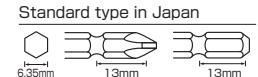


Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		EDP No.
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug	
GT-S4.5DR	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,000	0.2	G 1/4	180	585	A14 $\oplus$ 2X65G	BPN-2F	311084
GT-P4.5DR	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	14,000	0.2	Rc 1/4	160	715	A14 $\oplus$ 2X65G	PBP-2	311088
GT-PLR	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	G 1/4	187	830	A14 $\oplus$ 2X65G	BPN-2F	311097
GT-P5LS	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	Rc 1/4	165	980	A14 $\oplus$ 2X65G	PBP-2	311099
GT-PLP	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	G 1/4	197	750	A14 $\oplus$ 2X65G	BPN-2F	311095
GT-PLZ	4.0~5.0	3.5~4.0	2.7~3.5	4.0~5.0	9,000	0.2	G 1/4	205	950	A14 $\oplus$ 2X65G	BPN-2F	311111

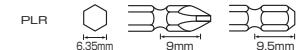
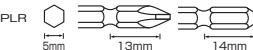
\*Air pressure: 0.6MPa \*Air hose diameter: 6.35mm \*Overall length: Accessories and hanger parts not included.

\*Capacity is listed as instant reference and depends on operation conditions.

Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.



\*Option: Following retainer anvil is available.



Standard screw **5~6mm** Compact and lightweight. Basic models for assembly plant.



No. GT-PLHII

- 6.35 Bit sleeve retainer (Pull type)
- ③ Adjust dial
- OP Anvil (Bit sleeve retainer, push type)

No. GT-P6LSIII

- 6.35 Bit sleeve retainer (Pull type)
- Noise reducer/Rear exhaust OP
- Anvil (Bit sleeve retainer, push type)
- Rubber grip



Rubber grip type available as option.



No. GT-S6HS

- 6.35 Bit sleeve retainer
- ③ Adjust dial



No. GT-P6HS

- 6.35 Bit sleeve retainer
- Noise reducer/Rear exhaust



No. GT-S6MLR

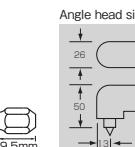
- 6.35 Bit sleeve retainer (Pull type)
- ③ Adjust dial

Standard screw **4~5mm** Angle impact screwdriver.



No. GT-PLRC

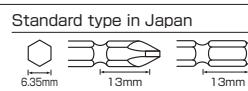
- 6.35 Ball spring retainer
- ③ Adjust dial



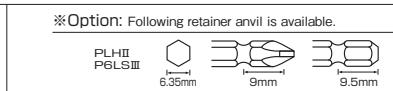
Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (m³/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		EDP No.
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug	
GT-PLHII	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	8,500	0.3	Rc 1/4	213	925	A14 $\oplus$ 2x65G	BPB-2	311094
GT-P6LSIII	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	9,000	0.3	Rc 1/4	177	955	A14 $\oplus$ 2x65G	BPB-2	311098
GT-S6HS	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	10,000	0.3	G 1/4	220	1,100	A14 $\oplus$ 2x65G	BPN-2F	311107
GT-P6HS	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	10,000	0.3	Rc 1/4	180	1,170	A14 $\oplus$ 2x65G	BPB-2	311131
GT-S6MLR	5.0~6.0	4.0~4.5	3.6~4.1	5.0~6.0	8,500	0.25	G 1/4	215	1,120	A14 $\oplus$ 2x65G	BPN-2F	311106

\*Air pressure: 0.6MPa \*Air hose diameter: 6.35mm \*Overall length: Accessories and hanger parts not included. \*Weight: Accessories not included.

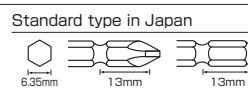
\*Capacity is listed as instant reference and depends on operation conditions.



Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.



※Option: Following retainer anvil is available.



Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.

Standard screw **6~8mm** Powerful torque force. Excellent durability.



No. GT-S6.5D

- 6.35 Bit sleeve retainer
- ④ Adjust dial



No. GT-P6.5D

- 6.35 Bit sleeve retainer
- ③ Adjust dial

Standard screw **8~10mm** High power models. For installing various parts.



