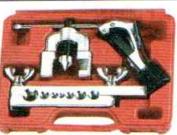
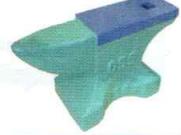


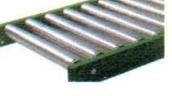
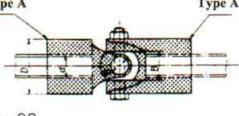
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Hand Tools

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1. Socket Wrenches

Llaves de Vaso ソケットレンチ 套筒扳手套装

These strong socket wrench sets are forged from chrome-vanadium steel, a special alloy chrome plated steel. These sets are very useful for engineers, mechanics and electricians.

Socket Wrench Set Summary

CODE	Drive mm	No. of Socket	Size	No. of Tools	TONE
61 01 01	6.35 (1/4")	12	5-12 mm & 3/16"- 3/8"	18's	146
	12.7 (1/2")	26	8-32 mm		
	19.0 (3/4")	9	26-41 mm		
61 01 07	6.35 (1/4")	8	5-13 mm	4's	1850M
61 01 08		12	5-12 mm & 3/16"- 3/8"	8's	1800
61 01 09 10	9.5 (3/8")	8	3/16"- 7/16"	4's	1850
		12	4-14 mm	7's	1800M
61 01 14 15 16 17 18	12.7 (1/2")	13	6-22 mm	4's	1560MS
		13	5.5-24 mm	4's	1570M
		13	6-22 mm	4's	1560M
		13	6-22 mm	8's	1500M
		17	6-22 mm	8's	1550M
61 01 19		13	1/4"-7/8"	8's	1500
61 01 20 21 22 23 41 24 25 26 27 28 29 30 31 32 33 42 43	19.0 (3/4")	26	8-32 mm	8's	170M
		10	8-24 mm	3's	800MISO
		13	8-27 mm	4's	-
		13	8-27 mm	5's	750M
		13	8-27 mm	5's	750MS
		13	8-32 mm	4's	770M
		15	8-32 mm	5's	260MISO
		18	8-32 mm	8's	160M
		15	9-32 mm	5's	260M
		15	9-32 mm	8's	-
		8	10-24 mm	2's	-
		8	10-26 mm	2's	-
		10	10-26 mm	3's	800M
		13	10-26 mm	4's	-
		13	10-30 mm	4's	713M
		13	10-32 mm	4's	760M
		13	10-32 mm	4's	760MS
61 01 34 35 36 37	25.4 (1")	10	3/8"-15/16"	3's	800
		13	3/8"-1"	4's	-
		13	3/8"-1"	5's	750
		15	7/16"-1-1/4"	5's	260
61 01 39		26	8-32 mm & 3/8"-1"	8's	-
61 01 40		24	10-27 mm & 7/16"-1"	8's	550
61 01 51 52 53 54 56	19.0 (3/4")	20	19-60 mm	6's	230M
		10	24-41 mm	2's	210M
		8	24-50 mm	4's	200MISO
		8	26-50 mm	4's	200M
		8	26-50 mm	4's	200MS
61 01 55		13	1-1/16"-2"	4's	200
61 01 61 62 63	25.4 (1")	8	32-65 mm	5's	240M
		12	32-85 mm	5's	250MISO
		12	35-85 mm	5's	250M

Socket Wrench Sets

Llaves de Vaso ソケットレンチセット 套筒扳手套装

Square Drive :

6.35 mm (1/4"),
12.7 mm (1/2"),
19.0 mm (3/4")



Contents

6.35 mm (1/4") Square Drive

12 Sockets (6 Point)	5, 5.5 (7/32"), 6, 7, 8 (5/16"), 9, 10, 11 (7/16"), 12, 3/16", 1/4", 3/8"
1 Ratchet Handle (reversible)	115 mm (4-1/2")
1 Nut Spinner Handle (hinged)	150 mm (6")
1 Sliding T Handle	105 mm (4")
1 Driver Handle	140 mm (5-1/2")
1 Extension Bar	50 mm (2")
1 Extension Bar	150 mm (6")
1 Universal Joint	35 mm (1-3/8")
1 Cross Bar	100 mm (4")

12.7 mm (1/2") Square Drive

26 Sockets (12 Point)	8 (5/16"), 9, 10, 11 (7/16"), 12, 13, 14, 14.5 (9/16"), 15 (19/32"), 16 (5/8"), 17 (21/32"), 17.5 (11/16"), 18, 19 (3/4"), 20 (25/32"), 21, 22, 23, 24 (15/16"), 25 (1"), 26, 27 (1-1/16"), 28, 29, 30 (1-3/16"), 32 (1-1/4")
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Extension Bar	250 mm (10")
1 Universal Joint	75 mm (3")
1 Cross Bar	250 mm (10")

19.0 mm (3/4") Square Drive

9 Sockets (12 Point)	26, 27, 29, 30, 32, 35, 36, 38, 41 mm
1 Ratchet Handle (reversible)	500 mm (20")
1 Extension Bar	200 mm (8")

Socket Wrench Sets

Llaves de Vaso ソケットレンチセット 套筒扳手套装

Square Drive 6.35 mm (1/4")

How to order: CODE

Socket wrench set, 6.35 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS, NUMBER of TOOLS

Unit Per Set

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 07	5-13	-	8	4
08	5-12	3/16-3/8	12	8
09	-	3/16-7/16	8	4
10	4-14	-	12	7

Contents

61 01 07

8 Sockets (6 Point)	5, 5.5, 6, 7, 8, 10, 12, 13 mm
1 Nut Spinner Handle (hinged)	150 mm (6")
1 Ratchet Handle (reversible)	115 mm (4-1/2")
1 Driver Handle	140 mm (5-1/2")
1 Cross Bar	100 mm (4")

61 01 08

12 Sockets (6 Point)	5, 5.5(7/32"), 6, 7, 8(5/16"), 9, 10, 11(7/16"), 12, 3/16", 1/4", 3/8"
1 Ratchet Handle (reversible)	115 mm (4-1/2")
1 Nut Spinner Handle (hinged)	150 mm (6")
1 Sliding T Handle	105 mm (4")
1 Driver Handle	140 mm (5-1/2")
1 Extension Bar	50 mm (2")
1 Extension Bar	150 mm (6")
1 Universal Joint	35 mm (1-3/8")
1 Cross Bar	100 mm (4")

61 01 09

8 Sockets (6 Point)	3/16", 7/32", 1/4", 9/32" 5/16", 11/32", 3/8", 7/16"
1 Ratchet Handle	115 mm (4-1/2")
1 Nut Spinner Handle (hinged)	150 mm (6")
1 Driver Handle	150 mm (6")
1 Cross Bar	100 mm (4")

61 01 10

12 Sockets (6 Point)	4, 5, 5.5, 6, 7, 8 9, 10, 11, 12, 13, 14 mm
1 Ratchet Handle	115 mm (4-1/2")
1 Nut Spinner Handle (hinged)	150 mm (6")
1 Sliding T Handle	105 mm (4")
1 Driver Handle	150 mm (6")
1 Extension Bar	50 mm (2")
1 Extension Bar	150 mm (6")
1 Universal Joint	40 mm (1-9/16")

Socket Wrench Sets

Llaves de Vaso ソケットレンチセット 套筒扳手套装

**Square Drive 9.5 mm (3/8")****How to order: CODE**

Socket wrench set, 9.5 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS , NUMBER of TOOLS

Unit Per Set

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 14	6-22	-	13	4
15	5.5-24	-	13	4
16	6-22	-	13	4
17	6-22	-	13	8
18	6-22	-	17	8
19	-	1/4-7/8	13	8

Contents

61 01 14

13 Sockets (6 Point)	6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22 mm
1 Ratchet Handle (hold Type)	185 mm (7-1/4")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Ball Joint	44 mm (1-3/4")

61 01 15

13 Sockets (6 Point)	5.5, 6, 7, 8 mm (12 Point)	10, 12, 13, 14, 17, 19, 21, 22, 24 mm
1 Ratchet Handle (hold Type)	185 mm (7-1/4")	
1 Extension Bar	75 mm (3")	
1 Extension Bar	150 mm (6")	
1 Ball Joint	44 mm (1-3/4")	

61 01 16

13 Sockets (6 Point)	6, 7, 8, 9 mm (12 Point)	10, 11, 12, 13, 14, 17, 19, 21, 22 mm
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1 Ratchet Handle (reversible)	190 mm (7-1/2")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Universal Joint	54 mm (2")

61 01 17

13 Sockets (6 Point)	6, 7, 8, 9 mm (12 Point)	10, 11, 12, 13, 14, 17, 19, 21, 22 mm
1 Nut Spinner Handle (hinged)	190 mm (7-1/2")	
1 Ratchet Handle (reversible)	190 mm (7-1/2")	
1 Sliding T Handle	200 mm (8")	
1 Speeder (Brace)	400 mm (16")	
1 Extension Bar	75 mm (3")	
1 Extension Bar	150 mm (6")	
1 Universal Joint	300 mm (12")	
	50 mm (2")	

61 01 18

17 Sockets (6 Point)	6, 7, 8 (5/16"), 9 mm (12 Point)	10, 11 (7/16"), 12, 13, 14, 14.5 (9/16"), 15 (19/32"), 16 (5/8"), 17 (21/32"), 17.5 (11/16"), 19 (3/4"), 21, 22 mm
1 Ratchet Handle (reversible)	190 mm (7-1/2")	
1 Nut Spinner Handle (hinged)	190 mm (7-1/2")	
1 Sliding T Handle	200 mm (8")	
1 Extension Bar	75 mm (3")	
1 Extension Bar	150 mm (6")	
1 Extension Bar	300 mm (12")	
1 Cross Bar	150 mm (6")	
1 Universal Joint	54 mm (2")	

61 01 19

13 Sockets (6 Point)	1/4", 5/16", 3/8" (12 Point)	7/16", 1/2", 17/32", 9/16", 19/32", 5/8", 11/16", 3/4", 13/16", 7/8"
1 Nut Spinner Handle (hinged)	190 mm (7-1/2")	
1 Ratchet Handle (reversible)	190 mm (7-1/2")	
1 Sliding T Handle	200 mm (8")	
1 Speeder (Brace)	400 mm (16")	
1 Extension Bar	75 mm (3")	
1 Extension Bar	150 mm (6")	
1 Extension Bar	300 mm (12")	
1 Universal Joint	50 mm (2")	

Socket Wrench Sets

Llaves de Vaso ソケットレンチセット 套筒扳手套装

**Square Drive 12.7 mm (1/2")****Socket Set Contents with Metric Sizes****How to order: CODE**

Socket wrench set, 12.7 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS, NUMBER of TOOLS

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 20	8-32	-	26	8
21	8-24	-	10	3
22	8-27	-	13	4
23	8-27	-	13	5
41	8-27	-	13	5
61 01 24	8-32	-	13	4
25	8-32	-	15	5
26	8-32	-	18	8
27	9-32	-	15	5
28	9-32	-	15	8
61 01 29	10-24	-	8	2
30	10-26	-	8	2
31	10-26	-	10	3
32	10-26	-	13	4
33	10-30	-	13	4
61 01 42	10-32	-	13	4
43	10-32	-	13	4

Contents

61 01 20

26 Sockets (12 Point)	8, 9, 10, 11, 12, 13, 14, 14.5, 15, 16, 17, 17.5, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	362 mm (14-1/4")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Extension Bar	250 mm (10")
1 Universal Joint	70.5 mm (3/4")
1 Cross Bar	250 mm (10")

61 01 21

10 Sockets (12 Point)	8, 10, 11, 12, 13, 14, 17, 19, 22, 24 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	150 mm (6")

61 01 22

13 Sockets (12 Point)	8, 10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27 mm
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")
1 Universal Joint	75 mm (3")

61 01 23

13 Sockets (12 Point)	10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27, 30 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

61 01 41

13 Sockets (6 Point)	8, 10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27 mm
1 Ratchet Handle (hold Type)	250 mm (10")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Ball Joint	60 mm (2-3/8")
1 Cross Bar	250 mm (10")

61 01 24

13 Sockets (12 Point)	8, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

61 01 25

15 Sockets (12 Point)	8, 10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27, 30, 32 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

61 01 26

18 Sockets (12 Point)	8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 26, 27, 29, 30, 32 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Universal Joint	250 mm (10")
1 Cross Bar	75 mm (3")
	250 mm (10")

61 01 27

15 Sockets (12 Point)	9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 32 mm
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

61 01 28

15 Sockets (12 Point)	9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 32 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Sliding T Handle	250 mm (10")
1 Offset Handle	275 mm (11")
1 Speed T Handle	300 mm (12")
1 Speeder	395 mm (16")
1 Extension Bar	150 mm (6")
1 Universal Joint	75 mm (3")

61 01 29

8 Sockets (12 Point)	10, 12, 13, 14, 17, 19, 22, 24 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Extension Bar	150 mm (6")

61 01 30

8 Sockets (12 Point)	10, 12, 14, 17, 19, 21, 23, 26 mm
1 Sliding T Handle	250 mm (10")
1 Extension Bar	150 mm (6")

61 01 31

10 Sockets (12 Point)	10, 12, 13, 14, 15, 17, 19, 21, 23, 26 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	150 mm (6")

61 01 32

13 Sockets (12 Point)	10, 11, 12, 13, 14, 14.5, 16, 17, 17.5, 19, 21, 23, 26 mm
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Universal Joint	75 mm (3")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

61 01 33

13 Sockets (12 Point)	10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27, 30 mm
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

61 01 42

13 Sockets (12 Point)	10, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27, 30, 32 mm
1 Ratchet Handle (hold Type)	250 mm (10")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Ball Joint	60 mm (2-3/8")

61 01 43

13 Sockets (6 Point)	10, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27, 30, 32 mm
1 Ratchet Handle (hold Type)	250 mm (10")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Ball Joint	60 mm (2-3/8")

Socket Set Contents with Inch Sizes**How to order: CODE**

Socket wrench set, 12.7 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS, NUMBER of TOOLS

Unit Per Set

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 34	-	3/8 - 15/16	10	3
35	-	3/8 - 1	13	4
36	-	3/8 - 1	13	5
37	-	7/16 - 1-1/4	15	5

Contents**61 01 34**

10 Sockets (12 Point)	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16"
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Sliding T Handle	250 mm (10")

61 01 35

13 Sockets (12 Point)	3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1"
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Universal Joint	75 mm (3")
1 Cross Bar	250 mm (10")

61 01 36

13 Sockets (12 Point)	3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1"
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	300 mm (12")
1 Extension Bar	150 mm (6")
1 Universal Joint	75 mm (3")
1 Cross Bar	250 mm (10")

61 01 37

15 Sockets (12 Point)	7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1, 1-1/16", 1-1/8", 1-1/4"
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	150 mm (6")
1 Cross Bar	250 mm (10")

Socket Set Contents in Metric & Inch Sizes**How to order: CODE**

Socket wrench set, 12.7 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS, NUMBER of TOOLS

Unit Per Set

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 39	8 - 32	3/8 - 1	26	8
40	10 - 26	7/16 - 1	24	8

Contents**61 01 39**

26 Sockets (12 Point)	8(5/16"), 9, 10, 11(7/16"), 12, 13, 14, 14.5(9/16"), 15(19/32"), 16(5/8"), 17(21/32"), 17.5(11/16"), 19(3/4"), 20(25/32"), 21, 22, 23, 24(15/16"), 26, 27(1-1/16"), 29, 30(1-3/16"), 32(1-1/4"), 3/8"(9.5), 1/2"(12.7), 1"(25.4)
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1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Extension Bar	250 mm (10")
1 Universal Joint	75 mm (3")
1 Cross Bar	250 mm (10")

61 01 40

24 Sockets (12 Point)	10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 26 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1"
1 Ratchet Handle (reversible)	270 mm (10-1/2")
1 Nut Spinner Handle (hinged)	380 mm (15")
1 Sliding T Handle	250 mm (10")
1 Extension Bar	75 mm (3")
1 Extension Bar	150 mm (6")
1 Extension Bar	250 mm (10")
1 Universal Joint	75 mm (3")
1 Cross Bar	250 mm (10")

Socket Wrench Sets

Llaves de Vaso ソケットレンチセット 套筒扳手套裝

Square Drive 19.0 mm (3/4")**How to order: CODE**

Socket wrench set, 19.0 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS, NUMBER of TOOLS

Unit Per Set

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 51	19-60	-	20	6
52	24-41	-	10	2
53	24-50	-	8	4
54	26-50	-	8	4
56	26-50	-	8	4
55	-	1-1/16-2	13	4

Contents

61 01 51

20 Sockets (12 Point)	19, 21, 22, 23, 24, 26, 27, 29, 30, 32, 35, 36, 38, 41, 46, 50, 54, 55, 58, 60 mm
1 Ratchet Handle (reversible)	500 mm (20")
1 Nut Spinner Handle (hinged)	500 mm (20")
1 Sliding T Handle	500 mm (20")
1 Extension Bar	200 mm (8")
1 Extension Bar	400 mm (16")
1 Universal Joint	97 mm (3-7/8")

61 01 52

10 Sockets (12 Point)	24, 26, 27, 29, 30, 32, 35, 36, 38, 41 mm
1 Sliding T Handle	500 mm (20")
1 Extension Bar	200 mm (8")

61 01 53

8 Sockets (12 Point)	24, 27, 30, 32, 36, 41, 46, 50 mm
1 Ratchet Handle (reversible)	500 mm (20")
1 Sliding T Handle	500 mm (20")
1 Extension Bar	200 mm (8")
1 Extension Bar	400 mm (16")

61 01 54

8 Sockets (12 Point)	26, 29, 32, 35, 38, 41, 46, 50 mm
1 Ratchet Handle (reversible)	500 mm (20")
1 Sliding T Handle	500 mm (20")
1 Extension Bar	200 mm (8")
1 Extension Bar	400 mm (16")

61 01 56

8 Sockets (6 Point)	26, 29, 32, 35, 38, 41, 46, 50 mm
1 Ratchet Handle	500 mm (20")
1 Sliding T Handle	500 mm (20")
1 Extension Bar	200 mm (8")
1 Extension Bar	400 mm (16")

61 01 55

13 Sockets (12 Point)	1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", 1-5/8", 1-3/4", 1-13/16", 1-7/8", 2"
1 Ratchet Handle (reversible)	500 mm (20")
1 Sliding T Handle	500 mm (20")
1 Extension Bar	200 mm (8")
1 Extension Bar	400 mm (16")

Socket Wrench Sets

Llaves de Vaso ソケットレンチセット 套筒扳手套装

Square Drive 25.4 mm (1")

How to order: CODE

Socket wrench set, 25.4 mm sq. drive, SOCKET SIZE, NUMBER of SOCKETS, NUMBER of TOOLS

25.4
mm
1"

Unit Per Set

CODE	Socket Size		Quantity of Sockets	Quantity of Tools
	mm	Inch		
61 01 61	32-65	-	8	5
62	32-85	-	12	5
63	32-85	-	12	5

Contents

61 01 61

8 Sockets (12 Point)	32, 36, 41, 46, 50, 55, 60, 65 mm
1 Ratchet Head	165 mm (6-1/2")
1 Sliding Head	80 mm (3-1/8")
1 Extension Bar	150 mm (6")
1 Extension Bar	400 mm (16")
1 Cross Bar	660 mm (26")

61 01 62

12 Sockets (12 Point)	32, 36, 41, 46, 50, 55, 60, 65, 70, 75, 80, 85 mm
1 Ratchet Head	165 mm (6-1/2")
1 Sliding Head	80 mm (3-1/8")
1 Extension Bar	150 mm (6")
1 Extension Bar	400 mm (16")
1 Cross Bar	660 mm (26")

61 01 63

12 Sockets (12 Point)	35, 38, 41, 46, 50, 54, 58, 63, 67, 71, 77, 85 mm
1 Ratchet Head	165 mm (6-1/2")
1 Sliding Head	80 mm (3-1/8")
1 Extension Bar	150 mm (6")
1 Extension Bar	400 mm (16")
1 Cross Bar	660 mm (26")

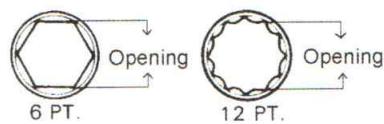
Socket Wrenches

Llaves de Vaso ソケットレンチ 套筒扳手套装

These socket wrenches are made of a special chromed alloy steel. The socket walls are made thin to make it easier to fit to bolts or nuts that are set in narrow, difficult to reach spots. The nominal sizes of the sockets are determined by the socket opening, not the bolt size.

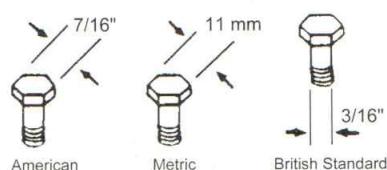


When ordering, please indicate the size of the square drive opening at the back of the socket : 6.35 mm (1/4"), 9.5 mm (3/8"), 12.7 mm (1/2"), 19.0 mm (3/4"), 25.4 mm (1"). Also specify the number of points in the socket and the size of the opening. The following illustrations show how to measure the opening of the socket sizes properly.



Careful When Ordering!!

American and Metric wrench sizes are taken across the flats of the bolt head, British Standard size is taken from the outside diameter of threads.



How to order: CODE

Socket wrench, SQUARE DRIVE mm or inch,
OPENING SIZE mm, TYPE OF OPENING POINT

6.35 mm (1/4") Drive 6 Point

CODE	Opening		CODE	Opening		Overall Length mm	Unit Per Pcs.	
	mm	inch		mm	inch		mm	inch
61 01 81	5	-	22	61 01 90	13	-	22.5	
82	5.5	7/32	22	91	14	-	22.5	
83	6	-	22	92	-	3/16	22	
84	7	9/32	22	93	-	1/4	22	
85	8	5/16	22	94	-	9/32	22	
61 01 86	9	11/32	22	61 01 95	-	11/32	22	
87	10	-	22.5	96	-	3/8	22.5	
88	11	7/16	22.5					
89	12	15/32	22.5					

**9.5 mm (3/8")
Drive 6 Point****9.5 mm (3/8")
Drive 12 Point**

CODE	Opening		CODE	Opening		Overall Length mm	Unit Per Pcs.	
	mm	inch		mm	inch		mm	inch
61 02 01	6	-	27	61 02 21	10	-	29	
02	7	9/32	27	22	11	7/16	29	
03	8	5/16	27	23	12	15/32	29	
04	9	11/32	29	24	13	-	29	
05	10	-	29	25	14	-	31.5	
61 02 06	11	7/16	29	61 02 26	14.5	-	31.5	
07	12	15/32	29	27	15	19/32	31.5	
08	13	-	29	28	16	5/8	31.5	
09	14	-	31.5	29	17	21/32	31.5	
10	17	21/32	31.5	30	17.5	11/16	31.5	
61 02 11	19	3/4	35	61 02 31	19	3/4	35	
12	21	13/16	35	32	21	13/16	35	
13	22	-	35	33	22	-	35	
14	-	1/4	27	34	23	-	35	
15	-	9/32	27	35	-	1/2	31	
61 02 16	-	11/32	29	61 02 36	-	17/32	31.5	
17	-	3/8	29	37	-	13/16	35	
				38	-	7/8	35	

**12.7 mm (1/2")
Drive 6 Point****12.7 mm (1/2")
Drive 12 Point**

CODE	Opening		CODE	Opening		Overall Length mm	Unit Per Pcs.	
	mm	inch		mm	inch		mm	inch
61 02 41	8	5/16	35	61 02 66	8	5/16	36	
42	9	11/32	35	67	9	11/32	36	
43	10	-	35	68	10	-	36	
44	11	7/16	35	69	11	7/16	36	
45	12	15/32	35	70	12	15/32	36	
61 02 46	13	-	35	61 02 71	13	-	36	
47	14	-	35	72	14	-	36	
48	15	19/32	35	73	14.5	-	36	
49	16	5/8	36	74	15	19/32	36	
50	17	21/32	37	75	16	5/8	36	
61 02 51	18	-	37	61 02 76	17	21/32	38	
52	19	3/4	38	77	17.5	11/16	38	
53	20	25/32	38	78	18	-	38	
54	21	13/16	39	79	19	3/4	38	
55	22	-	40	80	20	25/32	38	
61 02 56	23	-	41	61 02 81	21	13/16	38	
57	24	-	41	82	22	-	40	
58	26	-	44	83	23	-	40	
59	27	1-1/16	44	84	24	15/16	40	
60	28	-	44	85	26	-	42.5	

(to be continued)

						Unit Per Pcs.		
61 02 61	29	1-1/8	44	61 02 86	27	1-1/16	42.5	
62	30	-	47	87	28	-	43	
63	32	1-1/4	47	88	29	1-1/8	44	
				89	30	-	46	
				90	32	1-1/4	46	
				61 02 91	33	-	46	
				92	-	11/32	35	
				93	-	3/8	35	
				94	-	1/2	35	
				95	-	13/16	39	
				61 02 96	-	7/8	40	
				97	-	1	44	
				98	-	1-1/8	44	

Careful When Ordering!!

American and Metric wrench sizes are taken across the flats of the bolt head, British Standard size is taken from the outside diameter of the threads.

