

# STANLEY®

## RAILWAY TOOLS

## Selection, Innovation, Performance

Your One-Stop Shop  
for Railway Tools  
and Attachments





# COMPANY OVERVIEW



## GREAT BRAND, GREAT TOOLS

STANLEY has a proud tradition of being a global leader in the development of a wide range of innovative hydraulic products used in a variety of industries and applications throughout the world. We at Stanley are dedicated to providing our customers with innovative customer-driven product designs, world class quality, unmatched product support, and superior value.

## GLOBAL REPRESENTATION

STANLEY produces an extensive line of products for use in construction, demolition, scrap processing, recycling, utilities, municipalities, railroads, industry, landscaping, underwater, construction, and specialty trades. STANLEY Tools has sales offices and distributors throughout North America, Central America, South America, Europe, Asia, Australia, and the Middle East.

## OUR MISSION

STANLEY is committed to providing innovative solutions for infrastructure based applications.

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# SPIKE PULLER

## 34% LIGHTER\* AND BEST-IN-CLASS ERGONOMICS

STANLEY'S SPL31 Spike Driver offers a patented automatic pull cycle to reduce kickback and improve ease of use. Its 34%\* weight reduction directly reduces the physical demand / fatigue of the operator. The reduction also gives the operator improved control and ease of use. The SPL31 side carry handle offers portability and ergonomics when carrying the puller 100-200 ft. down the track. The SPL's side placement of the hose whips protects the couplers and whips from possible abuse and damage while still plumbing straight into the tool. 34% weight reduction, increased handle durability, best-in-class ergonomics and overall improved value.

\*COMPARED TO THE STANLEY SP48

### PERFORMANCE BENEFITS

#### Automatic Cycle

SPL31 offers a patented Automatic Pull Cycle to reduce kickback and improve ease of use for the user.

#### Weight Reduction

34%\*\* weight reduction directly reduces the physical demand/fatigue of the user. The reduction also gives the user improved control and ease of use.

\*\*Compared to the Stanley SP48

#### Carry Handle

The new SPL31 side carry handle offers portability, ease of use and ergonomics when carrying the puller 100-200 ft down the track.

#### Side Whips

The new SPL31 side carry handle offers portability, ease of use and ergonomics when carrying the puller 100-200 ft down the track.

### FEATURES

Redesigned handle for improved durability and ergonomics

New side carry handle for improved ease of use and ergonomics.

Industry-leading pulling force of 16,647 lbs.

Composite hydraulic cylinder for maximum strength and reduced weight.

New Engineered Seal Design for 60% increase in life.\*\*

Redesigned lower chute for decreased weight.

\*\*Compared to the Stanley SP48



| Model    | Description                                            | Handle Width         | Pulling Force       | Flow Rate            | Pressure                      | Weight  | Included Equipment      |
|----------|--------------------------------------------------------|----------------------|---------------------|----------------------|-------------------------------|---------|-------------------------|
| SPL31A   | SPIKE PULLER, LIGHTWEIGHT, AUTOMATIC CYCLE             | 16.25 IN. / 41.29 CM | 16647 LBS / 7550 KG | 5-10 GPM / 18-38 LPM | 2000 - 2500 PSI / 140-172 BAR | 36 LBS* | HOSE WHIPS AND COUPLERS |
| SPL31A-S | SPIKE PULLER, LIGHTWEIGHT, 2-STAGE CYCLE, TRIGGER LOCK | 16.25 IN. / 41.29 CM | 16647 LBS / 7550 KG | 5-10 GPM / 18-38 LPM | 2000 - 2500 PSI / 140-172 BAR | 36 LBS* | HOSE WHIPS AND COUPLERS |

\*Weight is without hose whips or couplers - with oil

### ACCESSORIES

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 82791    | GRIP JAW (QTY. 2 REQUIRED)                        |
| 82792    | "W" GRIP JAW CASTING (HAIR PIN - QTY. 2 REQUIRED) |

## TIE TAMPER Model TT46

The TT46 Tie Tamper's spring-dampened anti-vibration handle isolates the tool's vibration which reduces operator fatigue and increases productivity.

The feathering On/Off valve allows the operator to control the output energy of the tool, providing more control and ease of handling.

The TT46 Model has a spring-loaded bit keeper allows the bit to be backed out even when driven deeply into the ballast.



| Model   | Description                                           | Weight         | Length          | Hyd. Pressure      | Flow Rate       | Max Back Pressure | Blows Per Minute | Shank Size       |
|---------|-------------------------------------------------------|----------------|-----------------|--------------------|-----------------|-------------------|------------------|------------------|
| TT46233 | ANTI VIBRATION HANDLE TIE TAMPER, HEAVY DUTY (10 GPM) | 56 LBS / 25 KG | 56 IN. / 101 CM | 2000 PSI / 140 BAR | 10 GPM / 38 LPM | 200 PSI / 14 BAR  | 1500             | 7/8 X 2-9/16 IN. |

## ACCESSORIES

| Part No. | Description                                                                   | Part No. | Description                                          |
|----------|-------------------------------------------------------------------------------|----------|------------------------------------------------------|
| 59033    | TIE TAMPER STEEL - 4 IN. W/"V" CUT 21" OAL - ROUND - FITS TT46133 AND TT46233 | 69397    | FROST CHISEL - 2 X 24 IN. - FITS TT46133 AND TT46233 |
| 59034    | TIE TAMPER STEEL - 4 IN. W/"V" CUT 18" OAL - ROUND - FITS TT46133 AND TT46233 | 31254    | ACCUMULATOR CHARGING KIT                             |

## Spike Driver Model SD67

STANLEY'S SD67 Spike Driver provides a strong level of performance for the toughest applications. The anti-vibration handle and the two length options, helping to reduce operator fatigue.

## FEATURES

- Two length options are available which allow operator to stand in a fully-upright position for better comfort.
- 1300 Blow-Per-Minute design makes quick work of any spike being driven, even in the hardest ties.
- Feathering On/Off Valve allows the operator to control the output energy of the tool, providing more control and ease of handling.
- Diaphragm-Type Accumulator design provides for ease of maintenance and extended service life of the tool.



| Model   | Description                                   | Handle Width     | Cup Width        | Flow Range      | Pressure           | Weight           | Included Equipment              |
|---------|-----------------------------------------------|------------------|------------------|-----------------|--------------------|------------------|---------------------------------|
| SD67101 | ANTI-VIBRATION HANDLE, SHORT 28.75 IN / 73 CM | 18 IN. / 45.8 CM | 2.9 IN. / 7.4 CM | 10 GPM / 38 LPM | 2000 PSI / 140 BAR | 70 LBS / 31.8 KG | HOSE WHIPS, FLUSH-FACE COUPLERS |
| SD67141 | ANTI-VIBRATION HANDLE, LONG 32.25 IN / 82 CM  | 18 IN. / 45.8 CM | 2.9 IN. / 7.4 CM | 10 GPM / 38 LPM | 2000 PSI / 140 BAR | 70 LBS / 31.8 KG | HOSE WHIPS, FLUSH-FACE COUPLERS |

## ACCESSORIES

| Part No. | Description              |
|----------|--------------------------|
| 31254    | ACCUMULATOR CHARGING KIT |

# IMPACT WRENCHES

## IMPACT WRENCH Model IW12

STANLEY'S hydraulic impact wrenches are world renowned for their adjustable impact intensity settings allowing for a wide range of uses. The rugged design incorporates an integral motor and heavy-duty mechanism for the rigors of track maintenance use. The power-to-weight ratio of these products are un-matched by any impact wrench on the market in their class.

### FEATURES

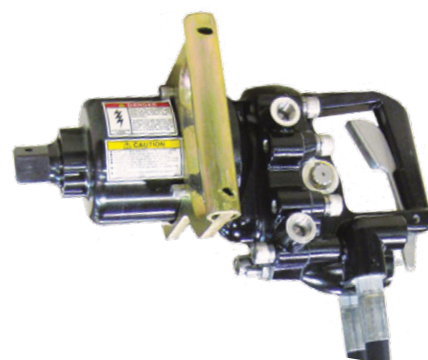
- Adjustable impact intensity.
- Swing-hammer design.
- Larger feathering trigger.
- Standard reversing valve.
- Handle coating transmits less heat.



## IMPACT WRENCH Model IW16

### FEATURES

- Adjustable impact intensity.
- Swing-hammer mechanism.
- Large "D" handle and feathering On/Off valve.
- Standard reversing valve.
- Available Extended Handle Mechanism.



| Model    | Description                     | Weight           | Length             | Hyd. Pressure              | Flow Rate                 | Torque                        |
|----------|---------------------------------|------------------|--------------------|----------------------------|---------------------------|-------------------------------|
| IW12140S | 3/4 IN. SQUARE DRIVE (STANDARD) | 18 LBS / 8 KG    | 9.5 IN. / 24 CM    | 1000-2000 PSI / 70-140 BAR | 5-10 GPM / 19-38 LPM      | 250-1200 FT LBS / 340-1632 NM |
| IW16150S | 1 IN. SQUARE DRIVE (CE)         | 26 LBS / 11.8 KG | 14.5 IN. / 36.8 CM | 1000-2000 PSI / 70-140 BAR | 10 GPM / 38 LPM (OPTIMAL) | 500-2500 FT LBS / 680-3400 NM |

## ACCESSORIES

| Part No. | Included Equipment               |
|----------|----------------------------------|
| 33276    | SOCKET RETAINER PIN              |
| 33277    | SOCKET RETAINER RING             |
| 31201    | ADAPTER - 1 IN. TO 3/4 IN. DRIVE |
| 31203    | 10 IN. EXTENSION - 1 IN. DRIVE   |
| 72768    | UPRIGHT HANDLE ASSY. KIT         |

SOCKET SET INCLUDES 6 SOCKETS:  
P/N 25211 - 1 IN. SQUARE DRIVE 8-POINT DEEP X 2-3/16 IN.  
P/N 25216 - 1 IN. SQUARE DRIVE 8-POINT DEEP X 1-5/8 IN.  
P/N 25217 - 1 IN. SQUARE DRIVE 8-POINT DEEP X 1-13/16 IN.  
P/N 25218 - 1 IN. SQUARE DRIVE 8-POINT DEEP X 1-11/16 IN.  
P/N 26456 - 1 IN. SQUARE DRIVE # 70 TORX  
P/N 27710 - 1 IN. SQUARE DRIVE 4-POINT X 1 IN.

33230

# IMPACT DRILLS

## DRILL Model DL07

The DL07 Drill is ideal for drilling holes in wood, metal and masonry. It features instant reverse for high reliability and efficiency in all types of drilling applications.

### FEATURES

- Hyrevz™ gear-type motor.
- Oversized feathering trigger.
- Increased operator comfort.
- Dual position Assist Handle.
- Built-in reverse flow check valve.
- Handle coating transmits less heat.



## IMPACT DRILL Model ID07

The ID07 Impact Drill/Wrench delivers impact torque of up to 500 ft lbs (675 Nm). It is capable of breaking loose some of the toughest bolts and nuts. The ID07 can drive wood augers into the hardest salt-cured or creosote-treated ties without reaction torque to the operator.



| Model    | Description                     | Weight         | Length            | Capacity              | Flow Rate            | Max Pressure       |
|----------|---------------------------------|----------------|-------------------|-----------------------|----------------------|--------------------|
| DL07552S | OC/CC DUAL SPOOL, 1/2 IN. CHUCK | 6 LBS / 2.7 KG | 9 IN. / 23 CM     | 1/2 IN. CHUCK / 12 MM | 5-10 GPM / 19-38 LPM | 2000 PSI / 140 BAR |
| DL07572S | DUAL SPOOL, 5/8 IN. CHUCK       | 6 LBS / 2.7 KG | 9 IN. / 23 CM     | 1/2 IN. CHUCK / 12 MM | 5-10 GPM / 19-38 LPM | 2000 PSI / 140 BAR |
| ID07810S | 7/16 IN. QUICK CHANGE CHUCK     | 7 LBS / 3.3 KG | 8.5 IN. / 21.6 CM | 7/16 IN. / 11 MM HEX  | 5-10 GPM / 19-38 LPM | 2000 PSI / 140 BAR |

### ACCESSORIES (DL07)

| Part No.                  | Description         |
|---------------------------|---------------------|
| AUGERS WITH 7/16 IN SHANK |                     |
| 81501                     | 9/16 X 12 X 17 IN.  |
| 81505                     | 13/16 X 12 X 17 IN. |
| 81453                     | 13/16 X 15 X 18 IN. |
| 81454                     | 15/16 X 15 X 18 IN. |

| Part No.                  | Description          |
|---------------------------|----------------------|
| AUGERS WITH 7/16 IN SHANK |                      |
| 81461                     | 9/16 X 24 X 29 IN.   |
| 81456                     | 11/16 X 21 X 24 IN.  |
| 81459                     | 1-1/16 X 21 X 24 IN. |
| 81463                     | 11/16 X 24 X 29 IN.  |

### ACCESSORIES (ID07)

| Part No. | Description                                      |
|----------|--------------------------------------------------|
| 05117    | ADAPTER, 7/16 IN. MALE HEX X 1/2 IN. MALE SQUARE |
| 07192    | ADAPTER, 1/2 IN. FEMALE SQUARE X 5/8 IN. HEX QC  |
| 33155    | LINEMAN'S SOCKET, 13/16 IN. AND 15/16 IN.        |
| 33156    | LINEMAN'S SOCKET, 1 IN. AND 1-1/8 IN.            |
| 73636    | ASSIST HANDLE                                    |

# RAIL DRILLS

## RAIL DRILL Model RD12

The lightweight and rugged STANLEY RD12 has extensive features that provide speed, reliability, and the lowest cost per hole drilled of any comparable rail drill on the market. With exclusive carbide tipped bits the RD12 easily drills both hardened and standard rail with the same tool. With an automatic bit feed, the elimination of clutches and gears, and an over center clamp, rail workers can get to working faster.