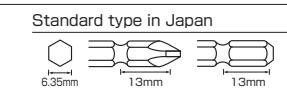
No. GT-P8D

- 8 Bit sleeve retainer
- ③ Adjust dial

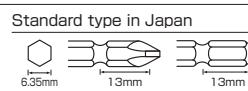
Model No.	Capacity (mm)				No Load Speed (rpm)	Air Consumption (m³/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories		EDP No.	
	Standard Screw	Tapping Screw	Wood Screw	Bolt						Bit	Plug		
GT-PLRC	4.0~5.0	—	—	—	4.0~5.0	9,000	0.2	G 1/4	228	1,100	B39 $\oplus$ 2x23H	BPN-2F —	311112
GT-S6.5D	6.0~8.0	4.0~4.5	3.8~4.5	6.0~8.0	7,500	0.35	Rc 1/4	217	1,300	A14 $\oplus$ 2x65E/ $\oplus$ 3x65E	BPB-2 H4	324040	
GT-P6.5D	6.0~8.0	4.0~4.5	3.8~4.5	6.0~8.0	8,500	0.38	Rc 1/4	152	1,450	A14 $\oplus$ 2x65E/ $\oplus$ 3x65E	BPB-2 H4	324041	
GT-P8D	8.0~10.0	5.0~6.0	4.5~6.2	8.0~10.0	7,500	0.4	Rc 1/4	172	1,930	A15 $\oplus$ 2x65G/ $\oplus$ 3x65E	BPB-2 H4	324046	

\*Air pressure: 0.6MPa \*Air hose diameter: 6.35mm \*Overall length and Weight: Accessories and hanger parts not included.

\*Capacity is listed as instant reference and depends on operation conditions.



Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.



Bit installation anvil application  
Unless otherwise mentioned, following type is a standard.

## Torque Control Air Screwdriver, Reduced Type

Standard screw **2~2.5mm** Air is automatically shut out when torque reaches a set value.

**No. GT-S4TFG**

Push startup type/Noise reducer/Rear exhaust

[OP] Torque Spring

**No. GT-S4TG**

Adjust dial type

Push startup type/Noise reducer/Rear exhaust  
[OP] Torque Spring Hose Coupling(1/8")

Standard screw **2.2~3mm** Air is automatically shut out when torque reaches a set value.

**No. GT-S4TFS**

Push startup type/Noise reducer/Rear exhaust

[OP] Torque Spring

**No. GT-S4TS**

Adjust dial type

Push startup type/Noise reducer/Rear exhaust  
[OP] Torque Spring Hose Coupling(1/8")

Standard screw **3~4mm** Air is automatically shut out when torque reaches a set value.

