



The Solution Providers



INDUSTRIAL PRODUCTIVITY SOLUTIONS

GRINDERS



DIE GRINDERS (STRAIGHT)

Model	Rated Power (hp)	Free Speed RPM	Weight (kg)	Length (mm)	Configuration	Air Consumption CFM	Recommended Hose Size (mm)
GH011A-600-1	0.10	60,000	0.07	136	1/8" collet	2	5
7980-A	0.10	85,000	0.4	143	1/8" collet	2.2	5
325SC4	0.30	25,000	0.36	152	1/4" collet	15	8
330SC4	0.30	30,000	0.36	152	1/4" collet	15	8
335SC4	0.30	35,000	0.36	152	1/4" collet	15	8
2GL(C)-20000	0.33	20,000	0.6	145	6mm collet	9	8
3108*	0.33	25,000	0.58	171	1/4" collet	18	10
35GR(C)-15000	0.55	15,000	1.6	340	6mm collet	12	8
301GR(C)-18000	1.20	18,000	1.7	320	6mm collet	26	12

* For light duty application

DIE GRINDERS (ANGLE)

Model	Rated Power (hp)	Free Speed RPM	Weight (kg)	Length (mm)	Height Over Spindle (mm)	Side to Center Distance (mm)	Configuration	Air Consumption CFM	Recommended Hose Size (mm)	Air Inlet Size
312AC4	0.30	12,000	0.5	155	64.00	19.0	1/4" collet	15	8	1/4" NPT
314AC4	0.30	14,000	0.5	155	64.00	19.0	1/4" collet	15	8	1/4" NPT
320AC4	0.30	20,000	0.5	155	64.00	19.0	1/4" collet	15	8	1/4" NPT
3102*	0.33	20,000	0.58	171			1/4" collet	18	10	1/4" NPT

* For light duty application

ANGLE GRINDERS

Model	Rated Power (hp)	Free Speed RPM	Weight (kg)	Length (mm)	Wheel Capacity (inch)	Air Consumption CFM	Recommended Hose Size (mm)	Air Inlet Size
G1A200RP63	0.4	20,000	0.7	154	3"	14	8	1/4" NPT
G2A120RP64	0.8	12,000	1.2	195	4"	26	10	1/4" NPT
G2A090RP64	0.8	9,000	1.2	224	4"	43	10	1/4" NPT
301AGR-12000	1.2	12,000	1.8	305	4"	26	12	1/4" BSP
701AGL-7600	1.4	7600	2.8	315	7"	33	12	1/4" NPT

HORIZONTAL GRINDERS

Model	Rated Power (hp)	Free Speed RPM	Weight (kg)	Length (mm)	Wheel Capacity (mm)	Wheel Dia Thickness	Air Consumption CFM	Recommended Hose Size (mm)
35GR (S) - 15000	0.55	15000	1.6	315	63	20	12	8
301GR (S) - 18000	1.20	18000	1.7	295	63	20	16	12

DRILLS



SPECIAL GRINDERS

Model	Rated Power (hp)	Free Speed RPM	Weight (kg)	Length (mm)	Air Consumption CFM	Recommended Hose Size (mm)	Air Inlet Size
8067-E1	0.70	4,500	1.7	329	32	8	1/4" NPT

Configuration : 3/8" called, 3/8-24 Spindle Thread



STRAIGHT HANDLE

Model	Chuck Capacity mm	Motor Power (H.P.)	Free Speed rpm	Overall Length mm	Weight kg	Average Air Cons. cfm*
1S30MF4	6	0.25	3000	215	0.5	3.5
2LD-2500	6	0.33	2500	170	0.9	5.0
2LD-3800	6	0.33	3800	170	0.9	5.0
251LD-2000	10	0.55	2000	195	1.1	6.0
251LD-3000	10	0.55	3000	195	1.1	6.0
2LD-1000	10	0.33	1000	205	1.2	5.0



RIGHT ANGLE TYPE

Model	Collet / Chuck Capacity mm	Motor Power (H.P.)	Free Speed rpm	Overall Length mm	Weight kg	Average Air Cons. cfm*
ILJ1A*	6	0.25	3700	221	0.5	3.5
ILL1A1*	6	0.25	2700	234	0.5	3.5
IR7807R	10	0.30	1800	206	1.1	4.0

*Collet type (order collet separately)



PISTOL TYPE

Model	Chuck Capacity mm	Motor Power (H.P.)	Free Speed rpm	Overall Length mm	Weight kg	Average Air Cons. cfm*
IP38ST4	6	0.25	3800	168	0.6	4.0
1AL1	6	0.25	2800	168	0.6	4.0
1P09ST4	6	0.25	900	181	0.7	4.0
1P06ST4	6	0.25	600	181	0.7	4.0
2PD-2500	6	0.33	2500	160	1.0	5.0
2PD-3800	6	0.33	3800	160	1.0	5.0
2PD-15000	6	0.33	15000	175	1.0	5.0
IR7802A	10	0.50	2000	198	1.09	4.0
IR7802AKC	10	0.50	2000	163	1.13	4.0
251PD-2000	10	0.55	2000	185	1.2	6.0
251PD-3000	10	0.55	3000	185	1.2	6.0
IR7803A	13	0.50	500	229	1.4	4.0
3P-800	13	0.86	800	240	2.3	9.0

* 30% of air consumption at full load. # Reversible Model

Collets for model 2RL(C) : Available from 3.2 mm to 6.3 mm in steps of 0.1 mm

Standard collet : 6 mm

Horse Power at approximately 50% of free speed.

Straight drills also available without lever as 2LDX and 251LDX models.

78 series are also available in reversible model

LARGE DRILLS



Model	Free Speed rpm	Capacity in steel Drilling mm	Reaming mm	Weight kg	Height over spindle mm	Side to Center Distance mm	CFM
22JA1	1025	14	10	6.80	416	36	55
22KA1	725	14	11	6.92	448	36	55
22MA2	350	22	16	6.46	473	36	55
22NA1	280	22	16	7.48	517	36	55
33SJA	450	25	24	11.7	355	47	85
33SKA	300	32	25	11.7	355	47	85
33SMA	185	32	32	14.1	427	49	85
44SMA	155	51	51	19.8	463	59	102
551SMA	120	76	64	31.3	556	75	160
551SOA	77	Heavy	Heavy	31.5	556	75	160

Series 22 Drills have 3/8" NPT air inlet, 1/2" (13 mm) size hose recommended.
 Series 33S and 44 Drills 1/2" NPT inlet, 3/4" (19 mm) size hose recommended.
 Series 551 Drills have 1" NPT air inlet; 1" (25mm) size hose recommended.