### FEATURES

- Lightweight aluminum construction.
- Preset integrated water flow control.
- Over-center clamp design.
- Tool rack for extra bits.
- Automatic water/coolant control valve.



NOTE: RAIL DRILLS DO NOT OPERATE WITHOUT BITS.

| Model | Description | Weight | Length | Water Capacity | Flow Rate | Max Pressure | Feed Rate per Revolution |
|-------|-------------|--------|--------|----------------|-----------|--------------|--------------------------|
|-------|-------------|--------|--------|----------------|-----------|--------------|--------------------------|

|         |                                |                    |                  |                        |                 |                    |                   |
|---------|--------------------------------|--------------------|------------------|------------------------|-----------------|--------------------|-------------------|
| RD12101 | RAIL DRILL WITH WATER TANK, CE | 58.5 LBS / 26.5 KG | 28 IN. / 71.1 CM | 2 GALLONS / 7.6 LITERS | 10 GPM / 38 LPM | 2000 PSI / 140 BAR | .013 IN. / .03 MM |
|---------|--------------------------------|--------------------|------------------|------------------------|-----------------|--------------------|-------------------|

INCLUDED EQUIPMENT: COUPLERS AND TORX DRIVER - DOES NOT INCLUDED BITS, INDEXABLE CARBIDE TIPS, TEMPLATES OR HOSE WHIPS - PLEASE ORDER THOSE SEPARATELY

|          |                                      |                    |                  |                        |                 |                    |                   |
|----------|--------------------------------------|--------------------|------------------|------------------------|-----------------|--------------------|-------------------|
| RD12101K | RAIL DRILL WITH WATER TANK, CE - KIT | 58.5 LBS / 26.5 KG | 28 IN. / 71.1 CM | 2 GALLONS / 7.6 LITERS | 10 GPM / 38 LPM | 2000 PSI / 140 BAR | .013 IN. / .03 MM |
|----------|--------------------------------------|--------------------|------------------|------------------------|-----------------|--------------------|-------------------|

INCLUDED EQUIPMENT: COUPLERS AND TORX DRIVER - 22625 GUIDE ASSEMBLY 115-140 LB. 3-1/2 IN X 6 IN. 6IN., 29461 DRILL BIT 1-5/16 IN., 29467 DRILL BIT 1-1/4 IN., 29468 DRILL BIT 1-3/8 IN., 29468 DRILL BI 1-1/8 IN., 32510 DRILL BIT 1-1/2 IN. TREPANNING, 31969 TEN PIECE CARBIDE INSERT KIT, 31984 SINGLE SIDED RAIL TEMPLATE SET - 90A, 31985 SINGLE SIDED RAIL TEMPLATE SET - 115/119 RE, 31986 SINGLE SIDED RAIL TEMPLATE SET 131/132/136 RE, 31987 SINGLE SIDED RAIL TEMPLATE SET 133 RE

### ACCESSORIES

| Part No.  | Description                     |
|-----------|---------------------------------|
| 29461     | DRILL BIT 1-5/16 IN.            |
| 29465     | DRILL BIT 1-3/8 IN.             |
| 32511     | DRILL BIT 1-7/16 IN. TREPANNING |
| 32510     | DRILL BIT 1-1/2 IN. TREPANNING  |
| 33331     | DRILL BIT 1-9/16 IN. TREPANNING |
| 67267     | DRILL BIT 1-5/8 IN.             |
| 31624     | DRILL BIT 32 MM                 |
| 29472     | DRILL BIT 33 MM                 |
| 31647     | DRILL BIT 36 MM                 |
| 31969     | TEN PIECE CARBIDE INSERT KIT    |
| TEMPLATES | CONTACT YOUR LOCAL REP.         |

| Part No. | Description          |
|----------|----------------------|
| 29471    | DRILL BIT 1 IN.      |
| 29470    | DRILL BIT 1-1/16 IN. |
| 29469    | DRILL BIT 1-1/8 IN.  |
| 29468    | DRILL BIT 1-3/16 IN. |
| 29467    | DRILL BIT 1-1/4 IN.  |



**RAIL DRILL** Model RD60

The STANLEY RD60 is a powerful cordless rail drill built to run on the DEWALT FLEXVOLT battery system. It's auto drill cycle means consistent hole quality and long bit life. It offers a high load, quick adjust rail clamp, and a simple push button interface to maximize precision and speed.

**FEATURES**

- Auto Feed Drill Cycle
- All Seasons Weather Protected
- Consistent Drilling Performance
- Intuitive Push-Button Interface
- Fast and Secure Over Center Clamp
- Rail Templates and Guide Backwards Compatible with RD12
- Toolless Bit Exchange
- Heavy Duty Brushless Motor
- 20% Reduced Weight from RD12



| Model | Description | Weight w/o Battery | Length | Coolant Capacity | Full Cycle Drill Time | Holes Per Charge*(12AH) |
|-------|-------------|--------------------|--------|------------------|-----------------------|-------------------------|
|-------|-------------|--------------------|--------|------------------|-----------------------|-------------------------|

|          |                            |                    |                  |                        |            |    |
|----------|----------------------------|--------------------|------------------|------------------------|------------|----|
| RD60-000 | RAIL DRILL WITH WATER TANK | 46.6 LBS / 21.1 KG | 28 IN. / 71.1 CM | 2 GALLONS / 7.6 LITERS | 54 SECONDS | 12 |
|----------|----------------------------|--------------------|------------------|------------------------|------------|----|

DOES NOT INCLUDED BITS, INDEXABLE CARBIDE TIPS, OR TEMPLATES - PLEASE ORDER THOSE SEPARATELY

|          |                                |                    |                  |                        |            |    |
|----------|--------------------------------|--------------------|------------------|------------------------|------------|----|
| RD60-010 | RAIL DRILL WITH WATER TANK KIT | 46.6 LBS / 21.1 KG | 28 IN. / 71.1 CM | 2 GALLONS / 7.6 LITERS | 54 SECONDS | 12 |
|----------|--------------------------------|--------------------|------------------|------------------------|------------|----|

INCLUDED EQUIPMENT: (2) 12AH DEWALT FLEXVOLT BATTERIES (DCB612), DEWALT FAST CHARGER (DCB1112), (2) CUTTING FLUID CONCENTRATE 1L (88274), COOLANT BOTTLE W/ HOSE (24774)

|          |                                |                    |                  |                        |            |    |
|----------|--------------------------------|--------------------|------------------|------------------------|------------|----|
| RD60-01K | RAIL DRILL WITH WATER TANK KIT | 46.6 LBS / 21.1 KG | 28 IN. / 71.1 CM | 2 GALLONS / 7.6 LITERS | 54 SECONDS | 12 |
|----------|--------------------------------|--------------------|------------------|------------------------|------------|----|

INCLUDED EQUIPMENT: (2) 12AH DEWALT FLEXVOLT BATTERIES (DCB612), DEWALT FAST CHARGER - 4 PORT (DCB104), (2) DRILL BIT PIN (88266), 1-5/16" RAIL DRILL BIT (88131), 1-1/8" RAIL DRILL BIT (88136), 1-1/4" RAIL DRILL BIT (88134), 1-3/16" RAIL DRILL BIT (88135), 115/119/131/132/136 RE RAIL TEMPLATE (88267), 115/119/133 RE RAIL TEMPLATE (88268), 100RE/90ARA-B RAIL TEMPLATE (88269), (2) CUTTING FLUID CONCENTRATE 1L (88274), COOLANT BOTTLE W HOSE (24774), JOINT BAR TEMPLATE (22625)

\*Number of holes per charge dependent on diameter of holes, size of rail, and battery capacity.

**ACCESSORIES**

| Part No. | Description               |
|----------|---------------------------|
| DCB612   | 12AH BATTERY              |
| DCB104   | 4-PORT CHARGER            |
| DCB1112  | 12 AMP FAST CHARGER       |
| 88274    | ECO CUTTING FLUID LITER   |
| 24774    | COOLANT BOTTLE W/HOSE     |
| 88138    | ANNULAR CUTTER 1 IN.      |
| 88137    | ANNULAR CUTTER 1-1/16 IN. |
| 88136    | ANNULAR CUTTER 1-1/8 IN.  |
| 88135    | ANNULAR CUTTER 1-3/16 IN. |
| 88134    | ANNULAR CUTTER 1-1/4 IN.  |

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 88131    | ANNULAR CUTTER 1-5/16 IN.                         |
| 88133    | ANNULAR CUTTER 1-3/8 IN.                          |
| 88132    | ANNULAR CUTTER 1-1/2 IN.                          |
| 88139    | ANNULAR CUTTER 32mm                               |
| 88266    | PILOT PIN                                         |
| 88267    | SET RAIL TEMPLATE 2 SIDED 115RE-119RE-131-132-136 |
| 88268    | SET RAIL TEMPLATE 2 SIDED 115RE-119RE-133RE       |
| 88269    | SET RAIL TEMPLATE 2 SIDED 100RE/90ARA-B           |
| 22625    | GUIDE ASSEMBLY 115-140LB                          |