**No. GT-S4TR**Push startup type/Noise reducer/Rear exhaust  
[OP] Torque Spring Hose Coupling(1/8")

Adjust dial type

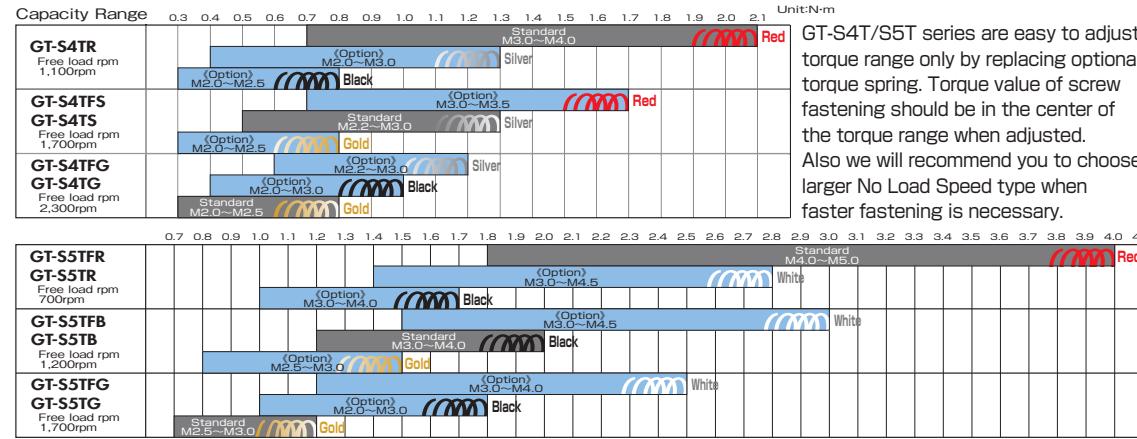
Model No.	Capacity Standard Screw(mm)	Torque Range (N·m)	No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories Bit	Plug	EDP No.
GT-S4TFG	2.0~2.5	0.3~0.8	2,300	0.28	Rc 1/8	215	565	B36 $\oplus$ 2X70H	—	311206
GT-S4TFS	2.2~3.0	0.5~1.3	1,700	0.28	Rc 1/8	215	555	B36 $\oplus$ 2X70H	—	311205
GT-S4TG	2.0~2.5	0.3~0.8	2,300	0.28	Rc 1/4	215	650	A14 $\oplus$ 2X65G	BPB-2	311203
GT-S4TS	2.2~3.0	0.5~1.3	1,700	0.28	Rc 1/4	215	640	A14 $\oplus$ 2X65G	BPB-2	311202
GT-S4TR	3.0~4.0	0.7~2.1	1,100	0.28	Rc 1/4	215	650	A14 $\oplus$ 2X65G	BPB-2	311201

\*Air pressure: 0.6MPa \*Air hose diameter: 6.35mm \*Overall length: Accessories and hanger parts not included. \*Weight: Accessories not included.

\*Capacity is listed as instant reference and depends on operation conditions.

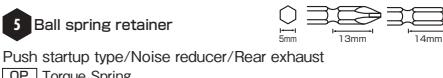
## One point

## Torque Spring Change



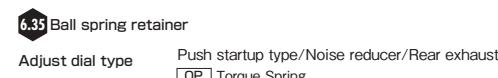
GT-S4T/S5T series are easy to adjust torque range only by replacing optional torque spring. Torque value of screw fastening should be in the center of the torque range when adjusted. Also we will recommend you to choose larger No Load Speed type when faster fastening is necessary.

Standard screw **2.5~3mm** Air is automatically shut out when torque reaches a set value.

**No. GT-S5TFG**

Push startup type/Noise reducer/Rear exhaust

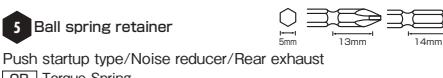
[OP] Torque Spring

**No. GT-S5TG**

Push startup type/Noise reducer/Rear exhaust

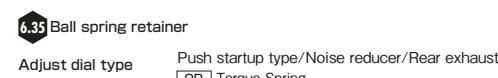
[OP] Torque Spring

Standard screw **3~4mm** Air is automatically shut out when torque reaches a set value.

**No. GT-S5TFB**

Push startup type/Noise reducer/Rear exhaust

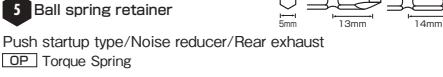
[OP] Torque Spring

**No. GT-S5TB**

Push startup type/Noise reducer/Rear exhaust

[OP] Torque Spring

Standard screw **4~5mm** Air is automatically shut out when torque reaches a set value.

**No. GT-S5TFR**

Push startup type/Noise reducer/Rear exhaust

[OP] Torque Spring

**No. GT-S5TR**

Push startup type/Noise reducer/Rear exhaust

[OP] Torque Spring

**No. GT-S5TS**

Bit sleeve retainer (Pull type)

Adjust dial type



Model No. Capacity Standard Screw(mm) Torque Range (N·m) No Load Speed (rpm) Air Consumption (ml/min) Hose Coupling Overall Length (mm) Weight (g) Accessories Bit Plug L-wrench EDP No.

