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INDUSTRIAL SERVICES CATALOG

sunbeltrentals.com

855-260-6726



SUNBELT
RENTALS®

INDUSTRIAL
SERVICES



SPECIALTY TOOLS, CUSTOMIZED TOOL PACKAGES AND ON-SITE EQUIPMENT MANAGEMENT
FOR ANY INDUSTRIAL APPLICATION.

INDUSTRIAL SERVICES

Sunbelt Rentals' Industrial Services was formed to address customer demand for specialty rental products beyond those stocked at local Sunbelt Rentals locations. Our mission is to provide centralized industrial support centers for the sourcing of specialty tools and equipment for all of our customers nationwide.

The Industrial Services provides a wide range of specialty equipment serviced by factory-trained technicians to meet your specific rental needs—the right product for the job and product specific knowledge available with just one phone call.



Products offered by the Industrial Services include industrial air tools, air handling equipment, hoists and winches, hydraulic tools and torque wrenches, industrial pressure washers, material handling equipment, mechanical trade tools, generator accessories, portable lighting, welding and fabrication equipment and other specialized construction and industrial equipment.

Freight and Delivery

All the equipment in this catalog can be delivered to your office or job site via motor freight on a timely and cost-effective basis. Minimize downtime and conserve your labor resources by working closely with our Dispatcher to coordinate the "Freight In" and "Freight Out" logistics to assure on-time delivery and pick-up.

To determine the transit time for shipments to your location, refer to the map on the back cover of this catalog. Many customers are pleasantly surprised when they see the wide area we can service with one- and two-day transit times.



A Challenge to Our Loyal Customers

In our ongoing effort to develop new market opportunities, we want to hear from you! Have you ever said, "I wish someone would rent that!" Well, we're looking for those ideas. Call and speak with one of our Industrial Services representatives to discuss your specific rental needs. More than likely, there are other potential renters with the same needs and challenges you face. It's our goal to be the first and only call you need to make for all of your specialty tool and equipment needs. Thanks for choosing Sunbelt Rentals!



Sunbelt Rentals Industrial Services locations are stocked with large quantities of specialty tools and equipment to meet the needs of industrial contractors during periods of peak demand.



855-260-6726

View the full range of equipment offered by Sunbelt Rentals using our full-line catalog or visit sunbeltrentals.com

ON-SITE TOOL TRAILERS AVAILABLE

**24/7
ACCESS**



CUSTOMIZABLE ON-SITE TOOL TRAILERS

Easy access, large quantities, specialized & general tool product mix.

Full line of consumables, including abrasive blades, grinding equipment, safety supplies and welding accessories.

Pneumatic Tools

Impacts
Percussion Tools
Air Saws
Air Grinders
Ventilation
10,000 PSI Test Pumps

Hydraulic Tools
Hydraulic Pipe Benders
Rams up to 100 Ton
Crimpers

Electric Tools
Grinders
Saws

Hand Tools
Combo Wrenches
Sockets
Hammer Wrenches

Hydraulic & Air Torquing

Full low clearance
Square drive torquing line
up to 50,000 lb. ft.

Hoisting & Rigging

Manual Hoists up to 25 Ton
Air Hoists up to 50 Ton
Electric Hoists up to 10 Ton
Custom Rigging and Hoisting Packages

Specialty Welding

Inverter Welders up to 350 AMPS
Rectifier Welders up to 600 AMPS
Fume Extractors

Safety Supplies & More



INDUSTRIAL
SERVICES

Outages • Turnarounds • Shutdowns • Construction Sites

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AIR TOOLS — INDUSTRIAL

IMPACT WRENCHES, MAGNETIC DRILL, AIR ROTARY HAMMER DRILL



Air Hose
Air hose ranging from 3/8" to 3" diameter is available

AIR IMPACT WRENCHES provide high-speed bolt torquing in industrial and construction applications. Factors to consider when selecting an impact wrench for a specific application are the diameter of the bolts being tightened, the approximate torque requirement and the intended use frequency. Impact sockets are also available for rent. (Cat-Class 150-0155)



Universal Tool UT8160R
1/2" Square Drive



Universal Tool UT7560C-75
3/4" Square Drive



Universal Tool UT1040C
1" Square Drive



Universal Tool UT1550S
No. 5 Spline Drive



Make	Model	Drive/Style	No-Load Speed	Impacts/Min	Max Torque	Air Requirement	Weight	Cat-Class
Ingersoll	2707P1	1/2" square/pistol	7,750 RPM	1,300	450 ft. lbs.	26 CFM @ 90 PSI	6 lbs.	002-0040
Ingersoll	2135PT1	1/2" square/pistol	9,500 RPM	1,250	600 ft. lbs.	24 CFM @ 90 PSI	5 lbs.	002-0040
Universal Tool	UT8160R	1/2" square/pistol	9,000 RPM	1,250	725 ft. lbs.	29 CFM @ 90 PSI	4 lbs.	002-0040
Universal Tool	UT7560C-75	3/4" square/pistol	5,700 RPM	1,050	1,025 ft. lbs.	35 CFM @ 90 PSI	12 lbs.	002-0045
Ingersoll	2925P1	3/4" square/pistol	5,200 RPM	1,050	1,450 ft. lbs.	60 CFM @ 90 PSI	12 lbs.	002-0045
Ingersoll	2161P	3/4" square/pistol	6,000 RPM	1,050	1,250 ft. lbs.	46 CFM @ 90 PSI	12 lbs.	002-0045
Universal Tool	UT7560C-1	1" square/pistol	5,700 RPM	1,050	1,025 ft. lbs.	35 CFM @ 90 PSI	12 lbs.	002-0050
Ingersoll	1712B2	1" square/straight	6,000 RPM	800	1,350 ft. lbs.	56 CFM @ 90 PSI	18 lbs.	002-0050
Universal Tool	UT1040C	1" square/straight	5,000 RPM	800	2,000 ft. lbs.	58 CFM @ 90 PSI	22 lbs.	002-0050
Ingersoll	3940B2T1	1" square/straight	6,000 RPM	800	2,500 ft. lbs.	75 CFM @ 90 PSI	21 lbs.	002-0050
Ingersoll	2950B7	1-1/2" square/straight	3,750 RPM	650	3,000 ft. lbs.	70 CFM @ 90 PSI	33 lbs.	002-0049
Universal Tool	UT1550C	1-1/2" square/straight	3,750 RPM	650	3,000 ft. lbs.	70 CFM @ 90 PSI	33 lbs.	002-0049
Universal Tool	UT1550S	No. 5 spline/straight	3,750 RPM	650	3,000 ft. lbs.	70 CFM @ 90 PSI	33 lbs.	002-0048

UNITEC AIRBOR™ PORTABLE MAGNETIC DRILL

is ideal for use in a variety of industrial applications such as refineries, chemical plants, and utilities. It features a 1-HP air motor and a "fail-safe" air-operated magnet. Air requirement is 32 CFM @ 90-PSI. Unit weighs 34 lbs.

CS Unitec AB-4300-2 (Cat-Class 002-0400)

- 2-1/16" diameter cutting capacity to 3" depth with annular drills
- 500 RPM no-load speed

Note: Sunbelt Rentals also offers electric magnetic drills with up to 4" cutting capacity.

Unitec AirBor
Air Magnetic Drill



UNITEC AIR ROTARY HAMMER DRILL

provides fast, impact drilling of anchor holes and thruholes for concrete and masonry in industrial applications, such as refineries, chemical plants, and utilities. It provides safer operation than electric drills in hazardous atmospheres. Air requirement is 21 CFM @ 90-PSI. Unit weighs 11 lbs.

CS Unitec 2-2404-0010 (Cat-Class 002-0410)

- Uses SDS-Plus bits: 1" capacity in solid concrete, up to 2-1/2" capacity in brick and block
- 3000 BPM percussion under load, 0-400 RPM loaded speed

Unitec
Air Rotary Hammer



AIR TOOLS

AIR TOOLS — INDUSTRIAL

INDUSTRIAL AIR TOOLS

INDUSTRIAL AIR TOOLS are ideal for use in applications where a source of compressed air is available and electric power is unavailable.

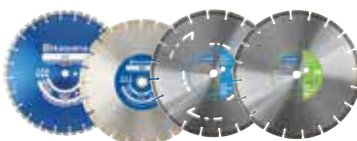
AIR TOOLS



Figure	Make	Model	Description	Capacity	Speed	Air Requirement	Weight	Cat-Class
A	Unitec	AirBand	Band Saw	4-3/4"	130-220 SPM	20 CFM @ 90 PSI	14 lbs.	002-0034
B	Ingersoll	S80	Circular Saw	8-1/4"	4,000 RPM	67 CFM @ 90 PSI	15 lbs.	002-0033
C	Universal Tool	UT4425	Die Grinder	1/4" collet	25,000 RPM	22 CFM @ 90 PSI	2 lbs.	002-0051
*	Ingersoll	HD180RG4	Die Grinder	1/4" collet	18,000 RPM	43 CFM @ 90 PSI	2 lbs.	002-0051
D	Ingersoll	7ANSTB	Drill, Standard	1/2"	900 RPM	25 CFM @ 90 PSI	3 lbs.	002-0038
E	Ingersoll	22KA1	Drill, Large	9/16"	725 RPM	55 CFM @ 90 PSI	15 lbs.	002-0396
F	Ingersoll	33SKA	Drill, Large	1-1/4"	300 RPM	85 CFM @ 90 PSI	25 lbs.	002-0398
G	Unitec	5-1212-0010	Hack Saw	2-3/8"	330 SPM	51 CFM @ 90 PSI	15 lbs.	002-0036
H	APT	317 Kit	Needle Scaler	19 needles	4,000 BPM	7 CFM @ 90 PSI	7 lbs.	002-0054
*	Ingersoll	182LNA1	Needle Scaler	19 needles	4,000 BPM	13 CFM @ 90 PSI	6 lbs.	002-0054
I	Ingersoll	SRA010A1	Reciprocating Saw	6" blade	1,600 SPM	21 CFM @ 90 PSI	8 lbs.	002-0037
J	Ingersoll	HA120RP1045	Wheel Grinder	4-1/2" wheel	12,000 RPM	43 CFM @ 90 PSI	3 lbs.	002-0201
*	Ingersoll	88V60P107	Wheel Grinder	7" wheel	6,000 RPM	61 CFM @ 90 PSI	9 lbs.	002-0202

*Not Illustrated

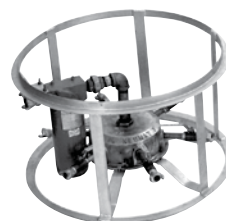
AIR CUTOFF SAWS are high-speed, hand-held cutoff saws ideal for cutting concrete, stone, asphalt, steel and other materials. They utilize 14" diameter abrasive or diamond cutting wheels with a max. cutting depth of 5". Air requirement is 100-125 CFM @ 100-PSI. Unit weighs 22 lbs. Husqvarna K40/14 (Cat-Class 020-0060)



Sunbelt Rentals offers a full line of diamond and abrasive blades for cutoff saws.

AIR MANIFOLDS provide multiple 3/4" air outlets with ball valve controls from a larger (1-1/2" or 2") air inlet. Both tank-type and cage-type air manifolds are offered, both types with a 200-PSI pressure rating. (Cat-Class 150-0095)

Note: Other types and sizes of air manifolds are also available.



Cage-Type Air Manifold w/ Water Filter

Includes (6) ball valve controlled outlets and a 1-1/2" air inlet.



Tank-Type Air Manifold

Includes (8) ball valve controlled outlets. A 2" air inlet with 4-prong coupler on one end and flow-thru plug on the other end allows using multiple units in tandem.

AIR COMPRESSORS & ACCESSORIES

TOWABLE AIR COMPRESSORS, AIR HOSE

TOWABLE AIR COMPRESSORS are designed for the rugged demands of contractors in numerous applications, including demolition, road and bridge building, sandblasting and general construction work. They feature single-axle trailer mounting for towing at speeds up to 55 MPH. Diesel-driven models ranging from 90 CFM to 375 CFM are available. Smaller models include two 3/4" discharge outlets; 375 CFM models include one 1-1/4" outlet.



Doosan C185 185 CFM Towable



Doosan 375 CFM Towable

Make	Model	CFM	Rated Pressure	Pressure Range	HP	Overall Dimensions	Weight	Cat-Class
Doosan	P90WIR	90	100 PSI	80-125 PSI	28	110"L x 55"W x 45"H	1,160 lbs.	001-0010
Doosan	C185	185	100 PSI	80-125 PSI	65	141"L x 69"W x 62"H	2,325 lbs.	001-0030
Sullivan-Palatek	D185P	185	100 PSI	70-125 PSI	49	125"L x 55"W x 61"H	1,900 lbs.	001-0030
Doosan	XP375	375	125 PSI	80-150 PSI	123	158"L x 78"W x 68"H	4,418 lbs.	001-0050
Sullivan-Palatek	D375P	375	100 PSI	70-125 PSI	140	147"L x 56"W x 80"H	3,395 lbs.	001-0050
Doosan	HP375	375	150 PSI	80-175 PSI	123	158"L x 78"W x 68"H	4,418 lbs.	001-0060
Sullivan-Palatek	D375PH	375	150 PSI	70-170 PSI	140	147"L x 56"W x 80"H	3,395 lbs.	001-0060

AIR HOSE To complete your compressed air installation, Sunbelt Rentals offers a wide selection of air hose and accessory items including connectors and fittings, safety whipchecks, OSHA valves, inline water separators, inline oilers, pressure regulators, blow pipes and receiver tanks.

Air Hose	
Description	Cat-Class
3/8" x 25' Air Hose	150-0019
3/8" x 50' Air Hose	150-0020
3/4" x 50' Air Hose	150-0025
1" x 50' Air Hose	150-0030
1-1/2" x 50' Air Hose	150-0032
2" x 25' Air Hose	150-0035
2" x 50' Air Hose	150-0040
3" x 25' Air Hose	150-0045
3" x 50' Air Hose	150-0050
Bull Hose Spud Connector	150-0055
Air Hose Whip Check	150-0060
Air Hose OSHA Valve	150-0065
Inline Water Separator	150-0070
Y Air Hose Fitting	150-0075
Inline Oiler	150-0080
Air Pressure Regulator	150-0085
Blow Pipe	150-0090
660 gal. Air Receiver Tank	150-0053



3/8" Air Hose



3/4" Air Hose



2" Air Hose



3" Air Hose with Boss Fittings



Air Hose Whip Check

Inside Diameter	Free CFM	Pressure Loss in Air Hose (per 50' length)						
		Line Pressure (PSI)						
		60	80	100	120	150	200	300
3/4"	60	3.1	2.4	2.0				
	80	5.3	4.2	3.5	2.9	2.4	1.8	1.2
	100	8.1	6.4	5.2	4.5	3.6	2.8	1.9
	120		9.0	7.4	6.3	5.1	3.9	2.7
	140		12.0	9.9	8.4	6.9	5.3	3.6
	160			12.7	10.8	8.9	6.8	4.6
	180				13.6	11.1	8.5	5.8
	200				16.6	13.5	10.4	7.1
1"	220					16.2	12.4	8.4
	120	2.7	2.1					
	150	4.1	3.2	2.7	2.3			
	180	5.8	4.6	3.8	3.2	2.6	2.0	1.3
	210	7.7	6.1	4.0	4.3	3.5	2.7	1.8
	240		7.9	6.5	5.5	4.5	3.4	2.3
	270		9.8	8.1	6.9	5.6	4.3	2.9
	300		12.0	9.9	8.4	6.9	5.3	3.6
2"	330			11.8	10.0	8.2	6.3	4.3
	360			13.9	11.9	9.7	7.4	5.0
	390				13.8	11.3	8.7	5.9
	420				15.9	13.0	10.0	6.8
	450					14.8	11.4	7.7
	600	1.9						
	800	3.2	2.5	2.1				
	1,000	5.0	3.9	3.2	2.7	2.2	1.7	1.1
3"	1,200	7.0	5.5	4.5	3.8	3.1	2.4	1.6
	1,400	9.3	7.4	6.1	5.2	4.2	3.2	2.2
	1,600		9.6	7.9	6.7	5.5	4.2	2.8
	1,800		12.1	9.9	8.4	6.9	5.3	3.6
	2,000			12.2	10.4	8.5	6.5	4.4
	2,200			14.6	12.5	10.2	7.8	5.3
	2,400				14.7	12.0	9.2	6.3
	2,600					14.1	10.8	7.3
3"	2,800					16.2	12.4	8.5
	2,000	2.5	2.0					
	2,500	3.9	3.0	2.5	2.1			
	3,000	5.5	4.4	3.6	3.1	2.5	1.9	1.3
	3,500	7.5	5.9	4.9	4.1	3.4	2.6	1.7
	4,000	9.8	7.6	6.3	5.3	4.4	3.3	2.3
	4,500		9.6	7.9	6.7	5.5	4.2	2.8
	5,000		11.7	9.6	8.2	6.7	5.1	3.5
3"	5,500			11.5	9.8	8.0	6.1	4.2
	6,000			13.6	11.5	9.4	7.2	4.9
	6,500				13.5	11.0	8.4	5.7
	7,000				15.6	12.7	9.8	6.6
	7,500					14.5	11.1	7.6

AIR TOOLS

CHAIN HOISTS & AIR WINCHES

MANUAL CHAIN HOISTS, LEVER HOISTS, ELECTRIC CHAIN HOISTS

MANUAL CHAIN HOISTS feature rugged steel construction and hook suspension mounting for safe, dependable lifting of light to medium loads.

- 1- to 25-ton capacity models are available with standard lifts of 10', 20', 30' and 50'. Non-standard lifts up to 80' are also available
- CFO-series hoists feature a compact design and are ideal for maintenance applications
- CF-series hoists feature a unique hand chain guide for smooth operation without jamming

Harrington Hoist CF010-10
1-ton Manual Chain Hoist



LEVER HOISTS are suitable for a variety of industrial lifting, pulling and positioning applications. They feature a rugged, compact design and require minimum effort to handle heavy loads. Forged steel alloy load hooks have wide throat openings with slip-resistant barbed tips to better retain slings. 5', 10' and 20' lift chains are available.

Harrington Hoist LB015-10
1-1/2-ton Lever Hoist



JLC4008-1-40
2-ton Electric Hoist

ELECTRIC CHAIN HOISTS utilize a helical/spur gear drive that provides smooth, quiet operation. 2-ton and 4-ton hoists are available, equipped with a pendant control. 40', 50' and 60' lift chains are available.

- Totally enclosed, high torque motors for heavy-duty operation
- NEMA 3R hoist enclosures and NEMA 4X pendant enclosures provide dependable outdoor operation
- Latch-type swivel hooks, top and bottom



Make	Model	Capacity	Chain Falls	Lifting Speed	HP	Voltage	Amp Rating	Weight	Cat-Class
Harrington Hoist	SNER020L-40	2 ton	1	32 FPM	2.4	115V	7.6/3.8	130 lbs.	081-0415
Harrington Hoist	SNER020L-50	2 ton	1	32 FPM	2.4	115V	7.6/3.8	130 lbs.	081-0415
Harrington Hoist	SNER020L-60	2 ton	1	32 FPM	2.4	115V	7.6/3.8	130 lbs.	081-0415
Columbus Mckinnon	EC8008340	4 ton	2	16 FPM	3.6	230/460V, 3-phase	12.0/6.0	236 lbs.	081-0425
Columbus Mckinnon	EC8008360	4 ton	2	16 FPM	3.6	230/460V, 3-phase	12.0/6.0	236 lbs.	081-0425



Make	Model	Capacity	Lift	Weight	Cat-Class
Harrington Hoist	CF010-10	1 ton	10'	25 lbs.	081-0210
Harrington Hoist	CF010-20	1 ton	20'	30 lbs.	081-0215
Harrington Hoist	CF010-30	1 ton	30'	36 lbs.	081-0220
Harrington Hoist	CF010-50	1 ton	50'	52 lbs.	081-0225
Harrington Hoist	CF015-10	1-1/2 ton	10'	48 lbs.	081-0226
Harrington Hoist	CF015-20	1-1/2 ton	20'	48 lbs.	081-0227
Harrington Hoist	CF015-30	1-1/2 ton	30'	48 lbs.	081-0228
Harrington Hoist	CF020-20	2 ton	20'	60 lbs.	081-0235
Harrington Hoist	CF020-30	2 ton	30'	70 lbs.	081-0240
Harrington Hoist	CF020-50	2 ton	50'	95 lbs.	081-0245
Harrington Hoist	CF030-10	3 ton	10'	66 lbs.	081-0250
Harrington Hoist	CF030-15	3 ton	15'	89 lbs.	081-0255
Harrington Hoist	CF030-20	3 ton	20'	105 lbs.	081-0255
Harrington Hoist	CF030-30	3 ton	30'	105 lbs.	081-0260
Ingersoll-Rand	MCH5-030-50	3 ton	30'	144 lbs.	081-0265
Harrington Hoist	CF050-10	5 ton	10'	77 lbs.	081-0270
Harrington Hoist	CF050-20	5 ton	20'	106 lbs.	081-0275
Harrington Hoist	CF050-30	5 ton	30'	128 lbs.	081-0280
Harrington Hoist	CF050-50	5 ton	50'	179 lbs.	081-0285
Harrington Hoist	CF100-10	10 ton	10'	158 lbs.	081-0290
Harrington Hoist	CF100-20	10 ton	20'	225 lbs.	081-0295
Harrington Hoist	CF100-30	10 ton	30'	263 lbs.	081-0300
Harrington Hoist	CF100-50	10 ton	50'	368 lbs.	081-0310
Harrington Hoist	CF150-20	15 ton	20'	419 lbs.	081-0320
Harrington Hoist	CF150-30	15 ton	30'	499 lbs.	081-0325
Harrington Hoist	CF300-30	30 ton	30'	870 lbs.	081-0355



Make	Model	Capacity	Lift	Weight	Cat-Class
Ingersoll-Rand	LV150-5	3/4 ton	5'	12 lbs.	081-0040
Harrington Hoist	LB008-10	3/4 ton	10'	14 lbs.	081-0045
Harrington Hoist	LB008-20	3/4 ton	20'	18 lbs.	081-0050
Ingersoll-Rand	LV300-5	1-1/2 ton	5'	21 lbs.	081-0070
Harrington Hoist	LB015-10	1-1/2 ton	10'	24 lbs.	081-0075
Harrington Hoist	LB015-20	1-1/2 ton	20'	30 lbs.	081-0080
Ingersoll-Rand	LV600-5	3 ton	5'	35 lbs.	081-0085
Harrington Hoist	LB030-10	3 ton	10'	40 lbs.	081-0090
Harrington Hoist	LB030-20	3 ton	20'	45 lbs.	081-0095
Harrington Hoist	LB060-10	6 ton	10'	77 lbs.	081-0105
Harrington Hoist	LB060-20	6 ton	20'	99 lbs.	081-0110

CHAIN HOISTS & AIR WINCHES

AIR CHAIN HOISTS, BEAM TROLLEYS, BEAM CLAMPS

AIR CHAIN HOISTS are ideal for lifting applications where a compressed air supply is available. With no electrical hazard, they provide freedom from electrical shock and are ideal for use in flammable environments such as chemical plants and refineries. Air chain hoists are the preferred choice for use in dusty or dirty environments. Other features include accurate load spotting and low maintenance requirements. Models ranging from 1-ton to 25-ton capacity are available.

- 100% duty cycle rated for continuous operation
- Latch-type swivel hooks, top and bottom

Note: By removing the bottom block on the 2-ton and 12-ton hoists, the lift capacity is halved (1 ton and 6 tons respectively) and the lifting speed is doubled. Air requirements remain the same.



LCA-Series

HLK-Series

Make	Model	Capacity	Chain Falls	Lifting Speed (rated load)	Lifting Speed (no load)	Lowering Speed (rated load)	Air Requirement	Weight	Cat-Class
Ingersoll-Rand	HL1000K-OC30-CO	1 ton	1	26.0 FPM	40.0 FPM	37.0 FPM	70 CFM @ 90 PSI	84 lbs.	081-0510
JD Neuhaus	Profi 1TI/2TI ²	1 ton/2 ton	1 or 2	18.0/9.0 FPM	36.0/18.0 FPM	36.0/18.0 FPM	53 CFM @ 85 PSI	62/75 lbs.	081-0515
JD Neuhaus	Profi 1.5TI/3TI-2 ²	1.5 ton/3 ton	1 or 2	19.7/9.8 FPM	32.8/16.4 FPM	39.4/19.7 FPM	127 CFM @ 85 PSI	123/146 lbs.	081-0517
Ingersoll-Rand	HL2000K-OC30-CO	2 ton	2	13.0 FPM	20.0 FPM	18.0 FPM	70 CFM @ 90 PSI	125 lbs.	081-0515
JD Neuhaus	Profi 3TI/6TI ²	3 ton/6 ton	1 or 2	16.4/8.2 FPM	32.8/16.4 FPM	35.4/17.7 FPM	195 CFM @ 85 PSI	190/243 lbs.	081-0525
Ingersoll-Rand	HL4500K-OC30-CO	4-1/2 ton	3	4.6 FPM	10.5 FPM	10.0 FPM	70 CFM @ 90 PSI	193 lbs.	081-0520
Ingersoll-Rand	LCA0601C19MO	6 ton	1	5.9 FPM	11.8 FPM	9.8 FPM	124 CFM @ 90 PSI	286 lbs.	081-0525
JD Neuhaus	Profi 10TI	10 ton	2	5.2 FPM	10.5 FPM	11.2 FPM	195 CFM @ 85 PSI	344 lbs.	081-0527
Ingersoll-Rand	LCA120D1C1C9MO	12 ton	2	3.0 FPM	5.9 FPM	4.9 FPM	124 CFM @ 90 PSI	396 lbs.	081-0530
Ingersoll-Rand	HA1-010MA3-100 ¹	10 ton	2	5.0 FPM	5.0 FPM	7.5 FPM	165 CFM @ 90 PSI	1,105 lbs.	081-0530
JD Neuhaus	Profi 16TI	16 ton	3	3.3 FPM	6.6 FPM	6.9 FPM	195 CFM @ 85 PSI	529 lbs.	081-0535
Ingersoll-Rand	LCA180T1C19MO	18 ton	3	1.6 FPM	3.3 FPM	3.3 FPM	124 CFM @ 90 PSI	484 lbs.	081-0535
Ingersoll-Rand	LCA250Q1C1C9MO	25 ton	4	1.3 FPM	2.6 FPM	2.5 FPM	124 CFM @ 90 PSI	506 lbs.	081-0540
JD Neuhaus	Profi 25TI	25 ton	2	4.1 FPM	7.9 FPM	9.2 FPM	230 CFM @ 85 PSI	1,213 lbs.	081-0540

¹This model includes an air-powered motorized trolley with a 6"-8" flange adjustment.