# RAIL DRILL TEMPLATES

| Rail Size                                 | Template Sets: Double Sided (Single Sided)  | Guide Assy P/N: ING (mm) [inches] | Country   |
|-------------------------------------------|---------------------------------------------|-----------------------------------|-----------|
| 112TR                                     | ^(33721                                     | ^33687 [2 1/2 X 6 1/2 X 6 1/2]    | USA       |
| 113 HEAD FREE                             | ^(34598)                                    |                                   | USA       |
| "115 AREA RETARDER 3.484 FIXED ELEVATION" | (34882 FIXED) (34935 ADJ.)                  | 34912 FIXED / 34933 ADJ. [3 1/2]  | USA       |
| 115 AREA (11525) 2-7/8" ELEVATION         | 31979/31980/35105/^(35438 (31985)(62201 HD) | 22625 [3 1/2 X 6 X 6]             | USA       |
| "115 RE GUARD RAIL 3-1/32"" ELEVATION"    | ^(35153)                                    |                                   | USA       |
| 119 AREA (11922) 2-7/8" ELEVATION         | "31979/31980/35105/ (31985)(62201 HD)"      | 22625 [3 1/2 X 6 X 6]             | USA       |
| 122 C.B. & O.                             | ^34159(32279)                               | 22625 [3 1/2 X 6 X 6]             | USA       |
| 127 DUDLEY (12723)                        | ^34264                                      | 22625 [3 1/2 X 6 X 6]             | USA       |
| 129 TR                                    | ^(35003)                                    |                                   | USA       |
| ""130 AREA (13025)(3 1/16 ELEVATION)""    | ^(36048)                                    |                                   | USA       |
| 130 AREA HEAD FREE (3 1/16 ELEVATION)     | ^(41772)                                    |                                   | USA       |
| 130 AREA HEAD FREE (2 15/16 ELEVATION)    | ^(38579)                                    |                                   | USA       |
| 130 AREA HEAD FREE (2 3/4 ELEVATION)      | ^(38643)                                    |                                   | USA       |
| 130 PS (13031)                            | ^(34918)                                    |                                   | USA       |
| 131 RE (13128)                            | 31980/31981 / (31986)(62203 HD)             | ^33687 [2 1/2 X 6 1/2 X 6 1/2]    | USA       |
| 131 RE-M                                  | ^34264                                      | 22625 [3 1/2 X 6 X 6]             | USA       |
| ""131RE 3-1/4"" ELEVATION""               | ^(72502)                                    |                                   | USA       |
| 132 HEAD FREE                             | ^(34599)                                    |                                   | USA       |
| 132 AREA (13225)                          | 31980/31981 / (31986)(62203 HD)             | 22625 [3 1/2 X 6 X 6]             | USA       |
| 132 RE GUARD RAIL                         | ^(35155)                                    |                                   | USA       |
| 133 AREA (13331)                          | 31979 / 31981 / (31987)                     | 22625 [3 1/2 X 6 X 6]             | USA       |
| 136 AREA (13622) (STD. 3 3/32" ELEVATION) | 31980/31981 / (31986)(62203 HD)             | 22625 [3 1/2 X 6 X 6]             | USA       |
| 136 AREA (3" ELEVATION)                   | (44977)                                     | 44975 [2-23/32 X 6 X 7]           | USA       |
| 136 RE GUARD RAIL (3 9/32 ELEVATION)      | ^(35155)                                    |                                   | USA       |
| 136 RE STOCK RAIL (3 11/32 ELEVATION)     | (66945 HD)                                  |                                   | USA       |
| 136 LVH                                   | (62412)                                     |                                   | USA       |
| 136 LV (13633)                            | (65075)                                     |                                   | USA       |
| 140 AREA (14031)                          | 31978 / (31988)                             | 22625 [3 1/2 X 6 X 6]             | USA       |
| 141 AREA                                  | (43674) (65964 HD)                          | 22625 [3 1/2 X 6 X 6]             | USA       |
| 152 PS                                    | ^(43576)                                    |                                   | USA       |
| 155 PS                                    | ^(43578)                                    |                                   | USA       |
| 41 KG AS1085                              | ^(35353)                                    | 41773 (62 X 127 X 127)            | AUSTRALIA |
| 47 KG AS1085                              | ^(35353)                                    | 41773 (62 X 127 X 127)            | AUSTRALIA |
| 50 KG AS1085                              | ^(35351)                                    | 41774 (88 X 130 X 130)            | AUSTRALIA |
| 53 KG (107#) AS1085                       | ^(34185)                                    | 41774 (88 X 130 X 130)            | AUSTRALIA |
| 60 KG AS1085.1                            | ^(34187)                                    | 41774 (88 X 130 X 130)            | AUSTRALIA |
| TR-32 (SEE 65 ASCE)                       | ^(35975)                                    |                                   | BRAZIL    |
| TR-37 (SEE 75ASCE)                        | ^34262                                      | 22631 [2 11/16 X 5 1/2 X 5 1/2]   | BRAZIL    |
| TR-45 (SEE 90ARA-A)                       | ^34262                                      | 22631 [2 11/16 X 5 1/2 X 5 1/2]   | BRAZIL    |
| TR-50 (SEE 100RE)                         |                                             |                                   | BRAZIL    |
| TR-57 (SEE 115AREA)                       |                                             |                                   | BRAZIL    |

| Rail Size                              | Template Sets: Double Sided (Single Sided) | Guide Assy P/N: ING (mm) [inches] | Country |
|----------------------------------------|--------------------------------------------|-----------------------------------|---------|
| TR-68 (SEE 136AREA)                    |                                            |                                   | BRAZIL  |
| 50 KG N                                | 31975 (43583)                              | 29963 (77 X 130 X 130)            | CHINA   |
| 60 KG                                  | (69512)                                    | 69510 (76 X 140 X 140)            | CHINA   |
| 46 KG U 33                             | 31973                                      |                                   | FRANCE  |
| 50 KG U 50                             | 31974                                      | 29434 (60 X 170)                  | FRANCE  |
| LP48                                   | 31973                                      | 29435 (65 X 120 X 160)            | FRANCE  |
| 60 KG UIC                              | 31974                                      | 29434 (60 X 170)                  | FRANCE  |
| S49                                    | 31976 / (31982)                            | 31772 (46 X 165)                  | GERMANY |
| S54                                    | 31976 / (31982)                            | 31772 (46 X 165)                  | GERMANY |
| 60 KG UIC/UNI                          | 31976 / (31983)                            | 31772 (46 X 165)                  | GERMANY |
| 54 KG UIC                              | ^34261                                     |                                   | HOLLAND |
| NP46                                   | ^34261                                     |                                   | HOLLAND |
| I.R.S. 52KG                            | (66830)                                    | 66831 (80 X 166)                  | INDIA   |
| 60KG UIC                               | (31983)                                    | 66831 (80 X 166)                  | INDIA   |
| 36 KG U 33                             |                                            |                                   | ITALY   |
| 50 KG UNI **                           | 31976 / (31982)                            | 30675 (47 X 165)                  | ITALY   |
| 60 KG UIC/UNI                          | 31976 / (31983)                            | 30675 (47 X 165)                  | ITALY   |
| 60 KG                                  | 31975                                      | 29963 (77 X 130 X 130)            | JAPAN   |
| 50 KG N                                | 31975 (43583)                              | 29963 (77 X 130 X 130)            | JAPAN   |
| P50                                    | (66321 HD)                                 | 66324 (65 X 150 X 140)            | RUSSIA  |
| P65                                    | (66323 HD)                                 | 66326 (95 X 220)                  | RUSSIA  |
| 54KG UIC                               | ^34261                                     | ^32276 (58 X 170)                 | SPAIN   |
| 37 KG JIS/JRS                          | ^(43580)                                   | 44927 (60.5 X 127)                | TAIWAN  |
| 50 KG N                                | 31975 ^43583                               | 29963 (77 X 130 X 130)            | TAIWAN  |
| 60 KG UIC                              | 31976                                      | 31772 (46 X 165)                  | TAIWAN  |
| 87LB B.H.                              | ^(35251)                                   |                                   | UK      |
| 90LB B.H.                              | ^(35255)                                   | ^(35284) (60 X 114)               | UK      |
| 92LB F.B.                              | ^(35257)                                   | ^(35283) (54 X 114)               | UK      |
| 95LB F.B. MARK A                       | ^(35249)                                   |                                   | UK      |
| 95LB F.B. MARK B                       | ^(35470)                                   |                                   | UK      |
| BS 113A (54KG UIC) 65MM HOLE ELEVATION | 31977                                      | 31779 (60.32 X 127 X 203)         | UK      |
| 54KG UIC (BS 113A) 70MM HOLE ELEVATION | 34261                                      | 38889 (65 X 200)                  | UK      |
| UIC60 INSULATED                        | (71558)                                    | 71459 (62 X 170 X 170)            | UK      |
| CIE 50                                 | ^(39233)                                   | 39236 (57 X 120)                  | UK      |
| RILC/RILR                              | *(E32009)                                  |                                   | EUROPE  |
| RI60/RI60N                             | *(E32010)                                  |                                   | EUROPE  |
| PH37                                   | *(E32011)                                  |                                   | EUROPE  |



# RAIL SAW & TRACK JACK

## RAIL SAW Model RS25

STANLEY'S RS25 Rail Saw with its bell-crank style clamp design provides positive, rigid locking to all types of rail for quick and accurate setup. The ergonomical long saw arm is standard with the RS25 and allows the operator full use of the tool in a standing position.

The indexable swivel on the clamp arm and saw, allows cutting on both sides of the rail, eliminating the need to disconnect from and reconnect to the saw clamp.



| Model   | Description | Weight (with clamp) | Weight (without clamp) | Length without wheel | Flow Rate       | Max Pressure       | Spindle Speed: |
|---------|-------------|---------------------|------------------------|----------------------|-----------------|--------------------|----------------|
| RS25103 | 16 IN.      | 56 LBS / 25 KG      | 33 LBS / 15 KG         | 36 IN. / 92 CM       | 10 GPM / 38 LPM | 2000 PSI / 140 BAR | 4000 RPM       |

## ACCESSORIES

| Part No. | Description                          |
|----------|--------------------------------------|
| 22439    | 16 IN. CUT OFF WHEEL                 |
| 29745    | RAIL SAW BLADE                       |
| 34367    | UNIVERSAL BELL CRANK KIT             |
| 66138    | REPLACEMENT RAIL SAW CLAMP ASSEMBLY* |

\*Pairing Required to Saw

## TRACK JACK Model TJ12

The STANLEY TJ12 is one of the best track jacks available with an untouchable power to weight ratio. Built to last, the TJ12 has a 200% increased tool life compared to leading competitors. With a new carry handle, the track jack has improved ergonomics and is much easier to carry from job to job.

### FEATURES

- Narrow bridge model available.
- One piece forged base.
- Low pump handle effort.



74864 - SERVICE PUMP ASSEMBLY

| Part No. | Weight           | Length           | Base Width        | Lifting Capacity  | Description                                            | Amount of Travel per Pump | Stroke            | Lifting Capacity  |
|----------|------------------|------------------|-------------------|-------------------|--------------------------------------------------------|---------------------------|-------------------|-------------------|
| TJ12111S | 43 LBS / 19.5 KG | 11 IN. / 27.9 CM | 6 IN. / 15.2 CM   | 10 TONS / 9072 KG | TRACK JACK, INTEGRAL PUMP, HYDRAULIC JACK              | .16 IN. / .4 CM           | 8.8 IN. / 22.3 CM | 10 TONS / 9072 KG |
| TJ12112S | 43 LBS / 19.5 KG | 11 IN. / 27.9 CM | 4.5 IN. / 11.4 CM | 10 TONS / 9072 KG | TRACK JACK, INTEGRAL PUMP, HYDRAULIC JACK, NARROW BASE | .16 IN. / .4 CM           | 8.8 IN. / 22.3 CM | 10 TONS / 9072 KG |

## ACCESSORIES

| Part No. | Description           |
|----------|-----------------------|
| 52813    | PUMP HANDLE ASSEMBLY  |
| 74864    | SERVICE PUMP ASSEMBLY |

# WELD SHEAR

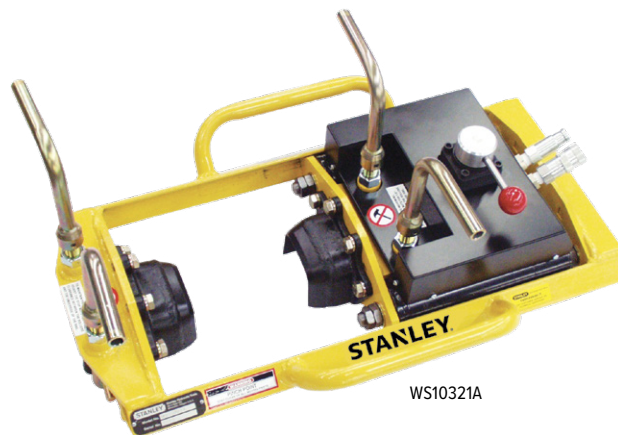
## WELD SHEAR Model WS10

STANLEY'S powerful yet light-weight Weld Shear is the ideal tool for shearing thermite welds with a shearing force of over 20,000 lbs (89,000 Nm). The WS10's efficient design allows welds to be sheared prior to dismantling the weld mold, decreasing the time to set up and increasing productivity.

The in-line pump handle eliminates rocking of the shear on the rail during shearing operation.