IMPACT WRENCHES



Model	Drive Description	Handle	Free Speed RPM	Maximum Torque Nm	Recomm. Torque Range Nm	Weight less Socket Kg	Size Hose Recomm. Mm	CFM
211/WI	3/8" Square	S	10000	203	27-170	1.1	10	2.5
212/WI	3/8" Square	P	10000	244	27-203	1.3	10	2.5
IR2115PTi	3/8" Square	P	15000	339	34-312	1.1	10	4.0
231C	1/2" Square	P	8000	610	34-407	2.6	10	4.2
2135PTi MAX	1/2" Square	P	9500	848	68-814	1.6	10	5.0
2141P	3/4" Square	P	7250	1492	271-1220	3.2	13	31
2925B2Ti	1" Square	S	6500	2170	475-1904	6.4	13	60
2925P3Ti	1" Square	P	5200	1972	476-1496	5.5	13	60
2934B9	1" Sq. at 90 Deg.	S	5300	1624	678-1355	16.2	19	47
3955B2Ti	1 1/2" Square	S	2750	6780	2170-5288	15.7	19	80
5980A1	1 1/2" Square	Lever	830	13560	3119-7460	39.9	19	138
588A1	2 1/2" Square	Lever	355	67,800	16,270-33,900	97.5	25	155
599A1	3 1/2" Square	Lever	295	108,500	32,250-57,000	272.0	38	375



DB100N-S (L=400[mm])



QL100N-MH

Please contact IR Wadco for further details on Torque Wrenches

CHIPPING HAMMERS

CHIPPING HAMMERS



W3A2



K2LA2SA

Model	Weight Less Chisel kg.	Length mm.	Position Stroke mm.	Bore mm.	Blows per Minute	Hose Connector Pipe Tap (in)	Size Hose Recomm. mm.	CFM
"W" Series Heavy Duty Chippers with 0.580" Hex Nozzle - to use Hex Shapk Round Collared Accessories								
W1A1	6.69	403	25	28	2500	3/8	13	28
W2A1	7.03	416	51	28	2300	3/8	13	28
W3A1	7.54	464	76	28	1725	3/8	13	29
W4A1	7.94	489	102	28	1480	3/8	13	29
With 0.680" Round Nozzle - to use Round Collared Accessories								
W1A2	6.69	403	25	28	2500	3/8	13	28
W2A2	7.03	416	51	28	2300	3/8	13	28
W3A2	7.54	464	76	28	1725	3/8	13	29
W4A2	7.94	489	102	28	1480	3/8	13	29
With 0.580" Hex Nozzle - for use with Hex Shank Oval Collar Chisels								
K2LA1	2.72	276	44	22	3600	1/4	13	18
K2LA1SA	3.63	305	44	22	3600	1/4	13	18
With 0.680" Round Nozzle - to use Round Shank Oval Collar Chisels								
K2LA2	2.72	276	44	22	3600	1/4	13	18
K2LA2SA	3.63	305	44	22	3600	1/4	13	18

SCALERS/NEEDLE SCALERS

SCALERS/NEEDLE SCALERS



172LNA1



180PG

Model	Weight Less Chisel Kg	Length mm	Piston Stroke mm	Bore mm	Blows/min	Hose Size Connector in	Hose Recomm. mm	CFM
SCALERS								
172L*	1.69	194	14	24	5500	1/4	8	12
182L*	1.84	229	27	24	4000	1/4	8	13
NEEDLE SCALERS								
172LNA1	2.38	349	14	24	5500	1/4	8	12
182LNA1	2.61	381	27	24	4000	1/4	8	13
PISTOL GRIP SCALERS								
170PG	3.0	314	36	24	3000	1/4	8	5.5
180PG	4.0	343	39	29	2200	1/4	8	8
170PG-CS#	2.5	315	36	24	3000	1/4	8	5.5
180PG-CS#	3.0	315	39	29	2200	1/4	8	8

* Throttle is lever type

1/2" Square shank is standard on both units (5/8 hex is optional for the 180 PG-CS)

For Needle Scalers kit, please order 182K1 comprising 182L scaler, set of 19 needles (5" & 7" long), one (angle, straight, flat) chisel and vinyl carrying case.

SAND RAMMERS

SAND RAMMERS



130A1M

Model	Type	Weight w/Butt Kg	Barrel Bore mm	Piston Stroke mm	Butt Diameter mm	CFM
130A1M	Bench	5.24	25	63	—	14
241A1M	Floor	12.2	33	102	—	29
341A1M	—	15.8	41	102	146	29
441 A2	—	21.4	51	102	146	36

PAVEMENT BREAKERS

IR breakers have 30% less parts and wear items than conventional breakers.



Competitive brand breaker



Ingersoll-Rand 60 and 90 lb Breaker

Advantages, Inside and Out:

State-of-the-art composite materials are used to eliminate rust and to ensure consistent performance of valve and throttle.

Internal lubricator:

For continuous tool protection.

Drop-in valve cartridge:

Simplifies maintenance and reduces overall operating cost.

Power-Strok™ piston cycle:

Transfers blow energy directly to the tool improving productivity

One-piece breaker housing:

Eliminates the need for side rods and springs. Fewer parts mean lower operating cost.

Four-bolt backhead:

Contoured to fit the operator's leg, and is easily removed for routine maintenance.

Ergonomically designed:

Handles, grips, throttle lever, and breaker housing provide maximum operator comfort and productivity.

Unique metallurgy:

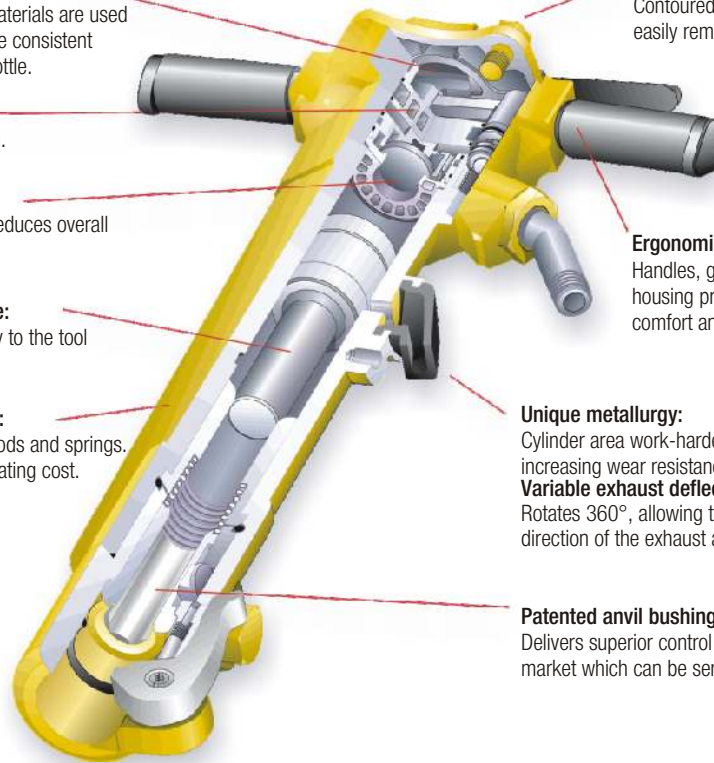
Cylinder area work-hardens as the tool is used, increasing wear resistance.