²Dual capacity models that can be configured with either single or double chain falls.

BEAM TROLLEYS provide a convenient means to suspend chain hoists from an overhead beam and provide horizontal travel. Both manual (push-type) and geared trolleys are available in a variety of capacities for both manual and powered hoists up to 20-ton capacity.

- Trolleys adjust easily to fit any beam flange within range
- 5:1 design factor allows use with manual and powered hoists
- Dual tread wheels allow use on flat or tapered flange beams
- Wheels run on sealed ball bearings for long life and low maintenance



Push Trolley



Geared Trolley

Make	Model	Type	Capacity	Std Flange Adjustment	Min Beam Height	Min Curve Radius	Weight	Cat-Class
Harrington Hoist	PTF2010	Push	1 ton	2.5"-8.0"	4.3"	42"	23 lbs.	081-0610
Harrington Hoist	PTF2020 ¹	Push	2 ton	3.5"-8.0"	4.9"	48"	39 lbs.	081-0620
Harrington Hoist	PTF2030	Push	3 ton	3.9"-8.0"	6.2"	48"	60 lbs.	081-0630
Harrington Hoist	PTF2050 ¹	Push	5 ton	4.5"-8.0"	6.9"	60"	93 lbs.	081-0640
Harrington Hoist	PTF100	Push	10 ton	4.9"-12.0"	8.3"	96"	157 lbs.	081-0650
Ingersoll-Rand	SG050	Geared	5 ton	4.5"-8.0"	6.9"	60"	101 lbs.	081-0670
Ingersoll-Rand	SG100	Geared	10 ton	4.9"-12.0"	8.3"	96"	165 lbs.	081-0680
Ingersoll-Rand	SG200	Geared	20 ton	5.4"-12.0"	10.3"	120"	379 lbs.	081-0690

¹Wide beam extension kits are available for these models.

BEAM CLAMPS provide a temporary or permanent fixed mount tapered or flat beams.

- Low headroom design adjusts to fit flange widths and beam sizes
- 5:1 design factor allows use with manual and powered hoists



Beam Clamp



Make	Model	Capacity	Beam Width	Weight	Cat-Class
Ingersoll-Rand	BC-3	3 ton	3.2"-12.6"	9 lbs.	081-0710
Ingersoll-Rand	BC-5	5 ton	3.6"-12.6"	11 lbs.	081-0720

CHAIN HOISTS & AIR WINCHES

AIR WINCH BASICS

Winch Capacity: Winches can lift or pull the highest loads at the first layer and can lift/pull the least at the top layer. This is due to the “torque arm” effect of the rope spooling on the winch drum. The closer the load is to the drum, the easier it is for the drum to turn and move the load. The farther away the load is from the drum, the harder it is for the winch to turn.

Winch Speed: Winches generally move the load fastest at the

top layer and slowest at the first layer, which is opposite from winch capacity. This is because the outer layer is moving faster than the inner layer.

Winch Capacity/Speed Summary:

Top layer – Maximum speed, Minimum pull

Mid layer – Medium speed, Medium pull

First layer – Minimum speed, Maximum pull

Why choose an air winch?

- Air winches are simple, rugged, reliable sources of enormous lifting and pulling power for their weight.
- Air motors cannot burn out; they can be operated all day without damage, making air winches ideal for tensioning applications, such as holding a barge in place. And when air winches are stalled, they use no air.
- Air winches have exceptional load “spotting” ability.

- Speed control is variable from a slow creep to full speed.
- Air winches are well suited for applications in hot, cold, dusty, dirty, explosive and wet conditions. They pose no electrical shock hazard, require no special enclosures, and there are no high-pressure hydraulic lines to leak.
- Air winches have an unlimited duty cycle.
- Air winches can be reeved for increased capacity easily.
- Air winches are easy to service and repair.

Winch Selection Guidelines: *Follow these guidelines to choose the correct utility winch for your application.*

1. First, consider these three fundamental questions:
 - a. How much is to be lifted, pulled or tensioned?
 - b. How fast does the load need to be moved (if at all)?
 - c. How much wire rope is needed?
2. Choose a winch with a lifting capacity equal to or greater than your application load.
3. Make sure the average speed meets your criteria for cycle time.
4. Wire rope selection is based on a 5:1 design factor and an 18:1 D/d ratio. The 18:1 D/d ratio is an ANSI/ASME B30-7 recommendation and is calculated as $D + d / d$ where D = winch barrel diameter and d = wire rope size. The higher the ratio, the longer the wire rope life. As a guideline, this ratio should never go below 15:1. The use of 6 x 37 rope will increase flexibility.

Tip: *Consider using a pulley to increase capacity, reduce speed and obtain better load control.*

Winch Selection Checklist

Power Source:

- Manual _____
- Air (pressure, flow) _____
- Electric (cycles, phase, voltage) _____

Lifting or pulling application _____ How far/how high? _____

Selected winch capacity _____ Winch speed? _____ FPM

Speed at mid-drum, top, or first wrap layer? _____ FPM

Drum storage _____ Rope diameter _____

Duty cycle (if known) _____

Time required to complete lift or pull (speed) _____ FPM

Control type (local, remote, electrical voltage. Include maximum distance.) _____

Special standards or documents required? _____ Name/no. _____

Date required _____

Duration of rent _____

CHAIN HOISTS & AIR WINCHES

AIR WINCHES, GANTRY CRANES

AIR WINCHES are ideal for lifting, pulling and tensioning of materials. Applications include construction, heavy industrial, utilities, shipbuilding and petrochemical.

- Meet or exceed ANSI/ASME winch standards
- Open front design for horizontal pulling
- Piston air motors for positive starts and excellent spotting
- Galvanized steel cages for easy handling and durability
- Dual winch “waterfall” configurations available



1,000 lb. Air Winch



4,000 lb. Air Winch



10,000 lb. Air Winch



Dual “Waterfall” 10,000 lb. Air Winch

Make	Model	Capacity*	Brake Type	Drum Length	HP	Air Requirement	Air Inlet	Weight	Cat-Class
Ingersoll-Rand	BU7AQ-E	1,000 lbs.	Manual Band	4.5"	1.6	50 CFM @ 90 PSI	3/4"	75 lbs.	082-0100
Ingersoll-Rand	EULQ-S	2,000 lbs.	Manual Band	12.9"	4.4	100 CFM @ 90 PSI	3/4"	440 lbs.	082-0200
Ingersoll-Rand	FA2B-LMX1HQ-S	4,000 lbs.	Manual Band	20.0"	16.0	375 CFM @ 90 PSI	1-1/4"	738 lbs.	082-0300
Thern	TA2-24MX1	4,000 lbs.	Manual Band	24.0"	7.1	250 CFM @ 90 PSI	1"- 25.4mm	1,100 lbs.	082-0300
Ingersoll-Rand	FA5A-LMX1HQ-S	10,000 lbs.	Manual Band	27.0"	25.0	600 CFM @ 90 PSI	1-1/4"	1,176 lbs.	082-0400
Thern	TA7-30AX1	10,000 lbs.	Auto Band	30.0"	14.4	550 CFM @ 90 PSI	1.5"- 38.1mm	3,620 lbs.	082-0450

*Capacity is based on mid-layer lift capacity rating.

Dual “Waterfall” Winch Specifications

Make	Model	Capacity*	Brake Type	Drum Length	HP	Air Requirement	Air Inlet	Weight	Cat-Class
Ingersoll-Rand	FA2.5A-WFS/01085	5,000 lbs.	Auto Drum/Disc	20.0"	25.0	700 CFM @ 90 PSI	1-1/4"	2,500 lbs.	082-0500
Ingersoll-Rand	FA5A-WFS/01085	10,000 lbs.	Auto Drum/Disc	27.0"	25.0	700 CFM @ 90 PSI	1-1/4"	3,600 lbs.	082-0600

*Capacity is based on mid-layer lift capacity rating.

Note: These models include two winches mounted on a common pedestal in a “waterfall” configuration. Above specifications (except weight) are for each winch.

Performance Ratings

Model	Lift Capacity Ratings*			Line Pull Ratings**		
	First Layer	Mid Layer	Top Layer	First Layer	Mid Layer	Top Layer
BU7AQ-E	1,200 lbs./36 FPM	1,000 lbs./43 FPM	1,000 lbs./39 FPM	1,500 lbs./26 FPM	1,200 lbs./34 FPM	1,000 lbs./39 FPM
EULQ-S	2,100 lbs./62 FPM	2,000 lbs./68 FPM	2,000 lbs./64 FPM	3,000 lbs./45 FPM	2,600 lbs./49 FPM	2,000 lbs./64 FPM
FA2B-LMX1HQ-E	5,000 lbs./79 FPM	4,000 lbs./96 FPM	3,200 lbs./122 FPM	5,100 lbs./76 FPM	4,000 lbs./96 FPM	3,200 lbs./122 FPM
FA2.5A-WFS/01085	7,000 lbs./97 FPM	5,800 lbs./117 FPM	5,000 lbs./132 FPM	8,000 lbs./79 FPM	6,600 lbs./42 FPM	5,300 lbs./119 FPM
FA5A (both models)	11,400 lbs./50 FPM	10,000 lbs./32 FPM	8,000 lbs./43 FPM	13,100 lbs./26 FPM	10,000 lbs./32 FPM	8,000 lbs./43 FPM

*Lift capacity ratings are based on ANSI/ASME B30.16 allowable line pulls. (5:1 design factor)

**Line pull ratings are based on ANSI/ASME B30.7 allowable line pulls. (3.5:1 design factor)

Drum Wire Rope Capacities

Model	1/4" Cable	5/16" Cable	3/8" Cable	7/16" Cable	1/2" Cable	5/8" Cable	3/4" Cable
BU7AQ-E	228'	132'					
EULQ-S		946'	619'	465'			
FA2B-LMX1HQ-E			1,758'	1,371'	1,068'	625'	
FA2.5A-WFS/01085			1,758'	1,371'	1,068'	625'	
FA5A (both models)						1,802'	1,355'

Note: Wire rope must be purchased separately from winches. Either 6 x 19 or 6 x 37 Extra Improved Plow Steel (EIPS) with independent wire rope core (IWRC) is recommended

GANTRY CRANES are ideal for performing many industrial lifting applications. They feature adjustable span, height and caster frame spread and are suitable for mounting a variety of trolleys and chain hoists. Unit features a knock-down design for portability and weighs 386 lbs.

Wallace A4T12-A10 (Cat-Class 044-0075)

- 2-ton capacity, 10' beam span, 5' clear span
- Aluminum alloy construction with 8" casters
- Overall height is adjustable from 8' 1" to 12' 6"
- Caster frame spread is adjustable from 6' to 10'

Wallace 2-ton Gantry Crane
With optional trolley and chain hoist



ELECTRIC TOOLS

MAGNETIC DRILLS, CORE DRILL RIGS

MAGNETIC DRILLS are compact portable drill presses with magnetic bases that are ideal for many industrial drilling applications. Jancy drills utilize Slugger® cutters, a unique bit that produces burr-free holes in one operation. They also feature a through-the-spindle coolant system and a soft-touch control panel for precision operation. Some models can also accommodate a twist drill adapter that allows using conventional twist drill bits. All models operate on standard 120V power.



Slugger Cutter
Ranging from
1/2" to 4"
diameter



Jancy JM101



Jancy MagForce



Jancy SluggerMax 4x4



Make	Model	Twist Drill Capacity*	Slugger Capacity	Cutting Depth	Speed(s)	Amp Rating	Weight	Cat-Class
Jancy	JM101*	1/2"	1-3/8"	2"	450 RPM	10.2	28 lbs.	004-0026
Jancy	MagForce	N/A	1-3/8"	2"	395 RPM	10.2	27 lbs.	004-0028
Jancy	SluggerMax 2x2	N/A	2"	2"	210/420 RPM	10.2	37 lbs.	004-0028
Jancy	SluggerMax 4x4*	1-1/4"	4"	3"	100/150/200/310 RPM	11.7	73 lbs.	004-0029

*Twist drill adapter option is required on Jancy JM101 and SluggerMax 4x4 models.

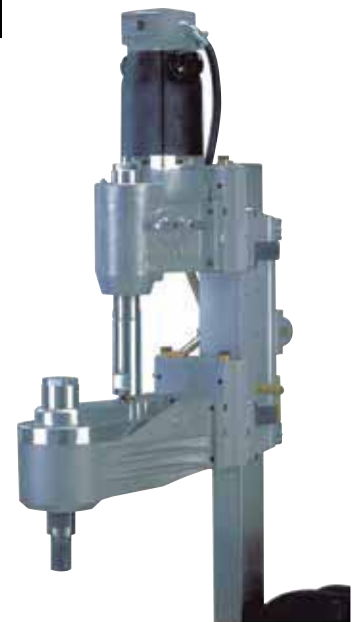
TARGET TRUCORE™ TORQUE BOOSTER CORE DRILL RIG

features a built-in torque booster that doubles the torque of the electric motor. This allows drilling up to 26" diameter holes in concrete slabs and other masonry surfaces utilizing a 115V motor, providing a cost effective alternative to using large hydraulic drills. Rig includes a 2-7/8" x 60" large base, double roller carriage, dove tail, 4-speed electric motor, spacer/slide assembly, and an adjustable column support. Unit weighs approx. 200 lbs. (Cat-Class 032-0750)

- Torque Booster doubles the torque of the electric motor and absorbs shock loads.
- 3-HP, 20-amp 115V motor:
- 4-Speed operation: 200/400/800/1400 RPM
- Fast setup and easy operation



Target TruCore™
Core Drill Rig
w/Torque Booster



Diamond Core Drill Bits are available from Sunbelt Rentals for hand-held core drills and core drill rigs in sizes ranging from 2" to 26" diameter. Bits are offered for both rental and sale.

ELECTRIC TOOLS

ANGLE GRINDERS, DIE GRINDERS, BAND & RECIPROCATING SAWS

ANGLE GRINDERS have the power and versatility to perform a variety of functions. With the proper accessories, all models are suitable for grinding, weld removal, wire brushing, polishing and sanding. All models feature 120V operation. Grinder accessories available include grinding discs, cup stones, wire cups and diamond cupwheels.



Bosch 1347A
4-1/2" Angle Grinder



Bosch 1803EVS
5" Angle Grinder



Bosch 1894-6
9" Angle Grinder



Bosch 1773AK
5" Concrete Surfacing Grinder
Utilizes Diamond Cupwheels



Make	Model	Capacity	Max Speed	Amp Rating	Weight	Cat-Class
Bosch	1347A	4-1/2"	11,000 RPM	6.0	5 lbs.	004-0001
Bosch	1773AK	5"	11,000 RPM	10.0	6 lbs.	004-0001
Bosch	1803EVS	5"	11,000 RPM	9.0	5 lbs.	004-0001
Bosch	1894-6	9"	6,000 RPM	15.0	13 lbs.	004-0008



DIE GRINDERS feature "in-line" operation and ultra-high operating speeds for precision grinding in tight spaces using grinding wheels up to 2" diameter. 27,000 RPM, 4.6A, 120V operation. Unit weighs 3 lbs. Bosch 1215 (Cat-Class 004-0002)



Bosch 1215
2" Die Grinder

HAND-HELD BAND SAWS are ideal for cutting thick materials. Both models utilize standard 44-7/8" x 1/2" x .020" band saw blades and feature 120V operation.



DeWalt D28770K Band Saw



Make	Model	Square Capacity	Round Capacity	Speed	Amp Rating	Weight	Cat-Class
DeWalt	D28770K	4-3/4"	4-3/4"	80-280 FPM	15	15 lbs.	004-0030



RECIPROCATING SAWS provide fast, efficient cutting of wood, pipe and other tough materials. They feature variable-speed control are suitable for both curved and straight cuts. 1-1/2" stroke, 0-2,700 SPM speed, 9A, 120V operation. Unit weighs 7 lbs. Bosch RS5 (Cat-Class 004-0031)



Bosch RS5
Reciprocating Saw

FANS/BLOWERS/VENTILATORS

HIGH-VOLUME FANS, HIGH-VELOCITY FANS

HIGH-VOLUME FANS are designed for maximum airflow and are available in pedestal and dolly mounted models. All units operate on standard 115V power.

Suggested Applications:

- Large Area Cooling: Loading docks, gymnasiums, warehouses—where a high volume of air is required for ventilation and cooling
- Spot Cooling: Assembly lines, laundries, machine shops—where workers need a steady flow of air for cooling and ventilation



Triangle SPL 4213
42" Dolly



Triangle CF2421
24" Dolly



Triangle AMB 3021
30" Pedestal



Make	Model	Mounting	Fan Size	Max CFM Hi/Lo	HP	Amp Rating	Weight	Cat-Class
Triangle	CF2421	2-wheel dolly	24"	3,800/3,200	1/4	3.5	48 lbs.	036-0130
Triangle	AMB 3021	Pedestal	30"	8,400/6,600	1/4	2.6	83 lbs.	036-0110
Triangle	SPL 4213	2-wheel dolly	42"	14,445	1/2	7.5	128 lbs.	036-0130
Patterson	HVD-42	2-wheel dolly	42"	16,000/13,950	1/2	4.5	100 lbs.	036-0130

HIGH-VELOCITY FANS feature high-pressure blade designs coupled with a deep shroud that moves air great distances at high velocity. Cart, pedestal and yoke-mounted models are available.

Suggested Applications:

- Clearing buildings of smoke, pollution and humidity
- Paint drying and dust control
- Outdoor cooling and mosquito control
- Personnel Cooling—General circulation in wide open shop areas or close-in cooling of work stations
- Emergency Cooling—Jet blast for cooling overheated equipment
- Process Cooling—Ventilation, drying and cooling in plant and manufacturing applications



Coenco Ram I
30" Cart
Shown with optional vinyl air sock



Patterson PS-30
30" Pedestal



Patterson HV-22
22" Yoke-mounted



Make	Model	Mounting	Fan Size	Max Airflow	Max Velocity	HP	Voltage	Weight	Cat-Class
Patterson	HV-18	Yoke	18"W x 16"D	3,800 CFM	200 FPM @ 80' radius	1/2	115V, 5.1A	52 lbs.	036-0140
Patterson	PS-18	Pedestal	18"W x 16"D	3,800 CFM	200 FPM @ 80' radius	1/2	115V, 5.1A	97 lbs.	036-0140
Coenco	Ram II-18	2-wheel cart	18"W x 16"D	7,500 CFM	560 FPM @ 90' radius	3/4	115V, 7.5A	50 lbs.	036-0140
Patterson	HV-22	Yoke	22"W x 16"D	5,570 CFM	300 FPM @ 80' radius	1/2	115V, 5.1A	56 lbs.	036-0140
Patterson	PS-22	Pedestal	22"W x 16"D	5,570 CFM	300 FPM @ 80' radius	1/2	115V, 5.1A	104 lbs.	036-0140
Patterson	HV-30	Yoke	30"W x 22"D	12,000 CFM	400 FPM @ 80' radius	1	115V, 13.6A	100 lbs.	036-0140
Patterson	PS-30	Pedestal	30"W x 22"D	12,000 CFM	400 FPM @ 80' radius	1	115V, 13.6A	118 lbs.	036-0140
Coenco	Ram I	2-wheel cart	30"W x 36"D	13,000 CFM	560 FPM @ 90' radius	3/4	115V, 8.5A	90 lbs.	036-0140
Coppus	30K30D	Pedestal	30"W x 28"D	17,000 CFM	475 FPM @ 90' radius	3	230V, 3ø	240 lbs.	036-0360

FANS/BLOWERS/VENTILATORS

EVAPORATIVE COOLING FANS, CONFINED SPACE VENTILATORS

EVAPORATIVE COOLING FANS

provide a cost effective alternative to air conditioning in a variety of cooling applications including manufacturing plants, industrial plants, warehouses, loading docks and commercial greenhouses.

- Heavy duty casters
- Power Breezer models features a water tank that will last up to 5 days
- Portacool model features a water control valve, low water shutoff



PortaCool 36" Evaporative Cooler



Power Breezer Mobile Cooling Unit

Make	Model	Fan Size	Max Airflow	Cooling Area	Voltage	Amp Rating	Dimensions	Weight	Cat-Class
Power Breezer	PB10-A-06-B	N/A	14,000 CFM	3,000 sq. ft.	110V	7	70"H x 29.5"W x 42"D	250 lbs.	036-0240
PortaCool	PAC2K361S	36"	9,600 CFM	2,500 sq. ft.	115V	10.8	67"H x 62"W x 32"D	195 lbs.	036-0410
PortaCool	PACHR36HPVS	36"	10,100 CFM	2,650 sq. ft.	115V	11	86"H x 74"W x 36"D	200 lbs.	036-0410
PortaCool	PAC2K482S	48"	20,000 CFM	4,000 sq. ft.	115V	12	86"H x 74"W x 36"D	345 lbs.	036-0450

CONFINED SPACE VENTILATORS are utilized to ventilate manholes and other confined spaces, providing fresh air and removing fumes to increase worker safety and comfort. Several types of manhole blowers are available to accommodate a variety of applications and airflow requirements. All electric blowers operate on standard 115V current. All models utilize flexible duct to direct airflow. Some models also accommodate duct at the air intake for exhaust applications.

Note: 8" and 12" flexible duct are available for rent: 8" duct (Cat-Class 150-0670); 12" duct (Cat-Class 150-067)

- Radial-type ventilators feature a rugged design for general ventilation supply applications
- Vaneaxial ventilators feature a streamlined design and powerful airflow for both supply and exhaust applications



General EP8
Electric Radial Ventilator



General GP8H
Gas Radial Ventilator



Coppus VANO 175-CV1 and 250-CV1
Electric Vaneaxial Ventilators
Explosion-proof models also available



Make	Model	Type	Housing	Max Airflow	Intake Duct	Exhaust Duct	HP	Weight	Cat-Class
General	EP8	Electric Radial	Cast Aluminum	1,277 CFM	8"	N/A	1/3	53 lbs.	036-0210
General	GP8H	Gas Radial	Cast Aluminum	1,561 CFM	8"	N/A	4	56 lbs.	036-0220
Coppus	VANO 175CV	Electric Vaneaxial	Aluminum/Steel	1,500 CFM	8"	8"	3/4	73 lbs.	036-0320
Coppus	VANO 250CV	Electric Vaneaxial	Aluminum/Steel	3,000 CFM	12"	12"	1	93 lbs.	036-0340

FANS/BLOWERS/VENTILATORS

HAZARDOUS LOCATION VENTILATORS, TANK FANS, VENTURI AIR HORNS

HAZARDOUS LOCATION CONFINED SPACE VENTILATORS are utilized to ventilate manholes and other confined spaces in hazardous atmospheres, providing fresh air and removing fumes. They feature explosion-proof electric motors and spark-proof housings. All models operate on 115V current and utilize flexible duct to direct airflow.

- Coppus VEP1 features a vaneaxial blower with a polymer housing and accommodates intake duct
- Coppus VANO models feature vaneaxial blowers with aluminum/steel housings and accommodate intake duct

Note: 8" and 12" flexible duct are available for rent:
8" duct (Cat-Class 150-0670); 12" duct (Cat-Class 150-067)



Coppus VEP1



Coppus VANO 175CV1-EP



Make	Model	Max CFM	Hazardous Location Classifications*	Intake Duct	Exhaust Duct	HP	Weight	Cat-Class
Coppus	VEP1	867	Class I, Div. 1, Group D; Class II, Div. 1, Groups E,F,G	8"	8"	1/2	40 lbs.	036-0310
General	EP8HL	1,277	Class I Group D, Class II Group G, Class III	8"	N/A	1/3	53 lbs.	036-0310
Coppus	VANO 175CV-EP	1,500	Class I, Div. 1, Group D; Class II, Div. 1, Groups E,F,G	8"	8"	3/4	73 lbs.	036-0330
Coppus	VANO 250CV-EP	3,000	Class I, Div. 1, Group D; Class II, Div. 1, Groups E,F,G	12"	12"	1	93 lbs.	036-0350

*See page 148 for detailed explanations of hazardous location classifications.

TANK FANS are designed to mate with API tank openings to provide safe, efficient ventilation of large tanks and process vessels. Air-driven Jet fans that operate on compressed air and a combination Turbo fan that operates on either steam or compressed air are available. Both types are ideal for use in hazardous locations and areas without electric power. They feature spark-resistant aluminum fan blades and housings and operate on a range of inlet pressures, producing static pressures up to 10" WC.



Texas Pneumatic TX-JF20
Compressed Air



Texas Pneumatic TX-TF20
Steam/Compressed Air



Make	Model	API Size	Power Source	Inlet Pressure Range	Max Airflow Range	Weight	Cat-Class
Texas Pneumatic	TX-JF20	20"	Compressed Air	40–100 PSI	5,920–10,420 CFM	95 lbs.	036-0560
Texas Pneumatic	TX-TF20	20"	Steam/Compressed Air	40–150 PSI	1,500–11,400 CFM	122 lbs.	036-0570
Texas Pneumatic	TX-JF24	24"	Compressed Air	40–100 PSI	5,920–10,420 CFM	95 lbs.	036-0565

VENTURI AIR HORNS are utilized to disperse fumes, move air in confined spaces and cool workers, machinery, or products. Applications include refineries and chemical, utilities and co-generation, tanks and vessels, pulp and paper plants, shipyards and manholes. Each model includes a connection for a ground wire at the base to discharge any static electricity present.

- Horns are powered by compressed air, making them ideal for use in hazardous locations
- Can be used as a blower or exhauster
- Units are ductible for added versatility



Texas Pneumatic TX6AM
6" Venturi Air Horn



Make	Model	Rating	Inlet Pressure Range	Air Consumption	Max Airflow Range	Air Inlet	Overall Length	Weight	Cat-Class
Texas Pneumatic	TX3AM	3"	40–80 PSI	35–62 CFM	1,017–1,462 CFM	1/2"	31"	9 lbs.	036-0520
Texas Pneumatic	TX6AM	6"	40–80 PSI	73–124 CFM	2,385–3,347 CFM	1"	44"	22 lbs.	036-0530
Texas Pneumatic	TX10AM	10"	40–80 PSI	154–274 CFM	4,898–7,304 CFM	1"	48"	42 lbs.	036-0550

GENERATOR ACCESSORIES

MILL PANELS, POWER DISTRIBUTION ACCESSORIES

MILL PANELS are ideal for providing multiple 120V outlets from a 480V or 575V 3-phase power source for turn-arounds, plant maintenance, and shutdowns. 10 kVA and 30 kVA step-down transformer type mill panels are available, plus a 225 kVA model that is ideal for multi-operator welding applications.