### FEATURES

- In-line handle.
- Controls placed away from shear for operator safety.
- 4 self-locking hold downs.
- Replaceable rollers.
- Includes blade set A, 27948



| Part No. | Weight         | Width              | Height          | Description            | Hydraulic Pressure         | Flow Range           | Shear force          |
|----------|----------------|--------------------|-----------------|------------------------|----------------------------|----------------------|----------------------|
| WS10321A | 90 LBS / 41 KG | 19.5 IN. / 49.5 CM | 12 IN / 30.4 CM | LIGHTWEIGHT WELD SHEAR | 1000-2000 PSI / 70-140 BAR | 3-10 GPM / 12-38 LPM | 20000 LBS / 89000 NM |

### ACCESSORIES

| Part No. | Description                                            |
|----------|--------------------------------------------------------|
| 27948    | BLADE SET A (105 - 155 LB / YD [47 - 70 KG / M] RAIL*) |
| 27989    | BLADE SET B (60 - 130 LB / YD [41 - 60 KG / M] RAIL*)  |
| 73394    | WELD SHEAR HOLD DOWN                                   |

# PROFILE GRINDERS

## PROFILE GRINDER Models PG10

### FEATURES

- Upright handle for ergonomic operation.
- Adjustable flange wheels ensure grinding accuracy.
- Interlocking, full length, bail type safety trigger.
- Removable wheel guard for easy access to the grinding wheel.
- Built-in speed control.



| Model   | Description                         | Wheel Capacity  | Arbor Size       | Optimum Flow    | Hydraulic Pressure: | Spindle Speed | Weight            | Included Equipment     |
|---------|-------------------------------------|-----------------|------------------|-----------------|---------------------|---------------|-------------------|------------------------|
| PG10110 | PROFILE GRINDER - LIGHTWEIGHT OC 6" | 6 IN. / 15 CM   | 5/8 IN. - 11     | 10 GPM / 38 LPM | 2000 PSI / 140 BAR  | 4000 RPM      | 118 LBS / 53.5 KG | COUPLERS, SHAFT WRENCH |
| PG05110 | LW PROFILE GRINDER                  | 44 IN. - 112 CM | 10.5 IN. (27 CM) | 10 GPM / 38 LPM | 2000 PSI / 140 BAR  | 4000 RPM      | 85 LBS / 41 KG    | SHAFT WRENCH           |

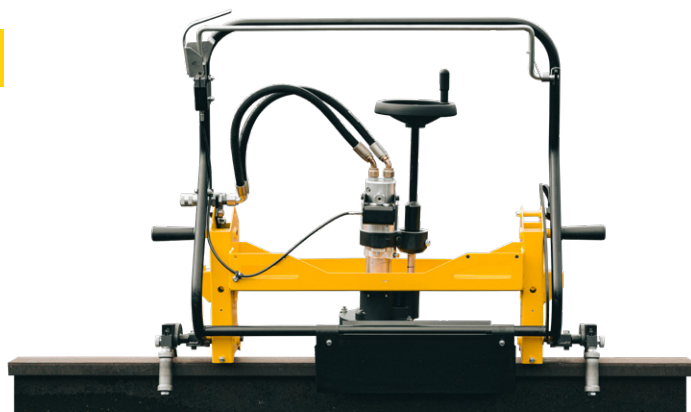
### ACCESSORIES

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 28597    | GRINDING STONE, 6 IN. DIA. X 3 IN. X 5/8-11 ARBOR |
| 25060    | SPARK GUARD                                       |

## PROFILE GRINDER Models PG11

### FEATURES

- Designed with built-in ergonomic functionality for an enhanced user experience, the PG11 features a one-handed clamp adjustment, better balance when carried, and a shaft lock for easy grindstone replacement.
- Designed to grind a wide range of rail from 90# to 140# with adjustable flange wheels to ensure grinding accuracy.
- Contains a hydraulic motor specifically designed to match power and RPM for grinding applications.
- Trigger Interlock prevents unintended start up, reducing risk of injury.
- Enhanced frame design eliminates interference with rail aligners.
- Removable stone guards enable swift switching between 4" and 6" guards and grinding stones.
- 40% improved visibility of the grind area compared to the PG05, a higher base frame with added windows allows for clear visibility of the work area, maximizing efficiency.
- Standard mechanical and hand carry lift points on every model.



| Model | Description                    | Wheel Capacity | Arbor Size   | Optimum Flow    | Max Hydraulic Pressure: | Spindle Speed | Weight         | Included Equipment              |
|-------|--------------------------------|----------------|--------------|-----------------|-------------------------|---------------|----------------|---------------------------------|
| PG11  | HYDRAULIC PROFILE GRINDER      | 6 IN. / 15 CM  | 5/8 IN. - 11 | 10 GPM / 38 LPM | 2500 PSI / 172 BAR      | 5500 RPM      | 91 LBS / 41 KG | STANDARD COUPLERS, STONE WRENCH |
| PG11B | HYDRAULIC PROFILE GRINDER BNSF | 6 IN. / 15 CM  | 5/8 IN. - 11 | 10 GPM / 38 LPM | 2500 PSI / 172 BAR      | 5500 RPM      | 91 LBS / 41 KG | AEROQUIP COUPLERS, STONE WRENCH |

### ACCESSORIES

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 28597    | GRINDING STONE, 6 IN. DIA. X 3 IN. X 5/8-11 ARBOR |
| 88617    | GRINDING STONE, 4 IN. DIA. X 3 IN. X 5/8-11 ARBOR |

| Part No. | Description             |
|----------|-------------------------|
| 88833    | PG60/PG11 STONE WRENCH  |
| 89518    | PG TO FG CONVERSION KIT |

## PROFILE GRINDERS

## BATTERY PROFILE GRINDER Models PG60

## FEATURES

- Designed with ergonomic functionality for an enhanced user experience. Featuring a one-handed clamp adjustment, better balance when carried, and a shaft lock for easy grinding stone replacement.
- Enhanced frame design eliminates interference with rail aligners.
- Removable, easy to change stone guards enable quick switching between 4" and 6" grindstones.
- Battery-powered brushless motor eliminates hose tripping hazard during use.
- 40% improved visibility of the grind area compared to the PG05, a higher base frame with added windows allows for clear visibility of the work area, maximizing efficiency.
- Mechanical lift points come as a standard feature, along with hand lift points that can be quickly attached.
- Safety interlock trigger system prevents unintended start-up.



| Model    | Description                       | Wheel Capacity | Arbor Size   | Battery Type          | Motor     | Spindle Speed | Weight         | Included Equipment                                                               |
|----------|-----------------------------------|----------------|--------------|-----------------------|-----------|---------------|----------------|----------------------------------------------------------------------------------|
| PG60-000 | CORDLESS PROFILE GRINDER BASE KIT | 6 IN. / 15 CM  | 5/8 IN. - 11 | 60V DEWALT® FLEXVOLT™ | BRUSHLESS | 4900 RPM      | 91 LBS / 41 KG | STONE WRENCH                                                                     |
| PG60-01K | CORDLESS PROFILE GRINDER FULL KIT | 6 IN. / 15 CM  | 5/8 IN. - 11 | 60V DEWALT® FLEXVOLT™ | BRUSHLESS | 4900 RPM      | 91 LBS / 41 KG | STONE WRENCH,<br>QTY (2) DCB612 12AH BATTERIES,<br>QTY (1) DCB104 4-PORT CHARGER |

## ACCESSORIES

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 28597    | GRINDING STONE, 6 IN. DIA. X 3 IN. X 5/8-11 ARBOR |
| 88617    | GRINDING STONE, 4 IN. DIA. X 3 IN. X 5/8-11 ARBOR |
| DCB612   | 20V/60V MAX FLEXVOLT 12 AH BATTERY                |
| DCB104   | FLEXVOLT 4 PORT QUICK CHARGER                     |

| Part No. | Description                         |
|----------|-------------------------------------|
| DCB1112  | FLEXVOLT 1 PORT 12 AMP FAST CHARGER |
| 88833    | PG60/PG11 STONE WRENCH              |
| 89518    | PG TO FG CONVERSION KIT             |



# FROG GRINDERS

## FROG GRINDER Models FG10

### FEATURES

- Upright handle for ergonomic operation.
- 3-position pivot at both ends allows for 3 separate grinding operations.
- Interlocking, full length, bail type safety trigger.
- Sealed height adjustment mechanism for infinite angle adjustment.
- Removable wheel guard for easy access to the grinding wheel.
- Built-in speed control.
- Extension for Grinding Frog Points.
- Spark Guard.



| Model   | Description  | Wheel Capacity | Arbor Size   | Optimum Flow    | Hydraulic Pressure | Spindle Speed | Weight         | Included Equipment                   |
|---------|--------------|----------------|--------------|-----------------|--------------------|---------------|----------------|--------------------------------------|
| FG10110 | FROG GRINDER | 6 IN. / 15 CM  | 5/8 IN. - 11 | 10 GPM / 38 LPM | 2000 PSI / 140 BAR | 4000 RPM      | 85 LBS / 41 KG | COUPLERS, EXTENSION ARM, SPARK GUARD |

### ACCESSORIES

| Part No. | Description              |
|----------|--------------------------|
| 28597    | 6 IN. CUP GRINDING STONE |
| 69772    | SPARK GUARD              |

## FROG GRINDER Models FG11

### FEATURES

- Designed with built-in ergonomic functionality for an enhanced user experience, the FG11 features a one-handed clamp adjustment, better balance when carried, and a shaft lock for easy grindstone replacement.
- Contains a hydraulic motor specifically designed to match power and RPM for grinding applications.
- Trigger Interlock prevents unintended start up, reducing risk of injury.
- Enhanced frame design eliminates interference with rail aligners.
- Removable stone guards enable swift switching between 4" and 6" guards and grinding stones.
- 40% improved visibility of the grind area compared to the FG10, a higher base frame with added windows allows for clear visibility of the work area, maximizing efficiency.
- Standard mechanical and hand carry lift points on every model.



| Model | Description                 | Wheel Capacity | Arbor Size   | Optimum Flow    | Max Hydraulic Pressure: | Spindle Speed | Weight w/o Arm | Included Equipment              |
|-------|-----------------------------|----------------|--------------|-----------------|-------------------------|---------------|----------------|---------------------------------|
| FG11  | HYDRAULIC FROG GRINDER      | 4 IN. / 10 CM  | 5/8 IN. - 11 | 10 GPM / 38 LPM | 2500 PSI / 172 BAR      | 5500 RPM      | 94 LBS / 43 KG | STANDARD COUPLERS, STONE GUARD  |
| FG11B | HYDRAULIC FROG GRINDER BNSF | 4 IN. / 10 CM  | 5/8 IN. - 11 | 10 GPM / 38 LPM | 2500 PSI / 172 BAR      | 5500 RPM      | 94 LBS / 43 KG | AEROQUIP COUPLERS, STONE WRENCH |

### ACCESSORIES

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 88617    | GRINDING STONE, 4 IN. DIA. X 3 IN. X 5/8-11 ARBOR |
| 88329    | FG60/FG11 FROG ARM ASSEMBLY                       |
| 89651    | FG60/FG11 ARM WEDGE SET                           |

## FROG GRINDERS

## BATTERY FROG GRINDER Models FG60

## FEATURES

- Designed with built-in ergonomic functionality for an enhanced user experience, the FG60 features a one-handed clamp adjustment, better balance when carried, and a shaft lock for easy grindstone replacement.
- Trigger Interlock prevents unintended start up, reducing risk of injury.
- Enhanced frame design eliminates interference with rail aligners.
- Removable, easy to change stone guards enable quick switching between 4" and 6" grindstones.
- Battery-powered brushless motor eliminates hose tripping hazard during use.
- 40% improved visibility of the grind area compared to the FG10, a higher base frame with added windows allows for clear visibility of the work area, maximizing efficiency.
- Standard mechanical and hand carry lift points on every model.



| Model    | Description                    | Wheel Capacity | Arbor Size   | Battery Type         | Motor     | Spindle Speed | Weight w/o Arm | Included Equipment                                                              |
|----------|--------------------------------|----------------|--------------|----------------------|-----------|---------------|----------------|---------------------------------------------------------------------------------|
| FG60-000 | CORDLESS FROG GRINDER BASE KIT | 4 IN. / 10 CM  | 5/8 IN. - 11 | 60V DEWALT® FLEXVOLT | BRUSHLESS | 4900 RPM      | 94 LBS / 43 KG | STONE GUARD                                                                     |
| FG60-01K | CORDLESS FROG GRINDER FULL KIT | 4 IN. / 10 CM  | 5/8 IN. - 11 | 60V DEWALT® FLEXVOLT | BRUSHLESS | 4900 RPM      | 94 LBS / 43 KG | STONE GUARD,<br>QTY (2) DCB612 12AH BATTERIES,<br>QTY (1) DCB104 4-PORT CHARGER |

## ACCESSORIES

| Part No. | Description                                       |
|----------|---------------------------------------------------|
| 88617    | GRINDING STONE, 4 IN. DIA. X 3 IN. X 5/8-11 ARBOR |
| 88329    | FG60/FG11 FROG ARM ASSEMBLY                       |
| 89651    | FG60/FG11 ARM WEDGE SET                           |

| Part No. | Description                         |
|----------|-------------------------------------|
| DCB612   | 20V/60V MAX FLEXVOLT 12 AH BATTE    |
| DCB104   | FLEXVOLT 4 PORT QUICK CHARGER       |
| DCB1112  | FLEXVOLT 1 PORT 12 AMP FAST CHARGER |