**19 mm (3/4")
Drive 6 Point****19 mm (3/4")
Drive 12 Point**

CODE	Opening		CODE	Opening		Overall Length mm	Unit Per Pcs.	
	mm	inch		mm	inch		mm	inch
61 03 01	19	3/4	50	61 03 21	19	3/4	50	
02	21	13/16	50	20	20	-	47.5	
03	22	-	50	22	21	13/16	50	
04	23	-	50	23	22	-	50	
05	24	-	50	24	23	-	50	
61 03 06	26	-	53	61 03 25	24	-	50	
07	27	1-1/16	53	26	26	-	53	
08	29	1-1/8	56	27	27	1-1/16	53	
09	30	-	56	28	29	1-1/8	56	
10	32	1-1/4	56	29	30	1-3/16	56	
61 03 11	35	1-3/8	58	61 03 30	32	1-1/4	56	
12	36	-	58	31	35	1-3/8	58	
13	38	1-1/2	60	32	36	-	58	
14	41	-	63	33	38	1-1/2	60	
15	46	1-3/16	65	34	41	-	63	
61 03 16	50	-	70	61 03 35	46	1-3/16	65	
				36	50	-	58	
				37	54	2-1/8	58	
				38	55	-	60	
				39	58	-	63	
61 03 40	60	-					65	
41	-	1-5/16					56	
42	-	1-7/16					58	
43	-	1-5/8					63	
44	-	1-3/4					65	
61 03 45	-	1-7/8					67	
46	-	2					70	

25.4 mm (1") Drive 12 Point

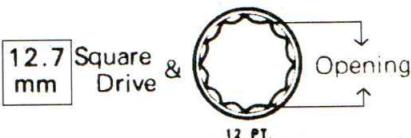
CODE	Opening		CODE	Opening		Overall Length mm	Unit Per Pcs.	
	mm	inch		mm	inch		mm	inch
61 03 51	32	1-1/4	67	61 03 61	60	-	90	
52	35	1-3/8	67	62	63	-	95	
53	36	-	67	63	65	-	95	
54	38	1-1/2	70	64	67	-	100	
55	41	-	73	65	70	-	105	
61 03 56	46	1-13/16	78	61 03 66	71	-	105	
57	50	-	82	67	75	-	110	
58	54	2-1/8	85	68	77	-	110	
59	55	-	85	69	80	-	115	
60	58	-	88	70	85	-	120	

Deep Socket Wrenches

Llaves de Vaso Largo

ディープソケットレンチ 深套筒扳手

Deep sockets made of a special alloy steel. The socket walls are made thin for easy access to nuts and bolts set in narrow spots. The nominal size of the socket is determined by measuring the opening of the socket, not the bolt size. Only supplied in a 12.7 mm sized square drive attachment. 12 point sockets and sockets in metric sizes are available. A hole is located at the top of the socket for use with a cross bar.



12.7 mm (1/2") Drive 12 Point

Unit Per Pcs.

CODE	Opening		CODE	Opening		Overall Length mm	
	mm	inch		mm	inch		
61 03 76	10	-	83	61 03 84	22	-	83
77	11	7/16	83	85	23	-	83
78	12	15/32	83	86	24	-	83
79	13	-	83	87	26	-	83
80	14	-	83	88	27	1-1/16	83
61 03 81	17	21/32	83	61 03 89	29	1-1/8	83
82	19	3/4	83	90	30	-	83
83	21	13/16	83	91	32	1-1/4	83

Ratchet Handles

for Socket Wrenches

Carracaçpara Llaves de Vaso ラチェットハンドル 轴轮手柄

6.35 mm (1/4")-25.4mm (1")

Drop forged from selected steel with 24 teeth in the ratcheting-gear instead of the usual 16 to 20. Turning shift lever reverses action instantly.



CODE	Square Drive	Male or Female	Overall Length mm	Weight grm
61 04 01	6.35 mm	Male	115	100
02		Female	115	80
61 04 03	9.5 mm	Male	190	280
04		Female	190	250
61 04 05	12.7 mm	Male	270	490
06		Female	270	420
61 04 07	19.0 mm	Male	500	1,925
08		Female	500	1,780
61 04 09	25.4 mm	Male	755	4,500
10		Male Head	165	1,300

Nut Spinner Handles

for Socket Wrenches

Mango Llave de Vaso

ナットスピナーハンドル 套筒扳手用绞装手柄

Made from selected alloy steel. Flexible head, knurled grip and a cross hole in the end for use with sliding bars.



Unit Per Pcs.

CODE	Square Drive	Overall Length mm	Weight grm
61 04 15	6.35 (1/4")	150	100
16	9.5 (3/8")	250	365
17	12.7 (1/2")	300	690
18	12.7 (1/2")	380	820
19	19.09 (3/4")	500	1,550

Sliding T Handles

for Socket Wrenches

Mango Llave de Vaso Corredizo

スライディング T ハンドル 滑动 T 形杆

Made from selected alloy steel. Specify only the size of the square drive fitting of the sockets to be used.



Unit Per Pcs.

CODE	Square Drive	Description	Overall Length mm	Weight grm
61 04 21	6.35 (1/4")		105	60
22	9.5 (3/8")		200	190
23	12.7 (1/2")	Adaptor & Handle Bars	250	320
24	19.0 (3/4")		550	1,765
25	25.4 (1")		660	3,820

61

Hand Tools

Cross Bar Handles

for Socket Wrenches

Mango Llave de Vaso

クロスバー ハンドル 横杆把手

Cross bars or sliding handle for use with the nut spinner and the deep sockets.



Unit Per Pcs.

CODE	For	Overall Length mm	Weight grm
61 04 29	6.35 mm (1/4") Square Drive	100	25
30	9.5 mm (3/8") "	150	85
31	12.7 mm (1/2") "	250	225
32	19.0 mm (3/4") "	330	500
33	25.4 mm (1") "	660	3,200

Offset Handles

for Socket Wrenches

Mago Acodado, Llaves de Vaso

オフセットハンドル 套筒扳助手柄



Made from selected alloy steel with a nonrevolving knurled grip.

Unit Per Pcs.

CODE	Square Drive	Overall Length mm	Weight grm
61 04 36	12.7 mm (1/2")	275	465
37	19.0 mm (3/4")	313	1,110

Speed T Handles for Socket Wrenches

Mago T, Llave de Vaso スピード T ハンドル T型套筒扳手

12.7 mm (1/2") square drive, length 300 mm. Made from selected alloy steel with a revolving knurled grip in the middle.



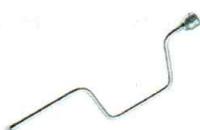
61 04 41	Speed T Handle 12.7 mm sq drive x L 300 mm	Pc.
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Speeder Handles for Socket Wrenches

Berbiqui Llave de Vaso

スピーダーハンドル 滑动 T型手柄

Selected alloy steel with knurled revolving grips.



CODE	Square Drive	Overall Length mm	Weight grm	Unit Per Pcs.
61 04 42	9.5 mm (3/8")	395	510	
43	12.7 mm (1/2")	395	650	

Extension Driver Handles for Socket Wrenches

Atornillador para Llave de Vaso

ドライバー型ハンドル 扩展驱动程序句柄的套筒扳手

Driver has a plastic grip with a 6.35 mm (1/4") square drive fitting. Total length : 140 mm.



61 04 46	Driver handle, extension 6.35 mm sq drive x L 140 mm	Pc.
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Extension Bars for Socket Wrenches

Barra de Extensión para Llave de Vaso

エキステンションバー 长杆的套筒扳手延长杆

Made from selected alloy steel. Has a square drive fitting for attaching a socket at one end and a receptacle fitting for attaching the ratchet handle at the other.



Unit Per Pcs.

CODE	Square Drive	Overall Length mm	Weight grm
61 04 48	6.35 mm (1/4")	50	30
49		150	70
61 04 50	9.5 mm (3/8")	75	70
51		150	120
52		300	225
61 04 53	12.7 mm (1/2")	75	135
54		150	225
55		250	350
61 04 56	19.0 mm (3/4")	200	800
57		400	1,570
61 04 58	25.4 mm (1")	150	870
59		400	1,820
61 04 60	25.4 mm (1")	250	1,250

Universal Joints for Socket Wrenches

Articulación para Llave de Vaso

ユニバーサルジョイント 万向节



Made from selected alloy steel with approximately a 140° operating range.

Unit Per Pcs.

CODE	Square Drive	Overall Length mm	Weight grm
61 04 65	6.35 mm (1/4")	35	30
66	9.5 mm (3/8")	54	65
67	12.7 mm (1/2")	75	145
68	19.0 mm (3/4")	97	465
69	25.4 mm (1")	128	890

Socket Adapters for Socket Wrenches

Adaptadores para Llaves de Vaso

ソケットアダプター 套筒接头



Adapters used to fit ratchet handles to sockets which have larger or smaller square drive fittings.

Unit Per Pcs.

CODE	Male SQ Drive	x	Female SQ Drive	Overall Length mm	Weight grm
61 04 71	9.5 (3/8")	x	6.35 (1/4")	23	15
72	6.35 (1/4")	x	9.5 (3/8")	25	25
73	12.7 (1/2")	x	9.5 (3/8")	32	40
74	9.5 (3/8")	x	12.7 (1/2")	33	50
75	19.0 (3/4")	x	12.7 (1/2")	42	115
61 04 76	12.7 (1/2")	x	19.0 (3/4")	46	170
77	25.4 (1")	x	19.0 (3/4")	58	340
78	19.0 (3/4")	x	25.4 (1")	63	420
79	38.1 (1-1/2")	x	25.4 (1")	77	780

Driver Sockets for Socket Wrenches

Puntas para Llaves de Vasos

ドライバーソケット 驱动套筒



These attachments allow you to drive screws with socket wrenches. Only 12.7 mm (1/2") square drive sockets available.

How to order: CODE

Driver socket for socket wrench, 12.7 mm square drive x BLADE WIDTH mm

Unit Per Pcs.

CODE	Square Drive	Blade Width		Weight grm
		mm	Inch	
61 04 81	12.7 mm (1/2")	19	3/4	70
82	12.7 mm (1/2")	24	1	95
83	12.7 mm (1/2")	30	13/16	110

Stud Remover Wrenches Roller Type

Extractor de Espárragos

スタッドボルトリムーバー 滚筒式拆螺栓板手

This roller type stud bolt remover can be used for bolts of 8 – 19 mm. If used in connection with a 12.7 mm (1/2") square drive ratchet wrench, the work can be carried out more quickly and easily.



61 04 86	Wrench stud remover 1/2 sq. drive for bolt size 8-19 mm	Pc.
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Power Wrenches

Llaves Crraca パワーレンチ 动力扳手

Best for loosening tight bolts and nuts without effort. Even stubborn (frozen-jammed-corroded) bolts and nuts loosen in an easy and quick way. Tightens in the same easy way.



Features

- Power input is increased up to 4 times.
- Hand operated.
- Compact design for work in close quarters.

Advantages

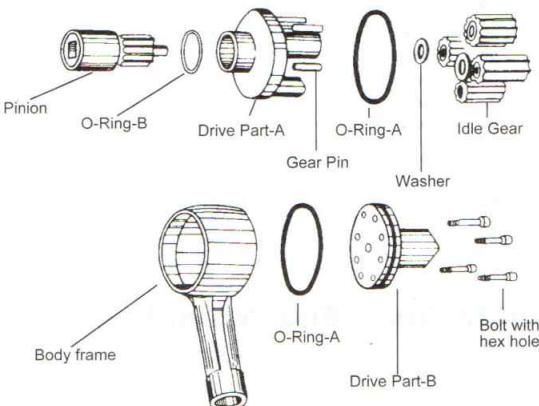
- No air or electric power is required.
- Portable, can be used anywhere.
- Easy to operate.
- Can be used with 25.4 mm drive sockets from any manufacturer.

How to order: CODE

Power wrench, POWER INPUT SQ. DRIVE x POWER OUTPUT SQ. DRIVE

Description		61 04 88	61 04 89	Unit Per Set
Square Drive	Input Power	19.0 mm (3/4")	12.7 mm (1/2")	
	Output Power	25.4 mm (1")	19.0 mm (3/4")	
Ratchet Overall Length		121 mm	86 mm	
Power	Input	850 N.m	400 N.m	
	Output	2,550 N.m	1,200 N.m	
Handle Size		26 x 590 mm	19 x 436 mm	
Metal Case Size		625 x 190 x 120 mm	505 x 120 x 100 mm	
Weight		7.2 kg	2.5 kg	

Power Wrench Spare Parts



2. Wrenches/Spanners

Double Open End Wrench Sets

Double Head 15° Angle

Juegos de Llaves Planas/Ángulo de 15°

両口スパナー 6 丁組 扁角双头开口板手



Chrome vanadium steel with head polished and clipped into a metal clip. Set consists of 6 wrenches with the opening size stamped at both ends.

How to order: CODE

Wrench set, double open end, SIZE (MINIMUM to MAXIMUM) mm, 6's/set

CODE	Contents & Opening	Unit Per Set
61 05 01	mm.....6x7, 8x9, 10x12, 11x13, 12x14, 14x17, 6's	
61 05 02	mm.....8x9, 10x12, 12x14, 14x17, 17x19, 21x23, 6's	
61 05 03	mm.....8x9, 10x12, 12x14, 14x17, 19x21, 23x26, 6's	
61 05 04	mm ISO6x7, 8x10, 11x13, 12x14, 17x19, 22x24, 6's	
61 05 05	inch5/16x3/8, 13/32x7/16, 1/2x9/16, 19/32x5/8, 11/16x3/4, 25/32x7/8, 6's	
61 05 06	inch3/8x7/16, 1/2x9/16, 19/32x5/8, 11/16x3/4, 25/32x7/8, 15/16x1, 6's	

Double Open End Wrench Sets

Long Type 15° Angle

Juegos de Llaves Planas/Ángulo de 15° Tipo Largo

両口スパナー 6 丁組ロングタイプ 长扳手组件



A long wrench specially designed for hard-to-reach nuts. There is a different sized opening at each wrench head.

How to order: CODE

Wrench set, double open end, long handle, SIZE (MINIMUM to MAXIMUM), 6's/set

CODE	Contents & Opening	Unit Per Set
61 05 10	mm ... 8x9, 10x12, 12x14, 14x17, 17x19, 21x23, 6's	
61 05 11	mm ... 8x9, 10x12, 12x14, 14x17, 19x21, 23x26, 6's	
61 05 12	mm ... 6x7, 8x9, 10x12, 11x13, 12x14, 14x17, 6's	
61 05 13	mm ... 6x7, 8x10, 11x13, 12x14, 17x19, 22x24, 6's	

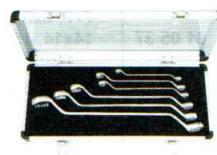
12 Point Double Offset Wrench Sets

45° Double Offset

Juegos de Llaves Planas/Ángulo de 45° Doble Acodada

45 度オフセット両口メガネセット

45 度扁頭 12 角双头扳手



For use in awkward places and connecting rods, main bearings, cylinder head and spring clips, etc.

How to order: CODE

Wrench set, 12 point double offset, SIZE (MINIMUM to MAXIMUM), 6's/set

Unit Per Set

CODE	Contents & Opening	Q'ty
61 05 16	mm Opening ... 10 x 12, 12 x 14, 14 x 17, 17 x 19, 19 x 21, 23 x 26 in Metal Case	6's
61 05 17	mm Opening ... 8 x 10, 11 x 13, 12 x 14, 14 x 17, 19 x 22, 24 x 27 in Metal Case	6's
61 05 18	mm Opening ... 10 x 12, 12 x 14, 14 x 17, 17 x 19, 19 x 21, 23 x 26 in Metal Case, Long Handle	6's
61 05 19	mm Opening ... 8 x 10, 11 x 13, 12 x 14, 14 x 17, 19 x 22, 24 x 27 in Metal Case, Long Handle	6's
61 05 20	mm Opening ... 10 x 12, 14 x 17, 19 x 21, in Vinyl Bag, Long Handle	3's
61 05 21	mm Opening ... 8 x 9, 10 x 12, 11 x 13, 14 x 17, 19 x 21, 22 x 24, 23 x 26 24 x 27 in Metal Case, Long Handle	8's
61 05 26	inch Opening ... 3/8 x 7/16, 1/2 x 9/16, 5/8 x 11/16, 3/4 x 25/32, 13/16 x 7/8, 15/16 x 1 in Metal Case	6's
61 05 27	inch Opening ... 3/8 x 7/16, 1/2 x 9/16, 5/8 x 11/16 in Vinyl Bag, Long Handle	3's

Open & 12 Point Box Wrench Sets**15° Angle Open End-12 Point Opening Box End**

Juegos de Llaves Combinadas

片口片ロスパナーセット 开口和12角筒扳手

**How to order: CODE**

Wrench set, open & 12 point, SIZE (MINIMUM to MAXIMUM), NUMBER of WRENCHES/set

Unit Per Set

CODE	Contents & Opening mm	Q'ty
61 05 31	8x8, 10x10, 12x12, 13x13, 14x14, 17x17, 19x19, 21x21, 22x22, 24x24	10's
61 05 32	10x10, 11x11, 12x12, 13x13, 14x14, 17x17	6's
61 05 33	6x6, 7x7, 8x8, 9x9, 10x10, 11x11, 12x12, 13x13, 14x14, 17x17, 19x19	11's
61 05 34	8x8, 10x10, 12x12, 13x13, 14x14, 17x17, 19x19, 22x22, 24x24, 27x27, 30x30, 32x32	12's
61 05 35	8x8, 9x9, 10x10, 11x11, 12x12, 13x13, 14x14, 17x17, 19x19, 22x22, 24x24, 27x27, 30x30, 32x32	14's
61 05 36	6x6, 7x7, 8x8, 9x9, 10x10, 11x11, 12x12, 13x13, 14x14, 17x17, 19x19, 22x22, 24x24, 27x27, 30x30, 32x32	16's
61 05 37	7x7, 8x8, 9x9, 10x10, 11x11, 12x12, 13x13, 14x14, 15x15, 16x16, 17x17, 18x18, 19x19, 20x20, 21x21, 22x22, 23x23, 24x24, 25x25, 26x26, 27x27, 28x28, 29x29, 30x30, 32x32	18's
61 05 38	6x6, 7x7, 8x8, 9x9, 10x10, 11x11, 12x12, 13x13, 14x14, 15x15, 16x16, 17x17, 18x18, 19x19, 20x20, 21x21, 22x22, 23x23, 24x24, 25x25, 26x26, 27x27, 28x28, 29x29, 30x30, 32x32	26's

Double Open End Wrenches**15° Angle**

Llaves Planas/Ángulo de 15° 両口スパナー 双头开放式扳手



Jaws are long, thin, and pointed. With the 15° angle of the openings, a hex nut can be rotated completely by turning the wrench in a range of only 30°. Forged from selected alloy steel, heat treated and finished in industrial black with the heads buffed bright.

CODE	Opening mm	Overall Length	For Bolt Size	
			Metric	Whitworth
61 05 51	5.5x7	100 mm	M3 x M4	-
	52	100	M3.5 x M4	-
	53	105	M3.5 x M5	-
	54	105	M4 x M5	-
	55	110	M5 x -	-
61 05 56	8x10	120 mm	M5 x M6	-
	57	120	M5 x M7	-
	58	120	- x M6	-
	59	130	M6 x M7	-
	60	130	M6 x -	W3/16 x W1/4
61 05 61	10x13	140 mm	M6 x M8	-
	62	140	M6 x -	W3/16 x W5/16
	63	140	M7 x -	- x W1/4
	64	140	M7 x -	-
	49	140	-	W1/4 x -
61 05 65	12x14	140 mm	-	W1/4 x W5/16
	66	165	- x M10	-
	50	165	-	W5/16 x -
	67	165	- x M10	W5/16 x W3/8
	68	180	M10 x M12	W3/8 x W7/16
61 05 69	17x21	200 mm	M10 x -	W3/8 x W1/2
	70	210	M12 x -	W7/16 x W1/2
	71	210	M12 x M14	-
	72	220	M12 x M16	-
	73	220	-	W1/2 x W9/16
61 05 74	21x26	230 mm	-	W1/2 x W5/8
	75	220	M14 x M16	-
	76	240	-	W9/16 x W5/8
	77	240	M16 x M18	-
	78	270	M16 x M20	-
61 05 79	26x29	270 mm	-	W5/8 x W11/16
	80	270	- x M22	W5/8 x W3/4
	81	270	M18 x M20	-
	82	280	- x M22	W11/16 x W3/4
	83	280	M20 x M22	-
61 05 84	32x35	310 mm	M22 x -	W3/4 x W7/8
	85	310	M22 x M24	-
	86	330	M22 x M27	-
	87	350	- x M27	W7/8 x W1
	88	350	M24 x M27	-
61 05 89	41x46	410 mm	M27 x M30	W1 x W1-1/8
	90	410	M27 x M33	W1 x W1-1/4
	91	430	M30 x M33	W1-1/8 x W1-1/4
	92	430	M33 x M36	W1-1/4 x W1-3/8
	93	430	M33 x M36	W1-1/4 x -
61 05 94	50x58	475 mm	M33 x M39	W1-1/4 x W1-1/2
	95	475	M33 x M39	W1-1/4 x -
	96	475	M36 x M39	W1-3/8 x W1-1/2
	97	475	M36 x M39	-

Single Open End Wrenches**15° Angle**

Llaves Planas Simple/Ángulo de 15° 片口スパナー 单头开放式扳手

单头开放式扳手

Milled surface and smoothed edge, opening size is stamped on the head. Hardened and finished in industrial black, head has a polished finish. For check-jam-lock nuts, etc.



Unit Per Pcs.

CODE	Opening mm	Overall Length	For Bolt Size		Unit Per Pcs.
			Metric	Whitworth	
61 06 01	5.5	82 mm	M 3	-	
02	6	82	M 3.5	-	
03	7	92	M 4	-	
04	8	92	M 5	-	
05	9	105	-	-	
61 06 06	10	105 mm	M 6	W 3/16	
07	11	122	M 7	-	
08	12	122	-	W 1/4	
09	13	135	M 8	-	
10	14	140	-	W 5/16	
61 06 11	17	165 mm	M 10	W 3/8	
12	19	180	M 12	W 7/16	
13	21	200	-	W 1/2	
14	22	210	M 14	-	
15	23	210	-	W 9/16	
61 06 16	24	220 mm	M 16	-	
17	26	245	-	W 5/8	
18	27	245	M 18	-	
19	29	270	-	W 11/16	
20	30	270	M 20	-	
61 06 21	32	285 mm	M 22	W 3/4	
22	35	315	-	W 7/8	
23	36	315	M 24	-	
24	38	320	-	W 15/16	
25	41	360	M 27	W 1	
61 06 26	46	400 mm	M 30	W 1-1/8	
27	50	430	M 33	W 1-1/4	
28	54	470	-	W 1-3/8	
29	55	470	M 36	-	
30	58	510	-	W 1-1/2	
61 06 31	60	510 mm	M 39	-	
32	63	550	M 42	W 1-5/8	
33	65	550	-	-	
34	67	575	M 47	W 1-3/4	
35	70	575	-	-	
61 06 36	71	575 mm	M 48	W 1-7/8	
37	75	645	-	-	
38	77	645	M 52	W 2	
39	80	645	M 54	-	
40	85	715	M 56	W 2-1/4	
61 06 41	90	715 mm	-	-	
42	95	770	M 64	W 2-1/2	
43	100	770	-	-	
44	105	825	M 72	W 2-3/4	
45	110	825	M 76	W 3	
61 06 46	115	870 mm	-	-	
47	120	870	M 85	-	

12 Point Single End Wrenches 40° Bent

Llaves Estrella Simple/40° Curvada (Una Boca)
片目スパナ 十二角单头梅花扳手 (40° 弯角)

Made of selected alloy steel with the opening size stamped on the head. Hardened and chrome plate finished. Each head is bent 40° for easier leveraging.



CODE	Opening mm	Overall Length	For Bolt Size		Unit Per Pcs.
			Metric	Whitworth	
61 06 51	10	165 mm	M 6	-	
52	11	165	M 7	-	
53	12	165	-	W 1/4	
54	13	186	M 8	-	
55	14	186	-	W 5/16	
61 06 56	17	203 mm	M 10	W 3/8	
95	18	-	-	-	
57	19	215	M 12	W 7/16	
58	21	232	-	W 1/2	
59	22	232	M 14	-	
61 06 60	23	243 mm	-	W 9/16	
61	24	248	M 16	-	
62	26	265	-	W 5/8	
63	27	265	M 18	-	
64	29	282	-	W 11/16	
61 06 65	30	282 mm	M 20	-	
66	32	289	M 22	W 3/4	
67	35	311	-	W 7/8	
68	36	311	M 24	-	
69	38	345	-	W 15/16	
61 06 70	41	345 mm	M 27	W 1	
71	46	378	M 30	W 1-1/8	
72	50	412	M 33	W 1-1/4	
73	54	450	-	W 1-3/8	
74	55	450	M 36	-	
61 06 75	58	484 mm	-	W 1-1/2	
76	60	484	M 39	-	
77	63	522	M 42	W 1-5/8	
78	65	522	-	-	
79	67	552	M 45	W 1-3/4	
61 06 80	70	552 mm	-	-	
81	71	552	M 48	W 1-7/8	
82	75	616	-	-	
83	77	616	M 52	W 2	
84	80	663	M 54	-	
61 06 85	85	663 mm	M 56	W 2-1/4	
86	90	704	-	-	
87	95	704	M 64	W 2-1/2	
88	100	704	-	-	
89	105	740	M 72	W 2-3/4	
61 06 90	110	740 mm	M 76	W 3	
91	115	776	-	-	
92	120	776	M 85	-	
93	125	812	-	-	
94	130	812	M 90	-	

12 Point Double End Wrenches

Both Heads 40° Bent

Llaves Estrella/40° Curvada

S型両口メガネスパンナ

十二角双头扳手

For use in close quarters. Thin head walls permit use where the clearance is limited. Made of selected alloy steel, heat treated and chrome plated. Opening sizes are stamped on each neck.



