STANLEY HANDHELD TOOLS

Selection, Innovation, Performance

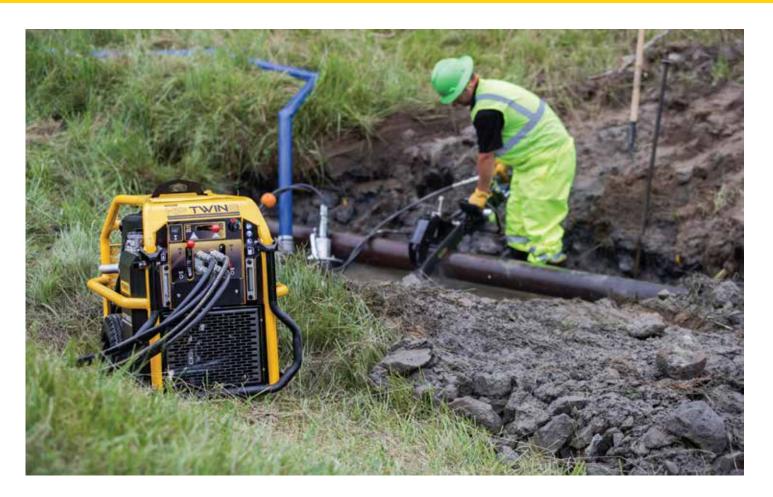
Your One-Stop Shop for Hydraulic Tools and Attachments



INDUSTRIAL TOOLS & ATTACHMENTS

V PALADIN STANLEY LABOUNTY & PENGO

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. As a proud member of STANLEY Black & Decker, a 175 year old company committed to the manufacture and distribution of quality tools for the professional, industrial, and consumer, we at Stanley Infrastructure are dedicated to providing our customers with innovative customer-driven product designs, world class quality, unmatched product support, and superior value.

GLOBAL REPRESENTATION

STANLEYInfrastructure produces an extensive line of products for use in construction, demolition, scrap processing, recycling, utilities, municipalities, railroads, industry, landscaping, underwater, construction, and specialty trades. STANLEYInfrastructure 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. We are for those who make the world move.



CATALOG INDEX

STANLEY

Infrastructure

| WHY HYDRAULICS1 |
|-----------------------------------|
| PERCUSSION TOOLS 2-9 |
| Breakers 2-4 |
| Chipping Hammers 5 |
| Digger 6 |
| Post Driver |
| Post Puller |
| Spike Driver 7 |
| Spike Puller |
| Tampers9 |
| EARTH AUGER 9 |
| CUTTING & TRIMMING TOOLS 10-16 |
| Cut-Off Saws 10 |
| Wood-Cutting Chain Saws 11-12 |
| Concrete-Cutting Chain Saws 13-14 |
| Ductile Iron Pipe Saw & Pump 15 |
| Circular Saw & Pruners 16 |
| GRINDERS 17 |
| WRENCHES & DRILLS 18-24 |
| Impact Wrenches & Drills |
| |

All STANLEY[®] tools, accessories, parts and allied equipment are subject to design improvements, specification and price changes at any time without notice and with no obligation to units already sold. Weights, dimensions and operating specifications listed herein are subject to change without notice. Where specifications are critical to your application, please consult the factory.

HANDHELD TOOLS



WHY HYDRAULICS



STANLEY Infrastructure

POWERFUL TOOLS FOR POWERFUL JOBS

Professionals turn to hydraulic tools when they need to get the toughest jobs done. Nothing matches the performance of hydraulic tools to cut through rock & concrete, drive posts or spikes, or pump a flooded culvert. Because their energy is derived from compressed oil, hydraulic tools can pack a big punch in a little package. Their inherent efficiency means they're friendlier to the environment than comparable air or gas tools. And because they're self-lubricating, they last several times longer.

Today we offer dozens of tools that can operate dependably off a single power source and professionals around the world are turning to the power of STANLEY Infrastructure for their most powerful jobs.