# GRINDERS

## HAND HELD GRINDERS Model HGL61, HGL80, HGL81, GR60



HGL80



HGL81



HGL61



GR60

### FEATURES: HGL80, HGL81 and HGL61

- 12% weight reduction over the HG80 providing the industry's lightest hydraulic hand held grinders.
- High performance hydraulic motors providing industry leading grinding speed and power.
- Redesigned handle eliminates the hydraulic oil from the handle, improves tool balance and user comfort.
- New long and short rear handle options improve user ergonomics.
- New adjustable front handle for improved control and ergonomics.
- New trigger interlock improves tool durability and ease of use.
- Durable grip coating on front and rear handles provides a solid grip in the toughest conditions.
- New oversized shaft interlock for ease of use during wheel changes.
- A built-in flow control valve prevents the chance of excessive spindle speed and also protects the motor, resulting in increased tool life.

| Model    | Description                                    | Motor Rotation    | Weight   | Length    | Width    | RPM  | Pressure Range | Flow Rate |
|----------|------------------------------------------------|-------------------|----------|-----------|----------|------|----------------|-----------|
| GR60121S | 6 IN. GRINDER W/<br>COUNTER-CLOCKWISE ROTATION | COUNTER CLOCKWISE | 20 LBS   | 18 IN.    | 10.5 IN. | 4000 | 2000 PSI       | 10 GPM    |
| HGL61    | STANDARD BULL NOSE GRINDER                     | COUNTER CLOCKWISE | 9.6 LBS  | 19 IN.    | 10 IN.   | 5500 | 2000-2500 PSI  | 10 GPM    |
| HGL80    | 1 X 8 IN. GRINDER                              | CLOCKWISE         | 13.6 LBS | 23.35 IN. | 12 IN.   | 5500 | 2000-2500 PSI  | 10 GPM    |
| HGL80-L  | 1 X 8 IN. GRINDER                              | COUNTER CLOCKWISE | 13.6 LBS | 23.25 IN. | 12 IN.   | 5500 | 2000-2500 PSI  | 10 GPM    |
| HGL81    | 1 X 8 IN. GRINDER                              | CLOCKWISE         | 13.6 LBS | 19 IN.    | 12 IN.   | 5500 | 2000-2500 PSI  | 10 GPM    |
| HGL81-L  | 1 X 8 IN. GRINDER                              | COUNTER CLOCKWISE | 13.6 LBS | 19 IN.    | 12 IN.   | 5500 | 2000-2500 PSI  | 10 GPM    |

### ACCESSORIES

| Model | Part Number | Description                         |
|-------|-------------|-------------------------------------|
| HGL61 | 30872       | BULL NOSE GRINDER STONE             |
| HGL80 | 28598       | 1 X 8 IN. HORIZONTAL GRINDING STONE |
| GR60  | 28597       | 6 IN. CUP GRINDING STONE            |

## POST PULLER Model PP10

The PP10 is designed to remove flanged type sign posts and irregularly shaped posts up to 8 in / 20 cm wide. It features an 8 in / 203 cm stroke and pulling force of 9800 lbs / 4450 kg. The PP10 uses two methods to solve post pulling problems. For flanged posts, the PP10 uses gripper jaws to grasp the flange. For many other posts, a chain is used. Pins on the end of the chain may be inserted into holes in perforated posts to keep the chain from sliding. A control valve is located on the tool. The PP10 is furnished with gripper jaws, chain with pins, and flush face quick disconnect couplers.



| Model.  | Weight         | Length         | Width          | Flow Rate            | Working Pressure           | Full Relief Setting | Capacity           |
|---------|----------------|----------------|----------------|----------------------|----------------------------|---------------------|--------------------|
| PP10100 | 70 LBS / 32 KG | 13 IN. / 32 CM | 14 IN. / 35 CM | 5-10 GPM / 19-38 LPM | 1000-2000 PSI / 70-140 BAR | 2250 PSI / 155 BAR  | 8 IN. / 20 CM POST |

## POST DRIVER Model PD45

The PD45 features dual guiding handles, a lifting eye and remote or integral On/Off Valve. Models with integral triggers run the full length of the handles and are spring loaded to the OFF position. A model is available to drive DOT required breakaway posts to within 4 inches / 100 mm above ground level. All PD45 models are furnished with flush faced quick disconnect couplers.



| Model    | Weight         | Length         | Width          | Flow Rate       | Working Pressure           | Full Relief Setting | Capacity                                   | Misc.                             |
|----------|----------------|----------------|----------------|-----------------|----------------------------|---------------------|--------------------------------------------|-----------------------------------|
| PD45131  | 65 LBS / 29 KG | 30 IN. / 76 CM | 10 IN. / 25 CM | 10 GPM / 38 LPM | 1000-2000 PSI / 70-140 BAR | 2250 PSI / 155 BAR  | U-CHANNEL, DELINEATOR, SQUARE & ROUND POST | IN-LINE VALVE                     |
| PD45132  | 67 LBS / 30 KG | 30 IN. / 76 CM | 10 IN. / 25 CM | 10 GPM / 38 LPM | 1000-2000 PSI / 70-140 BAR | 2250 PSI / 155 BAR  | U-CHANNEL, DELINEATOR, SQUARE & ROUND POST | VALVE IN HANDLE                   |
| PD45132G | 67 LBS / 30 KG | 30 IN. / 76 CM | 10 IN. / 25 CM | 10 GPM / 38 LPM | 1000-2000 PSI / 70-140 BAR | 2250 PSI / 155 BAR  | U-CHANNEL, DELINEATOR, SQUARE & ROUND POST | VALVE IN HANDLE<br>EXTENDED ANVIL |

## ACCESSORIES

| Part No. | Description                     | Part No. | Description                    |
|----------|---------------------------------|----------|--------------------------------|
| 15184    | ADAPTER - 1-3/4 IN. SQUARE POST | 15187    | ADAPTER - 2 IN. SQ. POST       |
| 15185    | ADAPTER - 2 IN. ROUND POST      | 67784    | ADAPTER - 1-3/4 IN. ROUND POST |
| 15186    | ADAPTER - 2-1/4 IN. SQ. POST    |          |                                |

## BRAZE UNITS

**ECONNECT** The New Generation of Pin Brazing Units

- Lightweight - 21.6 lbs - 60% Lighter.
- 20% lower energy consumption.
- Green - lead free battery.
- Battery with nano technology.
- Fully charged in 2 - 3 hours.
- Increased efficiency per charge.
- High capacity - 50 brazings per charge - 25% increase.
- Prepared for SafeBond® 1.
- Built in heater.

**EPX10K36110**

| Part No. | Description                    | Quantity |
|----------|--------------------------------|----------|
| DCG426M2 | 20V MAX VAR SP DIE GRINDER KIT | 1        |
| 72970    | ECONNECT UNIT                  | 1        |
| 72971    | S-15 AUTOMATIC BRAZING GUN     | 1        |
| 72972    | CHARGER 36V/110V ECONNECT      | 1        |
| 72973    | CARRYING STRAP                 | 1        |
| 72974    | CARRYING CASE                  | 1        |
| 73358    | CARBIDE BURR SF-5              | 1        |

**EPX10KP36110**

| Part No. | Description                    | Quantity |
|----------|--------------------------------|----------|
| DCG426M2 | 20V MAX VAR SP DIE GRINDER KIT | 1        |
| 35832    | CERAMIC RING 8MM               | 100      |
| 35835    | BRAZING PIN 8MM                | 100      |
| 39242    | 3/16 BOND CRIMPABLE SLEEVE     | 100      |
| 72970    | ECONNECT UNIT                  | 1        |
| 72971    | S-15 AUTOMATIC BRAZING GUN     | 1        |
| 72972    | CHARGER 36V/110V ECONNECT      | 1        |
| 72973    | CARRYING STRAP                 | 1        |
| 72974    | CARRYING CASE                  | 1        |
| 73157    | ECONNECT USER MANUAL           | 1        |
| 73358    | CARBIDE BURR SF-5              | 1        |

**EP30** Medium Duty Pin Brazing Unit

- Low Transition Resistance - Only 5 microhms / brazed joint (0.000005 ohm).
- High Mechanical Strength - Binding strength 71,000 psi, shear strength 35,550 psi, maximum load 5,000 N.
- Low Brazing Temperature - Braze material melts at 1227 degrees F / 650 degrees C.
- Very Quick Method - A braze takes about 2 seconds, a bond with 2 brazings plus grinding takes less than 2 minutes.
- Easy to use.
- Works in all weather conditions.



EP30200

**EP30K110**

| Part No. | Description                    | Quantity |
|----------|--------------------------------|----------|
| BG10100  | PIN BRAZING GUN                | 1        |
| EP30200  | MEDIUM DUTY ELEC. PIN BRAZING  | 1        |
| DCG426M2 | 20V MAX VAR SP DIE GRINDER KIT | 1        |
| 35866    | BATTERY CHARGER                | 1        |
| 40409    | BATTERY 16AMP 12V              | 3        |
| 72776    | NON-SPILLABLE BATTERY LABEL    | 1        |
| 73358    | CARBIDE BURR SF-5              | 1        |

**EP30K12110**

| Part No. | Description                            | Quantity |
|----------|----------------------------------------|----------|
| BG10100  | PIN BRAZING GUN                        | 1        |
| EP30200  | MEDIUM DUTY ELEC. PIN BRAZING          | 1        |
| DCG426M2 | 20V MAX VAR SP DIE GRINDER KIT         | 1        |
| 35818    | EXTENSION CABLE FOR S4 PISTOL          | 1        |
| 35819    | EXTENSION CABLE FOR EARTH 5M           | 1        |
| 35866    | BATTERY CHARGER                        | 1        |
| 40409    | BATTERY 16AMP 12V                      | 3        |
| 84936    | INVERTER, 1000 WATTS / 2000 PEAK WATTS | 1        |
| 72776    | NON-SPILLABLE BATTERY LABEL            | 1        |
| 72974    | CARRYING CASE                          | 1        |
| 73358    | CARBIDE BURR SF-5                      | 1        |



| Part Number                                                             | Description                                                                         |                                                                                                               | Part Number                                                      | Description                                                                           |                                                  |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------|
| 73358                                                                   |    | CARBIDE BURR                                                                                                  | 35830                                                            |    | RING HOLDER 8 & 9.5 MM RINGS                     |
| 35835                                                                   |    | BRAZING PIN, 8 MM                                                                                             | 35826                                                            |    | PIN HOLDER 8 & 9.5 MM                            |
| 39705 - 16 IN. LONG<br>39244 - 7-7/8 IN. LONG<br>35844 - 5-3/4 IN. LONG |    | CONTACT HEAD BOND - WITH<br>7 MM OR .276 IN. DIAMETER                                                         | BG10100                                                          |    | PIN BRAZING GUN<br>(INCLUDES CABLE)              |
| 41226 - 46 IN. LONG<br>41225 - 34 IN. LONG                              |  | SWITCH BOND                                                                                                   | 67122                                                            |  | WIRE CLIP (SECURES SIGNAL<br>WIRE TO RAIL)       |
| 40366                                                                   |  | EXTENSION BOND -<br>12 IN LONG                                                                                | 35857                                                            |  | COPPER PLATE WITH<br>M8 X 18 BRASS THREADED STUD |
| 39242 - 4-1/4 IN. LONG<br>41635 - 24 IN. LONG                           |  | WEB TYPE TRACK<br>CONNECTION WITH 7 MM<br>OR .276 IN DIAMETER<br>(CRIMPABLE SLEEVE IS 3/16<br>IN IN DIAMETER) | DCG426M2                                                         |  | CORDLESS DIE GRINDER,<br>BATTERY AND CHARGER     |
| 40366                                                                   |  | SIGNAL EXTENSION BOND -<br>6-3/4 IN. LONG                                                                     | CONTACT STANLEY HYDRAULIC TOOLS FOR COMPLETE LIST OF ACCESSORIES |                                                                                       |                                                  |
| 35832 - 8 MM<br>35834 - 12 MM                                           |  | CERAMIC RING FOR USE<br>WITH EACH BRAZING PIN                                                                 |                                                                  |                                                                                       |                                                  |

# TRACHORSE

## TRACHORSE Model MHP3

The TracHorse is an all-terrain, self-propelled mobile hydraulic tool and equipment carrier that allows transportation of tools and equipment in most job site environments. Simple operating controls allow for maneuvering in a wide range of applications. The auxiliary hydraulic tool circuit is designed for continuous-duty applications and features the standard high-efficiency cooling found on all STANLEY hydraulic power units.