Model No.	Capacity Standard Screw(mm)	Torque Range (N·m)	No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Overall Length (mm)	Weight (g)	Accessories Bit	Plug	L-wrench	EDP No.
GT-S5TFG	2.5~3.0	0.7~1.2	1,700	0.35	Rc 1/8	243	860	B36 $\oplus$ 2X70H	—	—	311215
GT-S5TG	2.5~3.0	0.7~1.2	1,700	0.35	Rc 1/4	260	920	A14 $\oplus$ 2X65G	BPB-2	—	311212
GT-S5TFB	3.0~4.0	1.2~2.0	1,200	0.35	Rc 1/8	243	830	B36 $\oplus$ 2X70H	—	—	311214
GT-S5TB	3.0~4.0	1.2~2.0	1,200	0.35	Rc 1/4	260	910	A14 $\oplus$ 2X65G	BPB-2	—	311211
GT-S5TFR	4.0~5.0	1.8~4.0	700	0.35	Rc 1/8	243	850	B36 $\oplus$ 2X70H	—	—	311213
GT-S5TR	4.0~5.0	1.8~4.0	700	0.35	Rc 1/4	260	930	A14 $\oplus$ 2X65G	BPB-2	—	311210
GT-S5TS	4.5~6.0	3.9~9.8	6,500	0.25	Rc 1/4	292	1,310	A14 $\oplus$ 2X65G	BPB-2	H3	324002

\*Air pressure: 0.6MPa \*Air hose diameter: 6.35mm \*Overall length: Accessories and hanger parts not included. \*Weight: Accessories not included.

\*Capacity is listed as instant reference and depends on operation conditions.

Bit installation anvil application

Unless otherwise mentioned, following type is a standard.

## Corner type impact wrench

**VESSEL**

Powerful tightening with air motor Air Impact Wrenches

## Air Impact Wrenches Model Selection Chart

※Fastening torque is based on JIS B1083. (Metric coarse screw, friction coefficient  $\mu$ : 0.15) The following selection chart is for referential purposes only.

Screw diameter	Torque (N·m)	JISB1051 Strength Category																						
		3.6		4.6		4.8		5.6		5.8		6.8		8.8		10.9		12.9						
<b>M8</b>	8.7	800	11.0	800	15.6	800	13.7	800	1000	19.2	800	1000	22.0	800	1000	29.3	1000	43.0	1000	50.4	1000	1400		
<b>M10</b>	17.1	800 1000	21.6	1000	30.6	1000	27.0	1000	1400	37.8	1000 1400	43.2	1000 1400	57.6	1000 1400	84.7	1000 1400	99.1	1400	1600	1400	1600		
<b>M12</b>	29.4	1000 1400	37.2	1000 1400	52.7	1400 1600	46.5	1400 1600	65.1	1400 1600	74.4	1400 1600	99.1	1400 1600	145.6	1600 2000	170.4	1600 2000	170.4	1600 2000	170.4	1600 2000		
<b>M14</b>	46.9	1400	59.3	1400 1600	84.0	1600 2000	74.1	1400 1600	103.8	1400 1600	118.6	1600	158.1	1600 2000	232.2	2000	271.7	2000	271.7	2000	271.7	2000		
<b>M16</b>	73.0	1600	92.2	1600	130.6	1600 2000	115.3	1600 2000	161.4	1600 2000	184.4	1600 2000	245.9	2000 2500	361.2	2000 2500	422.7	2000 2500	422.7	2000 2500	422.7	2000 2500		
<b>M18</b>	100.8	1600 2000	127.3	1600 2000	180.4	2000	159.2	2000	222.8	2000	254.7	2000 2500	350.2	2000 2500	498.8	2500	583.6	2500	583.6	2500	583.6	2500		
<b>M20</b>	142.7	2000	180.3	2000	255.4	2000	225.4	2000	315.5	2000 2500	360.6	2000 2500	495.9	2500	706.2	2500	826.4	2500 3800	826.4	2500 3800	826.4	2500 3800		
<b>M22</b>	196.6	2000	284.4	2500	351.9	2500	310.5	2500	434.7	2500	496.7	2500 3800	683.0	2500 3800	972.8	3800	1138.4	3800	1138.4	3800	1138.4	3800		
<b>M24</b>	245.9	3800	310.7	3800	440.1	3800	388.3	3800	543.7	3800	621.3	3800	854.3	3800	1216.8	4200 4800	1423.9	4200 4800	1423.9	4200 4800	1423.9	4200 4800		
<b>M27</b>	365.0	3800	461.0	3800	653.1	3800	576.2	3800	806.7	3800	922.0	3800	1267.7	3800 4200	1805.6	S55R	2112.9	S55R	2112.9	S55R	2112.9	S55R		
<b>M30</b>	494.6	3800	624.8	3800	885.2	3800	781.0	3800	1093.4	3800 4200 4800	1249.6	3800 4200 4800	1718.2	4200 4800 S55R	2447.2	S55R	2863.7							
<b>M33</b>	666.7	3800	842.1	3800	1193.0	3800	1052.6	3800	1473.7	4200 4800	1684.2	S55R	2315.8	S55R	3298.2		3859.6							
<b>M36</b>	862.5	3800	1089.5	4200 4800	1543.4	4200 4800	1767.8	4200 4800	1906.6	S55R	2178.9	S55R	2996.0		4267.1		4993.4							
<b>M39</b>	1119.6	4200 4800	1414.2	4200 4800	2003.5	S55R	1767.8	S55R	2474.9		2828.5		3889.2		5539.1		6482.0							
<b>M42</b>	1385.0	4200 4800	1749.4	S55R	2478.3	S55R	2186.8	S55R	3061.5		3498.8		4810.9		6851.9		8018.2							
<b>M45</b>	1733.0	S55R	2189.0	S55R	3101.1		2736.3		3830.8		4378.0		6019.8		8573.6		10033.0							
<b>M48</b>	2092.1	S55R	2642.6		3743.7		3303.3		4624.6		5285.3		7267.3		10350.3		12112.1							
<b>M52</b>	2692.9	S55R	3401.6		4818.9		4252.0		5953.8		6803.2		9354.4		13322.9		15590.6							