CODE	Opening mm	Overall Length	Unit Per Pc.	
			Metric	Whitworth
61 07 01	10 x 11	179 mm	M6 x -	-
02	10 x 12	179	M6 x -	- x W1/4
03	10 x 13	179	M6 x M8	-
04	11 x 13	179	- x M8	-
05	12 x 14	186	-	- x W5/16
61 07 06	13 x 17	210 mm	M8 x M10	- x W3/8
07	14 x 17	210	- x M10	- x W3/8
08	17 x 19	230	M10 x M12	W3/8 x W7/16
09	17 x 21	230	M10 x -	W3/8 x W1/2
10	19 x 21	262	M12 x -	W7/16 x W1/2
61 07 11	19 x 22	262 mm	M12 x M14	W7/16 x -
12	19 x 24	286	M12 x M16	W7/16 x -
13	21 x 23	286	-	W1/2 x W9/16
14	21 x 26	286	-	W1/2 x W5/8
15	22 x 24	286	M14 x M16	-
61 07 16	23 x 26	303 mm	-	W9/16 x W5/8
17	24 x 27	303	M16 x M18	-
18	24 x 30	324	M16 x M20	-
19	26 x 32	324	- x M22	W5/8 x W3/4
20	27 x 30	324	M18 x M20	-

12 Point Double Offset Wrenches

45° Double Offset

Llaves Estrella/40° Doble Curvada

45 度オフセット両口メガネスパナー 十二角双头扁颈板手

Adapted to work in close quarters. Drop forged from selected alloy steel. Heat treated and chrome plated with bright heads. Different opening at each head. Opening size stamped on each neck.



Unit Per Pc.

CODE	Opening mm	Overall Length	Unit Per Pc.	
			Metric	Whitworth
61 07 26	6 x 7	128	M3.5 x M4	-
27	8 x 9	174	M5 x -	-
28	8 x 10	174	M5 x M6	- x W3/16
29	10 x 11	189	M6 x M7	W3/16 x -
30	10 x 12	189	M6 x -	W3/16 x W1/4
61 07 31	10 x 13	198	M6 x -	W3/16 x
32	11 x 13	198	M7 x -	-
33	12 x 14	214	-	W1/4 x W5/16
24	12 x 13	214	-	W1/4 x -
34	13 x 17	243	- x M10	-
61 07 25	14 x 15	243	-	W5/16 x -
35	14 x 17	243	- x M10	W5/16 x W3/8
36	17 x 19	276	M10 x M12	W3/8 x W7/16
37	17 x 21	293	M10 x -	W3/8 x W1/2
38	19 x 21	314	M12 x -	W7/16 x W1/2
61 07 39	19 x 22	314	M12 x M14	- -
40	19 x 24	317	M12 x M16	- -
41	21 x 23	333	- -	W1/2 x W9/16
42	21 x 26	364	- -	W1/2 x W5/8
43	22 x 24	333	M14 x M16	-
61 07 44	23 x 26	366	- -	W9/16 x W5/8
45	24 x 27	366	M16 x M18	-
46	24 x 30	392	M16 x M20	-
47	26 x 29	392	- x -	- x W11/16
48	26 x 32	392	- x M22	W5/8 x W3/4
61 07 49	27 x 30	392	M18 x M20	-
50	29 x 32	428	- x M22	W11/16 x W3/4
51	30 x 32	428	M20 x M22	- x W3/4
52	32 x 35	428	M22 x -	W3/4 x W7/8
53	32 x 36	428	M22 x M24	W3/4 x -
61 07 54	35 x 41	454	- x M27	W7/8 x W1
55	36 x 41	454	M24 x M27	W7/8 x W1

Open & 12 Point Box Wrenches

15° Angle Open End-12 Point Opening Box End

Llaves Combinadas 片目口スパナー 开口和十二角套筒扳手

For use in close quarters. The open end is pointed with slim jaws. The other end is a thin walled 12 point box head. Both heads have the same size opening. Drop forged from tough, selected alloy steel, heat-treated and chrome plated.



Metric

CODE	Opening mm	Overall Length mm	CODE	Opening mm	Overall Length mm
61 07 61	6	99	61 07 95	25	333
62	7	105	77	26	330
63	8	105	78	27	360
64	9	110	96	28	390
65	10	118	97	29	390
61 07 66	11	134	61 07 79	30	387
67	12	140	80	32	420
68	13	150	81	35	465
69	14	170	82	36	490
92	15	198	83	41	520
61 07 70	16	190	61 07 84	43	550
71	17	215	85	45	550
93	18	245	86	46	580
72	19	235	87	50	580
94	20	268	88	54	635
61 07 73	21	265	61 07 89	55	635
74	22	280	90	58	710
75	23	310	91	60	710
76	24	310			

Inch

CODE	Opening mm	Overall Length mm	CODE	Opening mm	Overall Length mm
61 08 01	1/4	99	61 08 13	1	330
02	5/16	105	14	1- 1/16	360
03	3/8	118	15	1- 1/8	387
04	7/16	134	16	1- 1/4	420
05	1/2	150	17	1-11/16	550
61 08 06	9/16	170	61 08 18	1- 3/4	550
07	5/8	190	19	1- 7/8	580
08	11/16	215	20	2	580
09	3/4	235	21	2- 1/8	635
10	13/16	265	22	2- 1/4	635
61 08 11	7/8	280	61 08 23	2- 3/8	710
12	15/16	310			

Open & Ratchet Type 12 Point Box Wrenches

Llaves Combinadas Tipo Carraca

ラチェット式片口／片口スパナー

开口及棘输式 12 角梅花扳钳

One standard open end, but the other end has ratchet type 12 point wrenches which can fasten the bolt or nut using a ratchet mechanism at only 5° handles swinging space. Both heads have the same size opening.



CODE	Opening mm	Overall Length mm	CODE	Opening mm	Overall Length mm	Unit Per Pcs.
61 08 31	8	140	61 08 36	13	180	
32	9	150		37	14	190
33	10	160		38	15	200
34	11	165		39	17	220
35	12	170		40	19	246

Open & Ratchet Type 12 Point Box Wrench Sets

Juegos de Llaves Combinadas Tipo Carraca y Fija Abierta

ラチェット式片目／片口スパナーセット

开口及棘轮式 12 角梅花扳钳组

CODE	Size mm	Pcs/Set	Unit Per Set
61 08 45	10 - 14	4's (10, 12, 13, 14)	
46	8 - 17	6's (8, 10, 12, 13, 14, 17)	

6 Point T-Type Wrenches

Handles Fixed (Not Removable)

Llaves Hexagonales Tipo-T/Mangos Fijos

T 型六角ボックスレンチ 六角 T 型套筒板手

Broached and chrome plated with a smoothed surface. Made of selected alloy steel. The size of the opening for this 6 point wrench is determined by measuring the length between two parallel flat sides.



CODE	Opening mm	Overall Length	For Bolt Size		Unit Per Pcs.
			MM	WW	
61 08 51	6	110 mm	M 3	-	
52	7	110	M 3.5	-	
53	8	110	M 4	-	
54	9	110	M 5	-	
55	10	150	M 6	W 3/16	
61 08 56	11	150 mm	-	-	
57	12	165	-	W 1/4	
58	13	165	M 8	-	
59	14	165	-	W 5/16	
60	17	180	M 10	W 3/8	
61 08 61	19	200 mm	M 12	W 7/16	
62	21	210	-	W 1/2	
63	22	210	M 14	-	
64	23	220	-	W 9/16	
65	24	220	M 16	-	
61 08 66	26	240 mm	-	W 5/8	
67	27	240	M 18	-	
68	29	250	-	W 11/16	
69	30	250	M 20	-	
70	32	250	-	W 3/4	
61 08 71	35	280 mm	M 22	W 7/8	
72	36	280	M 24	-	
73	41	300	M 27	W 1	
74	46	320	M 30	W 1-1/8	
75	50	360	M 33	W 1-1/4	
61 08 76	54	380 mm	M 36	W 1-3/8	
77	55	380	-	-	

4 Point T-Type Wrenches

Handle Fixed (Not Removable)

Llaves Cuadrangulares Tipo-T/Mangos Fijos (Llave de Vaso en Cruz)

固定型角ボックスレンチ 四角 T 型套筒板手

Fixed handle and square opening.
Broached, hardened and chrome plated.



Unit Per Pcs.

CODE	Opening mm/in.	Overall Length
61 08 86	6 (1/4)	60 mm
87	8 (5/16)	67
88	9 (3/8)	85
89	10 (-)	85
90	11 (7/16)	100
61 08 91	12 (1/2)	110 mm
92	14 (9/16)	120
93	16 (5/8)	130
94	19 (3/4)	140

6 Point T-Type Wrenches

Handles Detachable

Llaves Tubulares con Volvedores

強力型六角ボックスレンチハンドル付 六角 T 型套筒板手

Broached, surface smoothed and chrome plated, 6 point extra heavy wrenches with detachable handles. The size of the openings are measured between two parallel sides of the socket.



Unit Per Pcs.

CODE	Opening mm	Overall Length	For Bolt Size		Unit Per Pcs.
			MM	WW	
61 09 01	10	145 mm	M 6	W 3/16	
02	11	145	-	-	
03	12	150	-	W 1/4	
04	13	155	M 8	-	
05	14	160	-	W 5/16	
61 09 06	17	180 mm	M 10	W 3/8	
07	19	190	M 12	W 7/16	
08	21	200	-	W 1/2	
09	22	205	M 14	-	
10	23	210	-	W 9/16	
61 09 11	24	220 mm	M 16	-	
12	26	230	-	W 5/8	
13	27	235	M 18	-	
14	30	245	M 20	-	
15	32	250	-	W 3/4	
61 09 16	35	280 mm	M 22	W 7/8	
17	36	285	M 24	-	
18	41	300	M 27	W 1	
19	46	320	M 30	W 1-1/8	
20	50	340	M 33	W 1-1/4	
61 09 21	55	365 mm	-	-	
22	60	375	-	-	
23	65	390	-	-	
24	70	405	-	-	
25	71	410	M 48	W 1-7/8	
61 09 26	75	415 mm	-	-	

Flex 6 Point T-Type Wrenches

Llave T vaso Articulado

T型フレックスレンチ

T型万向接头六角套筒扳手

Flexible head, fixed handle.



Unit Per Pcs.

CODE	Opening mm	Overall Length
61 09 31	10	320 mm
32	11	320
33	12	320
34	13	320
35	14	320
61 09 36	17	350 mm
37	19	350

6 Point L-Type Wrenches

Offset Wrenches

Llave de Pipa Simple Acodada

L型六角ボックスレンチ 六角L型套筒扳手

Broached, surface smoothed, hardened and chrome plated.



Unit Per Pcs.

CODE	Opening mm	Overall Length	For Bolt Size	
			MM	WW
61 09 41	6	110 mm	M 3	-
42	7	110	M 3.5	-
43	8	110	M 4	-
44	9	110	M 5	-
45	10	182	M 6	W 3/16
61 09 46	11	182 mm	-	-
47	12	193	-	W 1/4
48	13	194	M 8	-
49	14	209	-	W 5/16
50	17	226	M 10	W 3/8
61 09 51	19	228 mm	M 12	W 7/16
52	21	258	-	W 1/2
53	22	260	M 14	-
54	23	270	-	W 9/16
55	24	271	M 16	-
61 09 56	26	278 mm	-	W 5/8
57	27	278	M 18	-
58	30	296	M 20	-
59	32	296	-	W 3/4
60	35	343	M 22	W 7/8
61 09 61	36	344 mm	M 24	-
62	41	354	M 27	W 1
63	46	369	M 30	W 1-1/8
64	50	392	M 33	W 1-1/4
65	55	415	-	-

6 Point Y-Type Wrenches

3 Different Opening Selected Alloy Steel

Llave en Y con 3 Diferentes Vasos

Y型ボックススパナー 六角T型套筒扳手

Made from selected alloy steel and heat-treated. This one tool has 3 openings for 3 different nut sizes. The vacant two bars may be used as a handle when nutting. Adapted for close corner nutting work.



CODE	Opening Size mm	Length of Handle mm	Unit Per Pcs.
61 09 71	8 x 9 x 10	80 x 80 x 80	
72	10 x 12 x 14	80 x 85 x 85	
73	10 x 14 x 17	85 x 85 x 85	
74	12 x 14 x 17	95 x 95 x 95	
75	13 x 17 x 19	100 x 100 x 100	
61 09 76	14 x 17 x 19	100 x 100 x 100	
77	14 x 17 x 21	105 x 105 x 105	
78	17 x 19 x 21	110 x 110 x 110	
79	19 x 21 x 23	120 x 120 x 120	
80	21 x 23 x 26	130 x 130 x 130	

12 Point & Spud End Wrenches

60° Offset

Llave Estrella Acodada 1 Boca

組立用メガネスパナー 2点铲形扳手 60度偏移

Adapted for heavy industrial and automotive work where unusual leverage is necessary. The 12 point box head insures a firm hold on the nut and it is offset to give maximum clearance. The long sturdy tapered handle provides ample strength and leverage, and can be easily inserted into bolt holes to bring them into line. Drop forged from selected alloy steel, heat-treated.



CODE	Opening mm	Overall Length	For Bolt Size	
			MM	WW
61 10 01	13	220 mm	M8	-
02	14	230	-	W5/16
03	17	300	M10	W3/8
04	19	320	M12	W7/16
05	21	335	-	W1/2
61 10 06	22	335 mm	M14	-
07	23	335	-	W9/16
08	24	355	M16	-
09	26	370	-	W5/8
10	27	370	M18	-
61 10 22	29	-	-	-
11	30	390 mm	M20	-
12	32	405 mm	-	W3/4
23	34	-	-	-
13	35	440 mm	M22	W7/8
61 10 14	36	440 mm	M24	-
24	38	-	-	-
15	41	475 mm	M27	W1
43	42	-	-	-
44	43	-	-	-
61 10 45	44	-	-	-
16	46	510 mm	M30	W1-1/8
46	48	-	-	-
17	50	545 mm	M33	W1-1/4
18	54	560 mm	M36	W1-3/8
61 10 19	55	560 mm	-	-
20	58	575 mm	M39	W1-1/2
21	60	575 mm	-	-
47	65	-	-	-

Wrenches, Double or Single Head Ratchet 12 Point

Llaves, Carraca Sencilla o Doble

シノ付ラチェットスパナー 十二角单头棘轮套筒扳手

Made from selected alloy steel. All the critical parts are heat-treated.



Single Head

CODE	Opening mm	Overall Length	Unit Per Pcs.	
			For Bolt Size	
			Metric	Whitworth
61 10 26	10	195	M 6	W 3/16
	27	195	-	W 1/4
	28	210	-	-
	29	210	-	W 5/16
	30	250	M10	-
61 10 31	19	270	M12	W 7/16
	32	290	-	W 1/2
	33	290	M14	-
	34	310	M16	-
	35	330	-	W 5/8
61 10 36	27	330	M18	-
	37	350	M20	-
	38	370	-	W 3/4
	39	410	M22	W 7/8
	40	410	M24	-
61 10 41	41	450	M27	W 1
	42	460	M30	W 1-1/8

Double Head

CODE	Opening mm	Overall Length	Unit Per Pcs.	
			For Bolt Size	
			Metric	Whitworth
61 10 51	10 x 12	195	M6 x -	W3/16 x W1/4
	52	210	M6 x -	W3/16 x -
	53	210	M6 x -	W3/16 x W5/16
	54	210	-	W1/4 x W5/16
	55	250	- x M10	-
61 10 56	14 x 17	250	- x M10	W5/16 x -
	57	290	M10 x M12	- x W7/16
	58	290	M10 x -	- x W1/2
	59	290	M12 x M14	W7/16 x -
	60	330	M12 x M14	W7/16 x -
61 10 61	21 x 26	330	-	- x W5/8
	62	330	- x M18	-
	63	330	M14 x M16	-
	64	330	M14 x M18	-
	65	330	M16 x M18	-
61 10 66	24 x 30	370	M16 x M20	-
	67	370	-	W5/8 x W3/4
	68	370	M18 x M20	-
	69	370	M20 x -	- x W3/4

Striking Wrenches 12 Point Ring (Slogging Wrenches 12 Point Ring)

Llaves Estrella de Golpe

打擊メガネスバナー 敲击式单头十二角梅花扳手

Adapted for heavy industrial work at close quarters where large nuts must be set-up tight or frozen nuts must be loosened. Drop forged from selected alloy steel and properly heat-treated to withstand shocks.



CODE	Opening mm	Overall Length	For Bolt Size		Unit Per Pcs.
			MM	WW	
61 11 01	30	196 mm	M20	-	0.53
	02	196	M22	W3/4	0.53
	03	210	-	W7/8	0.67
	04	210	M24	-	0.67
	05	223	M27	W1	0.92
61 11 06	46	250 mm	M30	W1-1/8	1.13
	07	250	M33	W1-1/4	1.13
	08	273	-	W1-3/8	1.75
	09	273	M36	-	1.75
	10	282	-	W1-1/2	2.10
61 11 11	60	282 mm	M39	-	2.10
	12	302	M42	W1-5/8	2.50
	13	302	-	-	2.50
	14	327	M45	W1-3/4	3.20
	15	327	-	-	3.20
61 11 16	71	327 mm	M48	W1-7/8	3.20
	17	353	-	-	4.40
	18	353	M52	W2	4.40
	19	353	M54	-	4.40
	20	397	M56	W2-1/4	7.0
61 11 21	90	397 mm	-	-	7.0
	22	418	M64	W2-1/2	8.50
	23	418	-	-	8.50
	24	441	M72	W2-3/4	11.20
	25	441	M76	W3	11.20
61 11 26	115	441 mm	-	-	11.20
	27	480	M85	-	13.30
	28	490	-	-	15.80
	29	492	M90	-	15.80
	30	512	M95	-	16.60
61 11 31	145	553	M100	-	18.0

Striking Wrenches 12 Point Ring with Spring Washer

Llaves de Golpe 12 Puntas Anillo con arandela elástica

スプリングワッシャー付き打撃式ガネスバナー

带弹簧垫圈的敲击式巨型隔板

A drop forged steel safety striking wrench adapted two spring washers inside the 12 point ring, which enable the wrench to remain in place without having to hold it for free hand hammer striking.



CODE	Opening mm	Overall Length (mm)	For Bolt Size		Unit Per Pcs.
			MM	WW	
61 11 76	24	160	M16	-	
	27	180	M18	-	
	30	190	M20	-	
	32	190	M22	W3/4	
	36	205	M24	-	
61 11 81	41	225	M27	W1	
	46	240	M30	W1-1/8	
	50	255	M33	W1-1/4	
	55	272	M36	-	
	60	272	M39	-	
61 11 86	65	300	-	-	
	70	330	-	-	
	75	330	-	-	

Name of Mfr.: Ampco Safety Tools

Striking Wrenches Single Open End

(Slogging Wrenches Single Open End)

Llaves Fija de Golpe

打擊片口スパナー 敲击式单头开口板手

This open end slogging wrench is designed for the same purpose as the 12-point slogging wrench. Drop forged from selected alloy steel and heat-treated.



Unit Per Pc.

CODE	Opening mm	Overall Length	For Bolt Size		Weight kg
			MM	WW	
61 11 41	30	222	M 20	-	0.83
42	32	222	M 22	W3/4	0.83
43	35	222	-	W7/8	0.83
44	36	222	M 24	-	0.83
45	41	238	M 27	W1	1.15
61 11 46	46	266	M 30	W1-1/8	1.45
47	50	266	M 33	W1-1/4	1.45
48	54	303	M 36	W1-3/8	2.20
49	55	303	M 36	-	2.20
50	58	303	M 39	W1-1/2	3.50
61 11 51	60	324	M 39	-	3.50
52	63	324	M 42	W1-5/8	4.10
53	65	324	M 42	-	4.10
54	67	350	M 45	W1-3/4	5.40
55	70	350	M 45	-	5.40
61 11 56	71	350	M 48	W1-7/8	5.40
57	75	381	M 48	-	7.00
58	77	381	M 52	W2	7.00
59	80	381	M 54	-	7.00
60	85	499	M 56	W2-1/4	10.00
61 11 61	90	429	M 60	-	10.00
62	95	429	M 64	W2-1/2	10.00
63	100	451	M 68	-	13.70
64	105	469	M 72	W2-3/4	14.50
65	110	487	M 76	W3	16.00
61 11 66	115	507	M 80	-	17.90
67	120	521	M 85	-	20.20
68	125	532	-	-	23.60
69	130	537	M 90	-	23.90
70	135	560	M 95	-	24.50
61 11 71	145	606	M 100	-	29.00

Adjustable Hook Spanner Wrenches

Llave Gancho Ajustable アジャストフックスパナー 钩形活络板手

This spanner has the advantage of strength and adjustability. One wrench can be used for bolts of a variety of sizes by simply adjusting the jaw. The handle is strengthened so that the wrench can be used safely with a hammer.



Unit Per Pc.

CODE	Circle Diam. mm	Overall Length
61 12 01	35 to 105	270 mm
02	95 to 165	370 mm

Hook Spanner Wrenches

Llaves Gancho

引掛けスパナー

钩形板手

A tool to tighten and loosen round nuts with notches. Sizes fit to the outer diameter of round nuts. Made from selected alloy steel, hooks are hardened and tempered.



Unit Per Pc.

CODE	Circle Diam mm	Overall Length
61 12 06	12 to 14	108 mm
	16 to 20	108
	25 to 28	136
	30 to 32	136
	34 to 38	160
61 12 11	40 to 42	173 mm
	45 to 50	196
	52 to 55	208
	58 to 62	232
	68 to 75	247
61 12 16	80 to 90	271 mm
	92 to 100	286
	110 to 115	333
	120 to 130	333
	135 to 145	385
61 12 21	150 to 165	385 mm
	175 to 195	466
	200 to 220	466
	230 to 250	567
	260 to 280	567

Valve Wheel Wrenches

Claw Type

Llaves de Válvula/Tipo Uña

バルブホイールレンチ爪型

阀盘板手

For opening and closing cargo valves. Claw type wrenches made of manganese bronze. Specify the overall length when ordering.



Unit Per Pc.

CODE	Overall Length mm.	For Valve size mm.
61 12 31	460	Up to 130
32	560	100 ~ 300
33	660	200 ~ 450
34	915	360 and over

Allen Hexagon Wrenches

Llaves Allen (Hexagonal)

六角棒スパナー

L型内六角板手

Made from selected steel. A tool wrench for tightening and loosening hexagon head cap screws.



		Unit Per Pcs.	
CODE	Across Flats	CODE	Across Flats
mm			
61 12 41	1.4	61 12 52	9.0
42	1.5	85	9.5
43	2.0	53	10
44	2.4	54	12
45	2.5	55	14
61 12 46	3.0	61 12 56	16
77	3.5	57	17
47	4.0	58	19
78	4.5	59	21
48	5.0	60	22
61 12 79	5.5	61 12 61	23
49	6.0	62	24
80	6.5	63	26
50	7.0	64	27
83	7.5	65	32
61 12 51	8.0	61 12 66	36
84	8.5		
Inch			
61 12 67	1/8	61 12 72	5/16
68	5/32	73	3/8
69	3/16	74	7/16
70	7/32	75	1/2
71	1/4	76	9/16

Hexagon Allen Wrench Sets

Juegos de Llaves Allen (Hexagonal)

六角棒スパナセット 六角板手

How to order: CODE

Wrench set, allen hexagon,

SIZE (MINIMUM to MAXIMUM), 8's/set



Unit Per Set

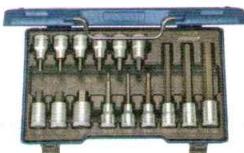
CODE	Contents	Pcs/Set
61 12 81	mm ... Across Flats ... 2.5, 3, 4, 5, 6, 8, 10, 12	8's
82	in ... Across Flats ... 1/8, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2	8's

Hexagon Bit Sets

Juegos de Puntas Hexagonales

六角ビットセット 全套的六角板手

A handy tool kit to tighten and loosen hexagon head cap screws.