- NEMA 4X polycarbonate enclosures
- Include primary safety switch and power-on light



30 kVA Mill Panel



225 kVA Mill Panel

Capacity	Power Input	Power Output	Power Outlets	Weight	Cat-Class
10 kVA	480/575V, 3 ϕ	208Y/120V, 41.7 amps	(6) 20A 120V GFCI, (2) 30A 240V	175 lbs.	006-0300
30 kVA	600/480V, 3 ϕ	208Y/120V, 83.4 amps	(9) 20A 120V GFCI, (4) 50A 125/250V twist-lock	450 lbs.	006-0310
225 kVA	480/575V, 3 ϕ	480/575V, 3 ϕ	(8) 50A 480/575V, 3 ϕ welder receptacles	221 lbs.	006-0320

POWER DISTRIBUTION ACCESSORIES Sunbelt Rentals Pump & Power Services locations offer a wide selection of power distribution accessories including portable distribution panels, I-Line Multi-Panels, spider boxes, fuseable disconnect switches, resistive load banks, step-down transformers, transfer switches, cable ramps, power cable and connectors. They also offer complete, turnkey installations of temporary and emergency power distribution systems.

For more information, call Sunbelt Rentals Pump & Power Services 800-736-2504.



200A
Quad Box Feeder Panel



200A
Spider Box Feeder Panel



75kVA Step-down Transformer



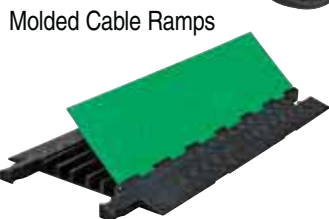
1,200A
I-Line Multi-Panel



Three Gang Boxes w/GFCI



Cam-lock Cables



Molded Cable Ramps



Quad Box Strings w/GFCI



Banded 5 Wire Cables



Spider Box Cables

HEATERS

ELECTRIC HEATERS, STEAM HEATERS

PORTABLE ELECTRIC HEATERS provide fast, clean, odorless heat for contractors, special events and other enclosed spaces, operating virtually maintenance-free. Units are also great for emergency thawing of frozen pipes and a variety of drying applications. Portable electric heaters ranging from 1.5 kW to 60 kW capacity are available.

- All models include a built-in thermostat to regulate operation
- Patron 1.5 kW heater is a compact model ideal for heating one room—unit plugs into a standard 120V outlet
- 10 kW to 30 kW heaters include a 2-wheel dolly for portability and connect to an electric service panel
- 60 kW heaters are ductible and feature a rugged aluminum frame that allows stacking. Units include 4-wheel casters for portability and connect to an electric service panel
- All models include an electric fan that circulates heated air



Fostoria
FES-1524-3E 15 kW



Patron
E 1.5 1.5 kW



Chromalox
DRA-30-43 30 kW



Chromalox
SDRA-60-43 RG 60 kW

INDUSTRIAL ELECTRIC HEATERS provide clean, dry electric heat for large capacity industrial and special event applications. They feature environment-friendly operation and rugged, weatherproof enclosures for reliable operation outdoors. Utilizes 20" ducting for both supply and return ducts. Units operate on 480V 3-phase power and utilize a 4-circuit design that can be configured as 150 kW (512,000 BTU), 90 kW (386,000 BTU) and 60 kW (256,000 BTU) capacity to match heating requirements. Chromalox units are stackable for efficient transport and storage.



Mosebach 150 kW Industrial Electric Heater
Units have fixed casters for easy mobility



Chromalox 150 kW Industrial Electric Heaters
Multiple units heating special events tents

STEAM HEATERS mount to a durable, heavy-duty cart with hanging/lifting support brackets and heavy-duty locking wheels, providing on-the-spot heat. This unit comes pre-piped with inlet strainer, pressure line shutoff valve, on/off switch and an electrical pig tail. Plug-through thermostatic control also available. (Cat-Class 010-0900)

Heating Capacity BTU/u	684,000
Max Airflow	4,000 CFM
Fuel Type	Steam
Power Supply	120V, 1ph
Net Wt./Shipping Wt.	225/400 lbs.
Dimensions	34"L x 66"W x 36"H



Safe-Heat
STM-500

Make	Model	kW	Max BTU	Heating Area*	Max Airflow	Voltage	Amp Rating	Weight	Cat-Class
Patron	Patron E 1.5	1.5	5,100	120 sq. ft.	116 CFM	120V 1ø	15	15 lbs.	010-0510
Fostoria	FES-1024-1CA	10	34,130	790 sq. ft.	800 CFM	240V 3ø	42	60 lbs.	010-0520
Chromalox	DRA-15-23	15	51,180	1,185 sq. ft.	1,070 CFM	240V 3ø	36	65 lbs.	010-0530
Fostoria	FES-1524-3E ¹	15	51,195	1,185 sq. ft.	800 CFM	240V 3ø	36	60 lbs.	010-0530
Chromalox	DRA-30-43	30	102,390	2,370 sq. ft.	1,070 CFM	480V 3ø	36	75 lbs.	010-0540
Fostoria	FES-3048-3A	30	102,360	2,370 sq. ft.	800 CFM	480V 3ø	36	72 lbs.	010-0540
Patron	Patron 40E	40	133,000	3,080 sq. ft.	1,765 CFM	480V 3ø	60	125 lbs.	010-0550
Chromalox	SDRA-60-43 RG	60	204,720	4,740 sq. ft.	2,700 CFM	480V 3ø	73	170 lbs.	010-0560
Patron	Patron 60E	60	205,000	4,740 sq. ft.	1,765 CFM	480V 3ø	75	130 lbs.	010-0560
Chromalox	PN 305481005	150	512,000	11,850 sq. ft.	5,000 CFM	480V 3ø	180	1,740 lbs.	010-0570
Mosebach	HBXISO4803Q	150	512,000	11,850 sq. ft.	4,500 CFM	480V 3ø	181	723 lbs.	010-0570

*Heating area is based upon a 40° temperature rise in a sealed building with an 8' ceiling.

¹Fostoria FES-1524 is also available in 240V 1ø (Cat-Class 010-0525) and 480V 3ø (Cat-Class 010-0535) models.

HYDRAULIC CYLINDERS & PUMPS

GENERAL PURPOSE CYLINDERS, LOW HEIGHT CYLINDERS

SINGLE-ACTING GENERAL PURPOSE CYLINDERS

are available in capacities from 10 to 150 ton.

- RC-series general purpose cylinders
- RCA-series lightweight aluminum cylinders
- CLSG-series high-tonnage cylinders



RC-series cylinders are equipped with hardened removable grooved saddles. (For other saddle and accessory options, see page 21)

Make	Model	Capacity	Stroke	Collapsed Height	Extended Height	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	RC-102	10 ton	2.13"	4.78"	6.91"	2.25"	P-392	5 lbs.	088-0015
Enerpac	RC-104	10 ton	4.13"	6.75"	10.88"	2.25"	P-392	7 lbs.	088-0017
Enerpac	RC-106	10 ton	6.13"	9.75"	15.88"	2.25"	P-392	10 lbs.	088-0019
Enerpac	RC-108	10 ton	8.00"	11.75"	19.75"	2.25"	P-392	12 lbs.	088-0021
Enerpac	RC-1010	10 ton	10.13"	13.75"	23.88"	2.25"	P-392	14 lbs.	088-0023
Enerpac	RC-252	25 ton	2.00"	6.50"	8.50"	3.38"	P-80	14 lbs.	088-0047
Enerpac	RC-254	25 ton	4.00"	8.50"	12.50"	3.38"	P-80	18 lbs.	088-0049
Enerpac	RC-256	25 ton	6.25"	10.75"	17.00"	3.38"	P-80	22 lbs.	088-0051
Enerpac	RC-2510	25 ton	10.25"	14.75"	25.00"	3.38"	P-80	31 lbs.	088-0055
Enerpac	RC-2514	25 ton	14.25"	18.75"	33.00"	3.38"	P-80	39 lbs.	088-0059
Enerpac	RC-504	50 ton	4.00"	8.94"	12.94"	5.00"	P-462	42 lbs.	088-0065
Enerpac	RCA-504	50 ton	4.00"	8.97"	12.97"	5.88"	P-462	27 lbs.	088-0085
Enerpac	RC-506	50 ton	6.25"	11.13"	17.38"	5.00"	P-462	51 lbs.	088-0067
Enerpac	RC-1006	100 ton	6.63"	14.06"	20.69"	7.00"	P-462	130 lbs.	088-0075
Enerpac	RC-10010	100 ton	10.25"	17.69"	27.94"	7.00"	P-462	160 lbs.	088-0077
Enerpac	CLSG-1502	150 ton	1.97"	7.72"	9.69"	8.07"	P-462	86 lbs.	088-0275
Enerpac	CLSG-1510	150 ton	9.84"	15.59"	25.43"	8.07"	P-462	203 lbs.	088-0283

SINGLE-ACTING LOW HEIGHT CYLINDERS are ideal for use in confined spaces, available in capacities from 5 to 150 ton.

- RSM-series Flat-Jac® cylinders
- RCS-series Low Height cylinders



Note: Call 855-260-6726 for any capacities not listed.

Make	Model	Capacity	Stroke	Collapsed Height	Extended Height	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	RSM-50	5 ton	.25"	1.28"	1.53"	2.31" x 1.63"	P-392	2 lbs.	088-0103
Enerpac	RSM-100	10 ton	.44"	1.69"	2.13"	3.25" x 2.19"	P-392	3 lbs.	088-0105
Enerpac	RCS-101	10 ton	1.50"	3.47"	4.97"	2.75"	P-392	9 lbs.	088-0119
Enerpac	RSM-200	20 ton	.44"	2.03"	2.47"	4.00" x 3.00"	P-80	7 lbs.	088-0107
Enerpac	RCS-201	20 ton	13.75"	3.88"	5.63"	3.63"	P-392	11 lbs.	088-0121
Enerpac	RSM-300	30 ton	.50"	2.31"	2.81"	4.63" x 3.75"	P-80	10 lbs.	088-0109
Enerpac	RCS-302	30 ton	2.44"	4.63"	7.06"	4.00"	P-80	15 lbs.	088-0123
Enerpac	RSM-500	50 ton	.63"	2.63"	3.25"	5.50" x 4.50"	P-462	15 lbs.	088-0111
Enerpac	RCS-502	50 ton	2.38"	4.81"	7.19"	4.88"	P-462	24 lbs.	088-0125
Enerpac	RSM-1000	100 ton	.63"	3.38"	4.00"	7.00" x 6.00"	P-462	32 lbs.	088-0115
Enerpac	RCS-1002	100 ton	2.25"	5.56"	7.81"	6.50"	P-462	50 lbs.	088-0127
Enerpac	RSM-1500	150 ton	.63"	3.94"	4.56"	8.50" x 7.50"	P-462	58 lbs.	088-0117

HYDRAULIC CYLINDERS & PUMPS

HOLLOW PLUNGER, LOCK NUT, DOUBLE-ACTING, PULL CYLINDERS

HOLLOW PLUNGER CYLINDERS provide extra versatility in testing, maintenance and tensioning applications by allowing both pull and push forces. Capacities from 12 to 60 tons are available.



RCH-series cylinders are equipped with smooth saddles. (For other saddle and accessory options, see page 21)



Make	Model	Capacity	Stroke	Collapsed Height	Extended Height	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	RCH-121	12 ton	1.63"	4.75"	6.38"	2.75"	P-392	6 lbs.	088-0131
Enerpac	RCH-202	20 ton	1.63"	4.75"	6.38"	2.75"	P-392	6 lbs.	088-0137
Enerpac	RCH-603	60 ton	3.00"	9.75"	12.75"	6.25"	P-462	62 lbs.	088-0144
Enerpac	RCH-606	60 ton	6.00"	12.75"	18.75"	6.25"	P-462	78 lbs.	088-0146

LOCK NUT CYLINDERS feature a safety lock nut to secure loads mechanically. Capacities from 50 to 200 tons are available.



Note: Call 855-260-6726 for any capacities not listed.

Make	Model	Capacity	Stroke	Collapsed Height	Extended Height	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	CLL-502	50 ton	1.97"	6.46"	8.43"	4.92"	P-80	35 lbs.	088-0502
Enerpac	CLL-506	50 ton	5.91"	10.39"	16.30"	4.92"	P-80	57 lbs.	088-0506
Enerpac	CLL-5012	50 ton	11.81"	16.30"	28.11"	4.92"	P-462	90 lbs.	088-0512
Enerpac	CLL-1002	100 ton	1.97"	7.36"	9.33"	6.50"	P-462	68 lbs.	088-0514
Enerpac	CLL-1006	100 ton	5.91"	11.30"	17.20"	6.50"	P-462	106 lbs.	088-0518
Enerpac	CLL-10012	100 ton	11.81"	17.20"	29.02"	6.50"	P-462	162 lbs.	088-0524
Enerpac	CLL-2006	200 ton	5.91"	13.50"	19.41"	9.25"	P-462	260 lbs.	088-0540

DOUBLE-ACTING CYLINDERS provide both push and pull capabilities for extra versatility. Capacities from 10 to 150 tons are available.

- Double-acting cylinders must be powered by a pump equipped with a 4-way valve



Make	Model	Capacity	Stroke	Max Push	Max Pull	Collapsed Height	Extended Height	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	RR-1010	10 ton	10.00"	11 tons	4 ton	16.13"	26.13"	2.88"	P-84	28 lbs.	088-0171
Enerpac	RR-506	50 ton	6.13"	55 tons	17 ton	13.06"	19.19"	5.00"	P-84	67 lbs.	088-0179
Enerpac	RR-5020	50 ton	20.13"	55 tons	17 ton	28.88"	49.00"	5.00"	P-464	150 lbs.	088-0183
Enerpac	RR-1502	150 ton	2.25"	153 tons	74 ton	7.72"	9.96"	8.00"	P-464	110 lbs.	088-0190
Enerpac	RR-1506	150 ton	6.13"	153 tons	74 ton	15.19"	21.31"	8.00"	P-464	205 lbs.	088-0197

PULL CYLINDERS provide the ultimate in pulling power in a variety of applications, available in two sizes.



Make	Model	Capacity	Stroke	Collapsed Height	Extended Height	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	BRP-306	30 ton	6.10"	42.72"	48.82"	5.39"	P-80	106 lbs.	088-0585
Enerpac	BRP-606	60 ton	5.98"	28.34"	34.32"	5.51"	P-80	118 lbs.	088-0586

HYDRAULIC CYLINDERS & PUMPS

HYDRAULIC MAINTENANCE SETS, ACCESSORIES

HYDRAULIC MAINTENANCE SETS (53-Piece) include a hand hydraulic pump, (3) hydraulic cylinders and a complete assortment of accessories suitable for performing a wide variety of maintenance applications, including pushing, pulling, lifting, pressing, straightening, spreading and clamping. Set weighs 350 lbs. Enerpac MS2-1020 (Cat-Class 088-0720)

- (2) 10-ton and (1) 25-ton RC-series cylinders
- P-392 hydraulic hand pump
- 6' high-pressure hydraulic hose, pressure gauge and adapter
- Assortment of threaded adapters, collar toes, flat bases, clamp toes, saddles, spreaders, pulling chains, lock-on adapters and other accessories

*Note: A 22-piece starter set is also available.
Set weighs 105 lbs. Enerpac MSFP-10*



Enerpac MS2-1020 53-piece Hydraulic Maintenance Set

HYDRAULIC ACCESSORIES are available to extend the application capabilities of cylinders:

- Flat/threaded, grooved and tilt saddles to accommodate special applications
- Base plates to increase cylinder stability
- Mounting blocks and clevis eyes
- Pressure gauges and adapters to minimize the risk of overloading components
- Hydraulic couplers
- High-pressure hydraulic hose (available in 6', 10' and 20' lengths)



Hydraulic Coupler



Hydraulic Hose



Flat/Threaded Saddle



Grooved Saddle



Tilt Saddle



Base Plate



Mounting Block



Pressure Gauge

HYDRAULIC CYLINDERS & PUMPS

HAND PUMPS, ELECTRIC PUMPS

HYDRAULIC HAND PUMPS are designed for use with various types of Enerpac hydraulic cylinders. All models feature a two-stage (2-speed) design to provide rapid advance of cylinder plunger to contact load. Also speeds up operation of multiple cylinder hook-ups. To match a hand pump to a particular hydraulic cylinder or determine the operating speed for a specific pump, refer to the spec and speed charts.

- Two-speed operation for reduced operator fatigue
- P-84 and P-464 models feature a manual 4-way control valve to accommodate double-acting systems
- A 7-port hydraulic manifold is available (Cat-Class 150-0927)



4-Way Valve

Models P-84 and P-464 feature a manual 4-way control valve, which is needed to operate double-acting cylinders

Hand Pump General Specifications

Make	Model	Type	Usable Oil Capacity	PSI Rating 1st Stage/2nd Stage	Max Handle Effort	Stroke	Weight	Cat-Class
Enerpac	P-392	2-speed Lightweight Composite	55 cu. in.	200/10,000	93 lbs.	1.00"	9 lbs.	088-0591
Enerpac	P-80	2-speed Steel	134 cu. in.	350/10,000	104 lbs.	1.00"	24 lbs.	088-0595
Enerpac	P-84	2-speed Steel w/4-way valve	134 cu. in.	350/10,000	104 lbs.	1.00"	29 lbs.	088-0600
Enerpac	P-462	2-speed Steel	453 cu. in.	200/10,000	110 lbs.	1.50"	61 lbs.	088-0603
Enerpac	P-464	2-speed Steel w/4-way valve	453 cu. in.	200/10,000	110 lbs.	1.50"	61 lbs.	088-0605

Hand Pump Speed Chart

Model	Number of Pump Handle Strokes per inch of Cylinder Plunger Travel (No load/Load)							
	5-ton Cyl	10-ton Cyl	15-ton Cyl	25-ton Cyl	30-ton Cyl	50-ton Cyl	75-ton Cyl	100-ton Cyl
P-392	2/7	4/15	5/21	8/34	10/43	16/73	24/105	30/137
P-80	1/7	2/15	3/21	5/34	7/43	11/73	16/105	21/137
P-84	1/7	2/15	3/21	5/34	7/43	11/73	16/105	21/137
P-462	1/3	1/8	1/11	1/18	1/23	2/38	2/55	3/71
P-464	1/3	1/8	1/11	1/18	1/23	2/38	2/55	3/71

ELECTRIC PUMPS are best suited for powering medium to large cylinders and hydraulic tools. They provide high-speed operation and are designed for intermittent duty cycles. All models feature 115V operation. To determine the operating speed for a specific electric pump, see chart below.

- Coaxial piston design provides high performance in a lightweight, compact package
- 24V DC remote control pendant with 10' cord
- Externally adjustable relief valve allows easy control of operating pressure
- 10,000 PSI maximum operating pressure



Electric Pump General Specifications

Make	Model	Valve Type	Valve Function	Cylinder Type	Usable Oil Capacity	Weight	Cat-Class
Enerpac	PUD-3309B	Dump and hold	Advance/Hold/Retract	Single-acting	2.4 gal.	71 lbs.	088-0650
Enerpac	ZU4208SB	Dump and hold	Advance/Retract	Single-Acting	2.0 gal.	69 lbs.	088-0650
Enerpac	PUD-3320BR	Dump and hold	Advance/Hold/Retract	Single-Acting	5.0 gal.	109 lbs.	088-0660
Enerpac	PUR-3409B	VSP-424 4-way solenoid	Advance/Hold/Retract	Double-Acting	2.4 gal.	84 lbs.	088-0670
Enerpac	ZU4408SB	VE43 4-way solenoid	Advance/Hold/Retract	Double-Acting	2.0 gal.	85 lbs.	088-0670

Electric Pump Speed Chart

Model	Seconds per Inch of Cylinder Plunger Travel (No load/Load)							
	5-ton Cyl	10-ton Cyl	15-ton Cyl	25-ton Cyl	30-ton Cyl	50-ton Cyl	75-ton Cyl	100-ton Cyl
PUD-3309B	.09/1.0	.22/2.2	.31/3.1	.50/5.2	.63/6.5	1.1/11.1	1.6/15.9	2.0/20.6
ZU4208DB	.08/1.0	.19/2.2	.27/3.1	.44/5.2	.56/6.5	.95/11.0	1.36/15.9	1.77/20.6
PUR-3409B	.09/1.0	.22/2.2	.31/3.1	.50/5.2	.63/6.5	1.1/11.1	1.6/15.9	2.0/20.6
ZU4408SB	.08/1.0	.19/2.2	.27/3.1	.44/5.2	.56/6.5	.95/11.0	1.36/15.9	1.77/20.6
PUD-3320BR	.09/1.0	.22/2.2	.31/3.1	.50/5.2	.63/6.5	1.1/11.1	1.6/15.9	2.0/20.6

HYDRAULIC TOOLS

PUNCH SETS, CUTTERHEADS

HYDRAULIC PUNCH SETS feature a 35-ton capacity and are ideal for punching holes in steel plates up to 1/2" thick using standard punch and die sets, at production rates much faster than drilling. Includes four standard punch and die sets. Powered by a separate hand or electric pump. Set weighs 40 lbs. Enerpac SP-35S (Cat-Class 088-0750)

- Single-acting, spring return design
- Includes punch and die changeover tools and female coupler
- Four standard round punch and die sets included (see chart below)
Square and oblong sets are also available by special order
- 10,000 PSI maximum operating pressure
- Hydraulic pump and hoses are rented separately



Enerpac SP-35S 35-ton Hydraulic Punch Set

Punch and Die Set Specifications

Model	Hole Size (in.)	Bolt Size (in.)	Max Allowable Material Thickness to be Punched (Inches)*											
			A	B	C	D	E	F	G	H	I	J	K	
SPD-438	.44	3/8	.44	.44	.38	.38	.38	.31	.19	.31	.31	.31	.31	.31
SPD-563	.56	1/2	.50	.50	.50	.44	.50	.44	.25	.38	.44	.44	.44	.44
SPD-688	.69	5/8	.50	.50	.50	.44	.50	.40	.25	.31	.40	.40	.40	.40
SPD-813	.81	3/4	.50	.50	.50	.44	.50	.31	.19	.31	.31	.31	.31	.31

*MATERIAL TYPES:

A: Mild A-7 C: Structural A-36 E: Cold Rolled C-1018 G: Hot Rolled C-1095 I: Stainless Annealed K: Stainless 316 Cold Rolled
 B: Boiler Plate D: Struct Corten (ASTM A242) F: Hot Rolled C-1050 H: Hot Rolled C-1095 Annealed J: Stainless 304 Hot Rolled

HYDRAULIC CUTTERHEADS are designed for fast cutting of wire rope, round bar, wire strand and cable. They feature guillotine action for efficient operation.

- Single-acting, spring return design
- 10,000 PSI max operating pressure
- Hand or electric hydraulic pump and hoses are rented separately
- WHC-4000 model is designed specifically for cutting telephone and underground power cable



Make	Model	Capacity	Length	Max Cutting Capacities (inches)**											Weight	Cat-Class	
				A	B	C	D	E	F	G	H	I	J	K			
Enerpac	WHC-1250	20 tons	11"	1.25	1.13	1.25	1.13	1.00	1.25	1.25	1.25	.88	•	•	25 lbs.	088-0785	
Enerpac	WHC-2000	13 tons	15"	1.00	1.25	1.25	.88	•	2.00	2.00	2.00	.75	•	2.00	23 lbs.	088-0790	
Enerpac	WHC-4000	8 tons	24"	•	•	•	•	•	•	•	•	•	•	4.00	4.00	32 lbs.	088-0795

*MATERIAL TYPES: • Will not cut this material

A: Steel Wire Rope, Hemp-core B: Copper Wire or Bar D: Soft Steel Bolts F: Bare Copper Wire Strands H: ACSR Wire Strands J: Telephone Cable CPP
 or IWRC 6x7, 6x12, 6x19 C: Aluminum Wire or Bar E: Reinforcing Bar G: Bare Aluminum Wire Strands I: Guy Steel Wire Strands K: Underground Cable (Power)

HYDRAULIC NUT SPLITTERS are ideal for cutting nuts in applications including machinery repair, industrial piping, tank cleaning, petrochemical, steel construction and mining. They feature a compact ergonomic design that is easy to operate.

- Unique angled head allows flush access
- Single-acting, spring return cylinder
- Hydraulic pump and hoses are rented separately



Make	Model	Capacity	Hexagon Nut Range	Bolt Range	Overall Length	Outside Diameter	Matching Hand Pump	Weight	Cat-Class
Enerpac	NC-2432	15 ton	0.94-1.13"	0.63-0.88"	10.24"	2.60"	P-392	7 lbs.	088-9005
Enerpac	NC-3241	20 ton	1.13-1.56"	0.88-1.13"	11.26"	2.95"	P-392	10 lbs.	088-9007
Enerpac	NC-4150	35 ton	1.56-2.00"	1.13-1.38"	12.80"	3.78"	P-392	19 lbs.	088-9009
Enerpac	NC-5060	50 ton	2.00-2.25"	1.38-1.50"	14.41"	4.17"	P-392	26 lbs.	088-9011

HYDRAULIC TOOLS

HYDRAULIC TOOLS

HYDRAULIC NUT SPLITTERS, WEDGIE SPREADERS, FLANGE SPREADERS

HYDRAULIC TOOLS

HYDRAULIC WEDGIE SPREADERS are ideal for spreading and positioning heavy objects, powered by hand or electric hydraulic pumps.

- Single-acting, spring return design
- WR-5 is a compact model for working in confined spaces
- WR-15 is for long stroke spreading applications
- 10,000 PSI maximum operating pressure
- Hydraulic pump and hoses are rented separately



Make	Model	Capacity	Min Tip Clearance	Max Tip Spread	Overall Length	Matching Hand Pump	Weight	Cat-Class
Enerpac	WR-5	1 ton	0.38"	3.70"	8.78"	P-80	5 lbs.	088-0770
Enerpac	WR-15	.75 ton	1.26"	11.50"	21.65"	P-80	25 lbs.	088-0775

HYDRAULIC FLANGE SPREADERS are ideal for spreading pipe flanges in a wide range of industrial and construction applications.