Variable exhaust deflector:

Rotates 360°, allowing the operator to choose the direction of the exhaust air.

Patented anvil bushing:

Delivers superior control and is the only unit on the market which can be serviced without a press!



Model*	Chuck size Hex w/Collar in.	Weight w/o Accessory kg	Length w/o Accessory mm	Piston Bore mm	Piston Stroke mm	Blows per Minute	Air Connection in.	CFM
MX60AF	1 1/8 x 6	31.4	686	52.3	146	1250	3/4 NPT	75
MX60BF	1 1/4 x 6	31.4	686	52.3	146	1250	3/4 NPT	75
MX90AF	1 1/8 x 6	39.0	686	66.5	146	1250	3/4 NPT	89
MX90BF	1 1/4 x 6	39.0	686	66.5	146	1250	3/4 NPT	89

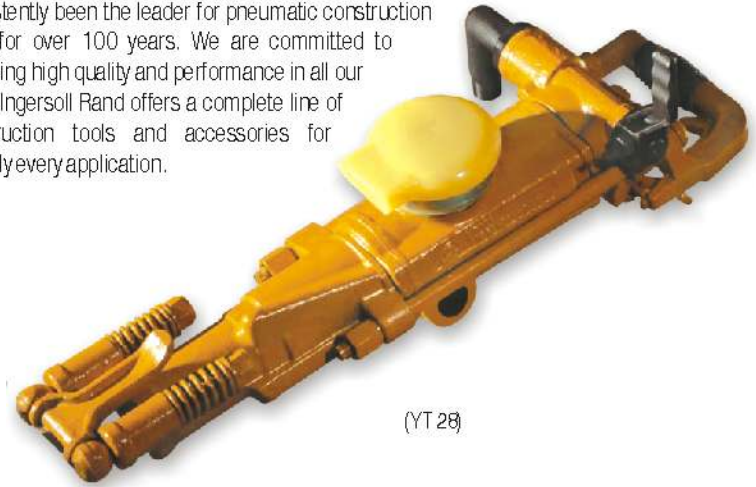
Air inlet: 3/4" NPT.

Size Hose Recommended: 3/4" (for hose lengths exceeding 50', use larger dia. hose).

* Vibration Reduced Flex-Handled Models

ROCK DRILL

The Y Series Rock Drills and Air-Legs are a full range of products to meet your drilling needs. Ingersoll Rand has consistently been the leader for pneumatic construction tools for over 100 years. We are committed to providing high quality and performance in all our tools. Ingersoll Rand offers a complete line of construction tools and accessories for virtually every application.



Adjustable Throttle



Directional Exhaust



Heavy Duty Housing



Latch Retainer

Part / Model Number*	Shank Size Hex w/Collar mm	Weight w/o Accessories kg	Length w/o Accessories mm	Blows per Minute	Air Intel Size mm	Water Intel Size mm	Max Bit Diameter mm	Max Hole Depth m	Piston Stroke mm	Bore Size mm	Air Consumption L/s
Y 18	22 x 108	18	550	1800	25	13	42	2	45	58	25
YT 24	22 x 108	24	678	1860	25	13	42	5	70	70	66
YT 28	22 x 108	26	661	2160	25	13	42	5	60	80	81

* All above models comes with Air-Leg as an option to enable drilling horizontally and on an incline, for details please see below table. YT24 can be provided with foot rest-model to read as Y24TF. However Air-leg cannot be provided with Y24TF.



Air-Leg's made from aluminium alloy, is lightweight and easy to use. The pressure regulating valve allows the leg to conveniently extended or retracted as needed.



Part/Model Number	Weight kg	Length mm (in.)	Inner Extension Length mm	For Use With:
FT140C	13	1650	1250	Y18
FT140B	15.6	1650	1250	YT24
FT160A	17	1668	1338	YT23, YT28

AIR MOTORS

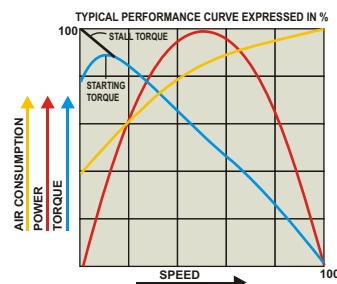
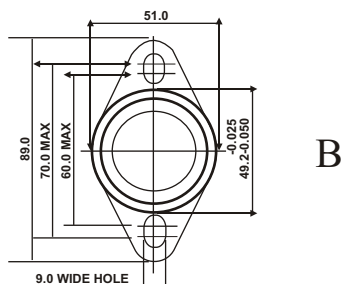
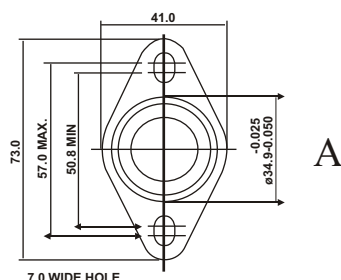
AIR MOTORS

Ingersoll Rand Wadco air motors provide compact, light weight and safe source of smooth vibrationless power. Air motors can not be damaged by overloading, frequent and continuous stalling or unlimited reversals.

Air motors are unaffected by hot, corrosive or wet atmospheres, shocks and vibrations, thereby making them suitable for operations in hazardous areas.

A typical performance curve for air motors is shown in the figure.

High power to weight ratio, easy installation, portability, minimum maintenance and simple controls are other features that make Ingersoll Rand air motors an attractive option for a number of industrial applications.



Model	Length mm	Weight kg	Max Power HP	Free Speed rpm	Speed At Max Power rpm	Torque At Max Power Nm	Stall Torque Nm
0.28 - 0.32 HP Non-Reversible, Flange Mounted							
2M-55	180	1.1	0.28	65	30*	74.5*	112.5*
2M-90	180	1.1	0.29	100	45*	48.8*	76.3*
2M-225	180	1.1	0.30	275	135	15.9	32.8
2M-400	150	0.8	0.30	450	225	9.5	18.6
2M-600	150	0.8	0.31	700	350	6.4	12.3
2M-1000	150	0.8	0.31	1100	550	4.1	7.7
2M-2500	125	0.5	0.32	3000	1500	1.5	3.1
2M-4000	125	0.5	0.32	4500	2250	1.1	1.9

Reversible Models are also available.