How to order: CODE

Hexagon bit set, 6 bits, SIZE, NUMBER of TOOLS

Unit Per Set

CODE	Hexagon Bit		Number of Tools	Case
	Size	Quantity		
61 12 86	2 - 6	6's	3's	Plastic
87	3 - 10	6's	6's	"
88	6 - 17	6's	6's	"
89	14 - 27	6's	3's	Steel

Contents

61 12 86

6 Hexagon bits	2, 2.5, 3, 4, 5, 6 mm
1 x Extension bar (6")	1 x Nut handle
1 x Ratchet handle	

61 12 87

6 Hexagon bits	3, 4, 5, 6, 8, 10 mm
1 x Extension bar (6")	1 x Ratchet handle

61 12 88

6 Hexagon bits	6, 8, 10, 12, 14, 17 mm
2 x Extension bar (5" / 10")	1 x Ratchet handle
1 x T type handle	

61 12 89

6 Hexagon bits	14, 17, 19, 22, 24, 27 mm
2 x Extension bar (100mm/200mm)	1 x Ratchet handle
1 x T type handle	

Hexagon Sockets

Llaves hexagonales 六角ソケット 六角套筒

Standard hexagonal sockets for tighten or loosen the hexagon head cap screws. Socket part is treated with nickel-chrome plated surface.



Unit Per Pcs.

CODE	Square Drive mm	Size mm	Overall Length (mm)
61 12 91	12.7	4	60
92		5	60
93		6	60
94		8	60
95		10	60
61 12 96		12	60
97		14	60
98		17	70

Pipe Wrenches

(Stillson Wrenches)

Llaves Stillson パイプレンチ 重型直形管扳鉗

Straight, Heavy Duty

Powerful all alloy housing and handle. Housing guaranteed not to break or warp. Chrome molybdenum steel jaws will not slip or lock on pipes. The adjusting nut spins smoothly on frames of all sizes.



Unit Per Pcs.

CODE	Length mm	For Pipe Size in	CODE	Length mm	For Pipe Size in
61 13 01	150	1/4 - 5/8	61 13 06	450	1/2 - 2
02	200	1/4 - 3/4	07	600	1/2 - 2-1/2
03	250	1/4 - 1	08	900	1/2 - 4
04	300	3/8 - 1-1/4	09	1,200	1 - 5
05	350	1/2 - 1-1/2			



Unit Per Pcs.

CODE	For Pipe Size	CODE	For Pipe Size
For Schedule 40		For Schedule 80	
61 13 91	1/2"	61 13 95	3/4"
92	3/4"	96	1" & 1-1/4"
93	1" & 1-1/4"	97	1-1/2" & 2"
94	1-1/2" & 2"		

3. Torque Tools/Torque Wrenches

Torque Tools/Torque Wrenches

Herramientas Dinamométricas/Llaves Dinamométricas

トルクツール 转矩工具 / 转矩扳手

A device which shows the force of torque with which a screw or nut is being tightened. It allows one to set screws exactly at a predetermined torque without any effort.

A wide range of models from different manufacturers are available. The most common models are listed below.

Direct Reading Beam Type

For quality control inspection and production. Pivotted handle concentrates load position. For use with a socket wrench.



How to order: CODE

Torque wrench, direct reading beam type, CAPACITY (MINIMUM to MAXIMUM) kgf-cm

Unit Per Pcs.

CODE	Model	Capacity min.-max. kgf-cm	Scale kgf-cm	Sq. Drive	Overall L mm	Wgt. kg
61 14 01	F23N	3 - 23	0.5	9.5	295	0.40
02	F46N	5 - 46	1	9.5	355	0.60
03	F92N	10 - 92	2	12.7	400	0.95
04	F130N	20 - 130	2	12.7	445	1.20
05	F190N	30 - 190	5	12.7	490	1.50
61 14 06	F280N	50 - 280	5	19.0	565	2.20
07	F420N	70 - 420	10	19.0	820	3.50
08	F560N	100 - 560	10	19.0	945	4.00
09	F700N	100 - 700	10	19.0	1,175	6.00
10	F850N	100 - 850	20	25.4	1,410	7.80
61 14 11	F1000N	100 - 1,000	20	25.4	1,640	8.80

Dial Type

Ideal for quality control and inspection, and rugged enough for production work. With stay-set indicator model available. For use with a socket wrench.



How to order: CODE

Torque wrench, dial type, CAPACITY (MINIMUM to MAXIMUM) kgf-cm

Unit Per Pcs.

CODE	Model	Capacity min.-max. kgfcm	Scale kgf-cm	Sq. Drive	Overall L mm	Wgt. kg
61 14 16	DB6N	0 - 6	0.1	6.3	230	0.40
17	DB12N	1 - 12	0.2	6.3	230	0.40
18	DB25N	3 - 25	0.5	9.5	245	0.40
19	DB50N	5 - 50	0.5	9.5	320	0.60
20	DB100N	10 - 100	1	12.7	400	0.70
61 14 21	DB200N	20 - 200	2	12.7	500	1.00
22	DB280N	30 - 280	5	19.0	690	1.65
23	DB420N	40 - 420	5	19.0	890	2.50

Preset Type

Suitable for high efficiency mass production. By presetting the wrench you can tighten bolts to a desired torque every time. To operate, you first pull the handle until it clicks to the set position. Then you tighten the bolt until the resistance of the wrench stops. When you release the wrench, it is automatically set for the next operation. No need to refer to a dial or meter during use allowing you to increase work speed substantially. For use with a socket wrench.



How to order: CODE

Torque wrench, preset type, CAPACITY (MINIMUM to MAXIMUM) kgf-cm

Unit Per Pcs.

CODE	Model	Capacity min.-max. kgf-cm	Scale kgf-cm	Sq. Drive	Overall L mm	Wgt. kg
61 14 26	QL6N	2 - 6	0.1	6.3	175	0.12
27	QL12N	4 - 12	0.2	6.3	185	0.18
28	QL25N	5 - 25	0.25	9.5	220	0.23
29	QL50N	10 - 50	0.5	9.5	250	0.43
30	QL100N	20 - 100	1	12.7	330	0.67
61 14 31	QL200N	40 - 200	2	12.7	475	1.40
32	QL280N	40 - 280	2	19.0	675	1.80
33	QL420N	60 - 420	2	19.0	975	3.20

Direct Reading Beam Type with Ratchet

High efficient torque wrench with ratchet for quality control and production. Best for use in narrow spaces.



How to order: CODE

Torque wrench, direct reading beam with ratchet, CAPACITY (MINIMUM to MAXIMUM) kgf-cm

Unit Per Pcs.

CODE	Model	Capacity min.-max. kgf-cm	Scale kgf-cm	Sq. Drive	Overall L mm	Wgt. kg
61 14 36	QF60N	6 - 60	1	9.5	455	0.80
37	QF120N	10 - 100	2	12.7	520	1.20
38	QF220N	30 - 220	5	12.7	580	1.80
39	QF320N	40 - 320	5	19.0	655	2.60
40	QF420N	70 - 420	5	19.0	830	3.40
61 14 41	QF560N	100 - 560	10	19.0	950	4.30
42	QF700N	100 - 700	10	19.0	1,165	6.50
43	QF850N	100 - 850	20	25.4	1,400	8.50

Preset Type Torque Driver

For high efficient mass production. Incorporated with a device utilizing a toggle joint. When the set torque is reached, the movement of the toggle joint can be felt by hand. No need to read the scale.



How to order: CODE

Torque driver, preset type, CAPACITY (MINIMUM to MAXIMUM) kgf-cm

Unit Per Pcs.					
CODE	Model	Capacity min.-max. kgf-cm	Scale kgf-cm	Overall L mm	Wgt. grm
61 14 46	LTD15CN	2 - 15	0.1	100	50
47	LTD30CN	4 - 30	0.2	100	50
48	LTD60CN	10 - 60	0.5	105	80
49	LTD120CN	20 - 120	1.0	120	125
50	LTD260CN	60 - 260	1.2	140	215
61 14 51	LTD500CN	100 - 500	2.5	150	320
52	LTD1000CN	200 - 1,000	5.0	180	580
53	LTD2000CN	300 - 2,000	5.0	255	1,150

Preset Type Torque Watch Driver

Torque drivers for the highly efficient tightening of small screws such as in watches and cameras. When the set torque is reached, the movement of the toggle joint is felt on the finger. There is no need to read the dial.



How to order: CODE

Torque watch driver, preset type, CAPACITY (MINIMUM to MAXIMUM) kgf-cm

Unit Per Pcs.					
CODE	Model	Capacity min.-max. kgf-cm	Scale kgf-cm	Overall L mm	Wgt. grm
61 14 56	BMLD15CN	2 - 15	0.1	114	50
57	BMLD30CN	4 - 30	0.2	114	50

Bolt Tension Machine

Used for measuring the axial force of bolts by oil pressure. Use this machine to determine whether the bolt is good or not as well as whether the tightening torque of the bolt is adequate or not by tightening the bolt with the torque wrench. Accuracy: $\pm 3\%$.



How to order: CODE

Bolt tension measurer, CAPACITY (MINIMUM to MAXIMUM) ton

Unit Per Pcs.					
CODE	Model	Capacity min.-max. Ton	Scale Ton	Dimension W x T x H	Wgt. kg
61 14 61	B-BTM13K	1.2 - 13	0.2	106 x 78 x 217	7.7
62	B-BTM40K	4 - 40	0.5	134 x 82 x 241	9.8
63	B-BTM130K	12 - 130	2	188 x 106 x 287	17.5
64	B-BTM400K	40 - 400	5	280 x 126 x 369	31.0
65	BTM400K	40 - 400	5	260 x 64 x 280	12.6

4. Pliers

Combination Pliers, Slip Joint

Alicates Ajustable コンビネーションプライヤー

鲤鱼钳

Designed to have the maximum capacity for gripping round objects. The jaws are set close to the hinge for better leverage and the handle is curved for better gripping.



Unit Per Pr.

CODE	61 16 01	61 16 02	61 16 03
Length	150 mm	200 mm	250 mm

Thin Bent Nose Pliers

Alicate de Punta Curva ベントノーズプライヤー

弯嘴钳

The head of these pliers is bent at a 30° angle and the plier jaws are thinner for easier use in confined areas.



Unit Per Pr.

CODE	61 16 11	61 16 12
Length	175 mm	200 mm

Long Nose Straight Pliers

Alicate de Boca Plana Larga

ロングノーズプライヤー 尖嘴钳



Unit Per Pr.

CODE	61 16 16	61 16 17
Length	160 mm	200 mm

Plier Wrenches

Plastic Coated Handle

Tenazas Llave, Mango de Plástico Reverstido

プライヤーレンチ 胶柄扳手钳



Plier and wrench in a single tool. Excellent for gripping, holding, pressing and bending workpieces. Fast adjustment directly on the workpiece by pushing a button, and no unintentional shift of the gripping jaws and no slipping of the joint. The action of the jaws allows screwed connections to be tightened and released quickly using the ratchet principle.

CODE	Working Capacities		Length mm	Weight grm
	Inch	mm		
61 16 21	1-3/8"	to 35	180	260
22	1-3/4"	to 46	250	540
23	2-3/8"	to 60	300	725

Ref.: Knipex Model No. 86 03 180 / 250 / 300

Water Pump Pliers w/Positions

Five Adjustment (Channel Locks)

Tenacilla de Canal ウォーターポンププライヤー 水泵钳子



Designed with narrow angled jaws for work in confined spaces.



Unit Per Pr.

CODE	61 16 26	61 16 27
Length	250 mm	300 mm

Heavy Water Pump Pliers

Five Adjustment

Tenacilla Canal 'P.V.C.'

ヘビーウォーターポンププライヤー 重型水泵鉗

Provides strong gripping power in all set positions. Jaw opens to a maximum size of 45 mm.



Unit Per Pr.

CODE	Length	CODE	Length
61 16 29	165 mm	61 16 31	300 mm
33	200 mm	32	400 mm
30	250 mm		

Gripping Pliers for Plastic Pipe

Plastic Coated Handle

Alicates para Manejar Tobos de Plástico, Mango de Plástico Revestido

プラスチックパイプ用グリッピングプライヤー

塑膠管用膠柄夾鉗

Ideal for tightening and releasing plastic pipe joints, round union nuts, etc. from 25 up to 80 mm diam. 25-position adjustable slip joint and made of chrome vanadium electric steel, oil-hardened and tempered. Model No.81 13 250 is furnished with plastic jaws for careful installation up to 75 mm diam.



With Plastic Jaws

Unit Per Pr.

CODE	Working Capacity Diam. mm	Length mm	Weight grm	Remark
61 16 35	25 - 80	250	355	-
36	10 - 75	250	355	w/jaws

Ref. : Knipex Model No. 81 03 250 / 81 13 250

Vise Grip Combination Pliers

(Mole Grip Wrenches)

Mordaza Grip Bacos curvas

バイスプライヤー 虎钳式手钳

A universal tool which serves as an adjustable end wrench, locking wrench, pipe wrench, vise, clamp, plier and toggle press. Has a double lever action that locks jaws to the work. Locks with a grip that holds until the lever is snapped open. Works in close quarters at any angle.



Unit Per Pr.

CODE	Length	CODE	Length
61 16 41	125 mm	61 16 43	200 mm
42	175 mm	44	250 mm

Small Water Pump Pliers with Groove Joint, Plastic Coated Handle

Tenacillas para Bombas de Agua con Groove Joint, Mango de Plástico Revestido

小型ウォーターポンププライヤー

凹槽結合式小型膠柄幫浦鉗



Non-slip joint and easy, convenient engagement in 4 different positions. Made of forged from chrome vanadium electric steel, oil-hardened and tempered.

Unit Per Pr.

CODE	Capacities		Length mm	Weight grm
	For Pipes Diam. mm	For Nuts Across Flats mm		
61 16 46	17	14	125	100

Ref. : Knipex Model No. 90 01 125

Side Cutting Pliers

Alicate Universal ペンチ 側剪鉗 (无绝缘手柄)

A belt or pocket tool developed for difficult working situations. (For example : overhead electric work in masts, etc.) Forged high grade tool steel with powerful leverage and keen cutting blades. Insulated handles tested to withstand 1,000 volts.



Non-Insulated Handle



Insulated Handle

Unit Per Pr.

Non-Insulated Handle		Insulated Handle	
CODE	Length	CODE	Length
61 16 50	125 mm	61 16 56	125 mm
51	150	57	150
52	175	58	175
53	200	59	200
54	250	60	250

Flat Nose Pliers

Insulated Plastic Body

Alicates planos, agarre con aislamiento plástico

プラスチック製絶縁プライヤー

塑料绝缘扁嘴钳



Made of plastic material, fibreglass-reinforced, handles with soft plastic zone. Fully insulating to reduce risk of short circuit up to AC 1,000V and DC 1,500V. Insulation standard: IEC 60900 DIN EN 60900. Length : 180 mm.

61 16 61	Pliers, flat nose, insulated, plastic body, length 180 mm	Pr.
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Ref. : Knipex Model #98 62 01

Ref. : Knipex Model No. 81 03 250 / 81 13 250

Side Cutting Pliers with Spring Plastic Covered Handle

Alicate Universal con Reorte/Magos en P.V.C.

スプリング付ペンチ 弹簧式侧剪鉗

A side cutting plier with a built-in spring to open the jaws easily when pressure on the handle is relaxed. Useful tool for electricians.



Unit Per Pr.

CODE	61 16 66	61 16 67	61 16 68
Length	150 mm	175 mm	200 mm

Side Cutting & Reamer Pliers

Plastic Covered Handle

Alicate Universal "Americano"/Magos en P.V.C.
面取りベンチ 側剪鉗 (塑料绝缘手柄)

This tool combines the qualities of a side cutting plier with a reaming blade for lead, conduit or vinyl tubes.



Unit Per Pr.

CODE	61 16 71	61 16 72	61 16 73
Length	150 mm	175 mm	200 mm

Mini Combination Pliers

Plastic Covered Handle

Alicate Tamaño Pequeño/Mangos en P.V.C.
ミニベンチ 迷你大力鉗



Jaw opening springs, full polished head. Induction hardened cutting edges, slip resistant PVC handle. Material: Hardened and tempered CrV steel.

61 16 75	Pliers, combination, mini, plastic covered handle, 115 mm	Pr.
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Round Nose Pliers

Plastic Covered Handle

Alicate de Boca Redonda/Magos en P.V.C.
丸ベンチ 圆嘴鉗 (绝缘手柄)



Designed for quick wiring jobs and detailed wiring where a small round tipped wire is essential. Made from a special alloy steel.

Unit Per Pr.

CODE	61 16 81	61 16 82
Length	125 mm	150 mm

Mini Long Round Nose Pliers

Plastic Covered Handle

Alicate de Boca Redonda Medio Largo/Mangos en P.V.C.

ミニ丸ベンチ 迷你长圆鼻鉗

Jaw opening springs, full polished head. Induction hardened cutting edges, slip resistant PVC handle, flat-square jaws for gripping and forming. Material: Hardened and tempered CrV steel.



61 16 84	Pliers, round nose, mini long, plastic covered handle, 115 mm	Pr.
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Long Needle Nose Pliers

Plastic Covered Handle

Alicate de Boca Redonda Largo/Mangos en P.V.C.

先長細口ベンチ 细口尖嘴鉗 (塑料绝缘手柄)

With a long, half-round, tempered nose for very fine work in assembling electric apparatus, etc.



Unit Per Pr.

CODE	61 16 86	61 16 87
Length	125 mm	150 mm

Insulated Round Nose Pliers

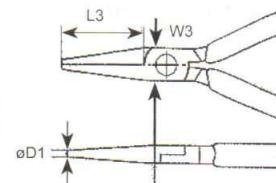
Resistance up to 1,000 Volts

Conformed to IEC 60900/DIN EN 60900

Tenazas de Punta Redonda Aisladas Resistentes hasta Mil Voltios
絶縁型丸ベンチ (耐電 1,000V)

高絕緣圓口鉗 耐電壓 1000V

For forming wire loops by precision ground, short, round jaws.
Made of special tool steel, oil-hardened and tempered.



Unit Per Pr.

CODE	Dimensions			Length mm	Weight grm
	L3	W3	D1		
61 16 89	30.0	18.0	3.0	160	175

Ref.: Knipex Model No. 22 06 160

Snipe Nose Pliers

Insulated Plastic Body

Alicates en punta, agarre con aislamiento plástico
プラスチック製絶縁ブライヤー 塑料绝缘尖嘴鉗

Made of plastic material, fibreglass-reinforced, handles with soft plastic zone. Fully insulating to reduce risk of short circuit up to AC 1,000V and DC 1,500V. Insulation standard: IEC 60900 DIN EN 60900. Length: 220 mm.



61 16 90	Pliers, snipe nose, insulated, plastic body, length 220 mm	Pr.
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Ref.: Knipex Model #98 62 02

Bent Nose Pliers

Plastic Covered Handle

Alicates de Punta Curvada 先曲りベンチ 弯嘴鉗

Curved needle spring tempered nose pliers for use in narrow places. Can be used without having to turn or twist your hand in close quarters.



61 16 91	Pliers, bent nose plastic covered handle 150 mm	Pr.
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Long Nose Side Cutting Pliers

Plastic Covered Handle

Alicates de corte lateral de nariz larga, manija cubierta de plástico

ラジオベンチ 长鼻侧切鉗, 塑料覆盖手柄

Long thin tip for work in narrow confined areas. An ideal tool for quick repair and electronic works.



Unit Per Pr.

CODE	Length	CODE	Length
61 16 94 95	125 mm 150 mm	61 16 96	200 mm

Insulated Long Nose Pliers

Resistance up to 1,000 Volts

Alicates de punta larga con aislamiento, hasta 1.000 voltios de resistencia
絶縁先長ペンチ（耐電圧 1,000V）
绝缘耐压尖嘴钳（可耐电压 1000V）

The essential pliers for electrical installation work in narrow confined areas. Made of VDE insulated handle which can withstand 1,000 volts.



61 16 97	Pliers, long nose, insulated, L: 150 mm	Pr.
61 16 98	Pliers, long nose, insulated, L: 200 mm	Pr.

Duckbill Pliers

Plastic Covered Handle

Alicate Boca Pato/Magos en P.V.C.

ダックビルペンチ 鸭嘴钳（塑料绝缘手柄）



Made from chrome-molybdenum steel. Long handle provides powerful leverage.

61 17 01	Pliers, duckbill plastic covered handle 200 mm	Pr.
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Flat Nose Pliers

Plastic Covered Handle

Alicate Boca Plana/Magos en P.V.C.

リードベンチ 扁嘴钳（塑料绝缘手柄）



Designed with flat narrow jaws for holding or bending wires, etc. inside narrow and restricted places.

Unit Per Pr.

CODE	Length	CODE	Length
61 17 05	125 mm	61 17 07	175 mm
06	150 mm		

Mini Long Flat Nose Pliers

Plastic Covered Handle

Alicate de Boca Plana Medio Largo/Mangos en P.V.C.

ミニリードベンチ 长平嘴钳



Jaw opening springs, full polished head. Induction hardened cutting edges, slip-resistant PVC handle, flat-square jaws for gripping and forming. Material: Hardened and tempered CrV steel.

61 17 09	Pliers, flat nose, mini long, plastic covered handle, 115 mm	Pr.
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Diagonal Cutting Pliers

Plastic Covered Handle

Cortante Oblicuo/Magos en P.V.C.

斜ニッパー 对剪钳（塑料绝缘手柄）



Sharp, hardened edges with narrow jaws enable you to cut wires inside tight places.

Unit Per Pr.

CODE	Length	CODE	Length
61 17 10	100 mm	61 17 12	150 mm
11	125 mm		

Heavy Duty Diagonal Cutting Pliers

Plastic Covered Handle

Cortante Oblicuo Reforzado/Magos en P.V.C.

強力ニッパー

强力对剪钳（塑料绝缘手柄）



A tool to cut heavy wire with little effort. Made from high quality alloy steel.

Unit Per Pr.

CODE	61 17 16	61 17 17	61 17 18
Length	125 mm	150 mm	175 mm

Mini Diagonal Cutting Pliers

Plastic Covered Handle

Cortante oblicuo tamaño Pequeño/Mangos en P.V.C.

ミニ斜めニッパー 斜嘴钳



Jaw opening springs, full polished head. Induction hardened cutting edges, slip-resistant PVC handle. Designed to cut wire with ease. Material: Hardened and tempered CrV steel.

61 17 21	Pliers, diagonal cutting, mini, plastic covered handle, 115 mm	Pr.
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Pr.

Insulated Diagonal Strippers

Resistance up to 1,000 Volts

Conformed to IEC 60900 / DIN EN 60900

Pelacables Aislados de Corte Diagonal Resistentes hasta Mil Voltios

絶縁型ストリッパー（耐電圧 1,000V）

高绝缘斜口剥线钳耐电壓 1000V

The essential plier for electrical installation work, and furnished with precision stripping holes for single (solid) conductors of 1.5 and 2.5 mm². Induction hardened precision blades for soft wire up to 4.0 mm diam., cutting edge hardness approx. 60 HRC. Made of high grade special tool steel, oil-hardened and tempered.



Unit Per Pr.

CODE	Cutting Capacities		Length mm	Weight grm
	mm ²	AWG		
61 17 23	1.5 + 2.5	15 + 13	160	210

Ref. : Knipex Model No. 14 26 160

Insulated Diagonal Cutters

Resistance up to 1,000 Volts

Conformed to IEC 60900 / DIN EN 60900

Pinzas de Corte Diagonal aisladas Resistentes hasta Mil Voltios

絶縁先ニッパー（耐電 1,000V）

高绝缘斜口钳 耐电壓 1000V

Furnished with precision cutting edges for soft and hard wire, and creates clean cutting at cutting edge tips, also in case of thin copper wires. Cutting edges are additionally induction hardened, cutting edge hardness approx. 62 HRC. Narrow head style for use in confined areas. Made of vanadium electric steel, oil-hardened and tempered.



CODE	Cutting Capacities			Unit Per Pr.	
	Copper / Plastics	Nail / Wire pin	Wire rope strand/ Steel wire	Length mm	Weight grm
61 17 25	3.0	2.3	1.5	125	120
26	4.0	2.5	1.8	140	160
27	4.0	2.8	2.0	160	210
28	4.0	3.0	2.5	180	255

Ref.: Knipex Model No. 70 06 125 / 140 / 160 / 180

Cable Shoe Pliers

Alicates para Terminales 压着ペンチ 电缆端子压钳

A tool for pressing cable shoes on electric cables of sizes 1.25, 2.0, 5.5 and 8 mm/sq. An essential tool for radio repairers and electricians. Length 250 mm.



61 17 30	Pliers, cable shoe 1.25 mm - 8 mm sq.	Pr.
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Cable Shoe Clamping Tool Kits

Estuches de Herramientas para Terminales
ケーブルシューキット 电缆端子压钳

Specially designed for marine use. A steel kit with a clamping pliers and 1,000 cable shoes of 10 different sizes.



61 17 32	Cable shoe and its clamping tool kit	Set
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Crimping Pliers with Changer Magazine

Alicates de engarzar con cambiador de herramienta
交換式ダイス付き压着ペンチ 带可更换压模的压线钳

Just one tool for the most common crimping applications. Made of chrome vanadium electric steel in special quality, oil-hardened. Crimping dies changed quickly and easily without any additional tool. Length: 250 mm.