- FS-Series spreaders feature adjustable jaw widths using a steel pin that is placed through a stud hole in the flange for leverage. Includes a single-acting, spring return cylinder and a 0.13"–1.13" standard wedge
- FSH-14 model features an integrated wedge design that helps prevent flange damage. Includes a safety block and utilizes a single-acting, spring return cylinder
- Flange alignment tool available Enerpac ATM-3 (Cat-Class 088-9035)



Enerpac FS-56



Enerpac FSH-14



Make	Model	Capacity	Max Flange Thickness	Stud Size	Jaw Width Range	Spread Range	Matching Hand Pump	Weight	Cat-Class
Enerpac	FS-56	5 ton	2" x 2.25"	0.75–1.13"	2.75–6.10"	N/A	P-392	26 lbs.	088-9020
Enerpac	FS-109	10 ton	2" x 3.63"	1.25–1.63"	4.10–8.50"	N/A	P-392	40 lbs.	088-9025
Enerpac	FSH-14	14 ton	N/A	N/A	N/A	0.24–3.16"	P-392	16 lbs.	088-9030

PETOL™ POP-IT™ FLANGE SPREADER & PRYING TOOLS are available in two sizes which are extremely easy to use, durable, and capable of delivering an incredible amount of force. Simply insert the toes and turn the ratchet handle. This unique and versatile product is rapidly gaining popularity in a wide range of industries including petrochemical, refining, pipeline, power generating, as well as emergency rescue.

Model	Min Spread	Max Spread	Capacity	Weight	Cat-Class
P95-525	1/16"	5-1/4"	10,000 lbs.	11 lbs.	088-9040
PHD0535	1/2"	5-1/2"	30,000 lbs.	33 lbs.	088-9050
PHD0535	3"	8-1/2"	20,000 lbs.	33 lbs.	088-9050



P95-525



PHD0535

HYDRAULIC TOOLS

HYDRAULIC TORQUE WRENCHES, TORQUE WRENCH PUMPS

HYDRAULIC SQUARE DRIVE TORQUE WRENCHES feature lightweight design and high performance. They are utilized to drive both sockets and Allen-keys. All models include a 360° swivel hose coupler, a square drive and a reaction arm.

- Very high torque-to-weight ratio
- High-speed, double-acting operation
- High degree of rotation angle for increased productivity
- Never-jam mechanism
- Optional Allen-key drives available
- Powered by an electric hydraulic pump



360° swivel hose connection allows easy access in all positions.

Make	Model	Drive	Max Torque	Socket Range	Weight	Cat-Class
Enerpac	SQD-25-I	3/4"	1,735 ft. lbs.	11/16"-1-7/8"	6 lbs.	090-0090
Enerpac	SQD-50-I	1"	3,550 ft. lbs.	7/8"-3-7/8"	9 lbs.	090-0100
Enerpac	SQD-100-I	1-1/2"	7,360 ft. lbs.	1-5/8"-4-3/4"	18 lbs.	090-0110
Hytorc	HY-1MXT	3/4" square	1,390 ft. lbs.	1-1/4"-2-3/16"	4.45 lbs	090-0601
Hytorc	EDGE-2	3/4" square	1,244 ft. lbs.	1-1/4"-2-3/16"	4.45 lbs	090-0601
Hytorc	HY-3MXT	1" square	3,280 ft. lbs.	1-13/16"-2-15/16"	9.95 lbs	090-0602
Hytorc	EDGE-4	1" square	3,067 ft. lbs.	1-13/16"-2-15/16"	9.90 lbs	090-0602
Hytorc	EDGE-8	1-1/2" square	8,518 ft. lbs.	2-3/16"-3-7/8"	22.55 lbs	090-0603
Hytorc	HY-10MXT	1-1/2" square	11,520 ft. lbs.	2-9/16"-4-5/8"	29.50 lbs	090-0604



Select the Right Torque

Use the "untightening rule of thumb": Loosening torque equals about 250% of tightening torque.



Use the Right Sockets

Use only heavy-duty impact sockets for power driven torquing equipment, according to ISO 2725 and ISO 1174; DIN 3129 and DIN 3121; or ASME-B107.2/1995.

ELECTRIC TORQUE WRENCH PUMPS are ideal companions for SQD-Series and HXD-Series hydraulic torque wrenches. They feature a powerful two-speed pump that is both lightweight and easy to carry. Includes remote control pendant. 115V operation. Unit weighs 53 lbs. Enerpac PMU-10427 (Cat-Class 090-0005). Hytorc JetPro HY-115 (Cat-Class 090-0010).

- Heat exchanger keeps pump cool under extreme usage
- Glycerine-filled pressure gauge with transparent overlays for quick torque reference on Enerpac hydraulic torque wrenches
- Adjustable pressure relief valve for accurate torque adjustments and precise repeatability



Hytorc JetPro HY-115
Torque Wrench Pump



Enerpac PMU-10427
Torque Wrench Pump

Make	Model	Max Torque	Socket Range	Weight	Cat-Class
Hytorc	HY-115	20,000	3/4"-2-1/2"	60 lbs.	090-0005
Hytorc	JetPro-115	10,000	3/4"-1-1/2"	45 lbs.	090-0600
Hytorc	JetPro-S-115	10,000	3/4"-1-1/2"	45 lbs.	090-0600

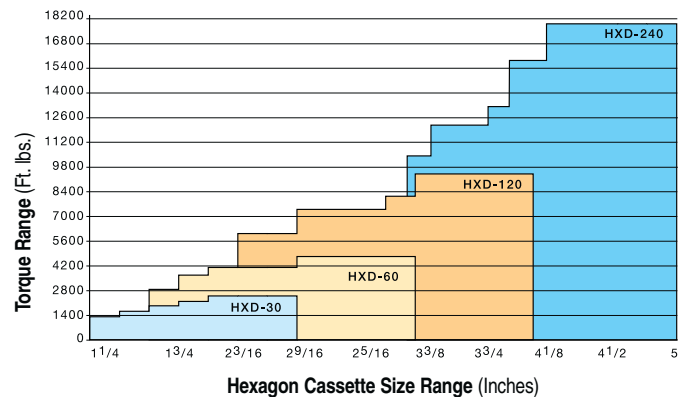
HYDRAULIC TOOLS

HYDRAULIC TOOLS

HYDRAULIC TORQUE WRENCHES

HEXAGON CASSETTE TORQUE WRENCHES feature a slim nose radius and flat design for easy access in all positions. They utilize snap-in, interchangeable cassettes that require no tools. Four sizes of torque wrenches are available, plus several sizes of imperial cassettes and reducer inserts.

- High torque-to-weight ratio
- High-speed operation with high degree of rotation angle
- 360° swivel base connection aids use in confined spaces
- High repeatability, with ± 3% accuracy
- Strong unibody design with integrated reaction arm and few moving parts
- Powered by an electric hydraulic pump
- Wide selection of imperial cassettes and reducer inserts



Enerpac HXD-Series Interchangeable Cassette Selection



Cassette w/Reducer Insert & Holding Ring



Twin Safety Hoses



Cassette w/Drive Unit



Enerpac HXD-30 Hydraulic Torque Wrench
Working in a turbine application—the slim nose and swivel couplers allow easy access in all positions

Imperial Cassette Specifications

Make	Model	Matching Driver	Hex Size (Basic)	Hex Sizes (w/Reducers)	Max Torque	Nose Radius	Weight	Cat-Class
Enerpac	CC-3125	HXD-30	1-1/4"	N/A	1,250 ft. lbs.	1.12"	1.2 lbs.	090-0210
Enerpac	CC-3181	HXD-30	1-13/16"	1-5/8"/1-7/16"	2,130 ft. lbs.	1.52"	1.8 lbs.	090-0215
Enerpac	CC-3238	HXD-30	2-3/8"	2-3/16"/2"	2,425 ft. lbs.	1.87"	2.3 lbs.	090-0220
Enerpac	CC-6181	HXD-60	1-13/16"	1-5/8"	3,540 ft. lbs.	1.56"	2.9 lbs.	090-0311
Enerpac	CC-12256	HXD-120	2-9/16"	2-3/8"/2-3/16"	7,225 ft. lbs.	2.07"	6.1 lbs.	090-0412
Enerpac	CC-12300	HXD-120	3"	2-3/4"/2-9/16"	7,225 ft. lbs.	2.26"	6.3 lbs.	090-0415
Enerpac	CC-12375	HXD-120	3-3/4"	3-1/2"/3-3/8"	9,220 ft. lbs.	2.78"	8.2 lbs.	090-0419
Enerpac	CC-12388	HXD-120	3-7/8"	3-1/2"/3-3/8"	9,220 ft. lbs.	2.89"	8.3 lbs.	090-0420
Enerpac	CC-24313	HXD-240	3-1/8"	2-15/16"/2-3/4"	17,860 ft. lbs.	3.30"	11.2 lbs.	090-0410
Enerpac	CC-24425	HXD-240	4-1/4"	3-7/8"/3-3/4"	17,860 ft. lbs.	3.30"	14.9 lbs.	090-0516
Enerpac	CC-24500	HXD-240	5"	4-5/8"/4-1/4"	17,860 ft. lbs.	3.78"	16.3 lbs.	090-0518

HYDRAULIC TOOLS

HYDRAULIC TORQUE WRENCHES, PNEUMATIC TORQUE WRENCHES

HEXAGON CASSETTE TORQUE WRENCHES

feature a slim nose radius and flat design for easy access in all positions.



Hytorc-XLCT 3,855 ft. lbs. Max Torque



Hytorc-XLCT 3,855 ft. lbs. Max Torque

Torque Wrench Driver Specifications

Make	Model	Max Torque (@ 10,000 psi)	Cassette Range	Overall Length	Wrench Thickness	Weight	Cat-Class
Hytorc	4XLCT-200	3,855 ft. lbs.	2"	10.15"	1.63"	5.50 lbs.	090-0200
Hytorc	4XLCT-203	3,855 ft. lbs.	2-3/16"	10.15"	1.63"	6.25 lbs.	090-0200
Hytorc	4XLCT-206	3,855 ft. lbs.	2-3/8"	10.15"	1.63"	6.75 lbs.	090-0200
Hytorc	4XLCT-209	3,855 ft. lbs.	2-9/16"	10.15"	1.63"	7.50 lbs.	090-0200
Hytorc	4XLCT-2012	3,855 ft. lbs.	2-3/4"	10.15"	1.63"	8.25 lbs.	090-0200
Hytorc	4XLCT-2015	3,855 ft. lbs.	2-15-16"	10.15"	1.63"	9.00 lbs.	090-0200
Hytorc	ST-4-206	4,020 ft. lbs.	2-3/8"	9.48"	1.66"	8.75 lbs.	090-0200
Hytorc	HY-4XLT	3,855 ft. lbs.	1"-3-3/4"	10.06"	2.58"	4.25 lbs.	090-0300
Hytorc	ST-4	4,020 ft. lbs.	1"-3-3/4"	6.58"	1.66"	4.50 lbs.	090-0300
Hytorc	ST-8	7,984 ft. lbs.	1-1/4"-4-5/8"	8.00"	2.08"	8.75 lbs.	090-0300
Hytorc	ST-4-113	4,020 ft. lbs.	1-13/16"	9.41"	1.66"	5.00 lbs.	090-0320
Enerpac	HXD-120	9,220 ft. lbs.	2-3/16"-3-7/8"	11.65"	2.56"	16 lbs.	090-0400
Enerpac	HXD-240	17,860 ft. lbs.	3-1/8"-5"	15.12"	3.22"	29 lbs.	090-0500

PNEUMATIC TORQUE WRENCHES are designed to deliver powerful, accurate and safe torque loads for industrial and construction applications.



RAD Torque Systems 10GX
3/4" Square Drive



RAD Torque Systems 25GX
1" Square Drive



RAD Torque Systems 50
1-1/2" Square Drive



RAD Torque Systems 85GX
1-1/2" Square Drive



Make	Model	Drive Size	Torque (low-high)	RPM	Noise Level	Weight	Cat-Class
RAD Torque Systems	350SL	3/4" square/pistol	50-350 ft. lbs.	65 RPM	80 db	6 lbs.	002-0805
RAD Torque Systems	10GX	3/4" square/pistol	200-1,000 ft. lbs.	20 RPM	80 db	8 lbs.	002-0810
RAD Torque Systems	15DX	1" square/pistol	300-1,500 ft. lbs.	10 RPM	80 db	8.6 lbs.	002-0815
RAD Torque Systems	25GX	1" square/pistol	500-2,500 ft. lbs.	9 RPM	80 db	13.5 lbs.	002-0820
RAD Torque Systems	34GX	1" square/pistol	1,000-3,400 ft. lbs.	12 RPM	80 db	20 lbs.	002-0825
RAD Torque Systems	50	1-1/2" square/pistol	1,500-5,000 ft. lbs.	8 RPM	80 db	28 lbs.	002-0830
RAD Torque Systems	60DX	1-1/2" square/pistol	2,000-6,000 ft. lbs.	6.6 RPM	80 db	27.6 lbs.	002-0835
RAD Torque Systems	85GX	1-1/2" square/pistol	3,000-8,500 ft. lbs.	4.5 RPM	80 db	38.5 lbs.	002-0840

HYDRAULIC TOOLS


HYDRAULIC TOOLS

TORQUE WRENCHES, STRIKING WRENCHES & ADAPTERS

HYDRAULIC TOOLS

TORQUE WRENCHES AND MULTIPLIERS feature a slim nose radius and flat design for easy access in all positions. They utilize snap-in, interchangeable cassettes that require no tools. Four sizes of torque wrenches are available, plus several sizes of imperial cassettes and reducer inserts.

 **Wright Tool 6448**
3/4" Drive Torque Wrench

 **Wright Tool 8447**
1" Drive Torque Wrench

 **Wright Tool 9S292**
2200 ft. lb. Multiplier
3.5:1 Torque Ratio



Proto 6212
1200 ft. lb. Multiplier
6:1 Torque Ratio



Proto 6222
2200 ft. lb. Multiplier
13.6:1 Torque Ratio



Make	Model	Max Torque (@ 11,600 psi)	Cassette Range	Overall Length	Wrench Thickness	Weight	Cat-Class
Enerpac	HXD-30	2,425 ft. lbs.	1-1/4"-2-3/8"	7.67"	1.57"	5 lbs.	090-0200
Enerpac	HXD-60	4,565 ft. lbs.	1-5/8"-3-1/8"	9.09"	1.97"	8 lbs.	090-0300
Enerpac	HXD-120	9,220 ft. lbs.	2-3/16"-3-7/8"	11.65"	2.56"	16 lbs.	090-0400
Enerpac	HXD-240	17,860 ft. lbs.	3-1/8"-5"	15.12"	3.22"	29 lbs.	090-0500

STRIKING WRENCHES are available in both flat and offset designs to accommodate a wide range of applications.



IMPACT WRENCH ADAPTERS and accessories for air impact wrenches including male/female, female/female, and male/male adapters; extensions; and universal joints.



JACKS

RAILROAD, SCREW, HYDRAULIC BOTTLE, HYDRAULIC TOE

RAILROAD JACKS are versatile, general-purpose jacks suitable for lifting, lowering, sustaining and leveling heavy loads. They feature a ratchet-action design for safe, efficient operation.

Capacity	Min Height	Max Height	Weight	Cat-Class
5 tons	17"	27"	30 lbs.	044-0110
15 tons	23"	36"	93 lbs.	044-0111



Railroad Jacks

SCREW JACKS feature steel caps with self-leveling floats for use in leveling and supporting applications.

Capacity	Min Height	Max Height	Weight	Cat-Class
10 tons	11"	18"	19 lbs.	044-0108
12 tons	12"	18"	12 lbs.	044-0108
20 tons	16"	25"	24 lbs.	044-0108



Screw Jacks

HYDRAULIC BOTTLE JACKS work in upright, angled, or horizontal positions for extra versatility in heavy-duty lifting applications.

Capacity	Min Height	Max Height	Weight	Cat-Class
2 tons	7.13"	13.75"	6 lbs.	044-0320
12 tons	9.38"	18.63"	18 lbs.	044-0340
20 tons	9.50"	18.63"	27 lbs.	044-0350
30 tons	11.22"	18.11"	55 lbs.	044-0355
60 tons	12.00"	18.63"	75 lbs.	044-0360



Hydraulic Bottle Jacks

HYDRAULIC TOE JACKS allow lifting heavy equipment with minimum available clearance as low as 0.79".

- Enerpac models feature 3-position lifting points and include two extendable support feet for added stability. Jacks are powered by an external hydraulic pump for added safety
- Hilman models feature a built-in hand pump and two lifting points, at the lifting toe and the top of the jack. The base, toe and pump assembly all swivel independently, ideal for working in confined spaces



Hilman Toe Jack
Includes a built-in hand pump



Enerpac Toe Jack
Requires an external hydraulic pump

Make	Model	Capacity	Retracted Toe Clearance			Max Lift Height	Weight	Cat-Class
			Min	Mid	Max			
Hilman	HTJ-5	5 ton	1.06"	N/A	14.63"	10.25"	49 lbs.	044-0400
Enerpac	SOH-10-6	8.5 ton	0.79"	3.74"	6.69"	5.39"	59 lbs.	044-0410
Hilman	HTJ-10	10 ton	1.06"	N/A	16.50"	10.25"	69 lbs.	044-0410
Enerpac	SOH-23-6	20 ton	1.18"	4.33"	7.48"	6.18"	99 lbs.	044-0420
Hilman	HTJ-25	25 ton	2.38"	N/A	19.88"	11.50"	208 lbs.	044-0420

JACKS

LIGHTING EQUIPMENT

PORTABLE LIGHT STANDS, TOWABLE LIGHT TOWERS

PORTABLE LIGHT STANDS provide lighting solutions for a wide range of applications. Several sizes of light stands are offered, plus wobble lights, balloon lights and a 2-wheel light cart that accommodates a small gas generator. All models feature 120V operation.



Wobble Light 400MH
400 watts



CEP 5710
1,000 watt Light Stand



CEP 5322
2,000 watt Light Cart
Accommodates a gas generator



Multiquip GB114BW
1,000 watt Balloon Light
Provides 360° glare-free lighting

Make	Model	Type	Watts	Bulbs	Max Height	Weight	Cat-Class
Wobble Light	400MH	Wobble Light	400	1	3'	28 lbs.	012-0210
Amida	OSL-37-1TH	Light Stand	500	1	3'	19 lbs.	012-0310
CEP	5710	Tripod Light	1,000	2	7'	25 lbs.	012-0320
Power Temp	LSA5002Q	Light Stand	1,000	2	8'	63 lbs.	012-0320
Multiquip	GB114BW	Balloon Light	1,000	1	13'	139 lbs.	012-0325
Multiquip	GBW	Balloon Light	1,000	1	13'	56 lbs.	012-0325
Amida	OTPG 4TH	Tripod Light	2,000	2	12'	74 lbs.	012-0330
CEP	5322*	2-wheel Light Cart	2,000	2	12'	196 lbs.	012-0340

*Light cart model accommodates a small gas generator.

TOWABLE LIGHT TOWERS are ideal for wide area outdoor lighting in construction, commercial and special event applications. The masts rotate 360° and fold to horizontal when retracted for transport and storage. Includes outriggers, jack stand and a towing package.

- 30' extended height with four 1,000 watt fixtures and metal halide bulbs
- Illuminate up to 7-1/2 acres (7 football fields)
- Powered by Kubota diesel engines
- Large fuel tanks allow up to 60 hours of continuous operation without refueling
- Diesel generator with 120V and 240V auxiliary receptacles for powering electric tools and equipment (2,000 watts auxiliary power with light fixtures operating)
- Pallet pockets and a lifting eye



Magnum MLT3060
4,000 watt Towable Light Tower
Horizontal Mast Style in transport position



Wacker LTN6L-VS
4,000 watt Towable Light Tower
Vertical Mast Style in transport position

Make	Model	Mast Style	Max Height	Engine	Fuel Tank	Transport Dimensions	Weight	Cat-Class
Magnum	MLT3060	Horizontal	30'	Kubota 11.7 HP diesel	30 gal.	170"L x 49"W x 68"H	1,870 lbs.	012-0410
Magnum	MLT4060	Horizontal	30'	Kubota 11.7 HP diesel	30 gal.	170"L x 68"W x 70"H	1,695 lbs.	012-0410
Terex	RL4000	Horizontal	30'	Kubota 13.6 HP diesel	30 gal.	171"L x 54"W x 70"H	1,760 lbs.	012-0410
Terex	RL4	Horizontal	30'	Kubota 10.8 HP diesel	30 gal.	170"L x 54"W x 60"H	1,965 lbs.	012-0410
Magnum	MLT3060	Vertical	23'	Kubota 13.6 HP diesel	30 gal.	117"L x 58"W x 111"H	1,923 lbs.	012-0410
Magnum	MLT6S	Vertical	23'	Kubota 12.2 HP diesel	43.5 gal.	118"L x 57"W x 101"H	1,653 lbs.	012-0405
Wacker	LTN6L-VS	Vertical	28'	Kubota 13.1 HP diesel	32.5 gal.	130"L x 48"W x 91"H	1,982 lbs.	012-0405

LIGHTING EQUIPMENT

HAZARDOUS LOCATION BASICS

GLOSSARY

Confined Space Entry—a permit required confined space is defined as a confined space with one or more of the following conditions:

- 1) Contains or has a known potential to contain a hazardous atmosphere.
- 2) Contains material with the potential for engulfment.
- 3) Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls, or a floor that slopes and tapers to a smaller cross section.
- 4) Contains any other recognized serious safety or health hazard.

Examples include tunnels, tanks, vessels, silos, pipelines, utility vaults, railcar tanks and grain elevators.

Explosion-Proof—electrical equipment such as ventilation and lighting equipment that is specially designed to prevent arcs and sparking, making them suitable for operation in hazardous atmospheres.

Hazardous Atmospheres—atmospheres in which flammable gases are present and/or have the potential to be in the explosive range. Environments containing flammable gases, dusts, or ignitable fibers are all potential flammable hazards.

Hazardous Locations—areas where a potential for explosion and fire exist because of a hazardous atmosphere, requiring the use of explosion-proof lighting and ventilation equipment. The National Electric Code classifies hazardous locations according to the type of atmospheric hazards present, which is useful for rating lighting and ventilation equipment that is operated in hazardous locations.

Ignition Source—the energy required to touch off an explosion in a hazardous location atmosphere. The normal operation of switches, circuit breakers, motor starters, contactors, plugs and receptacles release this energy in the form of arcs and sparks as contacts open and close.

Wet Locations Hazard—the presence of moisture in a confined space, which presents the opportunity for an electrocution hazard for workers. Examples include working inside drums, tanks and vessels. OSHA regulations require the use of low voltage (12-volt maximum) lighting or GFCI protection in wet locations to protect workers from electrocution hazards.

HAZARDOUS LOCATION CLASSIFICATIONS

The National Electric Code classifies hazardous locations according to the type of atmospheric hazards present, which is useful for rating lighting and ventilation equipment utilized in hazardous locations. The summaries below are based on condensed interpretations from the National Electric Code—you should consult local authorities for detailed interpretations.

Class I Locations

Class I Locations are those in which flammable gases or vapors are or may be present in the air in sufficient quantities to produce explosive or ignitable mixtures.

Class I, Division 1:

These are Class I locations where the hazardous atmosphere is expected to be present during normal operations. It may be present continuously, intermittently, periodically, or during normal repair or maintenance operations. Division 1 locations are also those locations where a breakdown in the operation of processing equipment results in the release of hazardous vapors and the simultaneous failure of electrical components.

Combustible and flammable gases and vapors are divided into four groups (**A, B, C, & D**) classified according to the pressure they create during an explosion. Group A gases create the highest pressure during an explosion, with Groups B, C and D creating less pressure respectively.

Class I, Division 2

These are Class I locations in which volatile flammable liquids or gases are handled, processed, or used, but in which they will normally be confined within closed containers or closed systems from which they can escape only in the case of accidental rupture or breakdown of the containers or systems. The hazardous conditions will occur only under abnormal conditions.

Class II Locations

Class II Locations are those that are hazardous because of the presence of combustible dust.

Class II, Division 1

These are Class II locations where combustible dust may be in suspension in the air under normal conditions in sufficient quantities to produce explosive or ignitable mixtures. This may occur con-

tinuously, intermittently, or periodically. Division 1 locations also exist where failure or malfunction of machinery or equipment might cause a hazardous location to exist while providing a source of ignition with the simultaneous failure of electrical equipment. Included also are locations in which combustible dust of an electrically conductive nature may be present.

Combustible dusts are divided into three groups (**E, F, & G**) according to their electrical conductivity, ignition temperature and effects on equipment caused by dust buildup, such as overheating:

Group E atmospheres contain metal dust, including aluminum and magnesium; their commercial alloys; and other metals with similar hazardous characteristics and resistivity less than 102 ohm-cm.

Group F atmospheres contain combustible carbonaceous dusts, or other atmospheres containing these dusts sensitized by other hazardous materials, having resistivity from 102 through 108 ohm-cm.

Group G atmospheres contain combustible dusts having resistivity of 108 ohm-cm or greater.

Class II, Division 2

A Class II, Division 2 location is one in which combustible dust will not normally be in suspension in the air and normal operations will not put dust in suspension, but where accumulation of the dust may interfere with the safe dissipation of heat from electrical equipment or where accumulation near electrical equipment may be ignited by arcs, sparks, or burning material from the equipment.

Class III Locations

Class III Locations are those that are hazardous because of the presence of easily ignitable fibers or flyings, but in which the fibers or flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.

Class III, Division 1

These are locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured, or used.

Class III, Division 2

These locations are where easily ignitable fibers are stored or handled.