Models : 22M - **360**/540/900/2250/3600

Horse Power Range : 0.26 - 0.28

Stall Torque Range (Nm) : 14.9 - 1.6

0.38 - 0.44 HP Non-Reversible, Flange Mounted

202M-50	190	1.3	0.38	55	25*	119.2*	177.5*
202M-80	190	1.3	0.39	90	35*	77.2*	120.6*
202M-200	190	1.3	0.41	225	110	26.7	51.5*
202M-350	160	1.0	0.41	400	200	14.7	30.5
202M-550	160	1.0	0.42	600	300	10.1	19.7
202M-850	160	1.0	0.43	1000	500	6.1	12.9
202M-2250	135	0.7	0.43	2700	1350	2.3	4.7
202M-3500	135	0.7	0.44	4200	2100	1.5	3.1

Reversible Models are also available.

Models : 2202M-**320**/480/750/**2000**/3200

Horse Power Range : 0.36 - 0.38

Stall Torque Range (Nm): 27.1 - 2.7

0.83 - 0.86 HP Non-Reversible, Flange Mounted

3M-240	190	1.8	0.83	270	135	43.9	84.0
3M-450	190	1.8	0.85	500	250	24.3	48.8
3M-800	190	1.8	0.86	950	475	12.9	23.0

Reversible Models are also available.

Models : 33M-220/405/**720**

Horse Power Range : 0.72 - 0.75

Stall Torque Range (Nm): 65.7 - 19.9

*** For Safe working limit maximum torque to 33Nm**

Starting Torques are approx. 75% of stall torques

Model	Body Dia	Air Consumption (1) (2)		Air Inlet	Hose Bore	Spindle	Moun- ting Flange
2M	40	16	11	1/4 BSP	6	Dia 9.5/9.52 1/8" SQ KEY	A
22M	40	16	11	1/4 BSP	6	Dia 9.5/9.52 1/8" SQ KEY	A
202M	40	16	11	1/4 BSP	6	Threaded Spindle 1/2"x 20 UNF	B
2202M	40	16	11	1/4 BSP	6	Dia 9.5/9.52 1/8" SQ KEY	B
3M	50	42	31	1/4 BSP	12	Threaded Spindle 1/2"x 20 UNF	B
33M	52	39	28	1/4 BSP	12	Dia 12.7h7 KEY TYPE	B

(1) Value in cfm at free speed

(2) Value in cfm at max. power

Model numbers in bold face are fast moving and will be available on shorter delivery
All performances figures are at 6.3kg/cm² (90PSI), which is optimum operating air pressure.

IQ^V CORDLESS TOOLS

TOUGH TOOLS FOR TOUGH JOBS

Cordless tools haven't really had a place in industrial environments, where tools typically get a lot of heavy use and abuse. They get dropped and break; their housings can't withstand "the corrosive effects of harsh fluids or chemicals. Battery mounts wear out, contacts get fouled, and the batteries themselves don't hold a charge and have short usable lives.

The common perception:

If you're building a deck, cordless is great . . . if you're an industrial professional, cordless is typically a waste of money. Until now, that is.

Introducing Ingersoll Rand IQV™ Series cordless tools, the first family of cordless tools specifically designed for the service and production industries — delivering best-in-class power, durability, and a strong commitment to your productivity.



Railway Industry



Energy Industry



Water Solution



Elevator Solution



Bus Builders



Furniture Industry



Road Equipment



HVAC Ducting



1/4" Cordless Impactool W040
(tool-only model number*)

Specifications

Max Torque – Nm	54
Usable Torque Range – Nm	2 – 43
Speed – rpm	0 – 2,200
Tool Weight with NiCd – kg	1.3
Tool Weight with Li-Ion – kg	1.2
Voltage – volts	7.2

*Sold separately: BC10 battery charger, BL072 Li-Ion battery and N072 NiCd battery. (Please refer page 10 for details)



3/8" Cordless Impactool W150
(tool-only model number*)

Specifications

Max Torque – Nm	203
Usable Torque Range – Nm	34 – 176
Speed – rpm	0 – 2,200
Tool Weight with NiCd – kg	2.3
Tool Weight with Li-Ion – kg	2.1
Voltage – volts	14.4

*Sold separately: BC10 battery charger, BL144 Li-Ion battery and N144 NiCd battery. (Please refer page 10 for details)



1/2" Cordless Impactool W360
(tool-only model number*)

Specifications

Max Torque – Nm	488
Usable Torque Range – Nm	33 – 379
Speed – rpm	0 – 1,650
Tool Weight with NiCd – kg	3.3
Tool Weight with Li-Ion – kg	2.8
Voltage – volts	19.2

*Sold separately: BC10 battery charger, BL192 Li-Ion battery and N192 NiCd battery. (Please refer page 10 for details)



1/2" Cordless Drill/Drivers D550/D650
(tool-only model number*)

Specifications

	D550	D650
Ideal Stall Torque – Nm	62	73
Speed – rpm	0 – 360 /1300	0 – 360 /1300
Tool Weight with NiCd – kg	3.3	3.3
Tool Weight with Li-Ion – kg	1.9	2.0
Voltage – volts	14.4	19.2

Sold separately: BC10 battery charger; BL144 Li-Ion and N144 NiCd batteries (for D550); BL192 Li-Ion and N192 NiCd batteries (for D650). (Please refer page 10 for details)

GS25 / GR25 Cordless Die Grinders (tool-only model number*)

Specifications	GS25	GR25
Type	Straight	Right angle
Collet Size - in	1/4"	1/4"
Power - hp	0.35	0.35
Free Speed - rpm	27,500	20,000
Voltage - volts	14.4	14.4
Tool Weight with NiCd – kg	1.5	1.7
Tool Weight with Li-Ion – kg	1.4	1.5
Switch Type	Variable speed	Variable speed



*Sold separately: BC10 battery charger, BL144 Li-Ion battery and N144 NiCd battery.

BATTERY & CHARGER



Li - Ion Battery		NiCd Battery		Universal Charger
BL072	7.2 Volts	N072	7.2 Volts	BC - 10
BL144	14.4 Volts	N144	14.4 Volts	
BL192	19.2 Volts	N194	19.2 Volts	

For detailed information on Cordless Tool. Please refer our Catalogue CN-2603

For Cordless-Ratchet Saw, Task light & Mini drill, please contact Ingersoll Rand representative for details.