800: GT-P6II / S650 / S65W / P65W / S70WK / P60XW / S60XW

1000: GT-P8II / P80W / P80XW / C900

1400: GT-1400P / P12 / C1400

1600: GT-1600VPX / 1600VPH(L) / 1600VP(L) / P14J (L) / 1600P(L) / P14W / 1600JP

2000: GT-2000PF / P18J(L) / 2000P(L) / S20RW / 1700BX

2500: GT-2500LF / 2500PF / S220W

3800: GT-3900VL / 3900VP / 3900V / 3800LX / S32RW

4200: GT-4200PF / 4200L / 4200

4800: GT-4800VL

S55R: GT-S55R

Machine Bolt Dia. **16mm** Compact, lightweight and high power with V shape hammer system.

**No. GT-1600VPX**

- 12.7 Retainer ring
- ④ Adjust dial
- Rear exhaust

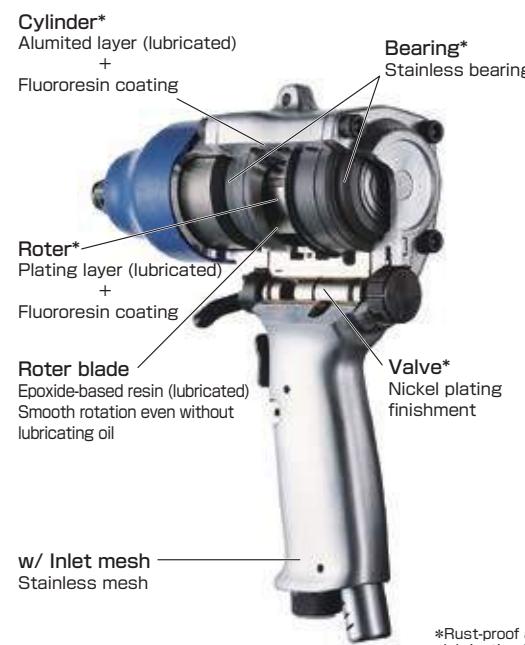
**No. GT-1600VP**

- 12.7 Retainer ring
- ④ Adjust dial
- Rear exhaust

## One point

### GT-1600VPH/GT-1600VPHL Oilless mechanism

Completely oil-less model with rust-proofing and lubrication treatment on the air passage. Maintenance-free and environmental-friendly impact wrench, not causing oil mist.