LIGHTING EQUIPMENT

HAZARDOUS LOCATION LIGHTING

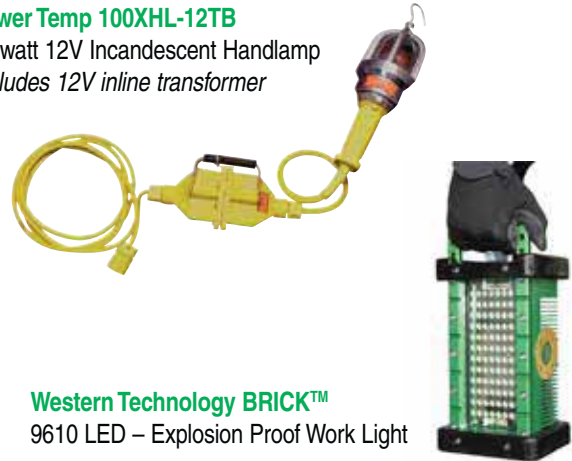
EXPLOSION-PROOF HANDLAMPS provide safety illumination for workers in hazardous atmospheres. Both single handlamps and 8-unit stringlight sets are available. Both types feature 12V operation, which is required when working in wet locations such as drums, tanks and vessels.

- 75 watt handlamp includes a 10' primary cord, an inline 12V transformer and a 50' secondary cord
- Stringlights include eight 50 watt 12V handlamps in one assembly with 3' drops, 10' spacing and a 150' overall cord length. Includes a 12V power supply



Power Temp SLXHL-8 12V Stringlights
8-Unit Set: Includes model TLV-SLXP 12V power supply

Power Temp 100XHL-12TB
75 watt 12V Incandescent Handlamp
Includes 12V inline transformer



Western Technology BRICK™
9610 LED – Explosion Proof Work Light

Make	Model	Bulb Type	Voltage	Watts	Bulbs	Cord Length	Hazardous Location Classifications*	Weight	Cat-Class
Power Temp	100XHL-12TB	Incandescent	12V	75	1	50'	Class I, Div. 1	22 lbs.	012-0530
Chambers	1635-12B	Incandescent	12V	100	1	50'	Class I, Div.1 Grp C&D; Class 2 Grp E, F, G	—	012-0530
Western Technology	BRICK™	LED	12V	60	—	—	Class I, Div.1 Grp C&D; Class 2 Grp E, F, G	10 lbs.	012-0560
Power Temp	SLXHL-8	Incandescent	12V [†]	400	8	150'	Class I, Div. 1	48 lbs.	012-0570
Chambers	SL-8EXP	Incandescent	12V [†]	50	8	150'	Class I, Div. 1	—	012-0570

*See previous page for detailed explanations of hazardous location classifications.

[†]Stringlights Low Voltage 120V to 12V Transformer (Part#E32-8SL not included)

EXPLOSION-PROOF FLOODLIGHTS provide wide area illumination in industrial locations where hazardous atmospheres may be present. Two styles of explosion-proof floodlights are available.

- Power Temp model features 360° vertical rotation and includes a 2-wheel cart for portability and a 250' power cord with hazardous location plug
- Western Technology model features a swivel base with 135° vertical rotation and include a large handle for aiming and a 100' power cord with hazardous location plug



Power Temp LSB4001M
400 watt Floodlight




Western Technology 7100
300 watt Floodlight

Make	Model	Bulb Type	Voltage	Watts	Hazardous Location Classifications*	Weight	Cat-Class
Western Technology	7100	BR40	110V	300	Class I, Div. 1, Groups D & G; Class II, Div. 1, Groups F & G; Class III	23 lbs.	012-0610
Chambers	FS1570MH-120V	Metal Halide	120V	70	Class I, Div. 1, Groups C & D; Class II, Div. 1, Groups F & G	—	012-0610
Chambers	PS400MH-C-UL-18	Metal Halide	120V	400	Class I, Div. 1, Groups C & D	—	012-0620
Power Temp	LSB4001M	Metal Halide	120V	400	Class I, Div. 1	65 lbs.	012-0620

*See previous page for detailed explanations of hazardous location classifications.

MATERIAL HANDLING EQUIPMENT

PORTABLE INDUSTRIAL CRANES, CARRY DECK CRANES

PORTABLE INDUSTRIAL CRANES feature 48V self-propelled operation. Narrow 37" width and short 6' 7" turning radius allow traveling through narrow corridors and doorways. Low 5' 6" retracted height helps clear overhead obstructions. Units include an onboard battery charger and weigh 4,800 lbs. Valla 25E, (Cat-Class 060-0110) 
 Valla 25E-WINCH—Includes a hydraulic winch and remote control (Cat-Class 060-0115)



Valla 25E Portable Industrial Crane

Hydraulic Winch

- 5,500 lbs. max lifting capacity (pick-and-carry)
- 8' 6" horizontal reach and up to 14' lifting height

CARRY DECK CRANES are ideal for lifting applications requiring a compact, low-profile crane that will clear overhead obstructions and maneuver in tight spaces. Applications include industrial and manufacturing plants, equipment maintenance and repair, industrial and mechanical contractors and general construction.



 Broderson IC-20

- Compact, low-profile design clears overhead obstructions and maneuvers in tight spaces
- Effective lift capacities, both stationary (on outriggers) and pick & carry (on tires)
- Large, self-loading cargo decks are ideal for transporting heavy objects on the job
- Diesel and dual fuel (gas/propane) power options



Broderson IC-200 15-ton Carry Deck Crane



Shuttlelift 5540 15-ton Carry Deck Crane

Make	Model	Capacity* (Outriggers)	Capacity* (Pick/Carry)	Capacity* (Deck)	Sheave Height**	Horizontal Reach**	Overall Ht / Width	Power Source	Weight	Cat-Class
Broderson	IC-20	5,000 lbs.	2,500 lbs.	5,000 lbs.	21'15"	22'	7'-6"/4'	65 HP Dual Fuel	6,380 lbs.	060-0205
Broderson	IC-35	8,000 lbs.	6,700 lbs.	6,000 lbs.	26'/33"	27'	6'-6"/5'	65 HP Dual Fuel	7,860 lbs.	060-0210
Broderson	IC-80-3F DF	18,000 lbs.	11,400 lbs.	14,000 lbs.	37'/47"	30'/40'	87"/78"	66 HP Dual Fuel	15,800 lbs.	060-0310
Shuttlelift	3339 DF	18,000 lbs.	11,500 lbs.	14,000 lbs.	38'/55"	31'/48'	87"/77"	70 HP Dual Fuel	15,800 lbs.	060-0310
Shuttlelift	3340 DF	18,000 lbs.	11,500 lbs.	14,000 lbs.	38'/55"	31'/48'	87"/79"	70 HP Dual Fuel	16,600 lbs.	060-0310
Broderson	IC-80-3F D	18,000 lbs.	11,400 lbs.	14,000 lbs.	37'/47"	30'/40'	87"/78"	74 HP Diesel	15,800 lbs.	060-0320
Shuttlelift	3339 D	18,000 lbs.	11,500 lbs.	14,000 lbs.	38'/55"	31'/48'	87"/77"	99 HP Diesel	15,800 lbs.	060-0320
Shuttlelift	3340 D	18,000 lbs.	11,500 lbs.	14,000 lbs.	38'/55"	31'/48'	87"/79"	80 HP Diesel	16,600 lbs.	060-0320
Broderson	IC-200-2C DF	30,000 lbs.	16,200 lbs.	17,000 lbs.	45'/60"	36'/51'	95"/96"	110 HP Dual Fuel	27,640 lbs.	060-0410
Shuttlelift	5540 DF	30,000 lbs.	16,000 lbs.	20,000 lbs.	47'/61"	37'/51'	93"/94"	100 HP Dual Fuel	26,500 lbs.	060-0410
Broderson	IC-200-2C D	30,000 lbs.	16,200 lbs.	17,000 lbs.	45'/60"	36'/51'	95"/96"	110 HP Diesel	27,640 lbs.	060-0420
Shuttlelift	5540 D	30,000 lbs.	16,000 lbs.	20,000 lbs.	27'/61"	37'/51'	96"/94"	80 HP Diesel	26,500 lbs.	060-0420
Shuttlelift	5560RT 4WD DF	36,000 lbs.	16,000 lbs.	20,000 lbs.	61'/76"	51'/66'	93"/94"	100 HP Dual Fuel	30,700 lbs.	060-0430
Shuttlelift	5560RT 4WD D	36,000 lbs.	16,000 lbs.	20,000 lbs.	61'/76"	51'/66'	93"/94"	110 HP Diesel	30,700 lbs.	060-0440

*Capacity ratings shown reflect crane operation under optimum conditions with retracted boom at minimum radius.

Consult the capacity and range chart with the crane to determine the capacity for specific lifting applications.


**Sheave heights and horizontal reach shown reflect main boom/boom plus extension or jib.

MATERIAL HANDLING EQUIPMENT

MATERIAL HANDLING EQUIPMENT

FORKLIFTS—INDUSTRIAL WAREHOUSE

INDUSTRIAL WAREHOUSE FORKLIFTS are ideal for unloading palletized and crated material from trucks for warehouse, convention services and industrial applications.

- Dual fuel (gas and propane), diesel and electric power options available
- All models include 48" length forks—longer forks are available
- Some 5,000 lb. models are available with digital scales
- Non-marking, pneumatic tires available on some models
- 170" Low mast models are ideal for working inside parking decks 



Mitsubishi FG25NGLP
5,000 lb. Industrial Warehouse Forklift

Make	Model	Max Lift Capacity	Max Lift Height	Mast Stages	Dimensions (w/mast lowered)*			Power Source	Weight	Cat-Class
					Length	Width	Height			
Komatsu	FG15HT	3,000 lb.	170"	3	88"	42"	80"	49 HP dual fuel	6,430 lbs.	055-0110
Mitsubishi	FG18NGLP	3,000 lb.	188"	3	89"	42"	85"	55 HP dual fuel	6,000 lbs.	055-0110
Mitsubishi	FBC25N-AC	5,000 lb.	188"	3	78"	37"	83"	36V electric	10,000 lbs.	055-0210
Yale	ERCO50VG	5,000 lb.	194"	3	84"	42"	88.5"	36 Velectric	9,870 lbs.	055-0210
Komatsu	FG25T	5,000 lb.	188"	3	102"	45"	86"	49 HP dual fuel	8,520 lbs.	055-0220
Komatsu	FG25T LOWMAST	5,000 lb.	170"	3	102"	45"	80"	49 HP dual fuel	8,520 lbs.	055-0220
Mitsubishi	FG25NGLP	5,000 lb.	188"	3	100"	46"	85"	55 HP dual fuel	7,900 lbs.	055-0220
Mitsubishi	FG25NGLP LOWMAST	5,000 lb.	170"	3	100"	46"	79"	55 HP dual fuel	7,800 lbs.	055-0220
Yale	GTPO50LX	5,000 lb.	187"	3	98"	46"	37"	62 HP dual fuel	7,760 lbs.	055-0220
Yale	GTPO50 LOWMAST	5,000 lb.	158"	3	98"	46"	79"	62 HP dual fuel	7,760 lbs.	055-0235
Yale	GTPO60VX	6,000 lb.	240"	4	103"	46"	91"	59 HP dual fuel	11,480 lbs.	055-0310
Komatsu	FG30HT	6,000 lb.	183"	3	106"	49"	86"	60 HP dual fuel	9,900 lbs.	055-0310
Mitsubishi	FG30NGLP QUAD	6,000 lb.	240"	4	107"	50"	85"	63 HP dual fuel	10,750 lbs.	055-0310
Mitsubishi	FG30NGLP	6,000 lb.	186"	3	107"	50"	86"	63 HP dual fuel	10,000 lbs.	055-0310
Komatsu	FG30HT QUAD	6,000 lb.	241"	4	106"	49"	86"	60 HP dual fuel	10,903 lbs.	055-0320
Komatsu	FG40ZT	8,000 lb.	185"	3	117"	53"	93"	88 HP dual fuel	13,180 lbs.	055-0410
Mitsubishi	FG40KGLP	8,000 lb.	187"	3	121"	56"	90"	97 HP dual fuel	13,000 lbs.	055-0410
Yale	GTPO80VX	8,000 lb.	185"	3	116"	55"	90"	69 HP dual fuel	13,644 lbs.	055-0410
Komatsu	FG45T	10,000 lb.	185"	3	124"	57"	93"	88 HP dual fuel	15,270 lbs.	055-0610
Mitsubishi	FD45KD	10,000 lb.	188"	3	125"	58"	95"	84 HP diesel	15,300 lbs.	055-0610
Mitsubishi	FG45KGLP	10,000 lb.	188"	3	125"	58"	95"	97 HP dual fuel	15,300 lbs.	055-0610
Yale	GT155VX	15,500 lb.	185"	3	144"	82"	102"	96 HP dual fuel	21,162 lbs.	055-0710
Mitsubishi	FD70D	15,000 lb.	148"	2	143"	86"	120"	94 HP diesel	20,700 lbs.	055-0720
Yale	GDP250DC	25,000 lb.	148"	2	178"	96"	143"	164 HP diesel	33,801 lbs.	055-0810
Yale	GDP360EC	36,000 lb.	147"	2	196"	102"	144"	168 HP diesel	42,647 lbs.	055-0835

*The dimensions listed above are approximate—always measure individual units for actual dimensions.

FORKLIFT ATTACHMENTS provide extra versatility for both straight mast and shooting boom forklifts in a variety of material handling applications. Several types of attachments including self-dumping hoppers, loading platforms, truss booms and material buckets are available.

Star Industries Self-Dumping Hoppers



Make	Model	Type	Capacity	Weight	Cat-Class
Star Industries	1397	Load-N-Tow Platform	42" x 48" deck	305 lbs.	044-0180
Star Industries	1425	Trash Hopper	2.7 cu. yds./5,000 lbs.	840 lbs.	044-0180
Star Industries	1815	Self-Dumping Hopper	1.5 cu. yds./6,000 lbs.	755 lbs.	044-0180
Star Industries	1825	Self-Dumping Hopper	2.5 cu. yds./6,000 lbs.	955 lbs.	044-0180
Star Industries	1400	60" Material Bucket	1.0 cu. yds.	435 lbs.	156-0102
Star Industries	1360	12' Truss Boom	6,000 lbs.	575 lbs.	156-0112

HEAVY DUTY TRASH SKIP with large lifting eyes has plenty of capacity to handle most any kind of trash or bulk material. Constructed of heavy steel and reinforced at all stress points to ensure long useful life. Designed to be hoisted with a set of 10 ft. or longer cable or strap slings. The sloped end makes it safe and easy to discharge the load. 2.9 cu yd. 10,000 lbs. Capacity. 3'D x 4'W x 8'L with lifting eyes Empty weight 1,262 lbs. Model 1449B (Cat-Class 044-0122)



Star Industries Crane Trash Skip

MATERIAL HANDLING EQUIPMENT

ROLLER SKID SYSTEMS, WAGON

SANDUSKY CRATE WAGON

Industrial strength steel construction with 1,400 lb. load capacity. Fold down sides for easy loading and unloading.

60" x 31" x 25"

(Cat-Class 150-1074)

- Large D-handle for easy grip
- Heavy-duty 4 x 13 in. pneumatic tires for easy rolling over any surface



PIPE RIGGING ROLLERS

The unique clamping system fastens the roller to an I-beam from both sides of the flange. This option is great for installing and fabricating pipe in piperacks or other tight and enclosed areas. Also, the roller mechanism can be attached to a stand better suited for pipeline work and/or directional drilling.

16.5"L x 20.5"W x 6-8"H1-H2*

(Cat-Class 074-1424)



Make	Model	Pipe Capacity	Weight Capacity	Weight	Cat-Class
B&B	2110	4-20 inch	2,500 lbs	45 lbs.	044-0060

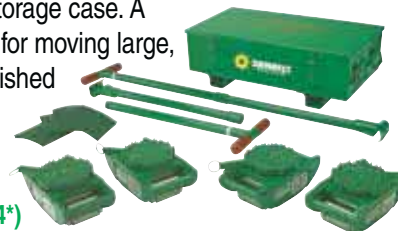
* H1 = height to lowest part of V. H2 = height to top of roller

HILMAN KTG-12 TRI-GLIDE is a versatile, 3-point moving system designed to move large, heavy equipment over finished floors. It features a 12-ton capacity and a height of only 4". A steerable front unit attaches to a pair of rigid rear units using steel connecting bars. Width is adjustable from 24" to 60" wide. An integral tow eye allows attachment to a forklift. Unit weighs 213 lbs. (Cat-Class 044-0062)



Hilman KTG-12 Tri-Glide 3-point Rigger Set

ROLLER SKID SYSTEMS are ideal for moving heavy loads on hard, level floor systems without a track. 8-ton, 12-ton, 30-ton and 60-ton sets are available, each including four rollers, steering handles and a storage case. A 12-ton, 3-point rigger set for moving large, heavy equipment over finished floors is also available.



Hilman Roller Kit (Set of 4*)

Make	Model	Type	Capacity*	Weight	Cat-Class
Hilman	KRS-8-2S/2R	4 roller set	8 tons	78 lbs.	044-0060
Hilman	KTG-12 Tri-Glide	3-point rigger set	12 tons	213 lbs.	044-0062
Hilman	KNRS-12-SLP	4 roller set	12 tons	180 lbs.	044-0063
Hilman	KRS-30-SLD	4 roller set	30 tons	213 lbs.	044-0065
Hilman	KRS-60-SLD	4 roller set	60 tons	255 lbs.	044-0070

CRICKET PIPE CARTS are ideal job site material carriers that use leverage to lift and load up to 20' pipe lengths.

Features a 1,000 lb. capacity and includes a ratchet hold-down strap to secure pipe and 16" pneumatic tires. Handle disconnects easily for storage. Unit weighs 70 lbs. Sumner 782699 (Cat-Class 044-0074)

GRASSHOPPER PIPE DOLLIES enable one man to lift and transport pipe, toolboxes and other heavy components.

Maximum capacity is 2,000 lbs. and up to 20" diameter pipe. Features a sliding chain block design that accommodates both long and short loads. Unit weighs 165 lbs. Sumner ST-401 (Cat-Class 044-0091)

ROUST-A-ABOUT PORTABLE LIFTS allow one man to lift and place pipe sections and other heavy objects in tight spaces. They feature a maximum lift capacity of 1,500 lbs. utilizing separate winches for lifting the load and extending the mast.

Large 8" casters provide excellent mobility when moving heavy loads. Knock-down design aids transport and storage. (Cat-Class 044-0090)

Sumner R-100—15' lifting height, 32" x 40" base, 311 lbs. net wt.

Sumner R-150—15' lifting height, 40" x 40" base, 311 lbs. net wt.

Sumner R-250—25' lifting height, 60" x 60" base, 381 lbs. net wt.



Cricket Pipe Cart



Grasshopper Pipe Dolly



Roust-A-Bout Portable Lift

MECHANICAL & ELECTRICAL TRADE TOOLS

ELECTRIC PIPE THREADERS, GEARED THREADER ADAPTERS

ELECTRIC PIPE THREADERS are offered in several configurations to match a wide range of threading applications. Hand-held, compact mounted and heavy-duty models are available, all featuring 115V operation.

Note: Please indicate the pipe diameter to be threaded at the time of your your order. Threading dies are sold separately.

- Hand-held threaders combine the portability of a manual threader with the power of an electric threader. They utilize precision die heads to thread 1/2"-2" steel pipe
- Ridgid 700 also serves as a power drive for Ridgid 258 and 258XL power pipe cutters
- Compact mounted threaders provide high performance on the job or in the shop, threading up to 2" diameter pipe using die heads. All models include an on-board cutter, reamer, oiler and foot switch (may also include a stand)
- Ridgid 1224 heavy-duty model provides unmatched versatility threading larger diameter pipe, up to 4" capacity using universal die heads

GEARED THREADER ADAPTERS

are available to expand the capacity of all models up to 6" diameter:

Ridgid 141, 2-1/2"-4" capacity, unit weighs 93 lbs. (Cat-Class 074-0090)

Ridgid 161, 4"-6" capacity, unit weighs 140 lbs. (Cat-Class 074-0105)

Ridgid 141 Geared Threader Adapter
Expands the capacity and power of threading machines utilizing an adjustable die set and a jaw clutch.



Ridgid 700
Hand-held Threader/Power Drive



Ridgid 300
Compact Mount Threader



Rothenberger SUPERTRONIC 2000
Hand-held Threader



Ridgid 535
Compact Mount Threader



Ridgid 1224
Heavy-duty Threader



Rothenberger SUPERTRONIC 2SE
Compact Mount Threader



Make	Model	Type	Pipe Capacity	Motor	Spindle Speed	Weight	Cat-Class
Ridgid	700	Hand-Held	1/2"-2"	1/2 HP	32 RPM	25 lbs.	074-0015
Rothenberger	SUPERTRONIC 2000	Hand-Held	1/2"-2"	1 HP	15-25 RPM	24 lbs.	074-0015
Ridgid	300	Compact Mount	1/2"-2"	1/2 HP	32 RPM	25 lbs.	074-0075
Rothenberger	SUPERTRONIC 2SE	Compact Mount	1/2"-2"	1 HP	40 RPM	167 lbs.	074-0075
Ridgid	535	Compact Mount	1/2"-2"	2 HP	16/46/58 RPM	250 lbs.	074-0060
Rothenberger	COLLINS 22A	Compact Mount	1/2"-2"	2-3/4 HP	54/72/100 RPM	240 lbs.	074-0060
Ridgid	1822-1	Compact Mount	1/2"-2"	1-1/2 HP	16/45 RPM	255 lbs.	074-0045
Ridgid	1224	Heavy-Duty Mount	1/2"-4"	1-1/2 HP	12/36 RPM	490 lbs.	074-0030

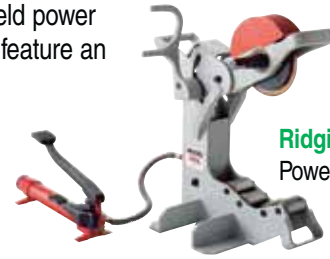
MECHANICAL & ELECTRICAL TRADE TOOLS

ELECTRIC PIPE THREADERS, MANUAL PIPE TOOLS, CHAIN VISES

POWER PIPE CUTTERS are utilized in conjunction with a Model 700 hand-held power drive (see page 36) for fast, clean square cuts on larger pipe and conduit. Both models feature an 8.5" heavy-duty cutter wheel and a foot pump/hydraulic ram to control the rate of cut.



Make	Model	Pipe Capacity	Weight	Cat-Class
Ridgid	258	2-1/2"-8"	176 lbs.	074-0195
Ridgid	258XL	8"-12"	194 lbs.	074-0210



Ridgid 258XL
Power Pipe Cutter



A MANUAL PIPE THREADING SETS enable threading of 1/2"-2" pipe and conduit. Sets include a ratchet handle and pipe die set. Set weighs 35 lbs. Ridgid 12R (Cat-Class 074-0300)

Note: Individual ratchet handles and dies may also be available.

B MANUAL PIPE CUTTERS feature heavy-duty, roller/cutter wheel design for fast, clean cutting by hand or power.

Ridgid 2-A or Rothenberger 70045: cuts 1/8"-2" pipe, weighs approximately 6 lbs. (Cat-Class 074-0240)

Ridgid 4-S or Rothenberger 70060: cuts 2"-4" pipe, weighs approximately 17 lbs. (Cat-Class 074-0255)

Ridgid 6-S: cuts 4"-6" pipe, weighs 22 lbs. (Cat-Class 074-0270)

C SOIL PIPE CUTTERS enable cutting pipe "in the soil." A ratchet-action handle allows operation in tight quarters. 1-1/2"-6" capacity. Unit weighs 25 lbs. Ridgid 246 (Cat-Class 074-0225)

D PIPE WRENCHES are offered in several sizes to match a wide variety of applications. (Cat-Class 150-1165)

Rothenberger 70154: 18" Steel, 2-1/2" capacity, 7 lbs. net wt.

Rothenberger 70156: 36" Steel, 5" capacity, 20 lbs. net wt. Rothenberger 70244: 37" Chain-type, 4" capacity, 12 lbs. net wt.

Rothenberger 70164: 48" Aluminum, 6" capacity, 20 lbs. net wt.

E BOLT CUTTERS feature tool steel center-cut jaws for cutting rebar, medium tensile and soft bolts, rods, rivets, bars and chains. (Cat-Class 150-1160) 24" Length Cutter: 3/8" capacity, 7 lbs. net wt. 42" Length Cutter: 3/4" capacity, 20 lbs. net wt.

F MANUAL OILERS feature a thumb-action pump for efficient lubrication during pipe threading. Includes a 1-gallon tank and runoff pan. Unit weighs 21 lbs. Ridgid 418 (Cat-Class 150-1185)

G PORTABLE CHAIN VISES are ideal for securing 1/8"-6" diameter pipe during fabrication. They feature a collapsible frame and include an integral tray with tool slots. (Cat-Class 074-0120)

Ridgid 460 Tri-Stand: 47 lbs. net wt; Rothenberger 00076 Tri-Stand: 68 lbs. net wt.



A



B



C



D



E



F



G

MECHANICAL & ELECTRICAL TRADE TOOLS

ROLL GROOVERS, HOLE CUTTING TOOLS

ROLL GROOVERS create a cold formed groove in pipe where fittings are attached to form a self-restraining joint. The position, depth and cross-section of this groove combine with the fitting housing in an optimal strength-to-weight relationship. The result is a permanent connection capable of withstanding throughst loads up to the maximum rated operating pressure. Roll grooving is the method of choice for preparing pipe made of standard or lightweight carbon steel, stainless steel, aluminum, PVC, copper and other metals.

- Hand model includes a built-in ratchet drive
- Mechanical and hydraulic models are used in conjunction with a Ridgid 300 power drive (see page 36)
- Self-contained models include an integral 115V motor
- Roll sets are available for steel (Schedule 10 and 40) and copper (Types K, L, M and DWV)



Ridgid 915
Hand-operated



Ridgid 916
Powered by Ridgid 300 Power Drive
Single Stroke Feed Mechanism



Ridgid 918
Powered by Ridgid 300 Power Drive
Features a 15-ton Hydraulic Ram



Victaulic VE416FSD
Self-contained model
with a 115V power unit,
mounting stand and
safety foot switch



Make	Model	Type	Power Source	Capacity-Steel (Schedule 10)	Capacity-Steel (Schedule 40)	Capacity-Copper (Types K, L, M, DWV)	Weight	Cat-Class
Ridgid	915	Hand	Built-in Ratchet	1-1/4"-12"	1-1/4"-6"	2"-8"	23 lbs.	074-0405
Ridgid	916	Mechanical	Ridgid 300	1-1/4"-6"	1-1/4"-3"	2"-6"	33 lbs.	074-0420
Ridgid	918	Hydraulic	Ridgid 300	1"-12"	1"-8"	2"-6"	104 lbs.	074-0435
Victaulic	VE416FSD	Self-Contained	Integral 115V	2"-16"	2"-12"	2"-8"	340 lbs.	074-0465
Victaulic	VE276FSD	Self-Contained	Integral 115V	2"-12"	2"-8"	2"-8"	335 lbs.	074-0480



HOLE CUTTING TOOLS are designed for continuous hole cutting on unpressurized pipe utilizing arbor hole saws. They are ideal for mechanical, industrial and fire protection contractors due to their ability to cut holes in a variety of pipe materials. Features a low-profile design (11-1/2" height), great for low clearance jobs. Unit is powered by a 110 RPM, 1.2 HP, 110/220V, 13-amp motor with GFCI protection and a built-in circuit breaker. Unit weighs 42 lbs. Ridgid HC-450 (Cat-Class 074-0285)

- 1/4"-4-3/4" cutting capacity (dry or oiled)
- Built-in level for multiple hole alignment; dual-side controls provide easy operation
- Heavy-duty chuck accommodates 1/8"-5/8" arbors



Ridgid HC-450
Hole Cutting Tool

MECHANICAL & ELECTRICAL TRADE TOOLS

CONDUIT BENDERS—MECHANICAL, ELECTRIC, HYDRAULIC

MECHANICAL BENDERS feature ratchet action for increased leverage bending IMC and Rigid conduit. All models include a ratchet bypass for faster bending of smaller pipe, a 2-wheel undercarriage and a degree indicator.