- Five interchangeable dies in round magazine :
- * for non-insulated open plug type connectors (plug width 4.8 + 6.3 mm) from 0.5 - 6 mm².
 - * for insulated terminals, plug connectors and butt connectors from 0.5 - 6 mm².
 - * for insulated and non-insulated end sleeves (ferrules) from 0.25 - 6 mm².
 - * for insulated and non-insulated end sleeves (ferrules) with 10 / 16 / 25 mm².
 - * for non-insulated crimp terminals. Tube and compression cable lugs in accordance with DIN 46234 and DIN 46235 and non-insulated crimp, butt and press connectors in accordance with DIN 46341 and DIN 46267.

61 17 33	Pliers, crimping, with changer magazine, length 250 mm	Set
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Ref. : Knipex Model No. 97 33 02

Hydraulic Cable Shoe Pliers

Tenaza Hidráulica para Terminales

油圧ケーブルシューペンチ 液压电缆端子压钳

For non-insulated terminals. The following four sizes are available. Please specify the size required when ordering.



Specifications

Applicable Cable Shoe Size	Wire mm ² (AWG)	Weight grm
14	10.52 - 16.78 (6)	
22	16.78 - 26.66 (4)	2,000
38	26.66 - 42.42 (2)	
60	42.42 - 60.57 (1/0)	

61 17 34	Pliers, cable shoe hydraulic for 10.52 - 60.57 mm ² wire size	Pr.
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Electric Cable Strippers

Alicates Pelacables ワイヤーストリッパー 剥线钳

Strips the outer vinyl cover from electric wires without damaging the copper wire underneath. These strippers come with an insulated handle. A very useful tool for engineers and electricians.



How to order: CODE

Electric cable stripper, KIND of CABLE, CABLE SIZE (MINIMUM - MAXIMUM)

Unit Per Pr.

CODE	Kind of Cable	Cable Size
61 17 36	Single	0.5, 1.2, 1.6, 2.0 mm
37	"	1.0, 1.6, 2.0, 2.6, 3.2 mm
38	Strand	0.9, 1.25, 2.0, 3.5, 5.5 mm ²
39	Parallel	0.75 mm ² x 2C, 1.25 mm ² x 2C

Weicon Cable & Wire Strippers

Herramienta peladora de cables y alambres

ケーブル & ワイヤーストリッパー

电缆和剥线钳

Accurate, fast and safe stripping of all common round cables and wires with variety of performance ranges.

Unit Per Pr.

CODE	Model	Application	Performance Range
61 17 29	Cable Stripper 4-28H	Accurate, fast and safe stripping of all common round cables of 4-28 mm Ø. No damage of the inner conductors due to infinitely variable adjustment of the cutting depth.	4 - 28 mm Ø with Hook knife
61 17 31	Cable Stripper S4-28 Multi	Accurate, fast and safe stripping of all common round cables of 4-28 mm Ø. Stripping of all standard flexible and solid cables with a cross-diameter between 0.5 and 6 mm ² .	4 - 28 mm Ø 0.5 - 6 mm ²

CODE	Model	Application	Performance Range
61 17 35	Cable Scissors No. 35	For cutting and stripping of Cu/Al conductors as well as for crimping of terminals from 0.5 to 4 mm ² . The blades are equipped with micro-toothing. This achieves a flush cut and the slipping of the cable is prevented.	Cu/Al conductors 35 mm ²
61 17 40	Coax Stripper No. 2	Working range 4.8 - 7.5 mm Ø, adjusting the cutting depth not required. Also suitable for flexible cables Length scale (0 - 17 mm) integrated in the housing Two-level stripping of all common coaxial cables.	Coaxial 4.8 - 7.5 mm Ø NYM 3 x 0.75 mm ² Flexible 10+16 mm ²
61 17 55	Duo-Crimp No. 300	Three tools in one: Wire Stripper for inner insulations from 0.5-6.0 mm ² , crimping of terminals with two crimping ranges: 0.5 mm ² - 2.5 mm ² (18-15 AWG) and 4 mm ² - 6.0 mm ² (14-10 AWG). According to DIN 46228-2 Integrated, well-accessible side cutter up to 6 mm ²	0.5 - 6.0 mm ²
61 17 61	Multi-Stripper No. 400	Multifunctional with 4 functions. Working range 0.5 - 6 mm ² / 8 - 13 mm Ø Flush stripping even in locations difficult to reach. Secure and space-saving storage thanks to interlock Round cutting - longitudinal cutting - stripping - cutting	8 - 13 mm Ø 0.5 mm ² - 6.0 mm ²
61 17 62	Wire Stripper No.5	Automatic wire stripper for all common stranded and solid conductors (0.2 - 6.0 mm ²), very easy to operate, integrated, well-accessible side cutter up to 2 mm Ø, precise working thanks to adjustable length stop (5 - 12 mm), space-saving due to locking of the stripper, low weight ensures fatigue-free working, replaceable blades.	0.2 - 6.0 mm ² (24 - 10 AWG)

Name of Mfr : Weicon GmbH & Co. KG

Wire Strippers

Plastic Coated Handle



Pelacables, Mango de Plástico Revestido
ワイヤーストリッパー 膠柄剥線鉗

For single, multiple and fine stranded conductors with plastic or rubber insulation max. 5.0 mm diam. or respondent 10.0 mm² cable cross section. Easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut. Made of special tool steel, oil-hardened and tempered.

Unit Per Pr.

CODE	Length mm	Stripping Capacities			Weight grm
		Diam. mm	mm ²	AWG	
61 17 41	160	5.0	10.0	7	135

Ref.: Knipex Model No. 11 01 160

Insulated Wire Strippers

Resistance up to 1,000 Volts
Conformed to IEC 60900 / DIN EN 60900

Palacables Aislados Resistentes hasta Mil Vatios

絶縁型ワイヤーストリッパー (耐電 1,000V)

高絶縁剥線鉗 耐電壓 1000V



For single, multiple and fine strand conductors with plastic or rubber insulation max. 5.0 mm diam. or respondent 10.0 mm² cable cross section. Easy adjustment to the required diameter of the solid or stranded wire with knurled screw and lock nut. Made of special tool steel, oil-hardened and tempered.

Unit Per Pr.

CODE	Stripping Capacities			Length mm	Weight grm
	Diam. mm	mm ²	AWG		
61 17 42	5.0	10.0	7.0	160	165

Ref.: Knipex Model No. 11 06 160

Electricians' Pliers

Plastic Coated Handle

Pinzas de Electricista, Mango de Plástico Revestido

電工プライヤー 膠柄電工鉗



The ideal pliers for cable work, for gripping and bending wire, and for cutting soft, medium and hard wire. Precision cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC. Furnished with precision stripping holes, and for crimping end sleeves (ferrules). Made of high grade special tool steel, oil-hardened and tempered.

Unit Per Pr.

CODE	Stripping Capacities		Length mm	Weight grm
61 17 43	0.5 - 0.75 / 1.5 / 2.5 mm ²		160	110
44	AWG 10 / 12 / 14		160	110

Ref.: Knipex Model No. 13 01 160 / 13 01 614

Automatic Insulation Strippers

Cortador de aislamiento automático

自動剥離径調整式絶縁ストリッパー

自调式绝缘剥线钳

Fully automatic adjustment to all single-, multi- and fine-stranded conductors with standard insulation throughout the entire capacity range from 0.03 to 10.0 mm². With recessed

wire cutter for Cu and Al conductors, stranded up to 10 mm² and single wire up to 6 mm². Handle with soft-plastic zone for a steady grip, body: plastic, fibreglass-reinforced, and blade: special tool steel, oil-hardened. Length: 195 mm.



61 17 45	Stripper, insulation, automatic, 0.03 – 10 mm ² , length 195 mm	Pr.
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Ref.: Knipex Model No. 12 42 195

Insulation Strippers with Opening Spring, Plastic Coated Handle

Pelacables de Aislación con Muelle de Apertura, Mango de Plástico Revestido
辅助剥线钳

膠柄剝線鉗 附彈簧

Insulation stripper for stripping thin wires, furnished with opening spring. Made of special tool steel, oil-hardened and tempered.



Unit Per Pr.

CODE	Stripping Capacities Diam. mm	Length mm	Weight grm
61 17 46	0.5	160	110
47	0.6	160	110
48	0.8	160	110

Ref.: Knipex Model No. 15 51 160 / 15 61 160 / 15 81 160

Electronics Wire Strippers with Opening Spring, Plastic Coated Handle

Pelacables para Electrónica con Muelle de Apertura, Mango de Plástico Revestido

エレクトロニックワイヤーストリッパー
电动剥线钳

For single, multiple and fine stranded cables with 0.1 up to 0.8 mm diam. with plastic or rubber insulation. Easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut. Made of special tool steel, oil-hardened and tempered.



Unit Per Pr.

CODE	Stripping Capacities Diam. mm	Length mm	Weight grm
61 17 49	0.1 - 0.8	140	100

Ref.: Knipex Model No. 11 92 140

Bulldog End Cutting Pliers

Alicates de Corte Frontal 剪切 扭头钳

Drop forged and heat-treated in industrial finish. Stout jaws and wide cutting edges are adapted for various carpentry tasks.



Unit Per Pr.

CODE	Length	CODE	Length
61 17 50	120 mm	61 17 53	175 mm
51	150 mm	54	240 mm
52	180 mm		

Flat Nose Japanese Type Pliers

Alicates con Punta Plana Tipo Japonés

ヤットコ平口 日式扁嘴钳



Unit Per Pr.

CODE	Length	CODE	Length
61 17 56	150 mm	61 17 59	240 mm
57	180 mm	60	300 mm
58	210 mm		

Razor Wire Clip Pliers

Alicates de corte para alambre
レーザーウイヤークリップ・プライヤー 刺须刀夹线钳



Clip Pliers



61 17 65 | Razor wire clip pliers

Pr.

5. Scissors and Knives

Hand Snips

Straight or Curved Edge

Tijeras de Chapa, Recta o Cirvada

ブリキ鋏 直式手剪

Forged of special steel for cutting tin plate. The blades have a smooth, strong edge that will retain their sharpness. The straight edge blades are for straight cutting and the curved blades are for cutting curved lines or intricate patterns.



Straight Edge



Curved Edge

Unit Per Pr.

Straight		Curved	
CODE	Length mm	CODE	Length mm
61 17 70	180	61 17 81	180
71	210	82	210
72	240	83	240
73	270	84	270
74	300	85	300
61 17 75	330	61 17 86	330
76	360	87	360
77	390	88	390
78	420	89	420
79	450	90	450

Tweezers

Pinzas ピンセット 镊子组

Made from stainless steel, and used for picking up small objects that are not easily handled with the hands. Overall length 125 mm.



CODE	Tip Style	Grip Style	Unit Per Pr.
61 17 91	Sharp	Smooth	
92	Rounded	Serrated	
93	Curved	Smooth	

Snap Ring Pliers

Alicates de presión スナップリングプライヤー 卡环钳

These snap ring pliers are used for inserting or removing external/internal snap rings. They automatically open or close just by gripping the handles. There are two types of pliers, one for external, the other for internal use.

For External Use



For Internal Use



External Ring Pliers

How to order: CODE

Plier, snap ring, external, STRAIGHT or BENT nose, RING SIZE

CODE	For External Ring Size	Overall Length	Unit Per Pr.
Straight Nose			
61 18 01	3 - 15 mm	125 mm	
02	10 - 25	140	
03	19 - 40	175	
04	32 - 80	236	
05	50 - 100	270	
06	100 - 130	400	
07	130 - 200	500	
Bent Nose			
61 18 11	3 - 15 mm	135 mm	
12	10 - 25	135	
13	19 - 40	165	
14	32 - 80	220	
15	50 - 100	270	
16	100 - 130	400	
17	130 - 200	500	

Internal Ring Pliers

How to order: CODE

Plier, snap ring, internal, STRAIGHT or BENT nose, RING SIZE

Unit Per Pr.

CODE	For Internal Ring Size	Overall Length
Straight Nose		
61 18 21	6 - 15 mm	140 mm
22	15 - 25	140
23	19 - 65	180
24	32 - 80	246
25	50 - 100	270
26	100 - 130	400
27	130 - 200	500
Bent Nose		
61 18 31	6 - 15 mm	135 mm
32	12 - 25	135
33	19 - 65	170
34	32 - 80	230
35	50 - 100	270
36	100 - 130	400
37	130 - 200	500

Cloth Scissors

Tijeras para Juntas

ラシャ切鋏 布剪子



Made of cutlery steel, hardened and tempered. Individually tested by hand.

Unit Per Pr.

CODE	Overall Length mm	CODE	Overall Length mm
61 18 41	210	61 18 44	255
42	225	45	270
43	240	46	300

Electricians Knives

Navajas de Electricista

電工ナイフ 电工刀



A well tempered cutlery steel blade with a strong joint and a solid well-proportioned handle.

61 18 51	Knife, electrician	Pc.
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Heavy Duty Knives with Leather Case

Machetes con Estuche de Cuero Reforzado

シーナイフ 強力刀 (带皮套)



A 120 mm, high carbon, cutlery steel blade. Comes with a leather case.

61 18 55	Knife, heavy duty w/leather case	Pc.
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6. Cutters/Shears

Bolt Cutters

with Plastic Coated Handle

Cortadora de pernos con mango revestido de plástico

ボルトクリッパー

绝缘柄断线钳

Precision cutting edges for soft and hard wire as well as piano wire, and cuts bolts, nails, rivets, etc. up to 5.2 mm dia (Model 71 31 200) and up to 6.0 mm dia (Model 71 31 250). Made of chrome vanadium heavy-duty steel, forged, oil-hardened. 60 % less effort required compared to conventional high-leverage diagonal cutters.



Unit Per Pr.

CODE	Length mm	CODE	Length mm
61 18 58	200	61 18 59	250

Ref.: Knipex Model No. 71 31 200 for 200 mm / No. 71 31 250 for 250 mm

Bolt Cutters, Straight Edge (Bolt Clippers)

Cortavillas ボルトクリッパー 直线螺栓剪

For cutting mild steel, rods, bolts, wire, etc. Jaws are drop forged of special tool steel. Generally recommended for all around work with soft materials. Jaws are replaceable.



Complete Cutter

Spare Jaw for Straight Bolt Cutter

Unit Per Pr. Unit Per Pcs.

CODE	Length mm	Maximum Cut Dia.	CODE	Length mm	Maximum Cut Dia.
61 18 60	300	5 mm	61 18 71	300	5 mm
61	350	6	72	350	6
62	450	7	73	450	7
63	600	10	74	600	10
64	750	13	75	750	13
61 18 65	900	16	61 18 76	900	16
66	1,050	18	77	1,050	18

Bolt Cutters, Straight Edge

Cortarillas/Mango Aislado ボルトクリッパー 直线螺栓剪

Insulated handle type is tested to withstand 1,000 volts.



Insulated Handle

61 18 80	Cutter, bolt straight edge, 620 mm, cutting capacity 8 mm diam. handle insulated	Pr.
81	Spare jaw for insulated bolt cutter, 620 mm	Pc.

Non-Insulated Handle

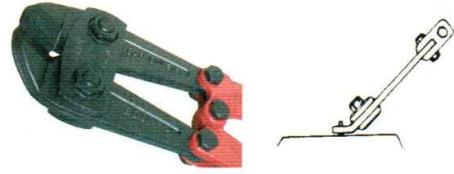
61 18 83	Cutter, bolt straight edge, 620 mm, cutting capacity 8 mm diam. handle non-insulated	Pr.
84	Spare jaw for non-insulated bolt cutter, 620 mm	Pc.

Bolt Cutters, Angle Edge

Cortavillas, Filo Angular

アンダルカッター 弯形螺栓剪

Designed for cutting mild steel rods, bolts, wire, etc. at a raised angle. Even if the bolt is set against a flat surface, it is possible to use these cutters because they will fit flush against the surface for a straight cut.



Complete

Spare Jaw for Angle Edge Bolt Cutter

Unit Per Pr. Unit Per Pcs.

CODE	Length mm	Maximum Cut Dia.	CODE	Length mm	Maximum Cut Dia.
61 18 90	300	5 mm	61 18 93	300	5 mm
91	450	7	94	450	7
92	600	10	95	600	10

Wire Rope Cutters

Cortadores para Cuerda de Alambre

ワイヤーロープカッター 钢丝剪

Designed specially for cutting wire ropes. The cutting edges pass each other for complete shear action resulting in a clean, sharp cut. A notched jaw holds the wires in place while cutting and minimizes the crushing and deformation of the wires.



Complete

Spare Jaw for Wire Rope Cutter

Unit Per Pr. Unit Per Pcs.

CODE	Length mm	Maximum Cut Dia.	CODE	Length mm	Maximum Cut Dia.
61 19 01	600	10 mm	61 19 06	600	10 mm
02	750	14	07	750	14
03	900	16	08	900	16
04	1,050	20	09	1,050	20

Cable Cutters

Cortante Cables Acero ケーブルカッター 电缆剪

Designed for electric cables, of copper, aluminium, etc. Notched jaw holds and cuts cables in a clean and sharp way.



Complete

Unit Per Pr.

CODE	Model No.	Length mm	Maximum Cut Dia.
61 19 20	1	450	20 mm
21	2	750	30 mm
22	3	1,050	50 mm

Spare Jaw for Cable Cutters

Unit Per Pcs.

CODE	Model No.	Length mm	Maximum Cut Dia.
61 19 25	1	450	20 mm
26	2	750	30 mm
27	3	1,050	50 mm

Cable Cutters

Tenaza Cortacables Eléctrico/Mango Aislado
絶縁ケーブルカッター 绝缘电缆剪

Same as the above cutters but the insulated handle type is tested to withstand 1,000 volts.



Insulated Handle		
CODE	Cutter, cable 535 mm, cutting capacity 20 mm dia. handle insulated	Pr.
61 19 31		
Non-Insulated Handle		
32	Spare jaw for insulated cable cutter, 535 mm	Pc.
61 19 33	Cutter, cable 535 mm, cutting capacity 20 mm dia. handle non-insulated	Pr.
34	Spare jaw for non-insulated cable cutter, 535 mm	Pc.

Ratchet Type Cable Cutters

Insulated Handle

Cortadores de cables tipo trinquete, mango aislado

ラチェット式絶縁ケーブルカッター

棘轮式绝缘电缆剪

For cutting copper and aluminium single conductors as well as multiple stranded cables. Insulated with multi-component grips to withstand up to 1,000 Volts. Two-stage, three-stage ratchet-drive with high leverage enables easy cutting in one-hand and two-hand operation. *Not suitable for cutting steel and wire ropes.



Two-Stage Ratchet Drive



Three-Stage Ratchet Drive

CODE	Length mm	Ratchet Drive	Cutting Capacities			Weight grm	Unit Per Pr.
			Max.Dia mm	mm ²	MCM		
61 19 37	250	2-Stage	32	240	500	652	
61 19 38	280	2-Stage	52	380	750	835	
61 19 39	320	3-Stage	60	600	1,200	830	

MCM: Thousands of circular mils, same as kcmil.
Ref.: Knipex Model No. 95 36 250 / 95 36 280 / 95 36 320

Portable Midget Cutters

Tenazas Pegueñas Cortacables Eléctrico

ミジェットカッター

便携式弹簧剪

A portable tool for cutting spring wire of a diameter of up to 4 mm. The jaws are riveted to the handle so they are not replaceable. The handles are knurled and covered in plastic. These cutters are easy to handle as they weigh only 300 grms and are of a length of only 200 mm.



61 19 36	Cutter, midget, portable 200 mm	Pr.
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Rod Cutters

Cortavillas 鉄筋カッター 钢筋剪

A heavy duty, improved bench type rod and bolt cutter. The handle end is covered by rubber to avoid slipping during use. Capable of cutting rods and bolts of a diameter of up to 16 mm.



Complete

Spare Jaw for Rod Cutter

Complete			Spare Jaw for Rod Cutter		
CODE	Length mm	Maximum Cut Dia.	CODE	Length mm	Maximum Cut Dia.
61 19 50	766	10 mm	61 19 55	766	10 mm
51	1,090	13	56	1,090	13
52	1,290	16	57	1,290	16

Metal Bench Shears

Cizalla Manual Chapa レバーシャー 台式螺栓剪

A heavy duty, improved, bench type iron sheet and rod cutter. This unit can be permanently mounted to a bench or bolted to a plank. The cutting lever can be operated with one hand, leaving the other hand free to feed and hold in place the material which is being cut.



Unit Per Set

CODE	Blade Length mm	Cutting Capacity mm		Size mm	Weight kg
		Iron Sheet	Iron Round		
61 19 64	120	3.0	6	370 x 300	9.5
65	160	4.0	6	400 x 325	11.5
60	180	3.2	13	370 x 300	35
61	200	5.0	8	495 x 350	22
62	250	6.5	8	485 x 335	35
63	300	3.2	13	485 x 335	13

Hydraulic Wire Rope Cutters

Cortante hidráulico para Cables de Acero

油压ワイヤーロープカッター 液压式钢丝剪

Designed for manually cutting wires with hydraulic power. Gives a clean cut with a few strokes of the handle without requiring any outside power. Can be carried to the job and placed anywhere, no firm base is required. Essential for cutting and splicing wire rope. Be sure to unscrew the die plug before use and to retighten it after use.



Unit Per Set

CODE	Maximum Cut Diam mm	Dimensions mm	Weight kg
61 19 70	20	310 x 90 x 152	10
71	30	380 x 105 x 180	15
72	40	400 x 120 x 200	20
61 19 73	50	485 x 130 x 220	30
74	60	630 x 175 x 270	70
75	100	1,000 x 600 x 360	200

Gasket and Washer Cutters

Juego Máquina Cortar Juntas

バッキングカッター 垫片(圈)剪

Designed for cutting gaskets or washers from leather, paper, or rubber sheets up to a diameter of 600 mm/24". The knife and center are made of tool steel, are well tempered, and adjustable. A tool box is furnished with the cutter.



61 20 01	Cutter, gasket and washer, set	Set
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7. Packing Hooks

Packing Hook Sets

Juego Extractor Empaqueadura

バッキングフックセット 盼更钩子组

The shank consists of one inner spiral shaft wrapped with an outer spiral of steel wire laid in the opposite direction. The flexible shaft has a solid handle and the hook is carefully tempered and pointed.



61 20 04	Packing hook set, complete	Set
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Packing Hooks

Extractor Empaqueadura バッキングフック 盼更钩子

Individual packing hooks from the above set.



How to order: CODE

Packing hook, NAME, LENGTH

Unit Per Pcs.

CODE	Name	Length mm	For Packing Size mm
61 20 06	Flex	185	Flex 3.2 ~ 6.4
		215	" 6.4 ~ 9.6
		255	" 9.6 ~ 16.0
		380	" 16.0 ~ 25.4
		600	" 25.4 ~ 38.1
		800	" 38.1 ~ 50.8
61 20 12	Stick	240	
13	Hook & Ring	200	

Single Wheel Pipe Cutters

Cortabulos de una sola Cuchilla

トライモ形パイプカッター 单轮式切管器

Equipped with either a heavy duty cutter wheel or a thin blade wheel which are forged from tool steel and assembled in solid steel bushed hubs.

The cutter has powerful, malleable alloy frames which insure perfect tracking. Extra wheels available.



Pipe Cutter

Unit Per Set

CODE	For Pipe Size in Inches	Overall Length
61 20 20	1/8 - 1-1/4"	335 mm
	21	435
61 20 22	1/2 - 3"	540

Spare Wheel

Unit Per Pcs.

61 20 23	1/8 - 1-1/4", 1/8 - 2"	O.D. 32 mm
24	1/2 - 3"	" 35

Chain-Type Pipe Cutters

Cortabulos Tipo Cadena チューン式パイプカッター

链式切管器

Designed for cutting large sized pipes easily. By cranking the lever, ratchet action tightens the cutting blades against the pipe while continually increasing the cutting pressure on the pipe. Because of the ratcheting action only a small amount of force is required on the lever itself.



61 20 25	Cutter, pipe, chain-type 75 to 250 mm	Pcs.
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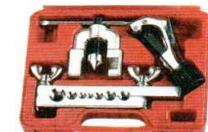
Cutting & Flaring Tool Sets

Abocinador Conjunto

チューブフレアリングカッターツールセット

切管工具组

Designed for cutting or flaring copper, brass or aluminium tubes. The set consists of one cutter, flaring bar and yoke.



Unit Per Set

CODE	Capacity of Cutting & Flaring	
61 20 30	mm . . .	5 to 12 with Cutter
31	in . . .	3/16 to 5/8 with Cutter
32	mm . . .	12 to 20 without Cutter

Copper & Brass Tube Cutters

Cortabulos para Cobre y Latón チューブカッター

切铜管器

Designed for the cutting and flaring of small copper, brass or aluminium tubes. The cut will be absolutely clean (no distortion or burr) and ready for soldering. Extra blades are available.