FINISHING PUMPS AND PACKAGES

PISTON PUMP SPRAY PACKAGES

Features & Benefits

- High speed application Rates
- Consistent finish quality
- Industry tested and proven pump design. 60% fewer parts resulting in lower downtime & operating cost.
- Faster film build with reduced solvent usage resulting in lower operating cost.
- Low Pulsation ensures high quality finish.
- Non lubricated Air Motor driven Agitator-eliminates paint contamination, ensuring superior finish of the final product.
- Superior transfer efficiency-reduces wastage thus lowering the material cost.
- Light weight & easy to handle spray guns with swivel & inbuilt filter-provides superior control & manoeuvrability thus reducing operator fatigue.
- Flexible trolley with rubber wheels for easy manoeuvrability.



AIRLESS SPRAY PACKAGES

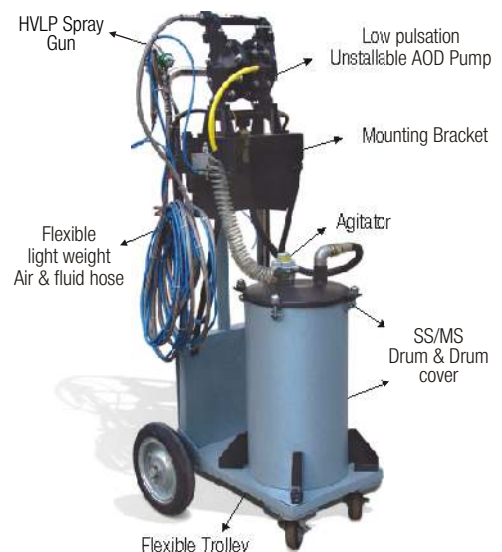


AIR ASSISTED AIRLESS SPRAY PACKAGE

DIAPHRAGM PUMP HVLP PACKAGE

Features & Benefits

- Designed for quick color change and fast material refill—resulting in higher productivity.
- Pulsation dampers ensure smooth fluid delivery.
- Lower pulsation leads to better productivity, performance and lower operating costs.
 - Reduced requirement for external pulsation control.
 - Minimizes Splash, thus ensuring better Fluid Control.
- Patented uninstalleable & energy efficient Air valve design—reduces downtime & lowers operating cost.
- Unique short stroke design ensures consistent fluid delivery resulting in superior finish of the final product.
- Economical and efficient : more paint delivered per cubic foot of air usage.



LUBRICATION EQUIPMENT

OIL DISPENSING PACKAGES

- Preset, metered & non metered packages.
- 3:1 Ratio Piston Pump.
- Fully programmable and 5 digit LCD display accurate to the second decimal, shows the exact amount of fluid dispensed.
- 6 different volume may be preset.
- Electronic accuracy helps save time and money.
- Swiveling non drip nozzle prevents spillage.
- Accuracy : +/- 0.6% for standard models.
- Accuracy : +/- 0.3% for Weights & Measures certified models.



PART NOS & SCOPE OF SUPPLY

PP9902:

- Preset Qty dispensing Package
- 3:1 Oil Pump
- Digital Preset Meter Control Handle
- 6' Material Hose 1" Dia R6 Rating
- Filter Regulator and 5 Meter Coiled Hose

PP9902-NP:

- Non Preset Qty dispensing Package
- 3:1 Oil Pump
- Mechanical Non-Preset Meter Control Handle
- 6' Material Hose 1" Dia R6 Rating
- Filter Regulator and 5 Meter Coiled Hose

PP9902-NM:

- Dispensing Package with non drip Nozzle
- 3:1 Oil Pump
- Mechanical Non-Preset Meter Control Handle
- 6' Material Hose 1" Dia R6 Rating
- Filter Regulator and 5 Meter Coiled Hose

* Packages also available with 5:1 oil pump

Models shown above are a representative selection of our extensive range. Please contact **Ingersoll Rand** for details on additional models.

GREASE DISPENSING PACKAGES

- 220, 50, 20 & 10 Kg standard packages available.
- Double acting pump-higher flow rates.
- Less moving parts-lower downtime.
- Pump Operation range 1 – 10.3 bar Inlet air pressure.
- Outlet fluid pressure -7500 psi max-works well with high pressure applications.
- Muffler a standard feature – reduced noise level.



GREASE DISPENSING PACKAGES & SYSTEMS – SCOPE OF SUPPLY

- Air Operated Chop-check type Grease Pump
- Follower Plate.
- Drum cover
- Grease Gun with Z Swivel.
- Delivery Hose of 10 Ft. Length
- Drum & Trolley (for 10, 20 & 50 kg packages) only.
- No Drum & Trolley for 220 kg.

PART NOS

GP-2P10	GREASE PUMP PACKAGE 10Kg (2"PISTON PUMP)
GP-2P20	GREASE PUMP PACKAGE 20Kg (2"PISTON PUMP)
GP-2P50	GREASE PUMP PACKAGE 50Kg (2" PISTON PUMP)
GP-2P220	GREASE PUMP PACKAGE 220Kg (2" PISTON PUMP)
GP-3P10	GREASE PUMP PACKAGE 10Kg (3"PISTON PUMP)
GP-3P20	GREASE PUMP PACKAGE 20Kg (3"PISTON PUMP)
GP-3P50	GREASE PUMP PACKAGE 50Kg (3" PISTON PUMP)
FH1036	Preset Grease dispensing system
FH1117	Metered, non preset dispensing handle

Performance figures are at 90 psi (620 kPa) air pressure

LUBRICATION EQUIPMENT



Model no.	Performance Rating	Max Input Pressure psi	Max Output Pressure psi	Grease Computer	Included
Hand-held Grease Guns					
550	Heavy	N/A	10,000	4-jaw	6" extension & 18" hose
570	Heavy	N/A	7,500	4-jaw	4" extension & 18" whip hose
590	Heavy	150	6,000	4-jaw	6" extension
5190	Super	150	6,000	4-jaw	6" extension

HEAVY DUTY

Hand-held Grease Gun

This heavy-duty grease gun has a comfort grip handle and can develop up to 10,000 psi. Features include an easy-to-load locking plunger, an ergonomic T-handle, and a filler nipple and air vent are included. The 550 comes standard with a 6" angle extension and an 18" whip hose, both with a 4-jaw coupler.

SUPER-DUTY

Hand-held Grease Gun

A new, ergonomic design, this pneumatic grease gun gives added flexibility to get any grease fitting. The larger handle improves comfort, while still packing a 40:1 pressure ratio punch and all the standard features of Ingersoll-Rand grease guns.

IRAX SPRING BALANCERS (0.4 to 165 kg Capacity)



LIGHT DUTY SPECIFICATIONS

Model no.	Capacity kg	Weight kg	Lift mm
BLD-1	0.4-1	0.6	1600
BLD-2	1-2	0.6	1600
BLD-3	2-3	0.7	1600

BLD

- Rotary hook.
- Adjustable capacity and stroke limiting device.
- Self lubricating bushings.
- Auxiliary safety suspension.