\*Rust-proof and lubrication-free

**No. GT-1600VPL**

- 12.7 Retainer ring
- ④ Adjust dial
- Rear exhaust

**No. GT-1600VPH**

- 12.7 Retainer ring
- ④ Adjust dial
- Rear exhaust
- Oil-less type

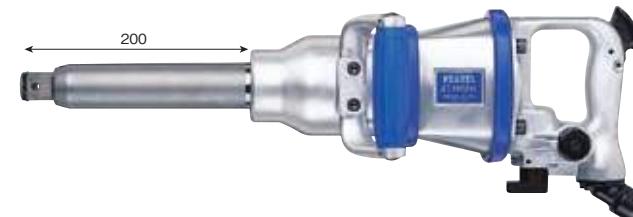
**No. GT-1600VPHL**

- 12.7 Retainer ring
- ④ Adjust dial
- Rear exhaust
- Oil-less type

Machine Bolt Dia. **39mm** Compact, lightweight and high power with V shape hammer system.

**No. GT-3900VP**

- 25.4 Retainer ring
- ④ Adjust dial
- Rear exhaust

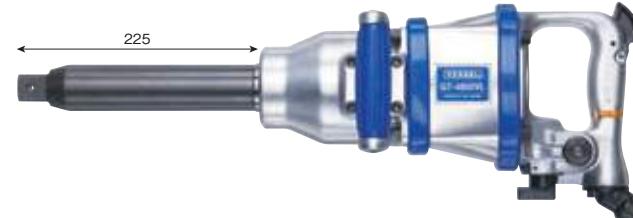
**No. GT-3900VL**

- 25.4 Retainer ring
- ④ Adjust dial

**No. GT-3900V**

- 25.4 Retainer ring
- ④ Adjust dial

Machine Bolt Dia. **48mm** Compact, lightweight and high power with V shape hammer system.

**No. GT-4800VL**

- 25.4 Pin-lock
- ④ Adjust dial

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range (N·m)	Max. Torque (N·m)	No Load Speed (rpm)	Air Consumption (m³/min)	Hose Coupling	Air Hose Inner Dia.(mm)	Overall Length (mm)	Weight (kg)	Accessories		EDP No.
										Plug	L-wrench	
GT-1600VPX	16	49~294.2	360.0	8,200	0.4	Rc 1/4	6.35	169	1.48	BPB-2	H4	336013
GT-1600VP	16	49~304.0	366.7	8,500	0.4	Rc 1/4	6.35	171	1.91	BPB-2	H4	336010
GT-1600VPL	16	49~304.0	366.7	8,500	0.4	Rc 1/4	6.35	199	1.95	BPB-2	H4	336016
GT-1600VPH	16	49~284.3	352.0	8,200	0.4	Rc 1/4	6.35	174.5	1.75	BPB-2	H4	336012
GT-1600VPHL	16	49~284.3	352.0	8,200	0.4	Rc 1/4	6.35	202.5	1.8	BPB-2	H4	336017

\*Air pressure: 0.6MPa ·Overall length and Weight: Accessories not included. ·Capacity is listed as instant reference and depends on operation conditions.

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range (N·m)	Max. Torque (N·m)	No Load Speed (rpm)	Air Consumption (m³/min)	Hose Coupling	Air Hose Inner Dia.(mm)	Overall Length (mm)	Weight (kg)	Accessories		EDP No.
										Plug	L-wrench	
GT-3900VP	39	490~1716	2013.4	4,200	0.7	Rc 3/8	12.7	268	7.95	BPB-3	H5,H6	336118
GT-3900VL	39	490~1716	2094.9	4,200	0.7	Rc 1/2	12.7	524	8.95	BPB-4	H5,H6	336117
GT-3900V	39	490~1716	2094.9	4,200	0.7	Rc 1/2	12.7	358.6	8.2	BPB-4	H5,H6	336113
GT-4800VL	48	343~2010	2542.1	3,200	1.0	Rc 1/2	12.7	559	12.8	1/2"×1/2" (hose nipple)	H6	336121

\*Air pressure: 0.6MPa ·Overall length and Weight: Accessories not included. ·Capacity is listed as instant reference and depends on operation conditions.

Machine Bolt Dia. **20mm** Models with the best balance between strength and lightness.