ELECTRIC BENDERS provide accurate, repeatable bends on 1/2"–2" diameter conduit. All models feature 120V operation.

- Model 555R includes both Rigid and IMC shoe groups and a heavy-duty 2-wheel cart with foam-filled tires
- Model 854DX features built-in bending shoes. Unit includes a 4-wheel cart and operates in tabletop or upright positions
- Model 855 "Smart Bender" features programmable operation with intelligent pendant controls, digital readout, and programmable bend angles for accurate repeat bends

HYDRAULIC BENDERS are ideal for bending larger conduit up to 6" diameter.

- Model 782 tubing bender is designed for bending up to 2-1/8" diameter brass, copper, steel and aluminum tubing with 1/16" min wall thickness. Includes all standard shoe groups
- Model 884PVC bender is designed for bending PVC coated Rigid conduit. Includes shoes for bending 1-1/4", 1-1/2", 2", 3" and 4" 40 mil PVC coated Rigid conduit
- 120V 10,000 PSI hydraulic pumps for the above benders:
Model 980, 71 lbs. (Cat-Class 074-0795)
Model 960 SAPS, 92 lbs. (Cat-Class 074-0810)
- Model 881CT Cam Track® bender makes 90° one-shot bends on up to 4" conduit. Includes a 120V hydraulic pump
- Model 785G6 bender is ideal for making 90° one-shot bends on 6" Rigid conduit. Includes a 10,000 PSI hydraulic pump for continuous heavy-duty bending. 220V 1-phase operation



Greenlee 881CT
Hydraulic Bender



Greenlee 1800
Mechanical Bender



Greenlee 854DX
Electric Bender



Greenlee 782
Hydraulic Bender



Greenlee 555R
Electric Bender



Greenlee 785G6
Hydraulic Bender



Greenlee 884PVC
Hydraulic Bender



Make	Model	Type	Conduit Capacity	Weight	Cat-Class
Greenlee	1800	Mechanical	1/2", 3/4", 1" IMC and Rigid	81 lbs.	074-0825
Greenlee	1801	Mechanical	1-1/4", 1-1/2" IMC and Rigid	104 lbs.	074-0840
Greenlee	1818	Mechanical	3/4"–2" EMT, 1/2"–1-1/4" IMC, 1/2"–1-1/2" Rigid and aluminum	250 lbs.	074-0855
Greenlee	854DX	Electric	1/2"–2" EMT, IMC and Rigid	510 lbs.	074-0870
Greenlee	855	Electric	1/2"–2" EMT, IMC and Rigid	510 lbs.	074-0870
Greenlee	555R	Electric	1/2"–2" Rigid, 1/2"–1-1/4" IMC	393 lbs.	074-0885
Greenlee	782	Hydraulic	3/4"–2-1/8" Tubing	124 lbs.	074-0930
Greenlee	884PVC	Hydraulic	1-1/4"–4" PVC Coated Rigid	388 lbs.	074-0960
Greenlee	881CT	Hydraulic	2-1/2"–4" EMT, IMC and Rigid	999 lbs.	074-0975
Greenlee	785G6	Hydraulic	6" Rigid (90° one-shot bends)	900 lbs.	074-0990

MECHANICAL & ELECTRICAL TRADE TOOLS

PVC HEATERS, CONDUIT RACKS, FISH SYSTEMS, CABLE PULLERS

ELECTRIC PVC HEATERS are ideal for bending PVC pipe and conduit up to 6" diameter. Easy to use: Preheat for 10 minutes, open lid and position PVC, close lid, rotate until pliable, open lid, remove PVC and form bend. Each model is equipped with sturdy wheels (except model 849) for easy mobility and an on/off switch with indicator light.



Greenlee 851



Greenlee 847



Make	Model	Conduit Capacity	Voltage	Amp Rating	Length	Weight	Cat-Class
Greenlee	849	1/2"-2" PVC	120V	20	26"	15 lbs.	074-0540
Greenlee	851	1/2"-4" PVC	120V	20	52"	53 lbs.	074-0555
Greenlee	847	1/2"-6" PVC	230V	30	71"	78 lbs.	074-0570

MOBILE CONDUIT RACKS provide individual bins for storing and transporting multiple sizes of pipe, tubing and conduit on the job. Racks feature steel construction and folding arms for easy storage. Include heavy-duty 6" casters for job site mobility. Capacity: 1,000 lbs. (Cat-Class 074-0705)

Greenlee 668: 59"L x 34"W x 64"H, 113 lbs. net weight

Sumner Mac Rack: 59"L x 33"W x 62"H, 145 lbs. net weight

Greenlee 668
Mobile Conduit Rack



POWER FISH SYSTEMS are rugged, self-contained electric units that include everything needed to blow or vacuum fish line, poly line, or measuring tape. 120V operation. Unit weighs 50 lbs. Greenlee 690 (Cat-Class 074-0180)

- Handles 1/2"-4" conduit (5"-6" with optional foam pistons)
- Includes 10' hose, 11 gallon tank and storage box
- Doubles as a wet vac for cleaning up water and debris

Note: A manual, 65' steel fish tape is also available. Greenlee 438-5 (Cat-Class 150-1190)

Greenlee 690
Power Fish System



ELECTRIC CABLE PULLERS provide the power and versatility to perform a wide variety of cable pulling applications. Units include a 120V power unit, pipe adapter, mobile extension boom, floor mount and other accessories.

Note: Cable sheaves and rollers are available for use with electric cable pullers.



Current Tools 8890
Cable Puller

Greenlee 6806
Cable Puller



Make	Model	Max Pull	Pull Speed @ Rated Load	Rope Diameter	Weight	Cat-Class
Greenlee	UT2	2,000 lbs.	22.0 FPM	1/2"	67 lbs.	074-0720
Greenlee	6003	6,500 lbs.	6.0 FPM	3/4"	454 lbs.	074-0750
Greenlee	6806	8,000 lbs.	7.5 FPM	7/8"	750 lbs.	074-0765
Current Tools	8890	8,000 lbs.	7.0 FPM	3/4"	745 lbs.	074-0765

MECHANICAL & ELECTRICAL TRADE TOOLS

SHEAVES & ROLLERS, MOBILE STORAGE BOXES

GREENLEE CABLE SHEAVES AND ROLLERS are utilized with electric cable pullers to provide extra versatility in a variety of pulling applications. A wide selection of cable sheaves and rollers are available.

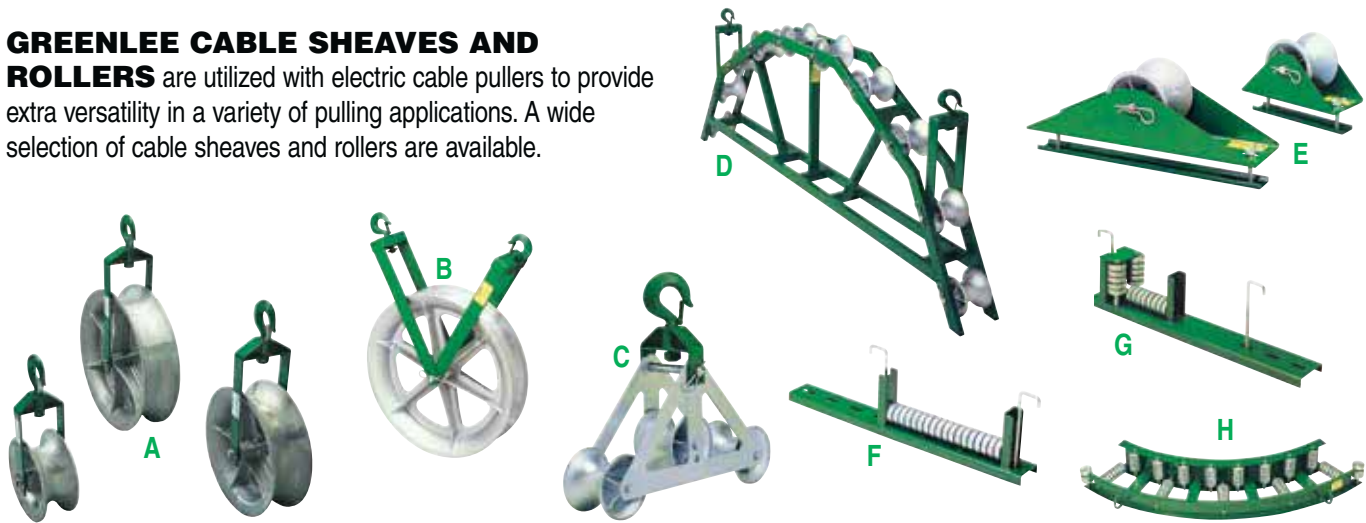


Figure	Model	Drive/Style	Inside Radius	Width	Max. Capacity	Weight	Cat-Class
A	650	Hook Sheave — 6"	1-1/2"	5"	4000 lbs.	9 lbs.	150-1126
A	8012	Hook Sheave — 12"	3-7/8"	5"	8000 lbs.	28 lbs.	150-1127
A	8018	Hook Sheave — 18"	7"	6"	8000 lbs.	44 lbs.	150-1128
A	8024	Hook Sheave — 24"	9-7/8"	6-1/2"	8000 lbs.	67 lbs.	150-1129
B	639	Rt. Angle Twin Yoke Sheave	9-13/16"	5"	4000 lbs.	45 lbs.	150-1131
C	6036	Triple Sheave Cable Guide	Adjustable	5"	6500 lbs.	28 lbs.	150-1134
D	638	Radius Cable Sheave, 8-wheel	36"	5"	4000 lbs.	85 lbs.	150-1141
D	631	Radius Cable Sheave, 10-wheel	48"	5"	4000 lbs.	115 lbs.	150-1143
E	658	Tray-Type Sheave	12" length	5"	4000 lbs.	11 lbs.	150-1147
E	659	Tray-Type Sheave	22" length	5"	4000 lbs.	17 lbs.	150-1148
F	2018S	Straight Cable Roller	12"-18" wide tray	n/a	4000 lbs.	8 lbs.	150-1151
F	2024S	Straight Cable Roller	20"-24" wide tray	n/a	4000 lbs.	10 lbs.	150-1151
F	2030S	Straight Cable Roller	24"-30" wide tray	n/a	4000 lbs.	13 lbs.	150-1151
F	2036S	Straight Cable Roller	30"-36" wide tray	n/a	4000 lbs.	15 lbs.	150-1151
G	2018R	Radius Cable Roller	12"-18" wide tray	n/a	4000 lbs.	11 lbs.	150-1159
G	2024R	Radius Cable Roller	20"-24" wide tray	n/a	4000 lbs.	12 lbs.	150-1159
G	2030R	Radius Cable Roller	24"-30" wide tray	n/a	4000 lbs.	13 lbs.	150-1159
G	2036R	Radius Cable Roller	30"-36" wide tray	n/a	4000 lbs.	14 lbs.	150-1159
H	20249R	Right Angle Roller	24" radius 90°	n/a	4000 lbs.	41 lbs.	150-1167
H	20369R	Right Angle Roller	36" radius 90°	n/a	4000 lbs.	53 lbs.	150-1167

JOB SITE STORAGE BOXES provide security and mobility for valuable tools and supplies both on-site and in the shop. They feature rugged steel construction, built-in skids, and large fold-down recessed handles. Field station serves as the job site office to securely store tools, supplies, documents and more.

Make	Model	Style	Dimensions	Weight	Cat-Class
Greenlee	3048	Rectangular	48"L x 30"W x 30"H	183 lbs.	075-0005
Greenlee	3660	Slant Top	60"L x 30"W x 48"H	282 lbs.	075-0005
Knaack	119	Field Station	60"L x 44"W x 82.25"H	678 lbs.	075-0007

Greenlee 3048

Rectangular Storage Box



Greenlee 3660

Slant-top Storage Box



Knaack 119
Field Station/Print Shack

MECHANICAL & ELECTRICAL TRADE TOOLS

CABLE FEEDERS, REEL ROLLERS, CABLE BENDERS, PUNCH DRIVERS

ELECTRIC CABLE FEEDERS are designed to work with an electric puller, feeding cable at variable speeds to match the speed of the puller. They accommodate cable ranging up to 3.5" diameter and feature dual motors for traction on both sides of the cable. Easy one-person setup and operation. 115V operation. Unit weighs 285 lbs. Greenlee 6810 (Cat-Class 074-0360)

- Two cable loading methods: top-loading and end-loading
- Accommodates up to 3.5" diameter cable
- Variable 4–36 FPM speed operation to match puller
- Maximum tractive force: 200 lbs. (single cable), 800 lbs. (all cables)



Greenlee 6810 Electric Cable Feeder

Greenlee CTF200 (Cat-Class 074-0361)
Weight: Feeder: 57 lbs., Mounting System: 12 lbs.



Greenlee CTF200 Electric Cable Feeder

ELECTRIC CABLE REEL ROLLERS are designed to make cable pay-out and take-up easier when handling large, heavy reels of cable. Unit features a heavy-duty welded frame and self-aligning pillow block bearings for rugged operation. Overall dimensions: 61"L x 122"W x 19"H. 120V operation, 10 amp rating. Unit weighs 2,500 lbs. (Cat-Class 074-0780)

- 30,000 lb. capacity
- Handles up to 96" width, 12' diameter reels
- On/off foot pedal for remote operation
- Speed control for variable cable feeding rates



Cable Reel Roller

HYDRAULIC PUNCH DRIVER SETS enable fast "knockouts" in steel studs and other members up to 10 gauge for running conduit. The driver sets below include drivers, Slug-Buster punches, dies and draw studs, related accessories and a carrying case.

- Right angle driver model rotates over 180° for flexibility in tight work areas.
- Hydraulic ram model with hand pump provides more power and capacity



SlugBuster
Knockout Punch

Greenlee 7906SB
Right Angle Driver

Greenlee 7310SB
Hydraulic Ram

HYDRAULIC CABLE BENDERS provide one-shot bends up to 90° and automatically unloads cable. They utilize a foot pump that keeps both hands free to hold the cable. Unit weighs 36 lbs. Greenlee 800F1725 (Cat-Class 074-1005)

- Capacity: 350–1,000 MCM, 600 volt, 350–750 MCM compact cable
- Compact design allows bending in tight spaces
- Includes foot pump, high pressure hose unit and storage box



Greenlee 800F1725
Hydraulic Cable Bender



Make	Model	Type	Capacity	Max Force	Weight	Cat-Class
Greenlee	7906SB	Right angle hydraulic driver	1/2"–2"	8 tons	14 lbs.	074-0135
Greenlee	7310SB	Hydraulic ram with hand pump	1/2"–4"	11 tons	54 lbs.	074-0150

MECHANICAL & ELECTRICAL TRADE TOOLS

CABLE REEL STANDS, WIRE CARTS, POWER CABLE CUTTERS

CABLE REEL STANDS are ideal for feeding large cable reels during cable installations. Both screw and ratchet-types are available, each featuring roller bearing spindle mounts. Sumner models feature self-lubricating roller bearings. Matching spindles are also available. (see chart below)



Greenlee Cable Reel Stand Set Up
Two stands and one spindle are required

Sumner Spindle
Stands

Sumner Screw-Type Stand

Greenlee Ratchet-Type Stand

Make	Model	Type	Capacity	Work Height	Matching Spindle	Weight	Cat-Class
Greenlee	687	Screw	2,500 lbs.	13"-28"	647	25 lbs.	074-0315
Sumner	65	Screw	2,500 lbs.	16"-27"	61	24 lbs.	074-0315
Greenlee	683	Screw	2,500 lbs.	22"-54"	684	49 lbs.	074-0330
Sumner	75	Screw	2,500 lbs.	24"-53"	71	34 lbs.	074-0330
Greenlee	656	Ratchet	3,750 lbs.	28"-47"	657	94 lbs.	074-0345
Sumner	80	Ratchet	3,750 lbs.	28"-45"	81	99 lbs.	074-0345

Spindles

Make	Model	Diameter	Capacity	Length	Matching Stand	Weight	Cat-Class
Greenlee	647	2-3/8"	5,000 lbs.	62"	687	42 lbs.	150-1120
Sumner	61	2-3/8"	5,000 lbs.	62"	60	39 lbs.	150-1120
Greenlee	684	2-3/8"	5,000 lbs.	76"	683	50 lbs.	150-1120
Sumner	71	2-3/8"	5,000 lbs.	76"	70	47 lbs.	150-1120
Greenlee	657	3-1/2"	7,500 lbs.	100"	656	124 lbs.	150-1120
Sumner	81	3-1/2"	7,500 lbs.	100"	80	119 lbs.	150-1120

WIRE CARTS are ideal for storing and dispensing spools of wire and cable. Carts include ten spindles that accommodate up to 18" diameter spools. They feature all-welded steel construction and a heavy-duty caster base. (Cat-Class 074-0690)

Greenlee 910: 36"L x 32"W x 59"H, 213 lbs. net weight

Sumner Ten Pack Mac: 41"L x 33"W x 57"H, 179 lbs. net weight

- Fits through a 36" doorway
- Spindles are angled and masts rotate 360°



Greenlee 910 Wire Cart

POWER CABLE CUTTERS are ideal for high-speed cutting of aluminum and copper cable. Battery-powered and hydraulic models are available.

- Electric model features automatic ram retraction and a 360° rotating cutting head
- Hydraulic model features an 11-ton hydraulic ram that cuts cable in only 7 seconds. Includes a hand-operated pump



Greenlee ESG50GL11
Electric Cable Cutter



Greenlee 750H67
Hydraulic Cable Cutter

Make	Model	Type	Capacity	Power Source	Weight	Cat-Class
Greenlee	ESG50GL11	Electric	2" diameter aluminum or copper cable	12V rechargeable battery (includes 120V charger)	10 lbs.	074-0660
Greenlee	750H67	Hydraulic	1,000 MCM aluminum or copper cable	Hydraulic hand pump (included)	29 lbs.	074-0675

MECHANICAL & ELECTRICAL TRADE TOOLS

CRIMPING TOOLS, CIRCUIT TRACERS, SIDING BRAKES, PRESS TOOLS



DIELESS CRIMPERS are hand-operated hydraulic tools utilized for crimping cable connectors without dies. They feature automatic force adjustment and a swivel head that rotates 180°. Cable capacity is 4AWG–1,000MCM with a maximum crimping force of 15 tons. Unit weighs 17 lbs. Greenlee 1990 (Cat-Class 074-0600)



Greenlee 1990
Dieless Crimper



ELECTRIC CRIMPING TOOLS provide up to 12 tons of force for crimping industrial, grounding and overhead electrical connectors. Unit is powered by a 18V rechargeable battery and weighs 11 lbs. Greenlee EK06FTL11 (Cat-Class 074-0630)

- Utilizes U-type dies with a 1.65" opening
- Includes 120V charger



Greenlee EK06FTL11
Electric Crimping Tool

CIRCUIT TRACERS are battery-powered, microprocessor-controlled circuit testers that operate without interrupting power. Ideal for tracing concealed wiring, locating junction boxes and breakers, finding breaks in wires and detecting shorts. Unit weighs 4 lbs. Greenlee 2011 (Cat-Class 074-0390)

- Includes transmitter, receiver, leads and carrying case
- 0-600V AC/DC capacity range



Greenlee 2011
Circuit Tracer

CABLE LOCATORS are ideal for detecting buried telephone, power and CATV cables plus gas, sewer and water lines. Systems include a transmitter and receiver, featuring battery-powered operation. Operating modes include active line, passive line, and radio. Ditch Witch 150R/T or 910R, Greenlee Tracker II (Cat-Class 011-0025)



Greenlee Tracker II
Cable Locator



Ditch Witch 150R/T
Cable Locator



HANDHELD PRESS TOOLS are battery-powered fitting presses utilized with copper and brass press-type fittings up to 2" diameter for making pipe and tubing connections on the job. Both models include a 1/2"-2" jaw set and a 115V charger.

- Ridgid model features a 90° swiveling barrel for accessing hard-to-reach areas
- Rothenberger model features 270° head rotation and balanced weight distribution



Rothenberger Pressliner



Ridgid 320-E

Make	Model	Max Force	Power Source	Cycle Time	Weight*	Cat-Class
Ridgid	320-E	7,200 lbs.	14.4V	7 sec.	11 lbs.	074-0650
Rothenberger	Pressliner	7,200 lbs.	12V	8 sec.	15 lbs.	074-0650

*Weights shown reflect tool only, without press jaws.

MECHANICAL & ELECTRICAL TRADE TOOLS

PIPE FREEZERS, VIDEO PIPE INSPECTORS



PIPE FREEZERS allow contractors to keep water systems operating while making repairs. Operates as a mini-refrigeration unit with two aluminum freeze heads that form an ice plug in the pipe in only about five minutes. Accommodates 1/2–2" steel pipe and 1/2–2-1/2" copper tube. 115V operation. Unit weighs 55 lbs. (Cat-Class 074-0525)



Ridgid SF-2500
Pipe Freezer

VIDEO PIPE INSPECTORS are ideal for inline inspection and troubleshooting of 2"–10" diameter lines. Systems include a cable-mounted video camera, inline transmitter, cable reel, push cable and a video monitor/recorder. (Cat-Class 074-0495)

- Miniature cameras maneuver through multiple bends and traps.
- Cameras include LED lighting for proper illumination.
- Dual power modes: 115V AC and 12V DC
- Pipeline locators are available for all models. (Cat-Class 074-0496)



Electric Eel BB1000
Pipeline Locator
For Metallic lines



Electric Eel LF-2000
Pipeline Locator
For Non-metallic lines



General Gen-Eye C-GL-B
Video Pipe Inspector
Shown with digital locator
and optional mini-reel



Make	Model	Line Capacity	Cable Length	Camera Type	Recorder Type	Monitor	Cat-Class
Electric Eel	EC-5	2"–8"	100'	B&W, standard	N/A	5" B&W	074-0495
Electric Eel	EC-10LCD	3"–8"	200'	Color, self-leveling	DVD	10" Color	074-0495
Electric Eel	EC-200-CSL-2	3"–10"	200'	Color, self-leveling	DVD	9" Color	074-0495
General Wire	C-GL-B	2"–10"	200'	Color, standard	DVD	9" Color	074-0495
Ridgid	SeeSnake B&W	2"–12"	200'	B&W, standard	VCR	9" B&W	074-0495
Ridgid	SeeSnake Color	2"–12"	200'	Color, standard	VCR	10" Color	074-0495



Electric Eel EC-10LCD
Video Pipe Inspector



Ridgid NaviTrack Scout
Pipeline Locator



Ridgid SeeSnake Color
Video Pipe Inspector



MECHANICAL & ELECTRICAL TRADE TOOLS

HYDROSTATIC TEST PUMPS

HYDROSTATIC TEST PUMPS are designed for pressure testing pipelines and pressure vessels. Electric, gas and pneumatic types are available. All models include a heavy-duty steel roll cage, a built-in pressure gauge, pressure regulator, ballvalve and an inline strainer. Gas diaphragm models also include a 2-wheel cart and can be equipped with a pressure feed tank for supplying the pump.

- EL-1A electric pump is a low volume, triplex plunger unit designed for testing sprinkler systems, irrigation lines, plant piping and pressure vessels
- DPH-series gas pumps are high volume, triple diaphragm units designed for testing larger diameter lines up to 24" (model DPH-3B); up to 96" (model DPH-8). Both models can pump up to a 10% chlorine solution and can also run dry
- HP-100 pneumatic pump is a compact, high pressure unit, ideal for working in tight spots and remote locations



Rice DPH-3B
11 GPM Gas Diaphragm Pump
Shown with optional 20 gal. pressure tank



Rice DPH-8
32 GPM Gas Diaphragm Pump



Rice EL-1A
3 GPM Electric Plunger Pump



Rice HP-100
10,000 PSI Pneumatic Test Pump



Make	Model	Type	Power Source	PSI Range	Max Flow	Inlet	Outlet	Weight	Cat-Class
Rice Hydro	EL-1A	Electric Plunger	1 HP 115V/208-230V	70-500	3 GPM	3/4" female swivel	1/2" quick coupling	88 lbs.	043-0410
Rice Hydro	DPH-3B	Gas Diaphragm	Honda 5.5 HP	70-550	11 GPM	1" hosebarb	1/2" quick coupling	104 lbs.	043-0420
Rice Hydro	DPH-8	Gas Diaphragm	Honda 9 HP	70-300	32 GPM	1-1/2" filter	3/4" female thread	178 lbs.	043-0430
Rice Hydro	HP-100	Pneumatic	130 CFM @ 100 PSI	500-10,000	0.13 cu. in.	1/2" hose swivel	3/8" female thread	42 lbs.	043-0440

QUICK REFERENCE OPERATING INSTRUCTIONS—HYDROSTATIC TEST PUMPS

Electric Piston Test Pumps

1. Check pump for proper working condition.
2. Connect inlet hose. Unit may be suction, gravity, or force fed.
3. Connect 8 foot high pressure hose to the outlet piping, open the outlet ballvalve and start motor.
4. To preset test pressure or conduct a simulated test, place a ballvalve on end of outlet hose and leave open. Start motor. Bleed air from system, through hosebib or needle valve. Close ballvalve on end of outlet hose and begin to build pressure. To adjust pressure relief valve, turn clockwise to increase.
5. Connect outlet hose to test environment.
6. Open outlet ballvalve and unit will begin building pressure.
7. Open needle valve or hosebib to bleed excess air from piping.
8. Once pressure is met and the air is bled from the system, close the ballvalve and turn off the motor. Allow the test pump and the tested line to sit, holding pressure for your required test time.