MEDIUM DUTY SPECIFICATIONS

Model no.	Capacity kg	Weight kg	Lift mm
BMDS-4.	2-4	2.0	2000
BMDS-6	4-6	2.3	2000
BMDS-8	6-8	2.5	2000
BMDL-10	8-10	3.7	2500
BMDL-12	10-12	4.0	2500

BMDS / DL

- Safety device prevents dropping of load due to spring breakage (except BMDS-2)
- Anti-friction cable guide.
- Adjustable stroke limiting device

IRAX SPRING BALANCERS



INTERMEDIATE DUTY SPECIFICATIONS

Model no.	Capacity kg	Weight kg	Lift mm
BIDS-18	14-18	2.95	2000
BIDS-22	18-22	2.95	2000
BIDS-26	22-25	2.95	2000

BIDS

- Safety device prevents load dropping due to spring breakage.
- Adjustable stroke limiting device.
- Upper rotary suspension
- Safety hook
- Anti-friction cable guide
- Auxiliary safety suspension

HEAVY DUTY SPECIFICATIONS

Model no.	Capacity kg	Weight kg	Lift mm
BHD-30	25-30	11.5	2000
BHD-35	30-35	11.8	2000
BHD-45	35-45	12.4	2000
BHD-55	45-55	12.5	2000
BHD-65	55-65	13.6	2000

BHD

- Safety device prevents load dropping due to spring breakage
- Upper suspension with rotary safety hook.
- Precision guided cable winding prevents jamming.
- Anti-friction cable guide.
- Manual locking device for instant clamping or release.
- Worm screw capacity adjustment.
- Spring drum assembly.
- Optional floor controlled locking device available (BIL 7343)

IRAX SPRING BALANCERS



SUPER DUTY SPECIFICATIONS

Model no.	Capacity kg	Weight kg	Lift mm
BSD-70	60-70	26.8	2500
BSD-80	70-80	27.8	2500
BSD-90	80-90	28.8	2500
BSD-100	90-100	35.6	2500
BSD-120	100-120	38.7	2500
BSD-140	120-140	41.8	2500
BSD-150	130-150	44.5	2500
BSD-165	150-165	48.2	2500

BSD / BSDL

- Safety device prevents load dropping due to spring breakage.
- Manual locking device for instant clamping or release
- Anti-friction cable guide
- Cable replacement without balancer disassembly
- Optional floor controlled locking device available (BIL - 7343)
- Precision guided cable winding prevents jamming
- Alignable rotating upper hook
- Worm screw capacity adjustment
- Cable visible for inspection
- Other sizes available on request

MANUAL CHAIN PULLEY BLOCK

MANUAL CHAIN PULLEY BLOCK



SMB Series Manual Chain Hoist Features

A NEW design for today's job site, with safety and performance in mind. Meets or exceeds world specifications including ASME B30.16. A value line product with premium features at a great price.

- Unique Overload Protection to deter and reduce downtime and repair costs resulting from abuse.
- All steel, low headroom, light weight construction.
- Self-adjusting disc type double pawl mechanical load brake.
- Hardened roller bearings for maximum efficiency and durability.
- Improved 4 layer finish of nickel, copper, nickel and chrome
- Complementing our Silver Series lever hoist companion product.
- Ideally suited for the Rental and Construction markets.
- Standard lift (L) is 10 feet, Hand chain drop (D) is 2 feet less than lift (unless specified).

SPECIFICATIONS

Model No.	Capacity Metric tons	Pull to lift rated load lbs	No. of Chain falls	Load chain size mm
SMB005	½	55	1	5 x 15
SMB010	1	64	1	6 x 18
SMB015	1½	69	1	7.1 x 21
SMB020	2	77	1	8 x 24.6
SMB030	3	100	1	10 x 30
SMB050	5	83	2	9 x 27.2

Note:
Standard lift 10 feet

LEVER CHAIN HOIST

LEVER CHAIN HOIST



SLB Series Lever Chain Hoist Features

Our value priced lever hoist with industrial rated performance. One hand operation with the best free chaining available. If a load is applied in the free chain mode, the brake will automatically engage, minimizing operator setup error.

- 3/4 - 6 ton capacities.
- All steel construction.
- 360 degree handle rotation.
- Rubber handle grip in all sizes.
- Reliable disc brake.
- Premium grade 100 alloy load chain.
- Hardened swivel-latch hooks.
- Light weight.
- Low handle force.
- Short handle stroke.
- Standard lifts of 5, 10, 15, and 20 feet. Longer lifts available.

SPECIFICATIONS

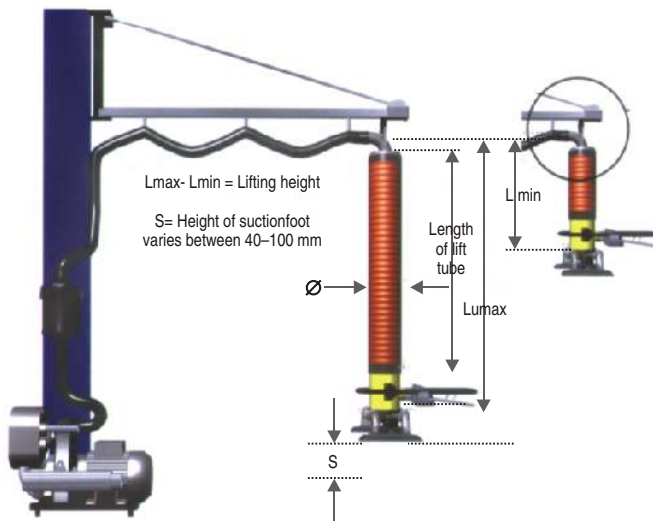
Model No.	Capacity Metric tons	lbs	Pull to lift rated load lbs	No. of Chain falls	Load chain size mm
SLB150	3/4	1650	41	1	6.0 x 18.0
SLB200	1	2200	60	1	6.0 x 18.0
SLB300	1-1/2	3300	53	1	7.1 x 21.2
SLB600	3	6600	53	1	10.0 x 30.0
SLB1200	6	13200	57	2	10.0 x 30.0

Standard lift 5, 10, 15, and 20 ft

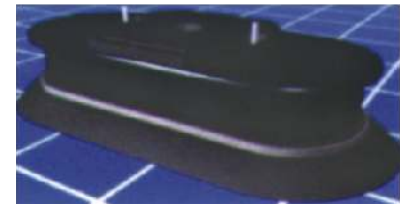
VACU EASY LIFT

VacuEasylift is a manual vacuum lifting device that handles almost any type of load. The extremely smooth and quick lifting operation is accomplished by using the same handle to lift, lower and release the load and by using the vacuum to hold and lift the load. VacuEasylift is a world-leading, original Swedish product, patented in most countries of use. Based on a unique concept, VacuEasylift has been developed into a versatile system for simpler, safer and more effective lifting.