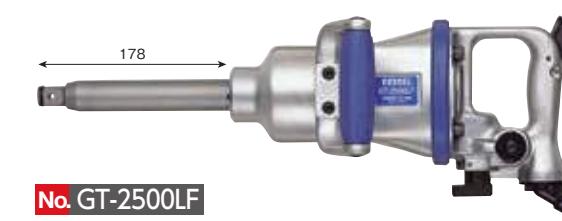
**No. GT-2000PF**

- 19 Retainer ring
- 4 Adjust dial
- Rear exhaust/Noise reducer

Machine Bolt Dia. **25mm** Models with the best balance between strength and lightness.

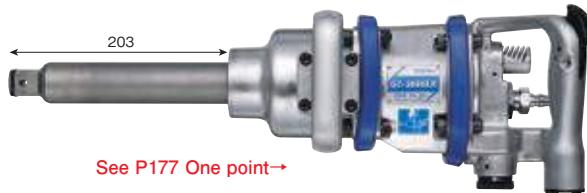
**No. GT-2500PF**

- 19 Retainer ring
- 4 Adjust dial
- Rear exhaust/Noise reducer

**No. GT-2500LF**

- 19 Retainer ring
- 4 Adjust dial

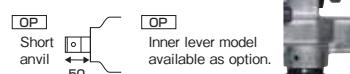
Machine Bolt Dia. **39mm** Models with the best balance between strength and lightness.



See P177 One point→

**No. GT-3800LX PAT.**

- 25.4 Retainer ring
- 3 Adjust dial
- Rear exhaust/Noise reducer

**No. GT-3800PX**

- 25.4 Retainer ring
- Rear exhaust/Noise reducer

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range (N·m)	Max. Torque (N·m)	No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Air Hose Inner Dia. (mm)	Overall Length (mm)	Weight (kg)	Accessories		EDP No.
										Plug	L-wrench	
GT-2000PF	20	98~460.9	542.7	5,500	0.43	Rc 1/4	9.5	210	3.5	BPB-2	H5	331298
GT-2500PF	25	147~961	1187.7	3,200	0.6	Rc 3/8	9.5	242	6.2	BPB-3	H5	335326
GT-2500LF	25	245~961	1315.2	4,400	0.7	Rc 3/8	9.5	478	7.3	BPB-3	H5,H6	335321
GT-3800LX	39	490~1607	2082.3	4,100	0.7	Rc 1/2	12.7	520	9.8	BPB-4	H5	335373
GT-3800PX	39	490~1607	2063.0	4,100	0.7	Rc 1/2	12.7	270	8.9	BPB-4	H5	335389

•Air pressure: 0.6MPa •Overall length and Weight: Accessories not included. •Capacity is listed as instant reference and depends on operation conditions.

Machine Bolt Dia. **42mm** Models with the best balance between strength and lightness.

**No. GT-4200PF**

- 25.4 Pin-lock
- 4 Adjust dial

Machine Bolt Dia. **52mm** Models with the best balance between strength and lightness.

**No. GT-S55R**

- 25.4 Pin-lock
- 4 Adjust dial
- Noise reducer

Model No.	Capacity Ordinary Bolt Dia. (mm)	Torque Range (N·m)	Max. Torque (N·m)	No Load Speed (rpm)	Air Consumption (ml/min)	Hose Coupling	Air Hose Inner Dia.(mm)	Overall Length (mm)	Weight (kg)	Accessories	EDP No.	
										Plug	L-wrench	
GT-4200PF	42	343~1863	2250	2,500	1.0	Rc 3/8	12.7	297	11.5	BPB-3	H6	335388
GT-S55R	52	343~2450	3000	2,800	1.2	Rc 1/2	12.7	610	17.0	1/2"×1/2" (hose nipple)	H6	335391

•Air pressure: 0.6MPa •Overall length and Weight: Accessories not included. •Capacity is listed as instant reference and depends on operation conditions.

## One point

Grip shape specialized for working with tires

Designed so that the center of gravity comes to the center of the whole body with the socket and air hose attached.

Very recommended to large tire shops replacing many tires a day.

**No.GT-3800LX**