CODE	For Tube Size O.D. mm	CODE For Extra Blade
61 20 35	3 - 30 mm	61 20 45
36	5 - 45	46
37	6 - 60	47

8. Tube Expanders

Tube Flaring Expanders

Abocinador - Expander

チューブエキスパンダー 扩管器

For condenser, heat exchanger and similar types of tubes. Made of special selected and hardened tool steel. When ordering, please select the largest size of expander which will fit for the inner tube diameter.



Unit Per Pc.

CODE	Enters I.D. tube & Expands to		Square Shank mm
	mm	Equiv. in	
61 20 51	6.4 to 7.5	1/4 to 5/16	8
52	9.5 to 11	3/8 to 7/16	8
53	13 to 15	1/2 to 19/32	8
54	16 to 18.5	5/8 to 3/4	8
55	19 to 22	3/4 to 7/8	9.5
61 20 56	22 to 25.5	7/8 to 1	9.5
57	25 to 29.5	1 to 1-3/8	9.5
58	29 to 33.5	1-1/8 to 1-5/16	12.7
59	32 to 36.5	1-1/4 to 1-7/16	12.7
60	35 to 40	1-3/8 to 1-9/16	12.7

9. Screwdrivers

Screwdrivers, Wood Handle

Destornilladores, anglo de Madera/Uso Intensivo

木柄貫通ドライバー 木柄一字螺丝刀（重型）

Heavy Duty

Tungsten alloy steel blades are pierced through a hard wood handle. The end is reinforced with a large nut that permits hammering. When ordering, please indicate the blade length for the slotted type, not the overall length. For Phillips type screwdrivers, please order according to the indicated number.



How to order: CODE

Screwdriver, wood handle, heavy duty, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

+ Phillips Screwdriver

CODE	Blade Length mm	Blade Width	CODE	No.	Blade Length mm
					Unit Per Pc.
61 22 01	50	4.5 mm	61 22 11	No. 0	75
02	75	5.5	12	No. 1	75
03	100	6.0	13	No. 2	100
04	125	7.0	14	No. 3	150
05	150	8.0	15	No. 4	200
61 22 06	200	9.0			
07	250	10.0			
08	300	10.0			

General Purpose

Tungsten alloy steel blades are set securely in hard wood handles. The required size must be ordered according to the blade length for the slotted type, not by the overall length. For Phillips type screwdrivers, please order according to the indicated number.



How to order: CODE

Screwdriver, wood handle, general purpose, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

+ Phillips Screwdriver

Unit Per Pc.

CODE	Blade Length mm	Blade Width	CODE	No.	Blade Length mm
61 22 31	50	4.5 mm	61 22 41	No. 0	75
32	75	5.5	42	No. 1	75
33	100	6.0	43	No. 2	100
34	125	7.0	44	No. 3	150
35	150	8.0	45	No. 4	200
61 22 36	200	9.0			
37	250	10.0			
38	300	10.0			

Screwdrivers, Plastic Handle

Heavy Duty

Destornilladores, Mango de Plástico/Uso Intensivo

プラス柄絶縁ドライバー 塑料柄一字螺丝刀（重型）

Tungsten alloy steel blades are interlocked firmly to plastic handles which are hammer-proof and unbreakable. Handles are insulated to withstand up to 1,000 AC voltage for insulated type. The required size must be ordered according to the blade length for the slotted type, not by the overall length. For Phillips type screwdrivers, please order according to the indicated number.



Insulated Handle

How to order: CODE

Screwdriver, plastic handle, insulated heavy duty, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

+ Phillips Screwdriver

Unit Per Pc.

CODE	Blade Length mm	Blade Width	CODE	No.	Blade Length mm
61 22 61	50	4.5 mm	61 22 71	No. 00	75
62	75	5.5	72	No. 0	75
63	100	6.0	73	No. 1	75
64	125	7.0	74	No. 2	100
65	150	8.0	75	No. 3	150
61 22 66	200	9.0	61 22 76	No. 4	200
67	250	10.0			
68	300	10.0			

Non-insulated Plastic Handle

How to order: CODE

Screwdriver, plastic handle, non-insulated, heavy duty, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

+ Phillips Screwdriver

Unit Per Pc.

CODE	Blade Length mm	Blade Width	CODE	No.	Blade Length mm
61 21 81	50	4.5 mm	61 21 91	No. 00	75
82	75	5.5	92	No. 0	75
83	100	6.0	93	No. 1	75
84	125	7.0	94	No. 2	100
85	150	8.0	95	No. 3	150
61 21 86	200	9.0	61 21 96	No. 4	200
87	250	10.0			
88	300	10.0			

Screwdrivers, Plastic Handle

Square Blade

Destornilladores, Mango de Plástico/Varilla Cuadrada

スクエアドライバー 一字型螺丝刀（塑料柄）

Tungsten alloy steel square blade, heat-treated and chromed. The required size must be ordered according to the blade length for the slotted type, not by the overall length. For Phillips type screwdrivers, please order according to the indicated number.



- Slotted



+ Phillips

How to order: CODE

Screwdriver, plastic handle, square blade, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

+ Phillips Screwdriver

Unit Per Pcs.

CODE	Blade Length mm	Blade Width mm	CODE	No.	Blade Length mm
61 22 90	75	5.5 mm	61 22 95	No. 1	75
91	100	6.0	96	No. 2	100
92	150	8.0	97	No. 3	150
87	200	8.0	98	No. 4	200
88	250	8.0			
61 22 89	300	10.0			

61

Hand Tools

Electrician's Screwdrivers

Destornilladores de Electricistas 電工用ドライバー 电工螺丝刀

Designed with a large wood on synthetic handle for electricians continuous lining works. When ordering, please indicate the blade length for the slotted type, not the overall length.



How to order: CODE

Screwdriver, electrician, wood handle, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

Unit Per Pcs.

CODE	Blade Length mm	Blade Width mm	CODE	No.	Blade Length mm
61 23 01	50	7.0 mm	61 23 04	125	9.0 mm
02	75	5.5	05	150	6.0
03	100	5.5	06	200	6.0

+ Phillips Screwdriver

Unit Per Pcs.

CODE	Blade Length mm	No.	CODE	Blade Length mm	No.
61 23 11	75		61 23 08	100	
12	100	No. 1	14	150	
13	150		15	200	No. 2

61 23 09

150

No. 3

Insulated Screwdrivers

Resistance up to 1,000 Volts

Conformed to IEC 60900 / DIN EN 60900

Destornilladores aislados, Resistencia hasta 1.000 voltios

絶縁型スクリュードライバー (耐震圧 1,000V)

隔离螺丝刀 (抗震压力 1 000V)

The essential screwdriver for

electrical installation work,

fully insulating to reduce risk

of short circuit up to AC 1,000V and DC 1,500V. Insulation standard: IEC 60900 DIN EN 60900.



- Slotted Screwdriver

+ Phillips Screwdriver

Unit Per Pcs.

CODE	Blade Length mm	Blade Width mm	CODE	No.	Blade Length mm
61 23 31	80	2.5 mm	61 22 36	No. 1	75
32	100	4.0	37	No. 2	100
33	125	5.5	38	No. 3	150
34	150	6.5	39	No. 4	200
35	175	8.0			

Stubby Screwdrivers

Wood or Plastic Handle

Destornilladores Cortos, Mango de Madera o de Plástico "Carrocero"

スタビードライバー

短柄螺丝刀

For work in close quarters. The plastic handle screwdrivers are more popular than the wood ones. Plastic handle screwdrivers will be supplied unless specified otherwise.



Wood Handle

Plastic Handle

How to order: CODE

Screwdriver, stubby, WOOD, or PLASTIC HANDLE, BLADE LENGTH (Slotted), or NO. (Phillips)

Wood Handle

Plastic Handle

Unit Per Pcs.

CODE	No.	Blade Length mm	CODE	No.	Blade Length mm
61 23 21	Slotted	38	61 23 24	Slotted	38
22	(+) No. 1	38	25	(+) No. 1	38
23	(+) No. 2	38	26	(+) No. 2	38

Screwdrivers, Plastic Ratchet Handle

Destornilladores, Mango de Carraca de Plástico

ラチェット付 ドライバー

塑料棘轮手柄一字螺丝刀

Can be used in several ways. The handle can tighten and revolve freely back like a ratchet handle or it can operate in the normal way when put in a neutral ratchet gear.



How to order: CODE

Screwdriver, ratchet, plastic handle, BLADE LENGTH (Slotted), or NO. (Phillips)

- Slotted Screwdriver

+ Phillips Screwdriver

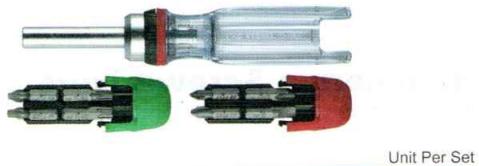
Unit Per Pcs.

CODE	Blade Length mm	Blade Width mm	CODE	No.	Blade Length mm
61 23 41	100	5.0 mm	61 23 43	No. 1	100
42	100	6.0	44	No. 2	100

Ratchet Screwdrivers with Interchangeable Bits

Destornillador de Trinquete con Brocas Intercambiables
替えビット式ラチェットドライバー 赫轮螺丝批

Supplied with four sizes of magnetic interchangeable bits.
They are stored inside the handle.



Unit Per Set

CODE	Blade Length mm	Overall Length mm	Bit's Size
61 23 46	112	227	-5 x 25 mm / -7 x 25 mm #1 x 25 mm / #2 x 25 mm

Hexagon Nut Drivers

Destornilladores Hexagonales para Tuerca "Stecker"
ボックスドライバー 六角螺母螺丝刀

The wood handle with a heat-treated on plastic handle and chromed blade.
The size must be ordered according to the opening across flats.



Unit Per Pcs.

CODE	Opening mm	Blade Length mm	Overall Length mm
Wood Handle			
61 23 51	4.0	75	170
52	5.0	115	210
53	5.5	115	210
54	6.0	115	220
55	7.0	125	230
61 23 56	8.0	125	230
57	9.0	125	250
58	10.0	125	250
59	11.0	125	250
60	12.0	150	292
61 23 61	13.0	150	292
62	14.0	150	292
63	17.0	150	313

CODE	Opening mm	Blade Length mm	Overall Length mm
Plastic Handle			
61 23 91	4.0	75	155
67	5.0	75	155
68	5.5	75	155
69	6.0	75	155
70	7.0	75	155
61 23 92	8.0	75	155
71	9.0	75	155
72	10.0	75	155
93	11.0	75	155
94	12.0	75	155
61 23 95	13.0	75	155
96	14.0	75	155
97	17.0	75	155

Hexagon Nut Driver Sets

Juegos de Destornilladores Hexagonales para Tuerca "Stecker"

ナットドライバーセット 六角螺母螺丝刀组

Deep socket type nut drivers provided as a set with a steel holding rack. The set consists of 7 nut drivers ranging from 5 mm to 12 mm in size.



61 23 66	Nut driver set, 5 mm - 12 mm, 7 pcs	Set
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Flexible Blade Nut Drivers

Destornilladores para Tuerca con Varilla Flexible
自在ボックスドライバー 弹性刀杆螺帽刀

The flexible blade is made of a specially designed spring which will bend and allow you to set nuts around corners and in places where straight blades cannot be used. When ordering, please specify the size, not by the bolt size, but by the size between the two parallel walls of the nut driver socket.



Unit Per Pcs.

CODE	Opening mm	For Bolt Size ISO mm	Overall Length mm
61 23 75	5.5	3	226
76	7	4	226
77	8	5	226

Screwdrivers with Gripping

Destornilladores Sacatornillos
ビスキャッチドライバー 带夹具螺丝刀

Heat-treated, hardened, alloy steel blades. Plastic handle and precision ground tips. Positive gripping mechanism. Can be worked on screws in hard-to-reach places with the assurance that the screw will stay on the blades.



- Slotted Screwdriver

+ Phillips Screwdriver

Unit Per Pcs.

CODE	Blade Length mm	Blade Width mm	CODE	No.	Blade Length mm
61 23 81	100	4.5 mm	61 23 87	No. 00	75
82	100	2.6	88	No. 20	100
83	150	4.5			
84	150	2.6			

Offset Screwdrivers

Destornilladores Acodados オフセット ドライバー 扁颈螺丝刀

For work in close quarters. Made from selected alloy steel. Mechanic and Phillips points drivers are available. Chrome plate finished.



Unit Per Pc.

CODE	No.	Blade Diameter mm	Overall Length mm
61 24 01	-5 x -6	6.4	127
	-8 x -9	9.0	152
61 24 03	No.1 & 2	6.4	127
	No.3 & 4	9.0	152
61 24 05	No.1 & -5	5.0	125
	No.2 & -6	6.0	125
	No.3 & -8	8.0	150

Screwdriver Sets, Watch Makers'

Juegos de Destornilladores de Precisión Relojero

時計用精密 ドライバー 6 本組 钟表螺丝刀全套

For precision work with small screws. The end of the handle rotates, permitting your fingers to stay on the end during screwing work. Set supplied in a plastic case.



Unit Per Set

CODE	Blade	Contents	Set
61 24 11	Slotted	Blade width mm 0.9, 1.2, 1.8, 2.3, 3.0, 3.5	6 Pcs
61 24 13	Phillips	Blade width No. 0000, No. 000, No. 00, No. 0, No. 1, No. 1	6 Pcs
61 24 12	Slotted & Phillips	Blade width mm & No. 0.9, 1.2, 1.8, 2.3 mm No.00, No.0	6 Pcs

Spark Testing Screwdriver Sets

In Vinyl Sheath

Juegos de Destornilladores para Comprobar el Voltaje con Varilla Aislada

検電 ドライバー 6 本組

测电螺丝刀全套

For spark testing of low voltage:
100-220V-AC 100-350V-DC

6 various interchangeable bits

61 24 16	Screwdriver, spark testing, Low-voltage 6's	Set
----------	--	-----



For spark testing of high voltage:

2,500-15,000V-AC

6 various interchangeable bits

61 24 17	Screwdriver, spark testing, High-voltage 6's	Set
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Automatic Screwdrivers with Ratchet

Destornilladores Automáticos con Carraca

オートマチック ドライバー 自动棘轮螺丝刀



These screwdrivers work by pushing the handle downward and causing a crank drive inside the ratchet shaft to spin the blade. When the handle is released, the blade extends to its original position. By repeatedly pushing the handle you can set loose screws quickly with a very simple operation. When not in use the interchangeable bits can be stored inside of the handle. The gear blade can be set to rotate in either direction by changing the ratchet gear allowing you to remove screws as well as insert them.

Unit Per Set

CODE	Extend Length	Handle Length	Bit Contents
61 24 21	240 mm	102 mm	Plastic handle, -6, +#1, #2, & one gimlet
22	300	84	Plastic handle, -6, +#1, #2, & one gimlet
23	380	100	Wood handle, -6, +#1 & #2
24	440	100	Wood handle, -6, +#1 & #2
25	620	120	Wood handle, -7, +#2 & #3

Hammering Screwdrivers

Impact Type

Destornilladores/Tipo Impacto

打撃 ドライバー 冲锤螺丝刀

Designed to work with screws that are set tight due to freezing or corrosion. By hammering the head of the screwdriver, a sudden, sharp pressure is applied to the screw causing it to be jarred loose. Supplied with interchangeable bits for rotation in the left or right direction.



61 24 31



61 24 32

Unit Per Set

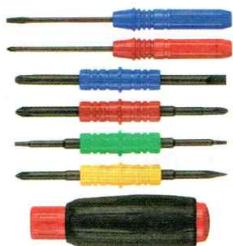
CODE	No. of Bit	Blade Diam	Overall Length	Bit Contents
61 24 31	4's	32 mm	190 mm	- 10 mm + No.2 3 & 4
61 24 32	6's	26 mm	240 mm	- 5, 6, 7 mm + No.1, 2 & 3

Detachable Screwdriver Sets

Juegos de Destornilladores Desmontables

差し替え ドライバーセット 套换式螺丝刀组

Detachable drill bits with plastic handle in a handy plastic case. The drill bits are attached and detached manually by screwing bit chuck at handle.



Unit Per Set

CODE	No. of Bits	Bit Size	Bit Length	Overall Length
61 24 41	4's	-3 / -5 No.1 & 2	90 mm	162 mm
42	5's	-3 / -5 No.1 & 2 Auger	100 mm	182 mm
43	5's	-3 / -4 / -6 No.1 & 2	125 mm	216 mm

Pozidriv Screwdrivers

Destornillador Pozidriv

ボジドライブスクリュードライバー 十字塑料柄精工螺丝批

This unique shape of the bit provides excellent driving control with less operator fatigue. The Pozidriv screw is incorporated with visible ribs in the groove, so Phillips drivers should not be used with Posidriv screws.



Unit Per Pcs.

CODE	Blade Diam mm	No.	Blade Length mm
61 24 51	5	PZ1	75
52	6	PZ2	100
53	8	PZ3	150

Long Blade Screwdrivers

Destornillador de Hoja Larga 角長軸ドライバー 加长型一字螺丝批

Extra long blade screwdrivers with plastic handle.



Unit Per Pcs.

CODE	Blade Width or No.	Blade Diam.	Blade Length
61 24 56	9.0 mm	8 mm	450 mm
61 24 57	No.2	6 mm	450 mm
61 24 58	No.3	8 mm	450 mm

10. Hammers

Ball Pein Hammers

Handled

Martillos de Boda/con Mango 片手ハンマー 球头手锤

The perfect ball pein hammers for all industries. Accurately balanced. Tough drop forged head with a selectively hardened face and pein. Fine quality, lacquer finished, hickory handles shaped for ease in use.



Unit Per Pcs.

CODE	No.	Weight Gram	CODE	No.	Weight Gram
61 25 01	1/4	110	61 25 06	1-1/2	675
02	1/2	225	07	2	900
03	3/4	330	08	2-1/2	1,100
04	1	450	09	3	1,350
05	1-1/4	550			

Blacksmiths' Sledge Hammers Double Face

Maza de Doble Cara/con o sin Mango
両口ハンマー 双面铁锤 (带柄)

Double head hammer with smooth faces furnished with a handle.



Unit Per Pcs.

CODE	No.	Weight kg	CODE	No.	Weight kg
61 25 21	No. 2	0.9	61 25 29	No. 14	6.3
22	3	1.3	30	15	6.7
23	4	1.8	31	16	7.2
24	5	2.2	32	18	8.1
25	6	2.7	33	20	9.0
61 25 26	8	3.6	61 25 34	22	9.9
27	10	4.5	35	25	11
28	12	5.4	36	30	13.5

Smooth & Cross Pein Hammers

with or without Handle

Martillos de Cruz/con o sin Mango
片口ハンマー 横头大锤 (带手柄)



Smooth and cross pein head. Specify whether you need a hammer with or without a handle. The hammer-head will be furnished without a handle unless otherwise specified.

With Handle		Without Handle			
CODE	No.	Weight kg	CODE	No.	Weight kg
61 25 61	2	0.9	61 25 81	2	0.9
62	3	1.3	82	3	1.3
63	4	1.8	83	4	1.8
64	5	2.2	84	5	2.2
65	6	2.7	85	6	2.7
61 25 66	8	3.6	61 25 86	8	3.6
67	10	4.5	87	10	4.5
68	12	5.4	88	12	5.4
69	14	6.3	89	14	6.3
70	15	6.7	90	15	6.7
61 25 71	16	7.2	61 25 91	16	7.2
72	18	8.1	92	18	8.1
73	20	9.0	93	20	9.0
74	22	9.9	94	22	9.9
75	25	11.0	95	25	11.0
61 25 76	30	14.0	61 25 96	30	14.0

Testing Hammers

Handled

Martillo Inspección/con Mango
テストハンマー 检验用手锤

For testing and investigating boilers, welding joints, hulls, etc. Designed for detecting structural defects by the sound created from the hammering. Made from specially selected alloy steel with a hickory handle.



Unit Per Pc.

CODE	61 26 01	61 26 02	61 26 03
No.	1/4	1/2	3/4
Weight	110 grm	225 grm	330 grm

Bell Face-Hand Hammers

*with Nail Puller, Handled
(Claw Hammers)*

Martillos Uñas/con Mango 釘拔付ハンマー 钟面羊角锤（带柄）

Drop forged of specially heat-treated steel. Round bell face enables easier driving of nails close to butting surfaces and in corners.



Unit Per Pc.

CODE	61 26 06	61 26 07	61 26 08
Weight	330 grm	450 grm	550 grm

Chipping Hammers

Handled

Piqueta con Mango ケレンハンマー 敲锈锤（连柄）

Designed for removing boiler, scale, rust or paint on vessels, etc. Forged from a special grade of steel. Handle made of hard wood.



Unit

CODE	Weight	Unit
61 26 11	225 grm	Pc.
12	450 grm	"

Combination Hammers

Handled

Martillos Combinados o de bocas de Intercambio/con Mango

コンビネーションハンマー

双面锤（带铁头和塑料头）



Hammer-head made of a combination of iron and hard plastic.

Unit Per Pc.

CODE	61 26 16	61 26 17	61 26 18
Nos.	1/2	1	2
Weight	0.225 kg	0.45 kg	0.9 kg

Carpenter Hammers

Tubular Steel & Cushion Grip

Martillos de Carpintero/Mango de Goma

ゴム柄ハンマー 木工锤（连柄）



Tubular steel handle with rubber cushion grip. The head has been designed with one round faced end and one end as a nail puller.

Unit Per Pc.

CODE	61 26 21	61 26 22
Weight	450 grm	550 grm

Copper Hammers

Handled

Maza de Cobre/con Mango 銅ハンマー

紫铜锤（连柄）

A polished face hammer fitted securely to a hard wooden handle.



Unit Per Pc.

CODE	No.	Weight kg	CODE	No.	Weight kg
61 26 41	1/2	0.25	61 26 45	3	1.5
42	1	0.5	46	4	2.0
43	1-1/2	0.75	47	5	2.5
44	2	1.0			

Copper Hammers

with Replaceable Tip and Handle

Martillos de Cobre/con Mango y Bocas de Intercambio

替頭式銅ハンマー

锤头可换式紫铜锤（连柄）

Copper hammer with replaceable spare tip and handle. The head and the handle can be furnished separately.



Complete

Unit Per Pc.

CODE	No.	Weight kg	CODE	No.	Weight kg
61 26 51	1/2	0.25	61 26 55	3	1.35
52	1	0.45	56	4	1.8
53	1-1/2	0.65	57	5	2.25
54	2	0.9			

Spare Tip

Spare Handle

Unit Per Pc.

CODE	Head No.	CODE	Head No.
61 26 61	1/2	61 26 71	1/2
62	1	72	1
63	1-1/2	73	1-1/2
64	2	74	2
65	3	75	3
61 26 66	4	61 26 76	4
67	5	77	5

Lead Hammers

Handled

Maza de Plomo/con Mango 鉛ハンマー

铅锤（连柄）

A polished face hammer fitted securely to a hard wooden handle.



Unit Per Pc.

CODE	No.	Weight kg	CODE	No.	Weight kg
61 26 81	1/2	0.25	61 26 85	3	1.5
82	1	0.5	86	4	2.0
83	1-1/2	0.75	87	5	2.5
84	2	1.0			

Brass Hammers

Handled

Maza de Latón/con Mango 真鍮ハンマー 黄铜锤（连柄）

A polished face hammer fitted securely to a hard wooden handle.



Unit Per Pc.

CODE	No.	Weight kg	CODE	No.	Weight kg
61 26 91	1/2	0.25	61 26 95	3	1.5
92	1	0.5	96	4	2.0
93	1-1/2	0.75	97	5	2.5
94	2	1.0			

Aluminium Hammers

Handled

Martillos de Aluminio/con Mango アルミハンマー 铝锤（连柄）

A polished face hammer fitted to a hard wooden handle which is light and easy to use for extended periods of time.



Unit Per Pc.

CODE	No.	Weight kg	CODE	No.	Weight kg
61 27 01	1/2	0.1	61 27 05	4	0.5
02	1	0.2	06	10	1.5
03	2	0.3	07	20	3.0
04	3	0.45			

Plastic Hammers

Handled and Replaceable Tips

Martillos de Plástico con Mango/y Bocas intercambiables 替頭式ソフトハンマー 锤头可换式塑料锤

Furnished with replaceable round tips of tough plastic.



Unit Per Pc.

CODE	No.	Head Diam. mm	Weight kg
61 27 21	1/2	25	0.22
22	1	31	0.4
23	1-1/2	38	0.63
24	2	46	0.98

Spare Tip

Unit Per Pc.

CODE	No.	CODE	No.
61 27 31	1/2	61 27 33	1-1/2
32	1	34	2

Rubber Hammers

Handled

Maza de Goma con Mango ゴムハンマー 橡胶锤（连柄）

Soft but tough, non-flaking neoprene head prevents damage to the surface being worked on.



Unit Per Pc.

CODE	No.	Head Diam. mm	Weight kg
61 27 51	1/2	46	0.31
52	3/4	48	0.46
53	1	60	0.58
54	1-1/2	67	0.82

Wood Mallet Hammers

Handled

Maza de Madera/con Mango 木槌 小木槌

Head and handle manufactured of selected hardwood. Head finished with a bright varnish.



Unit Per Pc.