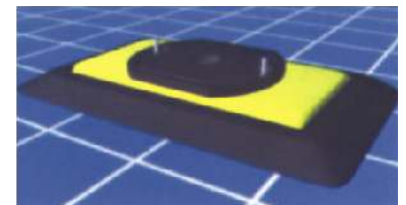
Model	VM80	VM100/120/140		VM160/80		VM 200/230		VM 250	VM2160/2180		VM300
Lifting cap kg¹	20	30/40/60	30/40/50	60/80	60/80	100/120	100/120	180	120	160	270
Length of lift tube mn	2000	2500	4000	2500	4000	2500	4000	2500	2500	4000	2500
Ømn	80	100/120/140	100/120/140	160/180	160/180	200/230	200/230	250	2 X 160	2 X 180	300
L max mm	2240	2670	4170	2690	4190	2690	4190	2690	2630	4130	2690
L min mm	740	870	1570	890	1590	990	1790	1190	830	1530	1190
Lifting height mm	1500	1800	2600	1800	2600	1700	2400	1500	1800	2600	1500
Extended New Lifehandle	Not available	Flexed extension up to 800+800 mm standard		Flexed extensions up to 800 + 800 mm Standard		Flexed extensions up to 800 + 300 mm Standard		Not available	Available on request		Not available



VM 160 VM180



10300* 180x370 mm (7 x 14.6") Sacks



10700* 200x320 mm (7.9 x 12.6")
10710* 200x290 mm (7.9 x 11.4")

VACUUM PUMPS

Pump unit	Power		Depression (mbars)	Weight (kg)	Tube model	Dimensions l x w x h (mm)
	@ 50 Hz (kw)	@60 Hz (kw)				
SA 200/2	1.1	1.3	720	49	VM 80	500x380x420
SA 320/2	2.2	2.55	550	34	VM 100 - 160	535x335x450
SA 350/2	3.0	3.45	630	41	VM 160 - 2180	630x335x450
SA 450/2	5.5	6.6	650	67	VM 160 - 2180	700x420x520



QUANTUM SERIES ELECTRIC CHAIN HOIST

FEATURES AND BENEFITS

Reliable Brake System

- Maximum safety construction-brake after slipping clutch
- Self-adjusting disc brakes are guaranteed for life
- Easily accessible

Powerful Motor

- Normal, fast and super fast models available
- Single and dual-speed options
- Hoist-duty with class F insulation
- Special voltages available

Ergonomic, Outdoor-duty Pendant

- Emergency stop feature is standard
- Two-button ergonomic design reduces operator fatigue
- NEMA 4X enclosure for outdoor use (standard)
- External strain relief is standard

Rugged Chain, Chain Wheel & Gearing

- Load chain is zinc-plated(standard), surface-hardened and corrosion-resistant
- Chain wheel made from precision machined, hardened steel

- All helical gearing and five-pocket chain wheel design provide quiet operation, improved running properties and longer life

Convenient Chain Guide

- Highly wear-resistant, reinforced composite material
- Two-part construction minimizes maintenance
- Easy access replaceable from underside of hoist

Adjustable Slip Clutch

- Easy to service and adjust from electrical end of hoist
- Maintenance-free and highly wear-resistant
- Simple to adjust for precise operation

Customizable Geared Limit Switch (standard)

- Enables highly repetitive, precise positioning
- Lifting heights up to 250 feet
- Simple to adjust

Compact, Durable Housing

- Long-lasting cast aluminium design
- NEMA 3R for outdoor use (standard)
- Compact design allows for lower headroom requirements



Base Model	Capacity Kg	Chain falls	Lift spd fpm	Wt(1) with hook or eyebolt
Three Phase (dual Speed)				
QCH50-1ND12	125	1	32/8	23
QCH50-1ND25	250	1	32/8	23
QCH50-1HD25	250	1	50/12	23
QCH50-1ND50	500	1	32/8	23
QCH50-2ND100	1000	2	16/4	25
QCH100-1ND100	1000	1	32/8	46
QCH100-2ND200	2000	2	16/4	51
QCH300-1ND200	2000	1	32/8	67
QCH200-2ND300	3000	2	16/4	75
QCH300-2ND400	4000	2	16/4	78
QCH500-2ND500	5000	2	12.5/3	78

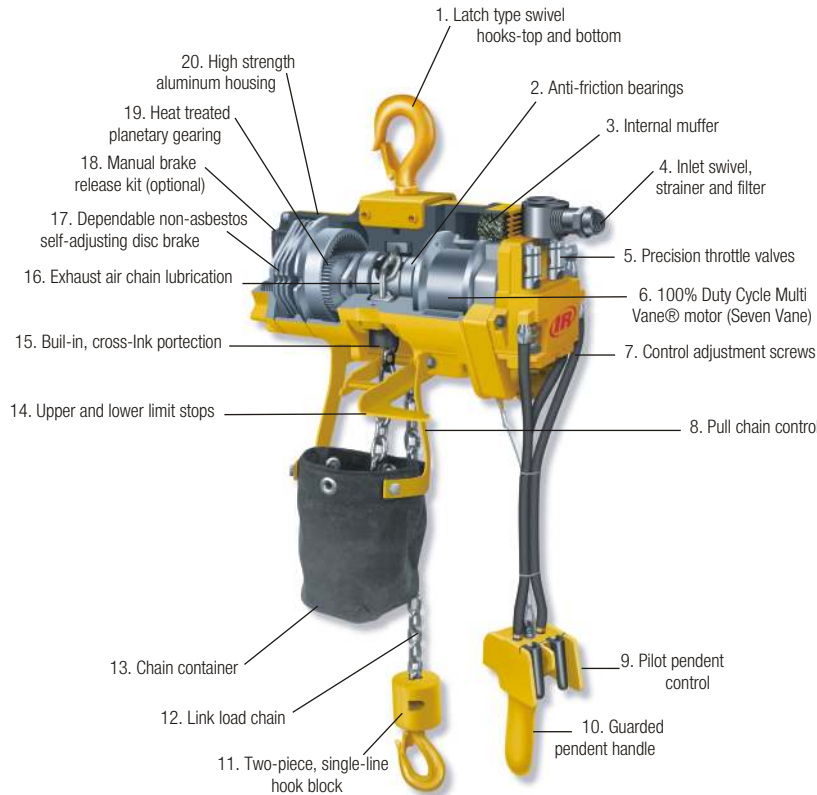
"Single Phase, Single Speed Hoist also available

Please replace "S" in place of D for single speed .e.g. QCH50-1ND25 will become QCH50-1NS25

(1) 10 Feet lift capacity only.