Gas Diaphragm Test Pumps

1. Check pump for proper working condition.
2. UNIT MUST BE SUCTION OR GRAVITY FED. Connect inlet hose. Do not connect to a direct pressure feed, such as hosebib or standpipe.

- Supply unit from a feed tank, 55 gallon drum, or water truck.
3. Connect 8 foot outlet hose to the outlet piping. To simulate a test, connect a ballvalve to the end of outlet hose.
 4. Open the outlet ballvalve. For simulated testing or adjusting pressure regulator, also open the ballvalve at the end of outlet hose.
 5. Start the engine.
 6. Open the hosebib located below pressure gauge, releasing air from the piping and unit. Close this valve when water flows freely.
 7. Allow pressure to build. For simulated testing or regulator adjustment, close ballvalve on the end of outlet hose. If unit does not build pressure or pressure drops, check for leaks and bleed air from system. Consult manufacturer's operating instructions for additional troubleshooting.
 8. Adjust the T-handle regulator to set the required test pressure: Clockwise to increase pressure or counter-clockwise to decrease pressure. Bleed air in between each adjustment.
 9. Once pressure is met and air is bled from the system, close the ballvalve and turn off the engine. **Do not slam ballvalve!** Allow the pump and the tested line to sit, holding pressure for your required test time.

Pneumatic High-Pressure Test Pumps

1. Connect the water supply to the inlet hose swivel on the test pump. Secure tightly.
2. Connect the air line from the compressor to the quick disconnect inlet.
3. Connect the 8 foot high pressure outlet hose to the outlet fitting on the pump and the line to be tested. Secure tightly.
4. Turn on the water supply. Open the bleeder valve to remove off excess air.
5. Start the compressor. Once compressor reaches operating pressure, slowly open the outlet air valve on the air compressor.
6. Set the inlet air pressure from the compressor at 100 PSI. To adjust the air input regulator, turn the black knob clockwise to increase pressure, counter-clockwise to decrease pressure.
7. Open high pressure ballvalve on test pump slowly. Once acceptable pressure is reached, close the ballvalve.
8. If pressure drops, check for leaks and bleed air from system. Consult manufacturer's operating instructions for additional troubleshooting.
9. If pressure on the gauge remains constant, turn off compressor. Allow test pump and tested line to sit, holding pressure for required test time.

PRESSURE WASHERS

HOT WATER PRESSURE WASHERS

HOT WATER PRESSURE WASHERS quickly remove oil, grease and other buildups from almost any surface. These units combine pressure, heat and chemicals for unequaled cleaning power. Electric and gas types are available and include a trigger gun and a 50' high-pressure hose.

Electric-Driven models provide outstanding performance in applications where an electric power source is available and/or where engine-driven units cannot be used.

- Utilize electric power for the motor/pump and diesel fuel or fuel oil to heat the water
- Rugged steel chassis, roll cage and 4-wheel mounting
- Large fuel tanks provide hours of uninterrupted operation

Gas Engine-Driven models feature dual fuel (diesel fuel or fuel oil) burners, a rugged steel chassis with roll cage and Honda electric-start gas engines. Mounting options include skids, 4-wheel carts with pneumatic tires and towable trailers with onboard water tanks. All models include a trigger gun and a 50' high-pressure hose.

- Shark 3,500 PSI models include an onboard 2,000 watt AC generator to power the burner
- Mi-T-M 3,500 PSI models include an onboard 2,500 watt AC generator



Hot water pressure washers are ideal for cleaning oil and greasy buildups from almost any surface.



Mi-T-M Electric
1,000 PSI, 110V



Shark Electric
1,000 PSI & 2,000 PSI models available, 120V



Mi-T-M Gas
2,400 PSI, 6.5 HP



Mi-T-M Gas
3,500 PSI, 20 HP
Towable trailer model available



Shark Gas
3,000 PSI, 11 HP



Shark Gas
3,500 PSI, 20 HP
Towable trailer model

Electric-Driven Models

Make	Model	Max PSI	Max GPM	Mounting	Power Source	Burner Fuel Tank	Burner Run Time	Weight	Cat-Class
Mi-T-M	HSE-1002-0M11	1,000	2.0	4-wheel	110V, 15A	4.0 gal.	3.0 hrs.	245 lbs.	016-0020
Shark	STP-231007D	1,000	2.1	4-wheel	120V, 15A	6.7 gal.	6.7 hrs.	480 lbs.	016-0020
Shark	STP-352007A	2,000	3.5	4-wheel	230V, 22A	6.7 gal.	3.8 hrs.	500 lbs.	016-0230

Gas Engine-Driven Models

Make	Model	Max PSI	Max GPM	Mounting	Engine	Engine Fuel Tank	Engine Run Time	Burner Fuel Tank	Burner Run Time	Weight	Cat-Class
Mi-T-M	HSP-2403-3MGH	2,400	2.6	4-wheel	Honda 6.5 HP	1.0 gal.	1.9 hrs.	4.0 gal.	2.6 hrs.	269 lbs.	016-0140
Mi-T-M	HSP-3004-3MGH	3,000	3.5	4-Wheel	Honda 13 HP	1.7 gal.	1.5 hrs.	5.5 gal.	4.0 hrs.	428 lbs.	016-0220
Shark	SGP-353037E	3,000	3.5	4-wheel	Honda 11 HP	2.0 gal.	1.7 hrs.	6.0 gal.	4.5 hrs.	530 lbs.	016-0220
Mi-T-M	HS-3505-0MGH	3,500	4.7	Skid	Honda 20 HP	10.0 gal.	5.0 hrs.	10.0 gal.	3.0 hrs.	750 lbs.	016-0260
Mi-T-M	AW-9000-0002 ¹	3,500	4.7	Trailer	Honda 20 HP	10.0 gal.	5.0 hrs.	10.0 gal.	3.0 hrs.	750 lbs.	016-0270
Shark	SSG-503537E/G	3,500	4.7	4-wheel	Honda 20 HP	6.0 gal.	3.0 hrs.	9.0 gal.	4.0 hrs.	1,020 lbs.	016-0260
Shark	TRS-3500 ²	3,500	4.7	Trailer	Honda 20 HP	6.0 gal.	3.0 hrs.	9.0 gal.	4.0 hrs.	1,775 lbs.	016-0270

¹Mi-T-M trailer model includes a 450 gal. water tank. ²Shark trailer model includes a 200 gal. water tank.

PRESSURE WASHERS

PRESSURE WASHERS

HOT/COLD PRESSURE WASHERS, ACCESSORIES

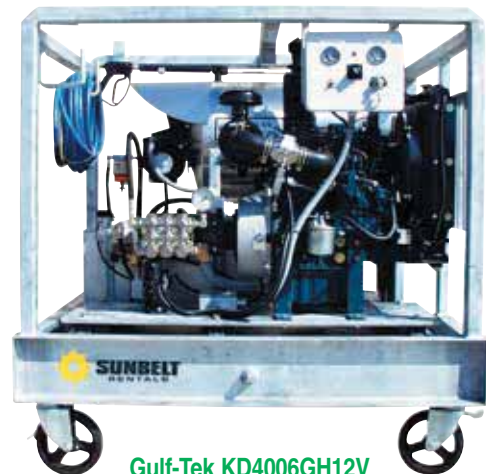
INDUSTRIAL HOT/COLD PRESSURE WASHERS

are designed to perform tough industrial cleaning applications, such as shipyards, refineries, paper plants, chemical plants, and offshore applications. These heavy-duty units are diesel-driven and feature a rugged design for dependable operation in demanding industrial and marine applications. Includes a chemical injector, trigger gun, and a 50' high pressure hose. Overall dimensions are 55"L x 48"W x 44"H. Unit weighs 1430 lbs. Gulf-Tek KD4006GH12V (Cat-Class 016-0320)

- 4000 PSI Max. Pressure, 6 GPM Max. Volume
- Operates Hot or Cold to match each application
- Kubota 24-HP liquid-cooled diesel engine w/electric starting
- 18 gal. Coast Guard approved fuel tank (supplies both the engine and burner through dual fuel water separators) Approx. run time is 18 hours per tankful
- 12V battery-powered burner motor, with high capacity alternator to charge the battery, and corrosion-proof wiring
- Weatherproof instrument panel with emergency shutdown protection
- Stainless steel combustion chamber
- Redundant fuel pumps, fuel filters, and water filters to ensure reliable operation in remote locations
- Galvanized steel frame with forklift pockets, lifting eye, and removable casters. Units are stackable for storage



Industrial hot/cold pressure washers designed to perform tough industrial cleaning applications



Gulf-Tek KD4006GH12V
Industrial Diesel 4000 PSI

PRESSURE WASHER ACCESSORIES

- Extra 3/8" x 50' pressure hose for greater job versatility. Lewis-Goetz (Cat-Class 150-1365)
- Extended reach pressure wands for cleaning hard-to-reach high places without scaffolding or ladders. 12', 18', and 24' reach models are available. Lewis-Goetz (Cat-Class 150-1370)
- Turbo Tip rotating nozzles for aggressive 0° spray with 25° coverage. Lewis-Goetz (Cat-Class 150-1375)
- Low-pressure detergent injectors, for more aggressive cleaning. Lewis-Goetz (Cat-Class 150-1380)
- 18" Rotary surface scrubbers for faster cleaning of decks, sidewalks, and other flat surfaces. Lewis-Goetz (Cat-Class 150-1385)
- Soluble media injectors to inject soft abrasives for removing graffiti, paint, grease, and other stubborn coatings. (Cat-Class 150-1390)
- Garden hose, for water supply. (Cat-Class 150-1420)



Extended Reach Pressure Wand
Available in 12', 18' and 24' telescoping models




Turbo Tip
Rotating Nozzle

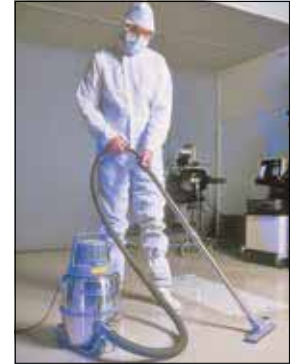


Rotary
Scrubber


VACUUMS

CLEANROOM & HEPA VACUUMS, HAZARDOUS MATERIAL VACUUMS DUST COLLECTOR VACUUMS

CLEANROOM VACUUMS are lightweight industrial vacuums designed for cleanrooms and labs demanding absolute filtration. Features 4-stage filtration: a disposable filter bag, a main filter, a microfilter (99.5% efficient down to 2-micron sized particles) and an ULPA filter (99.99% efficient down to 0.12 micron sized particles). Interference suppressed for safe use around sensitive electronic equipment. Includes suction hose, wands and caster mounting. 7.8/3.9 amp rating, 115/220V operation. 3.25 gal. capacity. Unit weighs 13 lbs. Nilfisk GS-80I 



Nilfisk GS-80I

HEPA WET/DRY VACUUMS feature wet/dry operation and multi-stage filtration including a HEPA filter (99.97% efficient down to 0.3 micron sized particles). (Cat-Class 080-0320) 











Clarke/Wap ATTIX 12 HEPA
12-gal. HEPA Wet/Dry Vacuum
Includes 1.5" x 10' suction hose,
wands and wet/dry collection tools.
1.6 HP motor, 115V operation.
Unit weighs 53 lbs.




Nilfisk VT-60CR
10-gal. HEPA Wet/Dry Vacuum
Features 4-stage filtration.
Includes suction hose, wands
and wet/dry collection tools. 8.3
amp rating, 115V operation.
Unit weighs 65 lbs.



HAZARDOUS MATERIAL VACUUMS are ideal for cleaning up flammable liquids, finely pulverized dust and other hazardous materials. Designed for use where flammable gases, vapors or fine dust may be present. Features 3-stage HEPA filtration (99.99% efficient down to 0.12 micron sized particles) and a 15-gal. stainless steel tank. 115/220V operation. Unit weighs 96 lbs. Minuteman C88015-04 (Cat-Class 080-0330)    

MERCURY VACUUMS are designed for recovering mercury from shipping containers, work areas and spills for reuse or disposal. Features 4-stage filtration: a 16 ounce capacity centrifugal droplet separator that collects liquid mercury (a 12-gal. disposable bag is available for dry spills), a HEPA filter (99.97% efficient down to 0.3 micron sized particles), an activated carbon filter and a microstatic diffuser. Includes a 4-wheel dolly with front casters. 8.3 amp rating, 120V operation. Unit weighs 107 lbs. Nilfisk VT-Mercury Vac (Cat-Class 080-0340)    



DUST COLLECTOR VACUUMS are ideal for collecting dust and residue from all types of surface preparation equipment including grinders, planers, scabblers and shot blasters. They can also be used effectively with other equipment such as rotary hammers and saws. Featuring powerful vacuums with highly-efficient filtration, they reduce the environmental and health hazards of airborne particles. Several sizes of dust collector vacuums are available. Each model includes a vacuum hose and accessories. 



Hilti VC40-U
160 CFM



EDCO Vortex-200
200 CFM



ERMATOR S36
358 CFM

Make	Model	Air Flow	Water Lift	Collector Capacity	Vacuum Hose	Power Source	Weight	Cat-Class
Hilti	VCD-50	106 CFM	92.4"	12 gal.	1-1/2" x 16'	120V, 10A	50 lbs.	080-0120
Clarke/Wap	ATTIX 12RDFD ¹	140 CFM	105.0"	12 gal.	1-1/2" x 10'	120V, 13A	53 lbs.	080-0120
Husqvarna	DC 1400	129 CFM	88.6"	14 gal.	1-1/2" x 8'	220/240V, 16A	38 lbs.	032-0410
EDCO	Vac-160	180 CFM	95.0"	6 gal.	2" x 25'	120V, 13.3A	70 lbs.	032-0410
Hilti	VC40-U	106 CFM	129"	6.6 gal.	1-1/4" x 16'	120V, 20A	80 lbs.	032-0410
EDCO	Vortex-200	200 CFM	94.0"	9 gal.	2" x 25'	110V, 16A	90 lbs.	032-0410
EDCO	Vac-250	250 CFM	100.0"	16 gal.	3" x 20'	120V, 20A	98 lbs.	032-0410
Ermator	S26 ²	258 CFM	100.0"	3.5 gal.	2" x 17'	120V, 20A	103 lbs.	032-0420
Ermator	S36 ²	353 CFM	110.0"	3.5 gal.	2" x 17'	230V, 20A	134 lbs.	032-0430

¹This model also works as a wet/dry vacuum. ²HEPA Dust Extractor

VACUUMS

WELDING & PLASMA CUTTING EQUIPMENT

WELDING & CUTTING PROCESSES

Stick Electrode Welding (SMAW)

- Most common welding process
- Constant-current (CC) DC power source is recommended.
- Better for windy, outdoor conditions
- More forgiving when welding on dirty or rusty metal

MIG Wire Welding (GMAW)

- Easiest process to learn and better control on thinner metals, produces clean welds and high productivity.
- Requires CV (constant-voltage) power source, wire feeder, MIG gun and welding gas
- Use DCEP (reverse polarity) on the power source
- On thin metals, use smaller diameter wire. On thicker metals, use larger diameter wire and a larger machine.
- Use the proper shielding gas. CO₂ is good for penetrating welds on steel, but may be too hot for thin metal. Use 75% Argon/25% CO₂ for thinner metals. Use only argon for aluminum. You can use a triple mix for stainless steels (Helium + Argon + CO₂).
- Be sure to match your contact tube, gun liner and drive rolls to the wire size

Flux Cored Wire Welding (FCAW)

- Uses the same equipment as MIG welding and works as well as Stick on dirty, rusty material.
- Requires CV (constant-voltage) power source, wire feeder and gasless gun. Can use CC (constant-current) power source with a voltage-sensing feeder.
- Self-shielded Flux Cored doesn't require an external cylinder of shielding gas (shielding is in the wire). This is useful for outside work, where external gas could be blown away.
- Similar to Stick welding, where slag must be removed from the weld.
- Self-shielded Flux Cored is generally harder to accomplish on thin metals than MIG welding.
- Provides deep penetration for welding thick sections and increased metal disposition rate.

TIG Welding (GTAW or Gas Tungsten Arc)

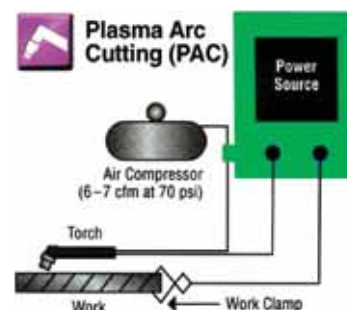
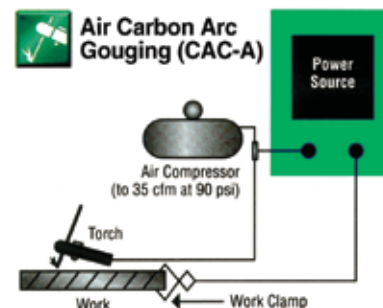
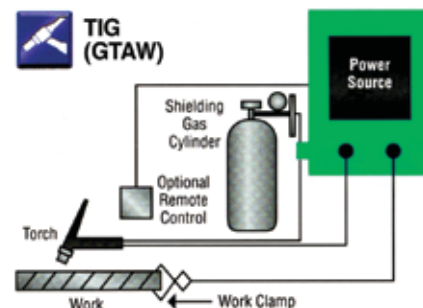
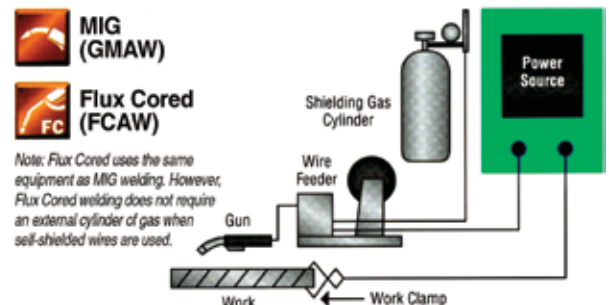
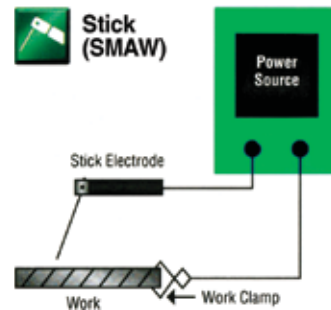
- Good for thin metal and where high-quality, precise, aesthetic welds are required.
- Requires power source, TIG torch and Argon shielding gas (for steel, stainless and aluminum).
- High-frequency arc starter may be required for some applications.
- Use DCEN for steel and stainless. Use AC for aluminum.
- Match tungsten electrode size with the collet size.
- Use a push technique with TIG.

Air Carbon Arc Gouging (CAC-A)

- Requires power source and special electrode holder plus compressed air (to 35 CFM @ 90 PSI).
- Creates a high-pressure air jet that blows molten metal away.
- Often used for weld joint preparation, rough cutting and removal of unwanted metal.
- Carbon sizes used are determined by the output of the machine.
- Constant-current (CC) or constant-voltage (CV) machines can be used.

Plasma Arc Cutting (PAC)

- Quality cutting process that produces clean, fast and warp-free cuts on all electrically conductive metals.
- Requires special power source and torch plus compressed air.
- Used primarily for difficult-to-cut alloys such as aluminum and stainless.
- Can also be used for gouging as a substitute for the air carbon arc process.
- Fast cuts virtually eliminate warping and help prevent paint damage.
- Clean and dry, oil-free air is important.



WELDING & PLASMA CUTTING EQUIPMENT

WELDING & CUTTING GLOSSARY

GLOSSARY

Air Carbon Arc Gouging (CAC-A)—a cutting process by which metals are melted by the heat of an arc using a carbon electrode. Molten metal is forced away from the cut by a blast of forced air. To remove large amounts of metal, look for a welder that can use carbons of at least 3/8" in diameter.

Amperage—the measurement of the amount of electricity flowing past a given point in a conductor per second.

Alternating Current (AC)—an electrical current that reverses its direction at regular intervals, such as 60 cycles alternating current (AC), or 60 Hz.

Arc—the physical gap between the end of the electrode and the base metal.

Arc-Drive—active dig control in the Stick process that enhances E6010 pipe welding without compromising E7018 performance.

Auto-Line—automatically "links" the Spectrum 2050 to any primary input voltage from 208 to 575 volts, single or three-phase, 50 or 60 Hz. Also adjusts for voltage spikes within the entire range.

Auto-Link—internal inverter power source circuit that automatically links the power source to the primary voltage being applied (230V or 460V), without the need for manually linking primary voltage terminals.

Constant Current (CC) Welding Machine—have limited maximum short circuit current, have a negative volt-amp curve and are often referred to as "droopers." The voltage will change with different arc lengths while only slightly varying the amperage.

Constant Voltage (CV), Constant Potential (CP) Welding Machine—maintains a relatively stable, consistent voltage regardless of the amperage output. It results in a relatively flat volt-amp curve as opposed to the drooping volt-amp curve.

Current—another name for amperage. The amount of electricity flowing past a point in a conductor every second.

Defect—one or more discontinuities that cause a testing failure in a weld.

Direct Current (dc)—flows in one direction and does not reverse its direction of flow.

Duty Cycle—the number of minutes out of a 10-minute time period an arc welding machine can be operated at maximum rated output.

Flux Cored Arc Welding (FCAW)—an arc welding process that melts and joins metals by heating them with an arc between a continuous, consumable electrode wire and the work. Shielding is obtained from a flux contained within the electrode core. Depending upon the type of flux-cored wire, adding shielding may or may not be provided from externally supplied gas or gas mixture.

Ground Connection—a safety connection from a welding machine frame to the earth. (see also Workpiece Connection)

Ground Lead—see preferred term Workpiece Lead.

High Frequency—covers the entire frequency spectrum above 50,000 Hz. Used in TIG welding for arc ignition and stabilization.

Inverter—power source that increases the frequency of the incoming primary power, thus providing for a smaller size machine and improved electrical characteristics for welding.

MIG (GMAW or Gas Metal Arc Welding)—an arc welding process that joins metals by heating them with an arc. The arc is between a continuously fed filler metal (consumable) electrode and the workpiece. Externally supplied gas or gas mixtures provide shielding. Common MIG welding is also referred to as short circuit transfer. Metal is deposited only when the wire actually touches the work. No metal is transferred across the arc.

Plasma Arc Cutting—an arc cutting process that severs metal by using a constricted arc to melt a small area of the work. This process can cut all metals that conduct electricity.

Primary Power—often referred to as the input line voltage and amperage available to the welding machine from the shop's main power line. Often expressed in watts or kilowatts (kW), primary input power is AC and may be single or 3-phase.

Rated Load—the amperage and voltage the power source is designed to produce for a given specific duty cycle period.

Stick Welding (SMAW or Shielded Metal Arc)—an arc welding process that melts and joins metals by heating them with an arc, between a covered metal electrode and the work. Shielding gas is obtained from the electrode outer coating, often called flux. Filler metal is primarily obtained from the electrode core. An AC/DC welder is recommended for Stick.

TIG Welding (GTAW or Gas Tungsten Arc)—this welding process joins metals by heating them with a tungsten electrode that should not become part of the completed weld. Filler metal is sometimes used and argon inert gas or inert gas mixtures are used for shielding.

Voltage—the pressure or force that pushes the electrons through a conductor.

Voltage-Sensing Wire Feeder—feeder operates from arc voltage generated by welding power source.

Workpiece Connection—a means to fasten the work lead (work cable) to the work (metal to be welded on). Also, the point at which this connection is made.

Workpiece Lead—the conductor cable or electrical conductor between the arc welding machine and the work.

WELDING & PLASMA CUTTING EQUIPMENT

MACHINE SOURCING QUESTIONS, PROCESS COMPARISON CHARTS

MACHINE SOURCING QUESTIONS:

1. What type of work are you performing?

Stick electrode welding—The most common process used by rental customers and contractors.
(See page 45 for more information)

MIG Wire Welding—115V and 230V, 1-phase integrated wire welders. Usually requires shielding gas.
(See page 45 for more information)

Flux Cored Wire Welding—Gasless type wire welding commonly used in construction applications. Usually requires 300 amp or larger welder.
(See page 45 for more information)

TIG “Heliarc” Welding—Most commonly used in installation welding during the later phases of a construction project.
(See page 45 for more information)

Plasma Arc Cutting—A cutting process requiring special machines and compressed air.
(See page 45 for more information)

Air Carbon Arc Gouging—A cutting process requiring high amperage, compressed air, and a special torch.
(See page 45 for more information)

2. Where will the welder be used?

Inside—Requires “plug-in” welder, LPG engine-driven welder or “scrubber” equipped diesel welder.

Outside—Gas or diesel engine-driven welders are rented for most construction sites. Multi-Operator welders are often rented for large sites.

3. Is commercial electric power available?

Yes—If sufficient power is available, electrical welders are usually more suitable to rent.

No—Rent gas or diesel engine-driven welders. Or, rent a portable generator and “plug-in” electrical welders.

4. What voltage and phase are available?

Determine the available electric power at the site: 120V, 208V, 230V, 460V or 575V. Also determine whether single-phase or three-phase power is available.

5. What is the duty cycle needed?

Duty cycle relates to how long a machine can continuously operate without damaging the system. NEMA guidelines base the duty cycle rating on the number of minutes out of a 10-minute period an arc welding machine can be operated at maximum rated output, which is expressed in percentages such as “60% duty cycle.” Extensive arc-on time and/or high-amperage welding requires a welder with a higher duty cycle. If a welder is operated below its rated output, the duty cycle typically increases.

6. Is portable equipment required?

Hand-portable power sources—If welders are to be moved by hand, portable welding/cutting machines under 80 lbs. are usually required.

Gas engine-driven power sources—Usually mounted on running gear for ease of onsite movement.

Diesel engine-driven power sources—Usually trailer-mounted and moved on-site by truck.

Multi-operator power sources—Usually moved on-site by crane or lift truck. For high-rise structures, check if they are to be moved and fit into temporary construction elevators.