CODE	Face Diam.	CODE	Face Diam.
61 27 61	50 mm	62	60

Hammer Handles, Hard Wood

Mango de Martillo, Madera (Dura) de Fresno o Haya

ハンドル柄 木锤柄

Tough hard wood handle shaped and finished for a comfortable, sure grip.



Unit Per Pc.

CODE	Length mm	CODE	Length mm
61 27 75	300	61 27 78	600
76	330	79	900
77	450	80	1,200

Handles for Testing and Chipping Hammers:

Unit Per Pc.

CODE	For	Hammer Weight
61 27 82		110 grm
83	Testing Hammer	225
84		330
61 27 86	Chipping Hammer	225 grm
85		450

Steel Wedges for Hammer

Cuña de Acero para Martillo スチールウエッジ 锤用钢楔

Used to tightly wedge a wooden handle to a hammer-head.



Unit Per Pc.

CODE	61 27 91	61 27 92	61 27 93
Size	7 x 16 mm	14 x 16 mm	20 x 27 mm

11. Glass Cutters

Glass Cutters

Cortavidrios ガラス切り 玻璃刀

These glass cutters are for cutting straight plate glass with the use of straight scales. Industrial diamonds are used for the cutting point to ensure easy cutting.



Unit Per Pc.

CODE	For Glass Thickness	CODE	For Glass Thickness
61 28 01	2 - 3 mm	61 28 03	5 - 10 mm
02	3 - 5		

Circle Glass Cutters

Cortadores para Cristal Circular 棒付丸ガラス切り 切玻璃圆规

These glass cutters are designed for cutting round glass pieces in the range between 80 to 600 mm.



The cutting points are made of industrial diamonds and on the other end of the glass cutter is a special rubber piece fitted to ensure a correct, even cut.

61 28 05	Glass cutter, max cutting diam. 600 mm	Pc.
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12. Bars / Nail Pullers

Carpenters' Pincers

Plastic Coated Handle

Tenazas para Carpintero くぎ抜き 牛头钳



Extreme wear resistance and good balance. Made of special tool steel, oil-hardened and tempered.

Unit Per Pr.

CODE	Length mm	Weight grm	CODE	Length mm	Weight grm
61 28 32	160	225	61 28 35	225	435
33	180	325	36	250	600
34	210	415	37	300	900

Ref.: Knipex Model No. 50 01 160 / 180 / 210 / 225 / 250 / 300

Claw and Nail Puller Bars

Desencofradores 段付カジヤバール 起钉撬棒



Pull and pry bar with one 90° end and one smoothly curved end to suit use on a variety of surfaces.

Unit Per Pcs.

CODE	Length mm	CODE	Length mm
61 28 41	200	61 28 45	330
42	240	46	360
43	260	47	460
44	300		

Claw and Chisel End Bars

Desencofradores "Garra y Cincel" 平カジヤバール 起钉器及凿子端杆



Made of forged steel and heat-treated. Curved claw is offset 90°, pointed and polished.

Unit Per Pcs.

CODE	Length mm	CODE	Length mm
61 28 51	300	61 28 56	500
52	330	57	540
53	360	58	600
54	390	59	750
55	450	60	900

Straight Pinch and Chisel End Bars

Desencofradores "Punzón y Cincel"

直バール 叉头弯凿撬棒



A multi purpose pinch bar.

Unit Per Pcs.

CODE	Length mm	CODE	Length mm
61 28 65	600	61 28 66	900

Gooseneck Type Bars

Desencofradores Tipo "Cuello de Ganso"

グースネックバール 鹅颈撬棒

One end is a pointed chisel and the other is a rounded nail puller.



Unit Per Pcs.

CODE	Length mm	61 28 71	61 28 72	61 28 73
		600	900	1,200

Crowbars

Palancas de Acero クローバー 撬棍

Iron lever with a forked wedge.



Unit Per Pcs.

CODE	Length mm	Weight kg	CODE	Length mm	Weight kg
61 28 81	850	4	61 28 84	1,200	8
82	950	5	85	1,350	9
83	1,150	6	86	1,500	10

Giant Nail Pullers

Extracores de Clavos Gigantes 西洋釘拔 西洋起钉器

Forged steel shank with hand guard and automatic claw. Overall length: 460 mm.



61 28 90	Nail, puller, giant type, 460 mm
----------	----------------------------------

Pcs.

13. Chisels

Chisels

Cinceles タガネ 凿

Cold Chisel

These chisels are made of tough selected alloy steel which has been carefully tempered to assure toughness and ample strength.



Unit Per Pcs.

CODE	Blade Width mm	Length mm	CODE	Blade Width mm	Length mm
61 29 01	6	125	61 29 05	19	190
02	9	140	06	22	200
03	13	160	07	25	215
04	16	175	08	32	225

Cape Chisel

Made from special selected alloy steel. Lacquered body and polished blade.



Unit Per Pcs.

CODE	Blade Width mm	Length mm	CODE	Blade Width mm	Length mm
61 29 11	3	150	61 29 14	7.5	175
12	4.5	150	15	9	200
13	6	175	16	13	200

Hand Tools

Concrete Chisel

Made from selected alloy steel. Well balanced and finished in blue lacquer with a polished point.



Unit Per Pc.

CODE	Blade Width mm	Length mm	CODE	Blade Width mm	Length mm
61 29 21	9	120	61 29 25	22	240
22	13	150	26	25	270
23	16	180	27	32	300
24	19	210			

Offset Caulking Chisel

Unit Per Pc.

CODE	Length mm	CODE	Length mm
61 29 31	150	61 29 36	400
32	200	37	450
33	250	38	500
34	300	39	550
35	350	40	600

Cross Cut Cold Chisels**with Wooden Handle**

Tajadera 生切柄付タガネ 横切冷凿 (木柄)

Made with carbon black finish and fitted to a hardened wood handle.



Unit Per Pc.

CODE	61 29 51	61 29 52	61 29 53
Blade Width & Length mm	25 x 125	32 x 140	38 x 150

Cross Cut Hot Chisels**with Iron Handle**

Cinceles Calientes con Mango de Hierro
柄タガネ 横切热凿 (铁柄)



Made from carbon steel with an iron handle.

Unit Per Pc.

CODE	61 29 57	61 29 58
Blade Width & Length	25 x 125 mm	32 x 140 mm

14. Punches/Stencils**Round Hole Punches**

Sacabocado Cilíndrico 打抜ポンチ 圆冲

Forged from selected tool steel with a fully polished finish.



Unit Per Pc.

CODE	Hole Diam. mm	CODE	Hole Diam. mm
61 30 01	3	61 30 26	28
02	4	07	29
03	5	08	30
04	6	09	31
05	7	10	32
61 30 06	8	61 30 31	33
07	9	12	34
08	10	13	35
09	11	14	36
10	12	15	37
61 30 11	13	61 30 36	38
12	14	17	39
13	15	18	40
14	16	19	41
15	17	20	42
61 30 16	18	61 30 41	43
17	19	22	44
18	20	23	45
19	21	24	46
20	22	25	47
61 30 21	23	61 30 46	48
22	24	23	49
23	25	24	50
24	26	25	
25	27		

Punching Tool Sets

Juego de Sacabocado パッキング打抜工具 冲头组

Used for punching holes in soft brass, copper, and other soft metals as well as leather, canvas, and gasketing materials. A set for 6 to 38 mm is available as standard.



Punching Dies



Punching Table

Unit Per Set

CODE	Hole Size	Contents
Combination Size		
61 30 56	6-38 mm	16 pcs Punching dies (6, 7, 8, 9, 10, 11, 12, 13, 16, 19, 22, 25, 28, 32, 35, 38) 1 pc Punching table

Center Punches

Granetes センターポンチ 中心冲头

Forged from special alloy steel. The tips are accurately centered and the knurled finger grip assures accurate handling.



Unit Per Pc.

CODE	61 30 60	61 30 61	61 30 62
Length	100 mm	125 mm	150 mm

Center Punch Sets**Combination**

Juegos de Granetes センターポンチセット 中心冲头组

Forged, tempered, alloy steel. Center punches of various sizes available in one compact case.



Unit Per Set

CODE	Contents
61 30 65	9 pcs set, Length 150 mm

Pin Rivet Punches

Botadores Cilindricos ピンポンチ 销铆钉冲

Forged from selected alloy steel. For driving out pins and bushings and lining up bolt and rivet holes. Length: 150 mm.



Unit Per Pcs.

CODE	Point mm	CODE	Point mm
61 30 70	2.5	61 30 74	5.5
71	3.0	75	6.5
72	4	76	8
73	5	77	10

Pin Punch Sets Combination

Juegos de Botadores Cilindricos ピンポンチセット 销钉冲



Unit Per Set

Forged, tempered alloy steel. Each set is furnished in a round wooden case. Pointings available are : 2.5 - 3 - 4 - 5 - 5.5 - 6.5 - 8 & 10 mm in diameter. Length: 150 mm.

61 30 80	Punch set, pin, combination 2.5-10 mm, L:150 mm, 8 pcs/set	Set
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Combination Chisel Sets

Juego Cortafrios Combinado

タガネセット 组合凿子组

Forged, tempered alloy steel. Contains 7 different types of chisels in a round plastic case. Shank diameter 8 mm, length 150 mm.



Unit Per Set

61 30 86	Chisel set, combination 150 mm, 7's	Set
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Chisel & Punch Sets Combination

Juegos de Cinceles, punteros Y Granetes

タガネ及びピンポンチセット 凿子及冲头组



Unit Per Set

Forged, tempered alloy steel. Consisting of different chisel and pin punch types in a vinyl case.

Length: 150 mm.

Unit Per Set	
CODE	Contents
61 30 88	7 pcs set Length 150 mm
89	12 pcs set " "

Heavy Duty Wad Punches

Perforadora de arandelas de gran potencia

強力型打ち抜きポンチ

重型冲孔机

A heavy-duty tools designed to cut discs of gasket materials. They are most commonly used to create washers by first cutting a disc with a larger sized wad punch and the centre hole with a smaller sized punch.



CODE	Hole Diam. mm	CODE	Hole Diam. mm	CODE	Hole Diam. mm
61 30 49	6	61 30 82	24	61 31 14	42
50	7		25	15	43
51	8	84	26	27	44
52	9	85	27	28	45
53	10	87	28	29	46
61 30 54	11	61 30 90	29	61 31 30	48
55	12	91	30	97	50
57	13	92	31	98	55
58	14	93	32	99	60
59	15	94	33	61 32 00	65
61 30 63	16	61 30 95	34	61 32 10	70
64	17	96	35	11	75
67	18	97	36	12	80
68	19	98	37	13	85
69	20	99	38	14	90
61 30 78	21	61 31 00	39	61 32 15	100
79	22	12	40		
81	23	13	41		

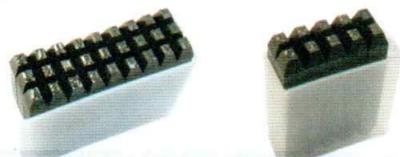
Letter or Figure Sets

In Steel Box

Abecedarios y Nmeración de Golpe

手打印刻、英字又は数字 钢印字母及数字组

This machine processed letter set consists of 27 letters and the character "&". The special machine processed figure set consists of 9 pieces 0 to 8 where as the figure "9" is also to be used as "6". The letters/figures are accommodated in a steel case.



Unit Per Set

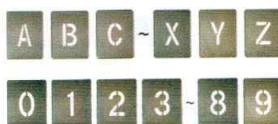
Letter Sets 27 Pieces		Figure Sets 9 Pieces	
CODE	Size mm	CODE	Size mm
61 31 01	1.5	61 31 16	1.5
02	2.0	17	2.0
03	2.5	18	2.5
04	3.0	19	3.0
05	4.0	20	4.0
61 31 06	5.0	61 31 21	5.0
07	6.0	22	6.0
08	8.0	23	8.0
09	10.0	24	10.0
10	13.0	25	13.0
61 31 11	16.0	61 31 26	16.0

Stencil Letter and Figure Sets

Abecedarios y Nmeración de Chapa
ステンシルレター又は数字

字母及数字印花版

Adjustable stencils for letters and figures. Due to a special design, the letters and figures may be joined together to form any word, address, etc. as required. The joined figures and letters are accurately spaced and on an even level to assure a perfect print. The size is taken according to the required height of letters and figures.



How to order: CODE

Stencil, LETTER & FIGURE (LETTER or FIGURE), adjustable brass, SIZE, NUMBERS/set.

Unit Per Set

CODE	Size mm	Description	Set
61 31 31	13		
32	20		
33	25	76 Pieces A to Z and 0 to 9	Letter & Figure
34	30		
35	38		
61 31 36	45		
37	50		
38	60	76 Pieces A to Z and 0 to 9	Letter & Figure
39	75		
40	100		
61 31 61	13		
62	20		
63	25	36 Pieces A to Z and 0 to 9	Letter & Figure
64	30		
80	38		
61 31 81	45		
82	50		
83	60	36 Pieces A to Z and 0 to 9	Letter & Figure
84	75		
96	100		
61 31 41	13		
42	20		
43	25	26 Pieces A to Z only	Letter
44	30		
45	38		
61 31 46	45		
47	50		
48	60	26 Pieces A to Z only	Letter
49	75		
50	100		
61 31 51	13		
52	20		
53	25	10 Pieces 0 to 9 only	Figure
54	30		
55	38		
61 31 56	45		
57	50		
58	60	10 Pieces 0 to 9 only	Figure
59	75		
60	100		

CODE	Weight kg	Overall Length mm	CODE	Weight kg	Overall Length mm
61 31 65	10	285	61 31 73	60	470
66	15	320	74	70	520
67	20	340	75	80	520
68	25	350	76	90	560
69	30	380	77	100	560
61 31 70	35	400	61 31 78	150	665
71	40	405	79	200	700
72	50	420			

Cast Steel Anvils

Yunque de acero Forjado 鋳鋼製アンビル 铸钢砧

Made of cast steel and perfectly heat-treated to assure a long life under heavy working conditions. Painted or furnished in its original colour. Available in weights from 20 to 200 kg.



Unit Per Pcs.

CODE	Weight kg	Overall Length mm	CODE	Weight kg	Overall Length mm
61 31 85	20	325	61 31 91	80	580
86	30	430	92	100	620
87	40	460	93	120	665
88	50	480	94	150	790
89	60	515	95	200	880
61 31 90	70	530			

Blacksmiths' Tongs

Tenazas de Herrero 火造箸 扁嘴打铁钳



Flat

Round

Unit Per Pr.

CODE	Type	Length mm	CODE	Type	Length mm
61 32 01		360	61 32 06		360
02	Flat	450	07	Round	450
03		550	08		550
04		600	09		600

15. Anvils / Blacksmith's Tongs

Anvils

Yunque アンビル 砧子

Cast Iron Anvils

Yunque de Hierro Forjado 鋳鉄製アンビル 铸铁製铁砧

Made of cast iron and heat-treated with plain surfaces. Finished painted or in its original colour. Available in weights from 10 to 200 kg.



16. Scrapers / Scribes

Bearing Scrapers

Rasqueteadores ベアリングスクレーバー 轴承刮刀

These scrapers are forged and perfectly tempered to assure an absolute true shape for scraping jobs on bearings, valves, etc. Highly polished finish.



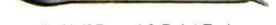
1. With Wooden Handle



2. Flat Double End



3. Half Round & Flat End



4. Half Round & Point End

Unit Per Pc.					
CODE	Type	Length mm	CODE	Type	Length mm
61 32 20	1. With wooden handle	200	61 32 30	3. Half round & flat end	200
21		250	31	240	300
22		280	32	300	360
61 32 25	2. Flat double end	200	61 32 35	4. Half round & point end	200
26		240	36	240	300
27		300	37	300	360
28		360	38		

Stainless steel blade with plastic body, excellent for removing glue, rust or paint from wood or glass surfaces. Ideal for work in close quarters. Blades can be changed easily.



Unit Per Pc.

Scraper Complete		Spare Blade	
CODE	Blade Width mm	CODE	Blade Width mm
61 32 55	25	61 32 58	25
56	45	59	45
57	64		

Hand Scraper for Ice

For cleaning ice and frost from windows. Made of ABS plastic.

61 32 61	Hand Scraper, ice for window	Pc.
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Steel Scribes

Trazadores de Acero Punta Trazar

ケガキ針 钢划针

Points are made of the best quality steel, and properly tempered with twisted center portions for a solid grip.



Unit Per Pc.

CODE	61 32 65	61 32 66
Size	200 mm	250 mm

17. Magnets

Strong Hand Magnets

Imanes Potentes de Mano

強力マグネット 强力磁铁



Unit Per Pc.

CODE	No.	Size mm H x W x T	CODE	No.	Size mm H x W x T
61 32 80	4.5	85 x 65 x 8	61 32 82	10	127 x 93 x 12
81	7.5	105 x 75 x 11	83	15	136 x 110 x 15

18. Saws / Hacksaws

Hand Saws

Serruchos de Carpintero 西洋手挽鋸

手鋸



Unit Per Pc.

CODE	Blade Length mm	CODE	Blade Length mm
61 34 01	450	61 34 03	600
02	500	04	650

Back Saws

(Tenon Saws)

Serrucho de Costilla

バックソー

板锯

Double End Angle Scrapers

Resqueta Angular Doble 共柄スクラーバー

双端弯头刮刀

Made of rounded edge tool steel, hammer forged, and oil finished.



Unit Per Pc.

Deck Scrapers

with Long Handle

Rasqueta Mango Largo 長柄スクラーバー

甲板刮刀

Tempered steel blade of 65 mm width. Furnished with a wooden handle of 1,200 mm length.



61 32 46	Deck scraper with long handle 65 x 1,200 mm	Pc.
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Angle Scrapers with Wooden Handle

Rasqueta Acodada con Mango de Madera

短柄スクラーバー 弯头短柄刮刀(木柄)



Forged steel blade of 45 mm width, overall length: 320 mm.

61 32 48	Angle scraper with wooden handle 45 x 320 mm	Pc.
----------	---	-----

Yacht Type Triangular Scrapers

Basqueta Triangular Tipo Yate

ヨットスクラーバー 快艇用三角刮刀



61 32 50	Triangular scraper, yacht type, 70 x 300 mm	Pc.
----------	--	-----

Hand Scrapers

Raspilla 鉄の爪 手刮刀

For general use in connection with mitre box and cabinet work. Stiff blade with a heavy steel back. Solid hard wood handle.



61 34 07 Back saw 300 mm

Pc.

Unit Per Pcs.

CODE	Type	For Blade Length
61 34 26	Pipe	Adjustable to blades
29	Fixed	For 250 mm
28		For 300 mm

Double Blade Saws

Serrucho de Doble Hoja 両刃鋸 日本式双刃锯

For carpentry use. Double blade saw for rip and cross cutting.



Unit Per Pcs.

CODE	Blade Length mm	CODE	Blade Length mm
61 34 10	210	61 34 13	295
11	240	14	320
12	270		

Compass or Keyhole Saws

Serrucho de Punta 引廻し鋸 鸡尾锯

Steel blade, hardened and tempered. Blade fastened securely to the handle.



61 34 16 Saw, compass, blade length 210 mm

Pc.

Saw Setters

Fijador de Serrucho 鋸目立て 正锯器

For use on setting saw teeth.



61 34 22 Setter saw Japanese type

Pc.

Tiny Hacksaw Frames

Arco de Marquetería 弓鋸弓形锯架

Designed for cutting sheet metal, thin tubing or heavy wires in close quarters. Frames are made of bright finished nickel spring wire. Handle depth is 50 mm and the blades are 150 mm x 6 mm.



CODE	Description	Unit
61 34 23	Tiny hack saw frame with 12 blades	Set
24	Tiny hack saw frame with one blade	"
25	Tiny hack saw blades	Doz

Hacksaw Frames

Acros de Sierra 弓鋸フレーム 锯架

The frames are available in solid type or pipe type. Made of nickel plated steel and polished or buff finished.



Pipe



Fixed

Hacksaw Blades

Hoja de Sierra o Segueta 弓鋸刃 锯条(碳钢)



Carbon Steel Recommended for general use by engineers, mechanics, electricians, plumbers and maintenance men.

Tungsten Alloy Steel Resist breakage, longer wearing and give satisfaction where fast, dependable results are essential.

High Speed Steel Heat resistant and suitable for cutting tough alloy steel.

Choose the right blades for the right works.

14 Teeth Per 25.4 mm..... For cutting soft solid steel, iron, rails, brass, bronze, copper and aluminium.

18 Teeth Per 25.4 mm For cutting tool steels, iron pipes and light angle iron.

24 Teeth Per 25.4 mm..... For cutting drill rods, medium sheet metal, tubing and solid brass.

32 Teeth Per 25.4 mm For cutting thin sheet metal and thin wall tubing.

How to order: CODE

Hacksaw blade, MATERIAL, LENGTH, TEETH per INCH

CODE			Unit Per Doz	
Carbon Steel	Tungsten Alloy Steel	High Speed Steel	Length mm	Teeth Per Inch
61 34 31	61 34 41	61 34 51	250	14
	32	52	250	18
	33	53	250	24
	34	54	250	32
61 34 35	61 34 45	61 34 55	300	14
	36	56	300	18
	37	57	300	24
	38	58	300	32

Machine/Power Saw Blades

Hoja de Segueta para Máquina/Hoja de Sierra

機械用弓鋸刃 机器 / 动力锯刃

Please indicate length and teeth per 25.4 mm.



Tungsten Alloy Steel

How to order: CODE

Machinesaw blade, tungsten alloy steel, LENGTH, THICKNESS, TEETH per INCH

CODE	Specification		Thickness mm	Teeth Per Inch	Unit Per Pc.
	Length mm	Width mm			
61 34 61	300	25	1.25	9	
62	300	25	1.25	10	
63	300	25	1.25	14	
61 34 64	300	25	1.65	9	
65	300	25	1.65	10	
66	300	25	1.65	14	
61 34 67	350	25	1.25	8	
68	350	25	1.25	9	
69	350	25	1.25	10	
61 34 70	350	25	1.65	8	

High Speed Steel

How to order: CODE

Machinesaw blade, high speed steel, LENGTH, THICKNESS, TEETH per INCH

Unit Per Pc.

CODE	Specification		Thickness mm	Teeth Per Inch	Unit Per Pc.
	Length mm	Width mm			
61 34 76	300	25	1.25	9	
77	300	25	1.25	10	
78	300	25	1.25	14	
61 34 79	300	32	1.60	6	
61 34 82	350	25	1.25	6	
84	350	25	1.25	10	
83	350	25	1.25	14	
61 34 87	350	32	1.60	4	
88	350	32	1.60	6	
89	350	32	1.60	10	

61

Hand Tools

19. Pin Vises / Hand Drills

Steel Pin Vises

Broqueros de Acero ピンバイス 工具轧头

For holding drills, taps, needles, files, etc. Jaw hardened and nickel chromed.



Type	CODE	No.	Maximum Jaw open mm	Overall Length mm	Unit Per Pc.
	61 35 01	No. 1	0 ~ 0.6	105	
		2	0 ~ 0.9	108	
		3	0 ~ 1.2	120	
		4	0 ~ 1.2	100	
	61 35 05	No. 5	1.3 ~ 2.2	104	
		6	2.3 ~ 3.2	108	
		7	3.3 ~ 4.2	112	
		8	4.3 ~ 5.2	116	
	61 35 09	No. 4A	0 ~ 1.2	110	
		5A	1.3 ~ 2.2	115	
		6A	2.3 ~ 3.2	120	
		7A	3.3 ~ 4.2	125	
		8A	4.3 ~ 5.2	130	

Hand Chuck Vises with Wood Handle



Broqueros Manuales con Mango de Madera
木柄ビンバイス 手转卡盘钳

Will hold larger diameter tools than the steel pin vise. The 3 jaw chuck locks tight to any device with the indicated diameter.

Unit Per Pc.

CODE	61 35 17	61 35 18
No.	No. 1	No. 2
Jaw Opening	0 - 4 mm	0 - 6 mm

Straight Hand Drills

Three Jawed Chuck



Taladro Manual Rectos/3 Mordazas

手廻しボール（ハンドドリル） 手滚球（手操）

Designed for light drilling work with a 3 jaw-chuck. Used with straight drills maximum up to 10 mm in diameter.

61 35 30	Drill, hand straight 3-jaw chuck	Pc.
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Straight Breast Drills

Two-Gear & Two-Jaw



Taladro Manual Antepecho/2 Mordazas

胸当ドリル 直式手摇钻

Two speed drill in one set. Will operate with straight shank drills up to 12.5 mm in diameter.

61 35 31	Drill, breast, straight 2 gear & 2 jaw	Pc.
----------	--	-----

Ratchet Type Braces

Taladro Manual Berbiqui クリックボール 棘轮式手摇曲柄钻



Open ratchet type, finished in high grade chrome. To be operated with straight shank drills of up to 13 mm in diameter.

61 35 32	Brace, ratchet type up to 13 mm	Pc.
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20. Auger Bits / Gimlets

Machine Auger Bits

Barreno Máquina マシンオーガー 机械式螺旋钻头

Used for large timber work and heavy construction. Made from special bit steel for use with electric drills. Shank is straight and round.



Unit Per Pc.