### FEATURES

- Self-Propelled - Mobile hydraulic tool and equipment carrier that transports tools and equipment in most job-site environments.
- Simple Operating Controls - Allows for a wide range of applications.
- Two Speed Track Drive.
- Work Lights.
- Opening Tailgate.
- Auxiliary Hydraulic Tool Circuit - Is designed for continuous-duty applications and features the standard high-efficiency cooling found on all Stanley hydraulic power units.
- Climbs 60% grade.
- Carries 1,000 lbs / 454 kg.



### ACCESSORIES

| Model       | Description                |
|-------------|----------------------------|
| MHP32242100 | TWIN CIRCUIT, HONDA ENGINE |

| Part No. | Description              |
|----------|--------------------------|
| 68358    | LIFTING SLING            |
| 71044    | LIFTING SLING BOX        |
| 35907    | HOSE REEL ATTACHMENT KIT |
| 71095    | HOSE REEL ASSY AEROUIP   |
| 69529    | HOSE REEL ASSEMBLY       |



# HANDHELD BREAKER

## LIGHT & MEDIUM DUTY BREAKER Model BR45

Nothing equals the impact force of hydraulic-powered breakers. With the best power-to-weight ratio, higher blow energy, and a lower noise level than pneumatic breakers, our hydraulic percussion tools are simply the best choice. Internal components are continually bathed in hydraulic oil, providing long-lasting performance with minimal maintenance requirements. And because the hydraulic system is totally enclosed, there's no tool exhaust or oil atomization often found with gas-powered or pneumatic alternatives.

### SPECIFICATIONS

Application: Light concrete or asphalt breaking or scoring, small rock breaking, rod driving, tamping.

Width at Handles: 17.5 in. / 44 cm

Connection: 3/8 in. flush face quick disconnect couplers

### FEATURES

- Versatile - lightweight and powerful hand-held tool presents countless MOW solutions.
- Ease of use - maintained with the anti-vibration handles to absorb the impact energy from the tool during operation.
- Control valve features a feathering on/off for precise control of the output energy.
- Designed for light to medium duty applications.
- Water-resistant provides more flexibility in all weather conditions.
- Bit locking system retains the tool bit from loosening or detaching from the tool during operation.
- Leg guard provides greater control and comfort.
- Cold weather operation hydraulics will not freeze in cold conditions.
- No exhaust - hydraulic percussion tools are a closed circuit system, improving the work condition and comfort.



| Model   | Description                                                           | Weight         | Length                     | Hyd. Pressure               | Flow Rate       | Full Relief Setting | Bit Size                    |
|---------|-----------------------------------------------------------------------|----------------|----------------------------|-----------------------------|-----------------|---------------------|-----------------------------|
| BR45158 | ANTI-VIBRATION PERCUSSION TOOL KIT, 28 IN. OVERALL LENGTH WITHOUT BIT | 55 LBS / 25 KG | 28 IN. / 71 CM WITHOUT BIT | 1500-2000 PSI / 105-140 BAR | 10 GPM / 38 LPM | 2250 PSI / 155 BAR  | 1 IN. HEX x 4-1/4 IN. SHANK |

### ACCESSORIES

| Part No. | Description                   |
|----------|-------------------------------|
| 29431    | TAMPING BIT, 5 IN.            |
| 38709    | SPIKE DRIVER BIT              |
| 208001   | DEAD HEAD SPIKE DRIVER, 5 IN. |
| 07702    | MOIL POINT                    |
| 07704    | CHISEL                        |
| 31254    | ACCUMULATOR CHARGING KIT      |



TAMPING BIT



SPIKE DRIVER



DEAD HEAD SPIKE DRIVER

# POWER UNITS

## POWER UNITS Model HP210

The Hydraulic power to operate STANLEY'S line of hydraulic railroad tools compact design is ideal for all your on-site hydraulic power needs. The ultra efficient hydraulic tool circuit cooling provides comfortable tool operation even in the most demanding environments.

### FEATURES

- Compact and lightweight.
- In-tank hydraulic filtration.
- Pressurized engine oil lubrication.



| Model | Part No. | Weight           | Length         | Width          | Height         | Engine | Output Flow                                                                                          | Pressure           | Misc.                            |
|-------|----------|------------------|----------------|----------------|----------------|--------|------------------------------------------------------------------------------------------------------|--------------------|----------------------------------|
| HP210 | HP210B   | 330 LBS / 150 KG | 35 IN. / 90 CM | 23 IN. / 59 CM | 29 IN. / 74 CM | BRIGGS | SINGLE CIRCUIT (1EA) 5GPM/20LPM OR DUAL CIRCUIT (2EA) 5GPM/20LPM OR SINGLE CIRCUIT (1EA) 10GPM/40LPM | 2000 PSI / 140 BAR | INCLUDES WHEELS AND LIFT HANDLES |
|       | HP210BK  | 330 LBS / 150 KG | 35 IN. / 90 CM | 23 IN. / 59 CM | 29 IN. / 74 CM | BRIGGS | SINGLE CIRCUIT (1EA) 5GPM/20LPM OR DUAL CIRCUIT (2EA) 5GPM/20LPM OR SINGLE CIRCUIT (1EA) 10GPM/40LPM | 2000 PSI / 140 BAR | SKID MOUNT                       |

## POWER UNITS Model HP28

The HP28 (TWIN8) twin circuit hydraulic power unit offers a revolutionary design capable of operating two tools at 8 gpm simultaneously. For the first time running two hydraulic tools at full 8 gpm capacity is a reality, increasing productivity and versatility like never before. Experience how the HP28 will change the way hydraulic tools are used.



| Part No. | Weight           | Length             | Description                                                                               | Capacity                                | Pressure           | Engine                  | Connection                                  |
|----------|------------------|--------------------|-------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|-------------------------|---------------------------------------------|
| HP28B02  | 360 LBS / 163 KG | 37.5 IN. / 95.3 CM | HEAVY-DUTY CONTINUOUS USE HYDRAULIC POWER SUPPLY FOR UP TO 2 TOOLS BOTH TYPE 1 AND TYPE 2 | 2 EACH 5 OR 8 GPM / 2 EACH 20 OR 30 LPM | 2000 PSI / 140 BAR | BRIGGS & STRATTON 27 HP | 3/8 IN FLUSH FACE QUICK DISCONNECT COUPLERS |

### ACCESSORIES

| Part No. | Description                                   |
|----------|-----------------------------------------------|
| 31848    | 50 FT HOSE ASSEMBLY                           |
| 31972    | 25 FT HOSE ASSEMBLY                           |
| 04182    | FLOW AND PRESSURE TESTER                      |
| 58633    | 25FT BONDED HOSE ASSEMBLY (INCLUDES COUPLERS) |
| 58634    | 50FT BONDED HOSE ASSEMBLY (INCLUDES COUPLERS) |

# ACCESSORIES

### HYDRAULIC VALVES & FLOW CONTROLS

| Part No. | Description                                  |
|----------|----------------------------------------------|
| 26542    | 9 GPM FLOW CONTROL, BRAND HYDRAULICS, C-50-9 |
| 72264    | IN-LINE VALVE, OC/CC                         |

| Part No. | Description          |
|----------|----------------------|
| 67259    | CHECK VALVE ASSEMBLY |
| 67005    | TOOL EXCHANGE VALVE  |

### HYDRAULIC HOSES

| Part No. | Description                                                               |
|----------|---------------------------------------------------------------------------|
| 01412    | PIGTAIL HOSE WHIP, 3/8 IN. ID X 12 IN., 3/8 IN. MALE PIPE, -6 SAE O-RING. |
| 01652    | PIGTAIL HOSE WHIP, 1/2 IN. ID X 12 IN., 3/8 IN. MALE PIPE, -8 SAE O-RING  |
| 31848    | 50 FT. X 1/2 IN. ID WIRE BRAID, DUAL HOSE WITH COUPLERS                   |
| 31972    | 25 FT. X 1/2 IN. ID WIRE BRAID, DUAL HOSE WITH COUPLERS                   |
| 44931    | RUBBER HOSE, NON-CONDUCTIVE, 3/8 IN. X 8 FT                               |
| 47318    | RUBBER HOSE, NON-CONDUCTIVE, 3/8 IN. X 10 FT                              |
| 56797    | RUBBER HOSE SET, NON-CONDUCTIVE, 3/8 IN. X 10 FT, W/COUPLERS              |
| 65897    | RUBBER HOSE SET, NON-CONDUCTIVE, 3/8 IN. X 14 FT, W/O COUPLERS            |

| Part No. | Description                                                                   |
|----------|-------------------------------------------------------------------------------|
| 58633    | TWINNED HOSE, 1/2 IN. X 25 FT, WIRE BRAID, W/COUPLERS                         |
| 58634    | TWINNED HOSE, 1/2 IN. X 50 FT, WIRE BRAID, W/COUPLERS                         |
| 58973    | RUBBER HOSE SET, NON-CONDUCTIVE, 3/8 IN. X 8 FT, W/COUPLERS                   |
| 65617    | RUBBER HOSE SET, NON-CONDUCTIVE, 3/8 IN. X 10 FT, -8 MALE SAE X 3/8 NPTF MALE |
| 71170    | NON-CONDUCTIVE, TWIN-LINE BONDED COILED HOSE, 3/8 IN. NPT                     |

### QUICK DISCONNECT COUPLERS

| Part No. | Description                            |
|----------|----------------------------------------|
| 03288    | 3/8 CAP & PLUG FOR ALL FLUSH FACE SETS |
| 03971    | 3/8 PARKER FLUSH FACE SET (3/8 NPT)    |
| 03974    | PARKER FLUSH FACE SET (1/2 NPT)        |
| 02324    | 1/2 CAP & PLUG                         |

### PLUMBING

| Part No. | Description                           |
|----------|---------------------------------------|
| 00936    | ADAPTER, 1/2 SAE TO 3/8 IN. MALE PIPE |

### TEST EQUIPMENT

| Part No. | Description                  |
|----------|------------------------------|
| 02835    | ACCUMULATOR TESTER & CHARGER |
| 04182    | FLOW AND PRESSURE TESTER     |

| Part No. | Description                                     |
|----------|-------------------------------------------------|
| 29085    | FLOW & PRESSURE TESTER                          |
| 31254    | ACCUMULATOR CHARGING KIT (HAND HELD TOOLS ONLY) |



# CHAIN SAWS

## CHAIN SAW Model CS06

The CS06 Chain Saw offers the highest power-to-weight ratio of any chain saw on the market today. All models feature interlocking triggers, hand guards, low kick-back bars and chains.

Because hydraulic power doesn't require a flywheel to smooth power pulses, there is no chain coasting when the trigger is released. The CS06 pistol-grip chain saw is ideal for timber tie/sleepers.