ELECTRODE	DIAMETER		AMPERAGE RANGE				
	IN	MM	MIN. 50 A	100 A	150 A	200 A	MAX.
6010 & 6011	3/32	2.4	■				
	1/8	3.2		■			
	5/32	4.0			■		
	3/16	4.8				■	
6013	1/16	1.6	■				
	5/64	2.0		■			
	3/32	2.4			■		
	1/8	3.2				■	
	5/32	4.0					■
7014	3/32	2.4		■			
	1/8	3.2			■		
	5/32	4.0				■	
7018	3/32	2.4		■			
	1/8	3.2			■		
	5/32	4.0				■	
7024	3/32	2.4		■			
	1/8	3.2			■		
	5/32	4.0				■	
Ni-Ci	3/32	2.4	■				
	1/8	3.2		■			
	5/32	4.0			■		
	3/16	4.8				■	
308L	3/32	2.4	■				
	1/8	3.2		■			
	5/32	4.0			■		

Courtesy of Miller Electric

PROCESS COMPARISON CHARTS

Welding Processes

Process	Metal Types	Metal Thickness	Speed	Skill Required	Operating Cost
MIG	Steel, stainless, aluminum	.025" and up	Very fast	Low	Low
Flux Cored	Steel, stainless	.125" and up	Very fast	Low	Low
Stick	Steel, stainless	.125" and up	Slow	Moderate	High
TIG	All weldable metals	.010" and up	Very slow	High	High

Cutting Processes

Process	Metal Types	Metal Thickness	Speed	Skill Required	Operating Cost
Air Carbon Arc Gouging	Steel	Unlimited	Fast	Low	Moderate
Plasma Cutting	All electrically conductive metals	Up to 1.75"	Very fast	Low	Low

WELDING & PLASMA CUTTING EQUIPMENT

ENGINE-DRIVEN WELDERS

ENGINE-DRIVEN WELDERS provide the portability needed by contractors to operate on-site with multi-process capabilities, independent from electric power sources. Typical applications include welding structural steel, repairing equipment, bridge building and plant maintenance. These units also provide 120/240V auxiliary power for operating electric lights and tools. Engine-driven welders with skid, running gear, trailer-mounted and offshore models are available. Power options include gas, propane and diesel.

- Welding leads, stingers and ground clamps are available



Multiquip GAW180HE
180A Welder/Generator



Miller Bobcat 250 NT 250A running gear model



Miller Big Blue 300 CC/CV 400A CC/CV trailer model



Lincoln Vantage 400 CC/CV 400A CC/CV trailer model



Miller Big Blue 500 CC DRIP 600A CC/CV offshore model



Make	Model	Engine	Welding Modes	Rated Output			Weight	Cat-Class
				100% Duty Cycle	60% Duty Cycle	40% Duty Cycle		
Miller	Blue Star 185	13 HP Gas	CC/DC		130A, 25V	185A, 25V (20%)	267 lbs.	027-0010
Multiquip	GAW180HE	11 HP Gas	CC/DC	110A, 26V		170A, 26V (50%)	242 lbs.	027-0010
Lincoln	Ranger GXT	23 HP Gas	CC/AC, CC/DC, CV/DC	250A, 25V			692 lbs.	027-0050
Miller	Bobcat 250 NT	20 HP Gas	CC/AC, CC/DC, CV/DC	250A, 25V	275A, 25V		519 lbs.	027-0050
Miller	Bobcat 250 LP	20 HP Propane	CC/AC, CC/DC, CV/DC	250A, 28V	275A, 25V		519 lbs.	027-0060
Lincoln	Classic 300D w/trailer	33 HP Diesel	CC/DC	250A, 30V	300A, 32V		1,891 lbs.	027-0080
Lincoln	Vantage 300 w/trailer	22 HP Diesel	CC/DC, CV/DC	300A, 32V	400A, 25V		1,713 lbs.	027-0090
Miller	Trailblazer Pro 350	26 HP Diesel	CC/AC, CC/DC, CV/DC	300A, 25V	350A, 28V		1,029 lbs.	027-0090
Miller	Big Blue 300 CC/CV	22 HP Diesel	CC/DC, CV/DC	300A, 25V	400A, 25V	500A, 30V	1,100 lbs.	027-0110
Lincoln	Vantage 400 w/trailer	33 HP Diesel	CC/DC, CV/DC	400A, 36V			2,201 lbs.	027-0120
Miller	Big Blue 400 CC/CV	35 HP Diesel	CC/DC, CV/DC	400A, 36V	450A, 36V	500A, 30V	1,655 lbs.	027-0150
Miller	Big Blue 400 Eco Pro	35 HP Diesel	CC/DC, CV/DC	400A, 36V	450A, 36V	500A, 30V	1,400 lbs.	027-0150
Lincoln	Vantage 500 w/trailer	48 HP Diesel	CC/DC	500A, 40V	550A, 36V		2,163 lbs.	027-0160
Miller	Big Blue 500 CC/CV	42 HP Diesel	CC/DC, CV/DC	500A, 40V		600A, 30V	1,785 lbs.	027-0170
Miller	DU-OP ¹	42 HP Diesel	CC/DC, CV/DC			550A/275A	2,005 lbs.	027-0170
Miller	Big Blue 500 CC DRIP ²	42 HP Diesel	CC/DC	500A, 40V	550A, 40V	600A, 30V	2,385 lbs.	027-0175

¹Dual operator model: Rated output reflects single/dual operators.

²Offshore model equipped with galvanized steel roll cage/drip pan.

WELDING & PLASMA CUTTING EQUIPMENT

WELDING & PLASMA CUTTING EQUIPMENT

INVERTER WELDERS, MULTI-OPERATOR RACKS

INVERTER WELDERS provide multiple welding process capabilities in a compact, lightweight package due to their unique electrical design. The power source increases the frequency of the incoming primary power, allowing a smaller size machine with improved electrical characteristics. Benefits include faster response time and more control.

- CST-series models feature Lift-Arc™ start for TIG arc starts without the use of high frequency
- XMT-series models feature Lift-Arc start plus Adaptive Hot Start™, which increases the output amperage at the start of a weld to eliminate electrode sticking
- 4-Pack and 6-Pack rack systems are available



Miller CST 280
280A Inverter Welder



Miller XMT 304 CC/CV
300A Inverter Welder



Make	Model	Processes	Rated Output	Power Requirements	Weight	Cat-Class
Miller	CST 250	Stick, TIG	250A at 50% duty cycle	230/460/575V 3ø	40 lbs.	027-0360
Miller	CST 280 ¹	Stick, TIG	280A at 35% duty cycle	230/460/575V 3ø	41 lbs.	027-0360
Miller	XMT 304 CC	Stick, TIG, Flux cored, Air carbon arc	300A at 60% duty cycle	208-230/460V 3ø	76 lbs.	027-0370
Miller	XMT 304 CC/CV	Stick, TIG, MIG, Flux cored, Air carbon arc	300A at 60% duty cycle	208-230/460V 3ø	76 lbs.	027-0380
Miller	XMT-350 VS	Stick, TIG, MIG, Flux cored, Air carbon arc	350A at 60% duty cycle	208-575V 1ø or 3ø	80 lbs.	027-0385
Miller	XMT-456 CC/CV	Stick, TIG, MIG, Flux cored, Air carbon arc	565A at 60% duty cycle	208-230/460V 3ø	118 lbs.	027-0405

¹This model is included in the JLG SkyWelder Package, available for selected models of JLG manlifts.



Miller CST-series 4-Pack Rack



Miller XMT-series 6-Pack Rack



Fume extractors are available for rent (see page 53)

MULTI-OPERATOR RACKS are also available for Miller CST- and XMT-series inverter welders in 4-pack, 6-pack and 8-pack configurations. These space-saving racks are ideal for applications requiring multiple arcs in tight spaces. Racks travel through a standard 36" door and also fit in most construction elevators. Wheel kits available.

- Rugged, steel construction with a compact footprint
- Single input power connection, fused switches for each unit
- Individual units can be removed and operated independently
- Forklift pockets and lifting eyes for easy lifting and placement

Series	Capacity	Input Power	Dimensions	Empty Weight	Cat-Class
CST	4-pack	230/460/575V, 3-phase	26"L x 27"W x 51"H	224 lbs.	027-0360
XMT	4-pack	230/460V, 3-phase	43"L x 34"W x 59"H	256 lbs.	027-0385
XMT	6-pack	230/460V, 3-phase	43"L x 34"W x 59"H	256 lbs.	027-0385

XMT Rack accommodates up to (6) XMT-300 series units, up to (4) XMT-400 series units.

WELDING & PLASMA CUTTING EQUIPMENT

MIG WELDERS, TIG WELDERS

MIG WELDERS are complete all-in-one welding systems that feature built-in or separate wire feeders. Light and heavy-duty MIG welders are available. All models include a wire feeder, cable assembly and MIG gun.

- MIG and Flux Cored processes
- Light-duty models operate on standard 115V current and are ideal for light fabrication, maintenance and repair applications Includes a built-in wire feeder
- Heavy-duty model features an adjustable weld stabilizer (high-low inductance) High stabilizer is ideal for welding stainless steel, low stabilizer is for mild steel and aluminum Includes an external wire feeder



Millermatic 140
MIG Welder



MIG Consumables Kit
(For purchase only)
Includes an assortment of contact tips, nozzle, adapters, shock washer and O-ring



Make	Model	Applications	Rated Output	Power Requirements	Weight	Cat-Class
Miller	Millermatic 140	Light-duty	140A Max output; 90A, 18V (20% duty cycle)	115V, 20A	60 lbs.	027-0240
Miller	Millermatic 135XP	Light-duty	135A Max output; 90A, 18V (20% duty cycle)	115V, 20A	60 lbs.	027-0240
Miller	CP-302	Heavy-duty	300A, 32 V (100% duty cycle); 390A, 32 V (60% duty cycle)	200/230/460V 3ø	332 lbs.	027-0340

TIG WELDERS provide maximum performance in a compact package. Includes a 13' stick electrode holder, 10' work clamp, TIG torch, gas hose and regulator.

- Lift-Arc™ start for TIG arc starts without the use of high frequency
- Auto-Line™ circuitry automatically connects to the following power supply voltages:
Maxstar 150 STL: 115V or 230V single-phase
Maxstar 200 DX: 120-460V, single- or 3-phase
- High-Frequency Arc Starters are available for use with a constant current power source, to help to start the arc in the TIG process. 115V operation Miller HF-251D-1 (Cat-Class 027-0320)
- Water Coolers are available for use with water-cooled torches rated up to 600 amps 115V operation Miller Coolmate 4 (Cat-Class 027-0330)



Miller Maxstar 150 STL
Stick/TIG Welder



Miller XMT 304 TIG Rig

Includes XMT 304 power source, HF-251D-1 hi-frequency arc starter, Coolmate 4 water cooler and portable cart.

Make	Model	Processes	Rated Output	Weight	Cat-Class
Miller	Maxstar 150 STL	Stick, TIG	100A at 100% duty cycle	14 lbs.	027-0350
Miller	Maxstar 200 DX	Stick, TIG	175A at 60% duty cycle	37 lbs.	027-0355

WELDING & PLASMA CUTTING EQUIPMENT

WELDING & PLASMA CUTTING EQUIPMENT

MULTIPROCESS WELDERS, PORTABLE WIRE FEEDERS, MULTI-OPERATOR WELDERS

HEAVY-DUTY MULTIPROCESS WELDERS provide outstanding versatility and performance across the whole spectrum of welding processes, plus the power to perform many demanding industrial applications. They feature built-in arc control and internal digital voltage control. Unit operates on 230/460/575V 3-phase power and weighs 545 lbs.
Miller Dimension 652 (Cat-Class 027-0450)

- 650A output (100% duty cycle), 800A (60% duty cycle)
- CC/CV welding modes, Hot Start for easy stick starting
- MIG, Stick, TIG, Flux Cored, Air Carbon-Arc Gouging and Cutting, and Submerged Arc Welding processes



PORTABLE WIRE FEEDERS allow continuous wire welding with most CC/CV and DC power sources. Typical applications include industrial maintenance, fabrication and manufacturing.

- SuitCase models operate on open-circuit and arc voltage.
- Selection of wire types and sizes (see chart below)

Note: Please indicate wire size at the time of order.



Miller SuitCase X-TREME 12VS

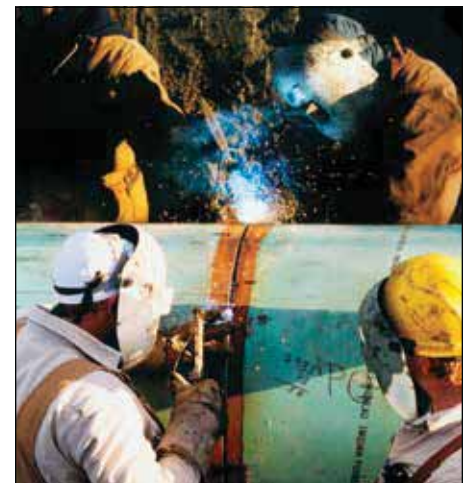


Miller Super S-32P

Make	Model	Input Power	Wire Speed	Max Spool Size/Capacity	Wire Diameter Ranges			Weight	Cat-Class
					Solid Wire	Stainless Steel	Flux Cored		
Miller	SuitCase 12VS	15-100V DC	50-700 IPM	12"/30 lbs.	.023"-5/64"	.023"-5/64"	.030"-5/64"	29 lbs.	027-0270
Miller	SuitCase X-TREME 12VS	14-110V DC	50-780 IPM	12"/45 lbs.	.023"-5/64"	.023"-5/64"	.030"-5/64"	35 lbs.	027-0270
Miller	Super S-32P	50-100V DC	50-700 IPM	12"/30 lbs.	.023"-5/64"	.023"-5/64"	.023"-5/64"	32 lbs.	027-0280
Miller	22A	24V AC, 7A	75-750 IPM	60 lbs.	.023"-5/64"	.030"-5/64"	.030"-5/64"	32 lbs.	027-0300

MULTI-OPERATOR WELDERS provide up to eight operators with the power and performance needed for big jobs, with greater efficiency than operating separate welding units. Requiring only one power connection, these versatile systems take up much less space than multiple separate units. Ideal for stationary applications including construction, pipelines, shipbuilding, training facilities and multiple connections to a common work piece.

- Stick, TIG and Air carbon arc gouging processes
- MIG and Flux Cored capabilities with optional wire feeder
- Systems utilize a single main transformer to power all modules, which can be paralleled for higher output
- Rugged steel frames, with lifting eyes and forklift pockets to assist with loading and placement on the job
- Includes a 15A, 115V duplex receptacle for running power tools



Make	Model	Modules	Type	Rated Output Single Module	Rated Output Max Combined	Overall Dimensions	Weight	Cat-Class
Miller	Mark VI	6	Stick CC/CV	250A (60% duty cycle)	750A (100% duty cycle)	57"L x 34"W x 70"H	1,825 lbs.	027-0410
Miller	Mark VIII-2	8	Stick CC/CV	200A (60% duty cycle)	800A (100% duty cycle)	72"L x 40"W x 70"H	4,050 lbs.	027-0420

WELDING & PLASMA CUTTING EQUIPMENT

PLASMA CUTTERS, FUME EXTRACTORS

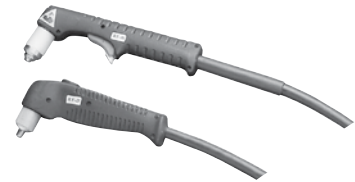
PLASMA CUTTERS are ideal for cutting all conductive metals, including mild or stainless steel and aluminum. They utilize an arc cutting process that works by sending an electric arc through a gas that is passing through a constricted opening. The air plasma cutting process yields clean and accurate cuts, with less metal distortion than any other cutting process.

- Includes a hand-held torch and work cable with clamp
- Built-in gas/air filter and regulator
- Postflow cooling circuit
- Adapts easily to various input voltages

Consumables Kit

(For purchase only)

Includes drag shield, retaining cup, standard tips and electrodes, swirl ring and O-ring



Miller Spectrum 2050 Plasma Cutter



Miller Spectrum 375 Plasma Cutter



Make	Model	Cutting Capacity			Rated Output	Power Requirement	Air Requirement	Weight	Cat-Class
		Rated	Quality	Sever					
Miller	Spectrum 125C ¹	1/8"	3/16"	N/A	12A (35% duty cycle)	115V, 1ø	N/A	50 lbs.	027-0190
Miller	Spectrum 375	3/8"	1/2"	5/8"	27A (35% duty cycle)	115/230V, 1ø	5 CFM @ 90 PSI	55 lbs.	027-0190
Miller	Spectrum 2050	7/8"	1"	1-1/4"	55A (60% duty cycle)	208-575V, 3ø	6 CFM @ 90 PSI	86 lbs.	027-0210
Miller	Spectrum 3080	7/8"	1-1/4"	1-1/2"	80A (60% duty cycle)	230/460V, 3ø	8 CFM @ 90 PSI	74 lbs.	027-0220
Miller	Spectrum 1000	1"	1-1/4"	1-1/2"	80A (60% duty cycle)	230/460V, 3ø	8 CFM @ 90 PSI	92 lbs.	027-0220
Hypertherm	MAX200 ²	1-1/2"	2"	2"	200A (100% duty cycle)	240/480V, 3ø	6 CFM @ 120 PSI	780 lbs.	027-0230

¹Miller Spectrum 125C includes a built-in air compressor.

²Hypertherm MAX200 features a dual gas system for cutting and shield gas—uses air, O₂, N₂, CO₂, or Ar-H₂ in any combination.

FUME EXTRACTORS are portable units ideal for contractors, maintenance or light manufacturing for high vacuum weld fume extraction. (Cat-Class 027-0550)



- Filter Media 16 ft.2 (1.49 m2)
- Accu-Rated™ Airflow 132 CFM (62 L/sec.)
- Sound Level 68.5 dBA at 5 ft. (1.5 m)
- Motor Specifications 1 HP
- Input Power 115 VAC, 1-Phase, 60 Hz at 11 A
- Dimensions H: 23 in. (584 mm) | W: 12 in. (305 mm) | D: 12 in. (305 mm)
- Net Weight 46 lb. (21 kg)

Miller Filtair® 130



WELDING & PLASMA CUTTING EQUIPMENT

PIPE FABRICATION EQUIPMENT

PIPE STANDS provide support and stability during pipe fabrication and welding, plus the optimum working height.

- Pro Jack models are available with Vee, Steel Roller, or Ball Transfer heads and accommodate up to 24" diameter pipe. They feature fast height positioning plus a large handle fine adjustment control
- Adjust-A-Roll and Pro Roll models accommodate up to 48" diameter pipe. Pro Roll stands feature adjustable height and leveling on either side of stand
- Max Jax stands accommodate up to 40" diameter pipe and include 8" casters with quick-action brakes for added versatility. 12" vee head and heavy-duty four-legged design provide added safety



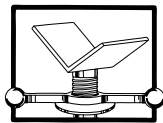
Pro Jack
Vee Head



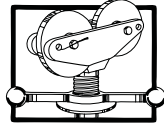
Pro Roll
Roller Head



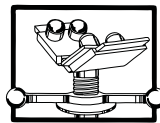
Max Jax
Large Vee Head



Vee Head



Steel Roller
Head



Ball Transfer
Head



Make	Model	Type	Capacity	Work Height	Applications	Weight	Cat-Class
Sumner	Pro Jack ST-871	Vee Head	2,000 lbs.	28"-49"	General welding of pipe, shapes, solids and rounds	22 lbs.	074-1125
Sumner	Pro Jack ST-872	Steel Roller	2,000 lbs.	28"-49"	Welding of pipe and rounds	25 lbs.	074-1140
Sumner	Pro Jack ST-876	Ball Transfer	2,000 lbs.	28"-49"	Rotation of pipe or tubing in all directions	28 lbs.	074-1155
Sumner	Pro Roll	Roller Head	2,000 lbs.	29"-43"	Welding pipe up to 48" diameter	44 lbs.	074-1170
Sumner	Adjust-A-Roll	Roller Head	2,000 lbs.	24"	Welding pipe up to 48" diameter	29 lbs.	074-1170
Sumner	Max Jax	Large Vee Head	2,500 lbs.	31"-43"	Welding and transporting pipe up to 40" diameter	121 lbs.	074-1185

Note: Pipe stands are utilized in pairs—the above specifications represent one stand.



PIPE BEVELERS are ideal for beveling pipe sections in preparation for butt welding. They provide precision cutting using standard oxy-acetylene torches, saving considerable time compared to hand cutting. Includes a precision saddle and ring gear, a cuboid spacer system, an adjustable torch holder and a boomer strap eye assembly.



Pipe Beveler

Pipe Capacity*	Weight	Cat-Class
2"-4"	10 lbs.	028-0050
3"-8"	18 lbs.	028-0060
7"-12"	27 lbs.	028-0070
14"-20"	55 lbs.	028-0080
20"-26"	81 lbs.	028-0090
30"-36"	112 lbs.	028-0100

*Additional sizes of pipe bevelers are also available.

ROD OVENS keep welding rods dry and ready for use by providing even, continuous heat and secure storage. Two sizes of portable ovens are available plus a larger shop model. All units accommodate 18" rods and feature rugged, steel construction. 120V operation. Grainger

Rod Capacity	Temp Range	Weight	Cat-Class
10 lbs.	100-300°F	12 lbs.	028-0010
50 lbs.	100-300°F	38 lbs.	028-0020
350 lbs.	100-550°F	105 lbs.	028-0030



10 lbs.



50 lbs.



350 lbs.

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Wilmington, NC 28411
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Fax: (910) 784-1346

Burlington Industrial Services
Branch #548
454 W Interstate Service Road
Graham, NC 27253
Phone: (336) 570-1742
Fax: (336) 570-1232

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Cincinnati Industrial Services
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Cincinnati, OH 45232
Phone: (513) 541-1408
Fax: (513) 681-4477

Toledo Industrial Services
Branch #448
5940 American Road East
Toledo, OH 43612
Phone: (567) 200-6575
Fax: (567) 200-6576

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Corpus Christi Industrial Services
Branch #558
342 Lantana Street
Corpus Christi, TX 78408
Phone: (361) 360-7715
Fax: (361) 360-7716

Freeport Industrial Services
Branch #042
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Oyster Creek, TX 77541
Phone: (979) 824-7355
Fax: (979) 824-7356

Houston Industrial Services
Branch #566
2025 Turning Basin Drive
Houston, TX 77029
Phone: (713) 343-0447
Fax: (713) 674-0541

Pasadena Industrial Services
Branch #618
124 S Wafer Street
Pasadena, TX 77506
Phone: (713) 472-2222
Fax: (713) 472-1359

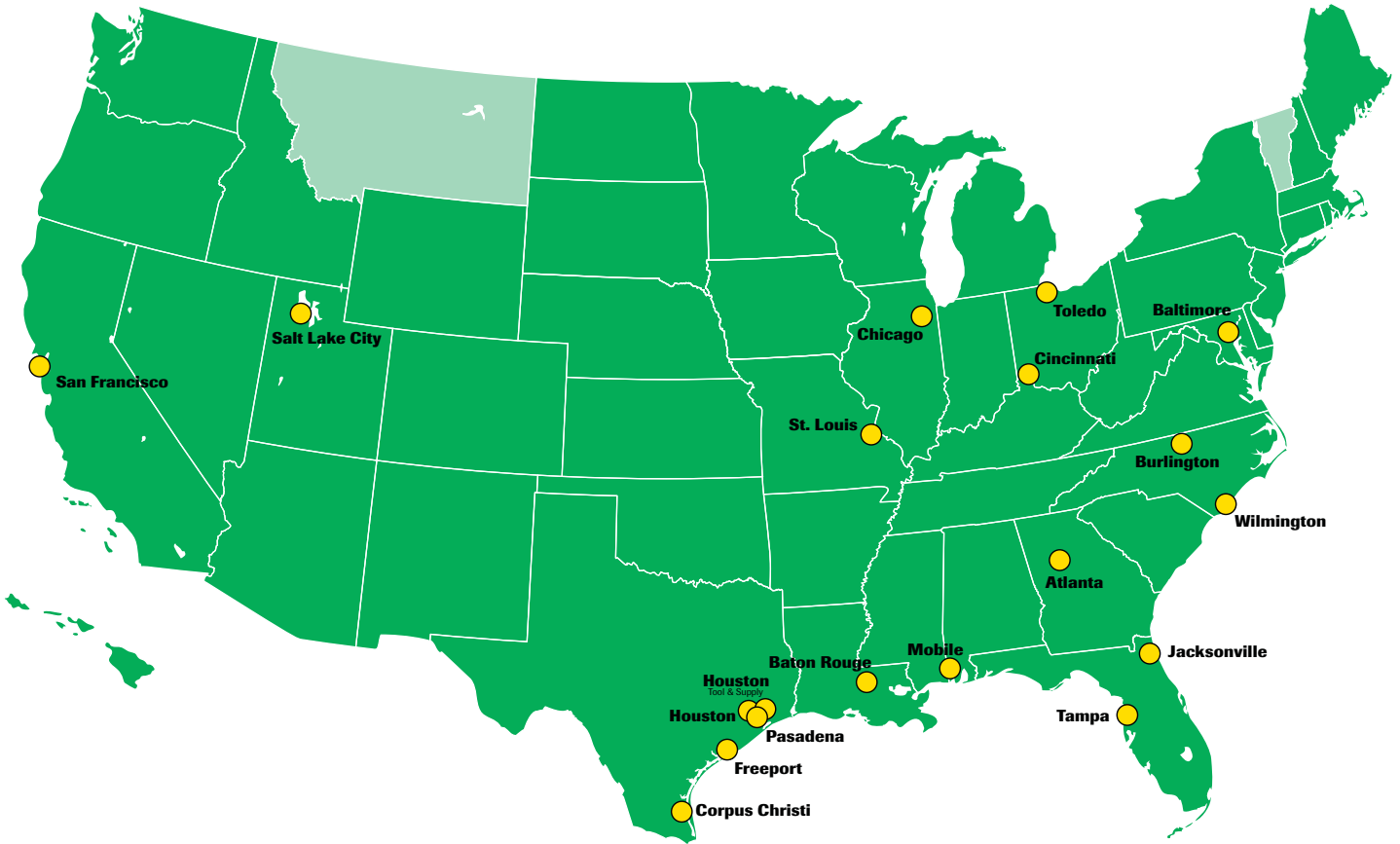
Houston Tool & Supply
Branch #619
711 E Belmont Street
Pasadena, TX 77506
Phone: (713) 472-2223
Fax: (713) 472-1359

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Salt Lake City Industrial Services
Branch #321
2006 West 1500 South
Salt Lake City, UT 84104
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