For model selection, please refer last page

MLK & HLK SERIES AIR CHAIN HOIST



Benefits of using an Ingersoll-Rand Ari chain hoist:

- **100% duty cycle.** Air hoist can be operated continuously, as air motors don't heat up!
- **Environment.** dust, dirt, moisture and corrosive gases are kept out of the motor by the air pressure that runs it. This basic fact makes air hoists the first choice in **foundries, electroplating shops,** and other dusty & corrosive environment.
- **No electrical hazard.** As no electricity is used, the freedom from electrical shock and the use of air power in explosive environments are obvious advantages. This is why air hoists are use extensively in flammable environments found in chemical plants, refineries, etc. **Spark resistant models are also available.**
- **Accurate load spotting.** Simple pull chain speed and directional controls provide precise spotting capabilities. Easy to operate pendant air valves provide control signal with adjustable response by variable orifice. For even more precise control MLKS slow models are available.
- **Low maintenance.** Ingersoll-Rand air chain hoists are designed and constructed for trouble-free maintenance. the inherent durability of air power contrasts with the potential problem of electrical systems.

Model No.	Capacity kg	Lifting Speed		Lifting Speed		Weight* kg
		at Rated Load (fpm) up	down	at No Load (fpm) up	down	
MLK Series						
ML250KS	250	40.0	90.0	71.0	53.0	21.8
ML250K	250	101.0	117.0	171.0	99.0	21.8
ML500KS	500	22.0	66.0	44.0	32.0	21.8
ML500K	500	55.0	97.0	106.0	59.0	21.8
ML1000KS	1000	11.0	33.0	22.0	16.0	27.7
ML1000K	1000	28.0	49.0	53.0	30.0	27.7
HLK Series						
HL1500K	1500	16.0	26.0	28.0	16.0	39.0
HL2000K	2000	13.0	18.0	20.0	13.0	56.6
HL3000K	3000	8.0	13.0	14.0	8.0	56.6
HL4500K	4500	4.6	10.0	10.5	6.6	83.5
HL6000K	6000	3.5	7.6	8.4	4.8	106.1

* Without Suspension

SPARK RESISTANT MODELS

Series	Capacity Kg
MLKR and HLKR Series - Spark Resistant Model	
ML250KR	250
ML500KR	500
HL100KR	1000

KS = Slow speed models
Standard-Lift 10 feet
(Extra lift optional)
Standard-Pendent /
Pull chain control 6 feet
(Extra length optional)

For model selection, please refer last page

MODEL DRIVER FOR ELECTRIC CHAIN HOISTS

Specify complete model number as shown. This model code includes: Series, Frame Size-Chain falls, Speed, Capacity Suspension Type-Lift-Pendent Drop , Flange Width, Voltage and Options.

Base Model	Suspension Type	Lift (feet)	Pendent Drop (feet)	Flange* Width	Voltage	Options
QCH100-2NS200	E = Eye bolt H = Hook P = Plain trolley ("PT" series)	10 = Standard 15 = Standard 20 = Standard XX = Specify length	6 = Standard 11 = Standard 16 = Standard XX = Specify length	— (Eye bolt or Hook mount)	6 = 415/3/50	B = Trolley brake C = Chain container E = External strain relief F = F "XX", specify power cord length(standard is 15 ft on E, H and P, and 3ft on M1-M4 suspension) G = Geared limits H = Handy Handle K = 110 volt control" (For 3 phase models only) L = Inertia type mechanical load brake P = Pendent with vertical aligned buttons P2 = Pendent with 2 extra vertical aligned buttons P4 = Pendent with 4 extra vertical aligned buttons Y = Bullard top hook z = Bullard bottom hook
M1 —	Motorized trolley (normal speed) (48 fpm)					
M2 —	Motorized trolley (Normal / dual speed) (48/16 fpm)					
M4 —	Motorized trolley (High dual speed) (96/24 fpm)					

Notes: Standard control voltage in 42V. Dual speed and motorized trolleys available in three phase models only.

* For trolley suspension (Plane, Geared, Motorized) Customer to specify the Flange width

MODEL DRIVER FOR AIR CHAIN HOISTS

ML 250K-3HA15-B11U

Series	Link Chain Type	Capacity	Spark Resistant	—	Control	Suspension*	Lift (ft)	—	Lower Hook	Length of Pull Chain or Pendent Control Hose (ft)	Options
M	L	250K	—	3	HA	15	—	B	11	U	
M=Series H= Series			0 = No Controls 1 = Pull Chain 2 = Pendent 3 = 2 Mtr. Pendent ⁽¹⁾ 4 = 3 Mtr. Pendent ⁽¹⁾		10 = 10 ft (Std) XX = Specify Length			6 = 6 ft (Std) XX = Specify length			
250 K = 250 kg 500 K = 500 kg 1000 K = 1000 kg 1500 K = 1500 kg 2000 K = 2000 kg 3000 K = 3000 kg 4500 K = 4500 kg 6000 K = 6000 kg			A = Fixed Lug B = Bullard hook (Self closing) R = Bronze Snap Hook C = Swivel Top Hook CP = Copper Plated Top Hook HA = Motorized trolley flang width (3.25"-6" inch) HD = Motorized trolley flang width (6"-12")					C = Steel Snap Hook CP = Cooper Plated Lower Hook R = Bronze Snap Hook B = Bullard, Self Closing Hook		CR = Copper plated Bottom Block M = Manual Brake Release Kit P = Piped Away Exhaust S = Steel Chain Container U = Fabric Chain Container E = Epoxy Paint	
R = Add for Spark Resistant (for 1/4, 1/2t MLKR and 1t HLKR only) S = Add for Slow Speed Spotting (for 1/4, 1/2, 1t MLKS only)											

* For trolley suspension (Plane, Geared, Motorized) Customer has to specify the Flange width

Notes :

- (1) Required with "H" suspension.
- (2) XX=specify hand chain length if other than standard "08" (8 feet) required.
- (3) For solid bronze wheels on non-spark resistant, add "R" to the end of the trolley suspension code.



Ingersoll Rand Industrial Products Pvt. Limited

Factory and North/East Zone

Sales Office : 37-A, Site 4, Sahibabad
Industrial Area, Ghaziabad-201 010 U.P.
Tel : +91-120-4389200, 4389400,
Fax : +91-120-4389444
E-mail : wadco_shd@irco.com

South/West Zone

Sales Office : Chetak Apartments
19, Seth Motisha Lane (Love Lane)
Mazagaon, Mumbai-400 010
Tel : 022-23704972/3/4/5, 23726982
Fax : 022-23732326
e-mail: wadco_mum@irco.com



ISO 9001:2000