CODE	Diam. mm	CODE	Diam. mm
61 35 61	6	61 35 66	21
62	9	67	24
63	12	68	27
64	15	69	30
65	18		

Japanese Gimlets

Barrenos Japoneses 和錐 日本手钻



For marking or pre-holing for screws on a wooden board.

61 35 71	Gimlet, Japanese	Pc.
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21. Planes / Wood Gouges

Bench Jack Planes

Cepillos de carpintero

西洋カンナ 刨台平面夹具



Cutter end and side size adjustable.
Cutter size: 40 mm & 50 mm.

CODE	61 36 01	61 36 02	61 36 03
Width	40 mm	45 mm	50 mm

Wood Butt Chisels

Formón 平のみ 木制平头铲刀



The blade and socket are forged in one piece. High grade steel. Heat-treated and tempered. Select hard wood handle.

CODE	Blade Width mm	CODE	Blade Width mm
61 36 10	3	61 36 15	18
11	6	16	24
12	9	17	30
13	12	18	36
14	15	19	42

Wood Gouges

Gubia 丸のみ 木制圆凿



Made from high grade steel, heat-treated and tempered. Select hard wood handle.

CODE	Blade Width mm	CODE	Blade Width mm
61 36 25	6	61 36 28	15
26	9	29	18
27	12	30	24

22. Trowels / Putty Knives

Trowels

Paletas コテ 小铲子



Polished mounting securely fastened to the handle. Polished spring steel blades.

Heart type		Point Type	
CODE	Blade Length mm	CODE	Blade Length mm
61 36 51	145	61 36 57	150
52	150	58	165
53	160	59	180
54	170	60	195
55	180	61	210
61 36 56	190	61 36 62	225
		63	240
		64	255

Putty Knives

Espátulas para Masilla パテナイフ 油灰刀

High carbon, cutlery steel, oil hardened blade, tempered and glaze finished.



CODE	Blade Width mm	CODE	Blade Width mm
61 36 71	25	61 36 75	75
72	40	76	90
73	50	77	100
74	65		

23. Shovels

Shovels

Palas Cuadradas スコップ 方形铁锹



Square

Blade is forged in one piece from a solid bar of special treated steel for heavy duty work.

CODE	Overall Length mm	Blade Size Width x Length mm
61 36 85	970	240 x 300
86	1,050	250 x 367
87	1,070	270 x 395



Polycarbonate

Made from polycarbonate shovel with wooden handle. Much lighter than conventional steel shovel, but has temperature resistance and impact resistance. Overall length is 1,200 mm.

61 36 89	Shovel, polycarbonate, square, overall length 1,200 mm.	Pc.
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24. Tool Belts

Electrician's Tool Belts

Cinturones para Herramientas de Electricista

電工ベルト 电工工具带



A high-quality leather belt with pouches specially designed for use by electricians.

61 36 91	Leather belt for electrician, With 3 tool pockets	Pc.
92	" with 4 tool pockets	"

Electrician's Tool Bags

Bolsas para Herramientas de Electricista
電工腰袋 电工工具袋

Tools are sold separately. Available in leather and canvas.



Leather



Canvas

61 36 95	Electrician's tool bag, leather	Pc.
96	Electrician's tool bag, canvas	"

25. Pipe Benders

Pipe Benders

Curvadoras de Tubo パイプベンダー 弯管器

Made of malleable steel with preset jaws which are equipped with receiving grooves for holding the pipe to assure accurate, good fitting bends. This bender is designed with a fitting support and bending shoe so the pipes do not kink or flatten.



Unit Per Pcs.

CODE	For Pipe Size		Handle Length mm	Unit Per Pcs.
	Gas	Conduit		
61 37 01	10A	5/8 in	1,200	
02	15A	3/4	1,200	
03	20A	1	1,500	
04	25A	1-1/4	1,700	
05	30A	1-1/2	1,800	
61 37 06	40A	2 in	2,000	
07	50A	2-1/2	2,100	

Hydraulic Pipe Benders

Portable

Curvadoras de Tubo Hidráulicos/Portátil
油圧パイプベンダー 液压弯管器

Designed for bending rigid conduit pipes, steel pipes, etc. Capable of making a full bend of up to 90° of 20A to 100A pipes.



Unit Per Set

CODE	Power Tons	Weight Kg	Standard Attached Shoes
61 37 11	10	60	20A, 25A, 32A, 40A & 50A
12	20	150	65A, 80A & 100A

26. Screw Clamps / Vises

C-Type Screw Clamps

Abrazaderas Tipo C o torniquete シャコ万力

C 螺栓夹头

Drop forged from strong special steel and heat-treated. The screws are made from tough, wrought steel, heat-treated and threaded for strength and rapid adjustment.



CODE	Opening mm	CODE	Opening mm	Unit Per Pcs.
61 37 16	25	61 37 21	125	
17	38	22	150	
18	50	23	200	
19	75	24	250	
20	100	25	300	

Hand Vises

Entenallas 手万力 手动虎钳



Drop forged from strong special steel. For holding tools, etc. firmly by hand. The opening size is about the same size as the jaw width.

CODE	Opening	Overall Length mm	CODE	Opening	Overall Length mm	Unit Per Pcs.
61 37 51	25 mm	100 mm	61 37 53	38 mm	150 mm	
52	32	125				

Pipe Vises

Tornillo Banco para Tuberías

パイプ万力 管子台虎钳



Both upper and lower jaws are made of specially selected tool steel and will not wear out. The vise frame is made of malleable iron. The base has a flat bottom and can be mounted on any plain surface.

CODE	Nominal Size	Capacity mm	Height mm	Unit Per Set
61 37 55	50	10 - 60.5	240	
56	80	10 - 77	280	
57	105	10 - 102	335	
58	130	10 - 128	390	
59	170	10 - 166	480	

Pipe Vises with Stand

Tornillo banco para Tuberías con pie

脚付パイプ万力 有支架管子虎钳



This portable pipe vise has been designed for use in areas where a permanent installed vise is not available. Has a folding stand which keeps good balance during working operation.

CODE	For Pipe Hold Size	Height mm	Weight kg	Unit Per Set
61 37 62	8A - 50A	1,100	12.5	
63	10A - 90A	1,180	17.0	

Clamp Base Vises

Tornillo Banco de Sobremesa
卓上小型取付万力 桌虎钳



Unit Per Pcs.

CODE	Jaws		Width mm	Opening mm	Unit Per Pcs.
	Width mm	Opening mm			
61 37 65	40	40			
66	50	50			
67	63	57			
68	75	60			

Parallel Bench Vises

Tornillo Banco バイス 虎钳

Square Cylinder

The body of this square cylinder bench vise is made of forged cast iron. The jaws are made of a replaceable alloy steel. This vise is convertible between stationary and swivel type by simply attaching or removing the swivel base assembly.



Unit Per Pcs.

CODE	Jaws			Weight kg
	Width mm	Opening mm	Depth mm	
61 37 70	57	60	39	2.7
71	65	65	44	3.9
72	77	82	50	5.6
73	90	92	61	9.5
74	103	117	76	14.6
61 37 75	116	135	79	19.8
76	128	162	82	22.5
77	152	200	90	31.1
78	206	240	100	38.8
79	255	300	140	68.4

Round Cylinder

The body and slidings are made of specially selected, shock resistant high quality cast iron. Built for heavy duty use and designed for accuracy. The jaws are made of heat-treated steel and are replaceable. Handles have finger protecting rubber grommets on each end. This vise can be also used in connection with a swivel base.



Unit Per Pcs.

CODE	Jaws			Weight kg
	Width mm	Opening mm	Depth mm	
61 37 81	85	85	65	10
82	110	110	83	18
83	127	125	95	26
84	153	150	100	36
85	215	200	114	85

With Swivel Base

These vises can easily be rotated on their base by turning a clasp and then fixed in the most convenient position for the job.



Unit Per Pcs.

CODE	Jaws		Length mm	Height mm	Weight kg
	Width mm	Opening mm			
61 37 86	100	135	370	190	14.5
87	140	180	470	230	27.0

Swivel Bases, Assembly

Bases Giratorias バイス用回転ベース 虎头钳夹块

Sturdily constructed, the swivel base vises 61 37 73 and larger rotate a full 360°, while 61 37 72 and smaller rotate only 280°. They can be positively locked by simple adjustment of the locking attachment.

For 61 37 70 - 72
Vise size 280°For 61 37 73 - 79
Vise size 360°

61 37 88	Swivel base assembly for 61 37 70 - 72, 280°	Pcs.
89	Swivel base assembly for 61 37 73 - 79, 360°	"

Vise Jaw Pads

Magnet Type

Mordazas para Tornillo Banco マグネット式バイスロッキン 虎钳夹块

Protect fine work in vises with corrugated jaw facings. A piece of aluminium angle with two magnets make the piece stick fast to the jaw, converting any reed vise jaw face to a smooth and soft surface. 3 sizes available. When you request the vise jaw pads fixed with screw, please specify exact dimensions of screw size, number of screws and distance of screws.



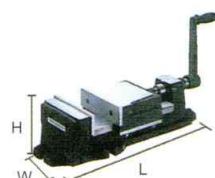
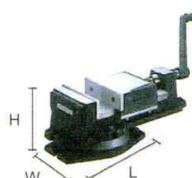
Unit Per Pcs.

CODE	Width	Material	CODE	Width	Material
61 37 91	100 mm	Aluminium	61 37 93	150 mm	Aluminium
92	125 mm				

Milling Vises

Prensas Mecánicas ミリングバイス 车工钳

Suitable to hold small parts for milling on the milling machine. F type : Fixed base, K type : with Swivel base.

Vises
Milling F TypeVises
Milling K Type

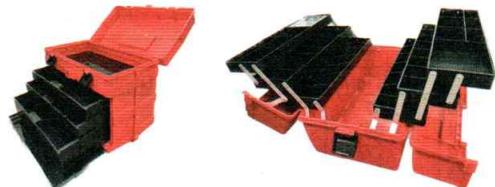
CODE	Jaw	Body	Max. Clamping Power (kN)	Weight Kg	Unit Per Pc.
	W x Open x Depth mm	L x W x H mm			
F Type (Fixed Base)					
61 37 41	102 x 65 x 35	310 x 123 x 84	7.84	8	
42	132 x 82 x 37	382 x 148 x 98	9.80	12	
43	153 x 112 x 43	465 x 183 x 109	12.74	21	
44	204 x 146 x 63	608 x 233 x 145	16.66	43	
K Type (with Swivel Base)					
61 37 46	102 x 65 x 35	310 x 123 x 84	7.84	8	
47	132 x 82 x 37	382 x 148 x 98	9.80	12	
48	153 x 112 x 43	465 x 183 x 109	12.74	21	
49	204 x 146 x 63	608 x 233 x 145	16.66	43	

Steel Tool Boxes

Spare Parts Box Suitcase Quonset V-Type

Unit Per Pc.

CODE	Shape	Dimensions in mm
		Length x Width x Height
61 38 05	Spare Parts Boxes	200 x 150 x 100
		350 x 200 x 200
		400 x 400 x 150
		400 x 400 x 300
		800 x 400 x 300
61 38 10	Suitcase	260 x 135 x 75
		300 x 160 x 75
		360 x 200 x 75
61 38 13	Quonset	260 x 120 x 100
		290 x 150 x 100
		350 x 150 x 100
61 38 16	V-Type	540 x 210 x 190
		700 x 210 x 190

Plastic Tool Boxes

Rectangular box with Drawers

V-Type

Unit Per Pc.

CODE	Shape	Dimensions in mm
		Length x Width x Height
61 38 19	Rectangular Box with Drawers	420 x 240 x 330
		450 x 270 x 230

Parts Cabinets

Gabinetes con Separaciones パーツキャビネット 配件柜

**Plastic Drawer**

Transparent, hard plastic drawers encased in a steel frame. The front of the drawers are transparent making it easy to locate the contents.

Unit Per Set

CODE	Drawers	Size W x D x H mm
61 38 21	10	243 x 238 x 253
	15	358 x 238 x 253
	24	358 x 238 x 379
61 38 24	40	487 x 238 x 500
	72	487 x 238 x 880
	72	555 x 275 x 880
61 38 27	21	440 x 275 x 570
	36	574 x 272 x 690
	48	574 x 272 x 880

27. Tool Boxes / Part Cabinets**Handy Tool Sets**

Juegos Prácticos de Herramienta 手提工具セット 便携工具组

Basic tool set furnished in a carrying case contains the necessary tools for mechanics to perform daily maintenance activities.



61 38 01



61 38 02

Contents in One Set

61 38 01	61 38 02
Diagonal Cutting	Diagonal Cutting
Plier 125 mm	Plier 150 mm
Long Nose Plier 150 mm	Long Nose Plier 150 mm
Side Cutting Plier 150 mm	Side Cutting Plier 150 mm
Screwdriver Set (handle in neon)	Tweezers 125 mm
Handle only	Adjustable Wrench 150 mm
Tweezers 150 mm	Screwdriver 5.5 x 100 mm
Adjustable Wrench 150 mm	Screwdriver 4.5 x 100 mm
Soldering Iron, 100V 30W	Screwdriver 2.6 x 100 mm
Solder, Paste, Punch, Chisel, Pencil, Duster-Cloth	Phillips Screwdriver 100 mm
	Nut Driver 5.5 mm
	Alignment Driver 150 mm
	File (Flat and Round)
	Soldering Iron, 100V 60W
	Solder Tip Cleaner
	Heat Sink
	Solder Aid (2-Pcs.)
	Convex Rule, Solder

61 38 01	Handy tool set carrying case Contains 14 tools	Set
61 38 02	Handy tool set carrying case Contains 20 tools	"

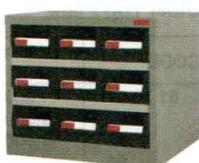
Tool Boxes

Cajac de Herramienta 工具箱 工具箱

Various types of tool boxes and tool cabinets made of steel or plastic are available.

Steel Drawer

Steel made drawers encased in a steel frame.



Unit Per Set

CODE	Drawers	Size W x D x H mm
61 38 31	10	245 x 240 x 255
32	15	360 x 240 x 255
33	24	360 x 240 x 380
34	40	477 x 240 x 465
35	72	475 x 240 x 870

Plastic Parts Cases

Estuches de Plástico con Separaciones

プラスチックパーティクルーケース 塑料配件箱



Suitcase type parts case made of plastic. The inside is divided into small compartments.

Unit Per Pcs.

CODE	Size W x D x H mm	Compartments
61 38 36	333 x 228 x 72	16
37	360 x 252 x 104	15

Plastic Multi Tool Boxes

Cajas de plástico para herramientas

ハンガーラックコンテナ 塑料多功能工具箱



Unit Per Pcs.

CODE	Colour	Capacity ltr	Size mm
			Width x Depth x Height
61 38 41	Red	1.0	113 x 201 x 75
42	Blue		
61 38 43	Blue	2.4	150 x 201 x 125
44	Yellow		
61 38 45	Blue	5.1	143 x 401 x 140
46		10.3	225 x 400 x 175
47		22.3	450 x 400 x 175

Tools & Parts Cabinets

Herramientas y Gabinetes 工具部品収納キャビネット 工具和备件柜

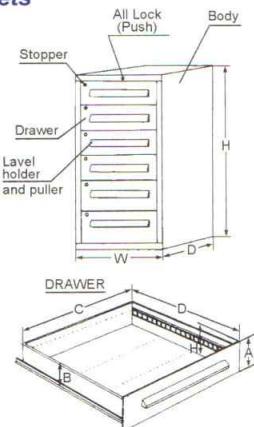
Designed, engineered and built to industrial standards to withstand continuous and rugged service. Suitable for use in marine storage systems. As a wide range of fabrications of models are possible, please ask or write for catalogues before ordering.

Master Tools & Parts Cabinets

The system cabinet consists of 4 standard body sizes and 5 standard drawer sizes, and by their combination, adjusting the drawer rail position, many types of cabinets can be fabricated.

Storing capacity is up to 1,000 kg. Comes equipped with a device to prevent the cabinet from moving when the ship is pitching and rolling.

The standard sizes of the bodies and drawers are as follows.



Cabinet Body

How to order: CODE

Master tools & parts cabinet body, steel, HEIGHT, WIDTH, DEPTH

Unit Per Pcs.

CODE	Height mm	Width mm	Depth mm
61 38 51	902	713	711
52	1,002	713	711
53	1,202	713	711
54	1,402	713	711

Cabinet Drawer Only

How to order: CODE

Master tools & parts cabinet drawer, steel, SIZE A, C and D mm

Unit Per Pcs.

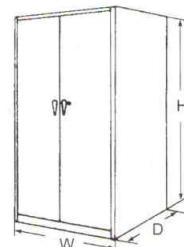
CODE	A mm	B mm	C mm	D mm	H mm
61 38 55	150	90	600	600	125
56	200	140	600	600	175
57	250	140	600	600	225
58	300	200	600	600	275
59	350	200	600	600	325

Master Tools & Parts Lockers

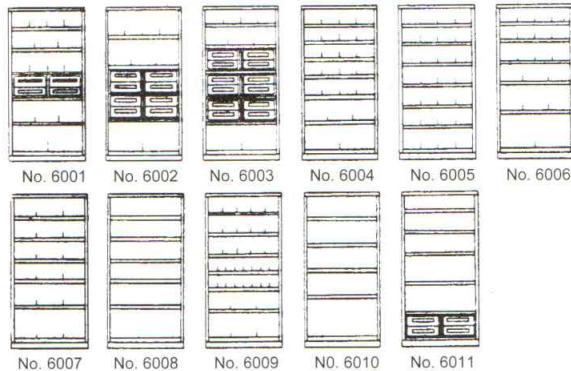
Equipped with full height locking doors, adjustable shelves, and separators. There are 11 standard models whose inside arrangements are illustrated below.

Locker Size

H mm	W mm	D mm
1,800	900	600



ELEVEN TYPE LOCKER



Master Tools & Parts Locker

Unit Per Set

CODE	Type No.	Weight kg	CODE	Type No.	Weight kg
61 38 61	6001	145	61 38 67	6007	124
62	6002	152	68	6008	112
63	6003	179	69	6009	142
64	6004	134	70	6010	105
65	6005	136	71	6011	133
61 38 66	6006	125			

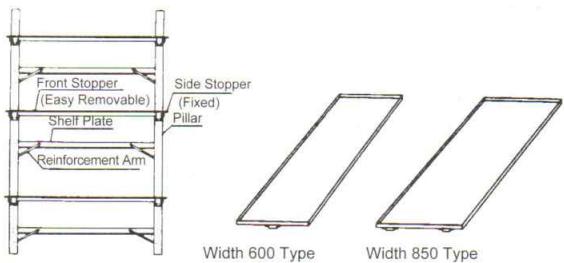
Steel Top Plate

Unit Per Set

CODE	Width mm	Depth mm	Height mm	Weight Kg
61 38 91	1,000	700	800	165
92	1,500	700	800	202
93	1,800	700	800	237
94	2,000	700	800	251
95	2,000	1,000	800	280
61 38 96	1,800	1,000	800	265

Shelves:

Standard types are illustrated below, but the number of plates can vary. Also, free spacing plates are available. Specify the type required by the shelf and frame dimensions listed below.

**How to order: CODE**

Shelves, steel, WIDTH, DEPTH, and HEIGHT mm

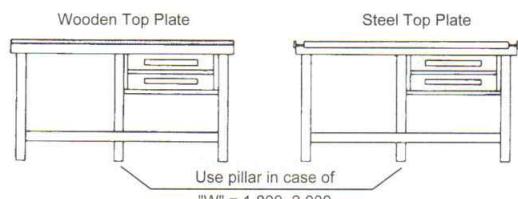
Shelf

Unit Per Set

CODE	Width mm	Depth mm	Height mm	Weight Kg	Capacity Kg
61 38 75	1,200	600	2,300	124	540
76	1,200	850	2,300	160	360
77	1,400	600	2,300	137	490
78	1,400	850	2,300	178	330
79	1,600	600	2,300	149	440
61 38 80	1,600	850	2,300	196	300

Work Benches

Heavy duty design for use in the Engine Room. Wooden top plate and steel top plate types are available.

**How to order: CODE**

Work bench, steel, TYPE of TOP PLATE, WIDTH, DEPTH and HEIGHT mm

Wooden Top Plate

Unit Per Set

CODE	Width mm	Depth mm	Height mm	Weight Kg
61 38 85	1,000	700	800	154
86	1,500	700	800	189
87	1,800	700	800	222
88	2,000	700	800	234
89	2,000	1,000	800	270
61 38 90	1,800	1,000	800	256

Steel Top Plate

Unit Per Set

CODE	Width mm	Depth mm	Height mm	Weight Kg
61 38 91	1,000	700	800	165
92	1,500	700	800	202
93	1,800	700	800	237
94	2,000	700	800	251
95	2,000	1,000	800	280
61 38 96	1,800	1,000	800	265

28. Drum Opening Spanners / Drum Cocks**Drum Opening Spanners****Malleable Steel**

Llaves para Abrir bidón Maleable ドラム缶用スパンナ 开桶板手

A tool designed for opening drums, plugs and caps in an easier, quicker and safer way.



61 40 01 Spanner, drum opening

Pc.

Drum Cocks**for 1-1/2 & 2 inch**

Gifos de Bidón/Para 1-1/2 y 2 pulgadas ドラムコック 油桶考克

Drum cock has invasive fittings, one of a 1-1/2" thread size and the other of a 2" thread size. Will fit to all kinds of drums and can safely hold oil, gasoline, kerosene, alcohol, light varnishes, clear lacquers, and solvents of all kinds.

61 40 04 Cock, drum oil, adjustable 1-1/2 & 2 inch

Pc.

**29. Drum Pumps****Rotary Hand Pumps**

Bombas de Transvase Rotoria ロータリーポンプ 手摇泵

Economical and durable barrel and refueling pump unit complete with spout, suction pipe and bung attachment. Most often used for dispensing light to medium grade cutting and lubricating oils, solvents, and fuels.



61 40 06 Rotary hand pump 3/4 inch

" 1 "

Pc.

Plastic Hand Pumps

Bombas Manuales de Achique, Plástico

プラスティック製ポンプ 塑料手泵

A plastic, manual, suction pump; used for all purpose light pumping or dispensing work. Overall length 540 mm.



61 40 10	Pump, hand, plastic	Pc.
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Plastic Hand Pumps for Drum

Bombas Manuales de Achique para Bidón, Plástico
プラスティック製ドラム用ポンプ 油桶用塑料手泵

Same as above but of a larger size. Overall length is 1,200 mm.



61 40 11	Pump, hand plastic for drum	Pc.
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Wing Pumps, Hand Operated

Bombas de Achique Rotativa Manual ウイングポンプ 翼式手动泵

This semi-rotary pump will produce a steady stream of liquid. A double blade impeller assures a high pumping rate with greater efficiency. To be installed between pipes.



Unit Per Pcs.

CODE	Pipe Size mm	Capacity per Minute ltr	Weight Kg
61 40 14	15	14	4.7
15	20	18	6
16	25	28	8
61 40 17	32	36	12
18	40	54	17
19	50	75	27

30. Drum Hooks / Lifting Clamps

Drum Hooks

Gafas Descarga Bidones ドラム用フック 桶钩

For 1 Drum

Designed for lifting drum barrels with a hanging drum rib by hooks. Hooks with wire or chain can be made to order if required.



61 40 25	Drum hook, chain, for one drum	Set
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For 2 Drums

Quadruple chain sling with master link & drum hooks for lifting two drum barrels simultaneously.



61 40 26	Drum hook, chain, for 2 drums	Set
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Clamps

Garra クランプ 轧头

Drum Clamp

Designed to accommodate a large variety of drums with or without the lids removed. Drums can be lifted from a horizontal or vertical position and can also be reversed.



Max. Jaw Opening mm	Capacity Tons	Weight Kg
18	0.5	2
61 40 28	Clamp, drum, capacity 0.5 ton	Pc.

Steel Plate Clamp

Suitable for use in the vertical lifting of steel plates. Please specify the model type required based upon the size of the jaw opening and the lifting capacity of the clamp.



Unit Per Pcs.

CODE	Capacity Tons	Max. Jaw Opening	Eye ID mm	Weight Kg
61 40 30	0.5	22	35	1.5
31	1	28	46	3
32	2	35	61	6
33	3	41	74	9
34	5	54	92	18

Steel Structure Clamp

Suitable for use in lifting steel structures such as H, I, C, L and T shaped steel. Please specify the model type required based upon the size of the jaw opening and the lifting capacity of the clamp.



Unit Per Pcs.

CODE	Capacity Tons	Jaw Opening mm	Eye ID mm	Weight Kg
61 40 37	1	1 - 13	23	1.5
38	2	3 - 22	30	3.7
39	3	22 - 45	36	8.1

31. Hose Bands / Pipe Clamps

Hose Bands

Abrazaderas de Manguera ホースバンド 喉箍

An extremely flexible one piece hose band that gives perfect circumference contact even on irregular surfaces. Made from galvanized steel and stainless steel sealed by gear drive principle, this heavy duty clamp will assure a leak proof seal. When ordering, please indicate the outside diameter of the corresponding hose.