### FEATURES

- Low kick-back.
- Wide variety of bar lengths.
- Operate from open or closed-center circuits.
- Highest power-to-weight ratio.
- Operates on both Type I and II hydraulic circuits.
- Underwater models available.
- No chain coasting.



| Model   | Description           | Weight                      | Length         | Capacity                       | Flow Rate            | Max Pressure               | Optimum Flow   |
|---------|-----------------------|-----------------------------|----------------|--------------------------------|----------------------|----------------------------|----------------|
| CS06630 | OC/CC, 20 IN. / 51 CM | 6.25 LBS / 2.8 KG (W/O BAR) | 14 IN. / 36 CM | 12, 15, 20 IN. / 30, 38, 51 CM | 5-10 GPM / 19-38 LPM | 1000-2000 PSI / 70-140 BAR | 8 GPM / 30 LPM |

## ACCESSORIES

| Part No. | Description                                  |
|----------|----------------------------------------------|
| 07642    | SAW CHAIN, 20 IN. / 51 CM BAR (325 IN PITCH) |
| 07639    | SAW BAR 20 IN.                               |
| 07629    | RIM SPROCKET, 7-TOOTH                        |

## CHAIN SAW Model CS28

### FEATURES

- Used for trimming and pruning large tree branches.
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews.
- Fiberglass pole handle.
- Hyrevz™ motor.
- Dual spool for operation on Open Center or Closed Center systems.
- Automatic chain oiling.



| Model   | Description           | Weight           | Length          | Cut Capacity   | Flow Range          |
|---------|-----------------------|------------------|-----------------|----------------|---------------------|
| CS28812 | POLE CHAIN SAW, OC/CC | 8.4 LBS / 3.8 KG | 75 IN. / 191 CM | 12 IN. / 30 CM | 7-9 GPM / 26-34 LPM |

## ACCESSORIES

| Part No. | Description                   |
|----------|-------------------------------|
| 05144    | CHAIN/BAR GUARD               |
| 07616    | SPROCKET SPLINE ADAPTER       |
| 07629    | RIM SPROCKET, .325P X 7 TOOTH |
| 12363    | FILE GUIDE                    |

| Part No. | Description              |
|----------|--------------------------|
| 08347    | 13 IN. SAW BAR           |
| 08348    | SAW CHAIN FOR 13 IN. BAR |
| 11464    | SCRECH                   |
| 33289    | CHAIN SAW FILE           |
| 11294    | FLAT FILE                |

# PADLOCKS

### PADLOCK MODELS 83-3 / 83-2 / 83-1

#### FEATURES

- Strong Powdered Metal Steel Body – Built up around cylinder for added protection against attack. Electroless nickel plated inside and out.
- Case hardened or stainless steel shackles offer maximum pull resistance.
- Pick resistant rotating disc cylinder is top loaded for protection against attack.
- Factory controlled high strength keys and blanks prevent unauthorized key duplication. For extra security, key is retained when lock is open.



| Model | Shackle Diameter | Shackle Material         | Body Width | Body Thickness | Body Height | Total Height | Shackle Clear |            | Wt. Lbs. |
|-------|------------------|--------------------------|------------|----------------|-------------|--------------|---------------|------------|----------|
|       |                  |                          |            |                |             |              | Vertical      | Horizontal |          |
| 80    | 9/16             | CASE POWDERED STEEL BODY | 2-3/4      | 1-13/32        | 2           | 4-7/16       | 1-7/8         | 1-1/4      | 1        |
| 81-1  | 9/16             | CASE HARDENED STEEL      | 2-3/4      | 1-13/32        | 2           | 4-7/16       | 1-7/8         | 1-1/4      | 1        |
| 83-1  | 3/8              | CASE HARDENED STEEL      | 1-7/8      | 1-1/8          | 1-7/8       | 3-3/8        | 1-1/8         | 3/16       | .88      |
| 83-2  | 3/8              | CASE HARDENED STEEL      | 1-7/8      | 1-1/8          | 1-7/8       | 4-1/4        | 2             | 3/16       | .97      |
| 83-3  | 3/8              | CASE HARDENED STEEL      | 1-7/8      | 1-1/8          | 1-7/8       | 5-1/4        | 3             | 3/16       | .99      |
| 83-4  | 3/8              | STAINLESS STEEL          | 1-7/8      | 1-1/8          | 1-7/8       | 3-3/8        | 1-1/8         | 3/16       | .88      |
| 83-5  | 3/8              | STAINLESS STEEL          | 1-7/8      | 1-1/8          | 1-7/8       | 4-1/4        | 2             | 3/16       | .97      |
| 83-6  | 3/8              | STAINLESS STEEL          | 1-7/8      | 1-1/8          | 1-7/8       | 5-1/4        | 3             | 3/16       | 1.0      |

MODEL 81 (5) DISC PADLOCKS AVAILABLE KEYED ALIKE (KA) OR KEYED DIFFERENT (KD).  
MODEL 83 (6) DISC PADLOCKS AVAILABLE KEYED ALIKE (KA) OR KEYED DIFFERENT (KD).  
NOTE: ALL DIMENSIONS IN INCHES.



**BATTERIES & CHARGERS**

| Part No. | Description                      |
|----------|----------------------------------|
| DCB115   | 120V AC CHARGER                  |
| DCB119   | 12V DC CHARGER                   |
| DCB104   | FLEXVOLT QUICK CHARGER - 4 PLACE |
| DCB118   | 20V/60V FAST CHARGER             |
| DCB1800B | PORTABLE POWER STATION           |
| DCB606   | FLEXVOLT BATTERY 6AH             |
| DCB609   | FLEXVOLT BATTERY 9AH             |
| DCB612   | FLEXVOLT BATTERY 12AH            |
| DCB205   | 5.0 AH LI-ION BATTERY            |



### Testing a Hydraulic System for Comparison to HTMA Recommendations

The objective of this test is to determine how your hydraulic system performance compares with HTMA (Hydraulic Tool Manufacturers Association) recommended hydraulic system performance.

To perform these tests, you will need a flow and pressure tester such as our P/N 04182 or P/N 29085 shown below and two thermometers (the P/N 29085 has a built-in thermometer).



STANLEY P/N 04182



STANLEY P/N 29085

### HTMA recommendations for a hydraulic system operating Type I hydraulic tools:

- 5 gpm  $\pm$  10% / .5 gpm at 2000 psi measured at the tool inlet.
- 200 psi or less return pressure at 5.5 gpm—pressure measured at the tool outlet.
- Limit system temperature to 140° F on the hottest expected day. Choosing 100° F as the hottest expected day's temperature, the hydraulic system must maintain a 40 degree temperature difference, air to oil. For example, if the ambient air temperature is 100° F, then the oil temperature should not exceed 140° F.
- To simulate tool-generated heat during operation, HTMA recommends using 3 hp, minimum. A reading of 1030 psi minimum at the flow and pressure tester will achieve the recommended 3 hp, minimum.

### HTMA recommendations for a hydraulic system operating Type II hydraulic tools:

- 8 gpm  $\pm$  10% / .8 gpm at 2000 psi measured at the tool inlet.
- 200 psi or less return pressure at 8.8 gpm, pressure measured at the tool outlet.
- Limit system temperature to 140° F on the hottest expected day. Choosing 100° F as the hottest expected day's temperature, the hydraulic system must maintain a 40 degree temperature difference, air to oil. For example, if the ambient air temperature is 100° F, then the oil temperature should not exceed 140° F.
- To simulate tool-generated heat during operation, HTMA recommends using 5 hp, minimum. A reading of 1100 psi minimum at 8 gpm at the flow and pressure tester will achieve the recommended 5 hp, minimum.

Select an open site where the air is relatively calm. Place one thermometer in the oil reservoir to measure the temperature of the circulating oil (surface mounted tank thermometers do not adequately measure the temperature of the bulk system oil). Hang the other thermometer in still air to measure the ambient air temperature.

Connect the flow and pressure tester to the tool hoses. Fully open the load valve on the tester.

Start up the system (with tool circuit control valve OFF) and warm the hydraulic fluid (if necessary) to a minimum of 50° F.

### Low temperature and maximum viscosity back pressure test

Turn ON the tool circuit control valve. Record oil temperature, ambient air temperature, flow rate, and back pressure.

Air: \_\_\_\_\_ ° F

Oil: \_\_\_\_\_ ° F

Flow rate: \_\_\_\_\_ gpm

Back pressure: \_\_\_\_\_ psi

### Hydraulic system's capacity to deliver flow against 2000 psi test

Close the load valve to where the pressure gage reads 2000 psi. Record flow rate, back pressure, and oil temperature.

Flow rate: \_\_\_\_\_ gpm

Back pressure: \_\_\_\_\_ psi

Oil: \_\_\_\_\_ ° F

### System capacity to control temperature test

Raise the system temperature to 140° F by adjusting the pressure using the load valve on the flow and pressure tester. If it takes more than 1900 psi to get the system temperature to 140° F, adjust the pressure to stabilize the system temperature at some lower temperature, e.g. 120° F.

When the system temperature has remained constant for about 15 minutes, record the flow rate, pressure, back pressure, oil temperature, and air temperature.

Flow rate: \_\_\_\_\_ gpm

Pressure: \_\_\_\_\_ psi

Back pressure: \_\_\_\_\_ psi

Air: \_\_\_\_\_ ° F

Oil: \_\_\_\_\_ ° F

### Calculate the tool load hp cooling capacity for an effective 40 degree temperature difference, air to oil using the following formula.

$$\frac{(\text{Pressure} - \text{Back pressure}) \times \text{gpm}}{43 \times (\text{Oil temperature} - \text{Air Temperature})} = \text{hp (horse power)}$$

# RAILWAY TOOLS

## HYDRAULIC SYSTEM REQUIREMENTS

# STANLEY®



Hydraulic systems come in many forms—from those found in the simple hydraulic jack to the more sophisticated systems found in earth moving equipment. The system required to operate most hydraulic tools found in this catalog would require 8 gpm / 30 lpm and be capable of providing system pressure up to 2000 psi / 140 bar. This system is referred to as a Type II, as classified by the Hydraulic Tool Manufacturers Association (HTMA). But there are also 3 other classifications. They are discussed below.

### Hydraulic Tool Manufacturers' Association (HTMA) Requirements

Hydraulic tools fall into 4 classifications, Type I, Type II, Type III, and Type RR as set by HTMA. The system requirements for powering these tools are as follows:

|          |    |                         |
|----------|----|-------------------------|
| Type I   | 5  | gpm $\pm 10\%$ / 19 lpm |
| Type II  | 8  | gpm $\pm 10\%$ / 30 lpm |
| Type III | 12 | gpm $\pm 10\%$ / 45 lpm |
| Type RR  | 10 | gpm $\pm 10\%$ / 38 lpm |

### OPERATING PRESSURE:

Hydraulic systems should be capable of providing the appropriate operating pressure and flow for the system types noted above when measured across the tool connections. Deviation from the nominal flow rates should be no more than plus or minus 10% at a operating pressure of 2000 psi / 138 bar. This is the pressure that the tools will normally operate at which is not to be confused with the relief pressure.

### RELIEF PRESSURE:

Hydraulic systems should be capable of limiting the maximum pressure by using either a pressure compensating pump or a relief valve with a non-pressure compensating pump. The system pressure limiting component shall begin to control the maximum pressure at no less than 2150 psi. This is commonly known as the "cracking pressure". The system pressure limiting component shall limit the maximum pressure to 2250 psi for a Type I, Type II, or Type III tool. The system pressure limiting component shall limit the maximum pressure to 2500 psi for a Type RR tool.

### Return Pressure:

The hydraulic systems should generate no more than 250 psi / 17 bar return pressure (back pressure) at the tool when operating at maximum flow for the tool type. System conditions for this pressure are at maximum

hydraulic fluid viscosity of 400 SUS (SSU) at minimum operating temperature.

### Cooling:

The hydraulic systems should have sufficient heat rejection capacity to limit maximum oil temperature to 140°F/60°C at the maximum expected ambient temperature. Recommended minimum cooling capacities to dissipate tool-generated heat are:

|          |                        |
|----------|------------------------|
| Type I   | 3 Horsepower / 2.24 kW |
| Type II  | 5 Horsepower / 3.73 kW |
| Type III | 7 Horsepower / 5.22 kW |
| Type RR  | 6 Horsepower / 5.22 kW |

When determining cooling capacity, the intended duty cycle and the system generated heat must both be considered.

### Filtration:

Systems should have 25 micron nominal filtration for the hydraulic fluid. Recommended filter element size is at least three times system rated flow to prevent filter bypass under low temperature start-up.

### Fluid:

Hydraulic systems should use hydraulic fluid that has a viscosity of 130-225 SSU / 27-42 cst at 100° F / 38° C. Hydraulic fluids of petroleum base with antiwear properties and high viscosity indexes over 140 will meet recommended hydraulic fluid requirements over a wide range of operating temperatures. They should be demulsifying type to allow water to settle out of the fluid.

### The Basic Principle of Hydraulics for Tool Operation

The basic principle of hydraulics used for tool operation can be compared with a typical household water system.

The typical rotary car-wash brush tool, that is operated from water through a garden hose, is in actuality a hydraulic tool. Water rushing through the garden hose drives a small motor in the car-wash tool which, in turn, rotates the brush. However, it is not just the rushing water that is driving the motor. There is also pressure associated with the rushing water—about 60 pounds per square inch (psi). Without the pressure, the tool would have no power. Without pressure, any force applied to the tool, such as pushing down on the tool, would stall the tool.

Water rushing through the hose (or the flow of water) is measured in gallons per minute (gpm) and results in the speed of the tool (in the case of the car-wash tool, the speed of the brush). Pressure associated with the water provides power to the tool.

The same principle applies in one of our tools. In a breaker, for example, the flow results in the speed of the tool and the resistance to that flow creates a demand for pressure. If the system has the capacity to deliver the pressure, power is transmitted to the tool to do work.

Hydraulic tools actually use less flow (gpm) than that produced through a garden hose. The pressure, however, is considerably higher. Hydraulic tools require pressures up to 2000 psi but only need 5 to 10 gpm to operate effectively. Of course, a typical HTMA hydraulic system returns fluid to a reservoir for re-use as opposed to the household water system that spills fluid to waste.

### Open-Center and Closed-Center Systems

There are two basic types of hydraulic systems — Open-Center and Closed-Center.

#### Open-Center is Constant Flow — Variable Pressure

When a tool valve is in the OFF position, hydraulic oil flows through the ON/OFF valve ports of the tool and back to the reservoir. The system is constantly flowing oil through the tool valve ports and back to the reservoir at no pressure. When the tool valve is ON, oil circulates through the tool causing the tool to operate, and then returns to the reservoir. Pressure is created when resistance to flow is sensed by the system. This occurs when the tool is put to work. Pressure will increase as the tool needs it up to the relief setting in the hydraulic system.

#### Closed-Center is Constant Pressure — Variable Flow

When a tool valve is in the OFF position, hydraulic oil flow stops at the ON/OFF valve port of the tool. The system will build and hold pressure without returning oil to the reservoir. When the tool valve is ON, oil circulates through the tool causing the tool to operate, and then returns to the reservoir. Pressure tends to be constant in the system. Pressure will

increase as the tool needs it up to the settings in the hydraulic system. And if pressures higher than the system setting are demanded by the work, flow will decrease.

### Fluid Temperature

The following information will serve to assist those installing hydraulics in mobile applications for handheld tools. While many hydraulic circuits can run upwards to 200°F, temperatures over 110°F / 43°C are uncomfortable to human touch. Our desire is to hold oil temperature to a maximum of 140°F / 43°C.

In almost any hydraulic tool circuit, oil cooling methods will be required except for very short periods of operation or in underwater and extreme cold environments. If you are involved in the design of a hydraulic tool circuit, use the following as guidelines.

#### Basic Don'ts for Cool Oil Control

1. DON'T — Rely on a large reservoir to control oil heating. Large reservoirs, even with good air circulation, do not adequately dissipate heat.
2. DON'T — Set relief pressure too low (open-center circuits) for percussion type tools (breakers, hammer drills, etc.). Pressure peaks may run up to 350 PSI over gauge pressure, popping the relief and causing heat as well as low tool performance.
3. DON'T — Pump more oil than the tool should use and avoid flow controls if possible. Instead, size the pump for desired flow volume. Gear type flow dividers can be used to reduce flow more efficiently than valves, reducing heat.
4. DON'T — Use heavy oils such as 30W or 10W30 engine oils. These will cause resistance in lines and add to backpressure and heat.
5. DON'T — Run return oil through control valves or other circuit components, except coolers and return line filters.

### DO THE FOLLOWING TO REDUCE HEAT GENERATION

1. Operate pumps at moderate speed — gear pumps usually generate less heat and are less prone to cavitation at speeds of 1,000-2,000 RPM.
2. Use generous line sizes — Especially on pump suction and return from tool to tank.
3. Use oils in 130-225 SSU at 100° F / 38° C range with high viscosity index. (see hydraulic fluid recommendations at the end of this section)

### PROVIDE GOOD COOLING FOR HYDRAULIC OIL

1. Use an air-to-oil cooler of maximum size for space available. Use a shrouded, high capacity fan. Many vehicles do not cool well when parked with engine at low speed. Do NOT use a "thermal" viscous-drive fan because these fans do not draw air unless the engine is hot.



# RAILWAY TOOLS

## HYDRAULIC SYSTEM REQUIREMENTS

# STANLEY®

### Flow Controls

- General Notes — To reduce or control flow rate through Stanley Tools, flow control valves are sometimes necessary. All possible effort should be made to avoid use of flow control valves where appropriate pump volume can be used because:
  - Excess oil volume and subsequent pressure drop generates heat.
  - When percussion type tools that generate pressure pulses are used, flow controls may oscillate and cause flow changes which reduce tool performance and add increased heating.
- Flow Control of Open-Center Circuits — Always use a priority type pressure-compensated flow control. This will prevent relief popping and reduce heat build-up. The excess flow should be routed in an unrestricted manner to the reservoir.
- Flow Control of Closed-Center Circuits — Use a two-port, pressure-compensated flow control. Some of these are very compact, in the range of 1-1/4" diameter by 5" long, and can be attached to the tool pressure pigtail. Do not use priority type controls on closed-center circuits, as this will cause the pump to operate at full volume — further heating the oil.

### Quick Disconnects

- Only use quick disconnects matching hose diameters. i.e. 1/2 inch port quick disconnect for 1/2 inch inside diameter hose.
- Use as few quick disconnects as possible and avoid using adapter fittings with quick disconnects. Fittings and quick disconnects, while necessary, create flow restriction which causes heat and reduced tool performance.
- Always use HTMA recommended quick disconnects that are flush-faced and dripless.

### Hose Types

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with Stanley Hydraulic Tools. They are:

- Certified non-conductive - constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. Hose labeled certified non-conductive is the only hose authorized for use near electrical conductors.
- Wire-braided (conductive) - constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. This hose is conductive and must never be used near electrical conductors.
- Fabric-braided (not certified or labeled non-conductive) - constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. This hose is not certified non-conductive and must never be used near electrical conductors.

### Tool To Circuit Hose Recommendations

| Oil Flow |       | Each Hose Length |          | Inside Diameter |    | USE      | Wire Braid Hose Spec | Working Pressure |     | Fiber Braid Hose Spec | Operating Pressure |     |
|----------|-------|------------------|----------|-----------------|----|----------|----------------------|------------------|-----|-----------------------|--------------------|-----|
| GPM      | LPM   | FEET             | METERS   | INCH            | MM |          |                      | PSI              | BAR |                       | PSI                | BAR |
| 5-8      | 19-30 | up to 50         | up to 15 | 1/2             | 13 | Both     | SAE 100R17-8         | 3000             | 230 | SAE 100R7-8           | 2000               | 140 |
| 5-8      | 19-30 | 51-100           | 15-30    | 5/8             | 16 | Both     | SAE 100R17-10        | 3000             | 230 | SAE 100R8-10          | 2750               | 190 |
| 5-8      | 19-30 | 100-300          | 30-90    | 5/8             | 16 | Pressure | SAE 100R2-10         | 2750             | 190 | SAE 100R8-10          | 2750               | 190 |
|          |       |                  |          | 3/4             | 19 | Return   | SAE 100R1-12         | 1250             | 86  | SAE 100R7-12          | 1250               | 86  |

NOTE: SAE 100R16 may be used in place of SAE 100R2

### HTMA Type I Tool Circuit Specifications

- Acceptable flow rate is 4 - 6GPM at 2000 PSI when measured at the tool hose ends.
- Back pressure not to exceed 250 PSI on the return side of the system when measured at the tool hose end.
- Tool circuit system pressure limiting component shall begin to control pressure no less than 2100 PSI and shall limit maximum pressure to no more than 2250 PSI.
- The system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140° F at the maximum expected ambient temperature. Cooling should be sized for 40° for maximum ambient air temperature.
- System filtration should be 25 micron or better.
- Oil viscosity should be 100 - 400 SSU across the entire operating temperature of 50° - 140° F.

(Reference HTMA - Recommended Standards for Hydraulic Operation for further details.)

### HTMA Type II Tool Circuit Specifications

- Acceptable flow rate is 7 - 9 GPM at 2000 PSI when measured at the tool hose ends.
- Back pressure not to exceed 250 PSI on the return side of the system when measured at the tool hose end.
- Tool circuit system pressure limiting component shall begin to control pressure no less than 2100 PSI and shall limit maximum pressure to no more than 2250 PSI.
- The system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140° F at the maximum expected ambient temperature. Cooling should be sized for 40° for maximum ambient air temperature.
- System filtration should be 25 micron or better.
- Oil viscosity should be 100 - 400 SSU across the entire operating temperature of 50° - 140° F.

(Reference HTMA - Recommended Standards for Hydraulic Operation for further details.)

### Fluids for Mobile Hydraulic Tool Circuits

The specification listed here will provide good all season operation if your circuit is of proper design and normal maintenance is performed. (Periodic filter change, draining of condensate, etc.)

### Recommended Fluids

The fluids listed here work well over a wide temperature range at start-up, allow moisture to settle out, and resist biological growth likely in cool-operating hydraulic circuits. These fluids are recommended by Stanley Hydraulic Tools for use in our tools. Other fluids that meet or exceed the specifications of these fluids may also be used. Biodegradable fluids listed are compatible with all tool seals and hoses.

| Item                               | U.S.A.             | Metric                      |
|------------------------------------|--------------------|-----------------------------|
| Viscosity (Fluid Thickness)        | 50° F 450 SSU Max. | 10° C 95 Centistokes Max.   |
| Viscosity (Fluid Thickness)        | 100° F 130-225 SSU | 38° C 27-42 Centistokes     |
| Viscosity (Fluid Thickness)        | 140° F 85 SSE Min. | 60° C 16.5 Centistokes Min. |
| Pour Point (Min. for cold startup) | -10° F             | 23° C                       |
| Viscosity Index                    | (ASTM D2220)       | 140 Minimum                 |
| Demulsibility                      | (ASTM D1401)       | 30 Minutes Max.             |
| Flash Point                        | (ASTM D92)         | 340° F Min.                 |
| Rust Inhibition                    | (ASTM D665 A&B)    | Pass                        |
| Oxidation                          | (ASTM D943)        | 1000 Hours Min.             |
| Pump Wear Test                     | (ASTM D2882)       | 60 mg Max.                  |
| Biodegradability                   | CEC-L-33-A94       | >60%                        |

| Brand             | Biodegradable | Description        |
|-------------------|---------------|--------------------|
| CITGO             | No            | Hydurance All Temp |
| AMS Oil           | No            | HVH 32             |
| Exxon Mobil       | No            | Univis HVI26*      |
| Exxon Mobil       | No            | DTE 10 Excel       |
| Shell             | No            | S2 V 32            |
| Chevron           | No            | Rando HDZ 32       |
| Conoco Phillips   | No            | Unax AW-WR-32      |
| Clarion (CITGO)   | Yes           | Green Bio 32       |
| Exxon Mobil       | Yes           | EAL 224H           |
| Chevron           | Yes           | Clarity AW32       |
| RSC Bio Solutions | Yes           | Envirologic 132    |
| Shell             | Yes           | Naturelle HF-E-32  |

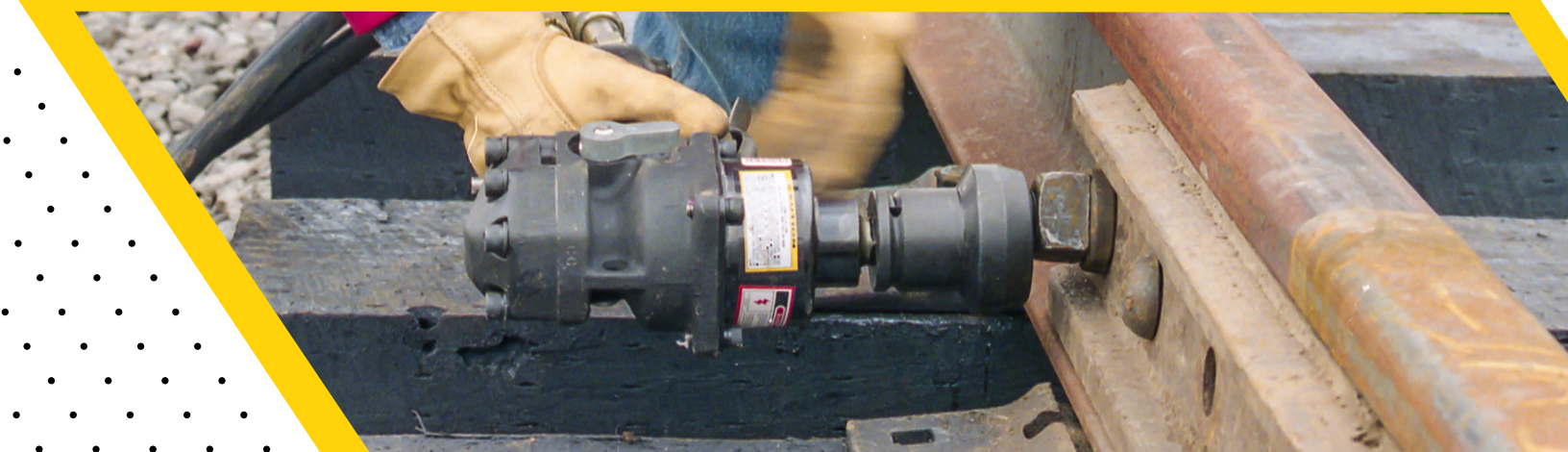
\*Recommended for extreme cold weather operation.

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