ADVANTAGES OF HYDRAULIC TOOLS



www.stanleyinfrastructure.com

- · Durability & Maintenance Hydraulic tools are designed to last with minimal maintenance requirements. Because internal components are bathed in hydraulic oil, it is not uncommon for them to last 15 years or more.
- · Low Noise Hydraulic tools are significantly quieter than comparable gas-powered and pneumatic alternatives.
- · Increased Power & Productivity Since compressed oil transfers far more energy than compressed air, nothing packs as much poundfor-pound punch as hydraulic. That allows us to design a smaller, lighter tool that can deliver more power than even the biggest gas or pneumatic alternatives.
- · Cold Conditions Hydraulic tools can be operated in sub-zero temperatures without freezing up.
- · Wet Conditions Wet weather does not affect hydraulic tools. In fact, many models are available for use underwater.

- · Enclosed Spaces Hydraulic tools don't produce exhaust and their power sources can be stationed remotely. Not so with gas-powered tools which often discharge engine exhaust directly onto the operator or with pneumatic tools which can atomize small droplets of lubricating oil into the surrounding atmosphere.
- · Cost-Effective, Environmentally Friendly Operation Hydraulic tools are inherently more efficient, meaning they require less energy to perform the same work as alternative tools, saving time and money. Hydraulic tool circuits are designed to keep oil in and contaminants out and our tools can be used with a variety of biodegradable environmentally safe hydraulic oils, so they can be operated with minimal impact to their surrounding environment.

833.723.1843

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 b choice. Our 70-lb. class breakers, for instance, deliver roughly the same impact energy as most 90-lb. pneumatic breakers. Internal components continually bathed in hydraulic oil, providing long-lasting performance wi minimal maintenance requirements. And because the hydraulic system is totally enclosed, there's no tool exhaust or oil atomization often found w gas-powered or pneumatic alternatives.

Compared to other options, hydraulic breakers offer:

- · Higher impact than comparably sized alternative platforms
 - No tool exhaust
 - · Quieter operation than pneumatic tools allows for use in sensitive areas
 - · Hydraulic oil provides continuous lubrication of internal parts for longer service life

LIGHT TO MEDIUM DUTY BREAKERS MODEL BR45 - 40# PLUS CLASS

The BR45 is light to medium duty breakers for work in the 35 to 55 pound class around the globe.

for light to medium sized jobs

FEATURES

SPECIFICATIONS

Application: Light concrete or asphalt breaking or scoring, small rock breaking, rod driving, tamping. **Tool Bit Size:** 7/8 x 3-1/4 in., 1-1/8 x 6 in., 1-1/4 x 6 in. or 1 x 4-1/4 in

Hyd. Flow: 4-6 gpm / 15-24 lpm, 5.5 gpm / 20 lpm or 7-9 gpm / 26-34 lpm. Weight: 37 lbs / 17 kg to 58 lbs / 26 kg Length: 22.5 in. / 57 cm to 30 in. / 76 cm Width: 14 in. / 36 cm to 18 in. / 45 cm Connection: 3/8 in. flush face quick disconnect couplers

MEDIUM DUTY BREAKERS international 50# CLASS

SPECIFICATIONS

- Application: Concrete or asphalt breaking or scoring, small
- rock breaking, rod driving. Tool Bit Size: 1-1/8 x 6 in., 1-1/4 x 6 in. or 1-1/4 x 6-1/4 in. Hyd. Flow: 7-9 gpm / 26-34 lpm or 4-6 gpm / 15-23 lpm Weight: 59 lbs / 27 kg T-Handle, 61 lbs / 27.6 kg

FEATURES

with Anti Vibe Handle Length: 28 in. / 71 cm with T-Handle, 29 in. / 73 cm with Anti Vibe HandleWidth: 14.25 in. / 36 cm with T-Handle,

17.5 in. / 45 cm with Anti Vibe Handle Connection: 3/8 in. flush face quick disconnect couplers

HANDHELD TOOLS



BREAKERS

| e | Modular, re-buildable design platform improves serviceability Handles system back pressures up to 250 psi / 17 bar |
|------------|--|
| best | Feathering ON/OFF valve to control speed and make initial tool placement easy |
| are ith | Trouble-free diaphragm accumulator for added blow energy |
| s ith | Our hydraulic breakers are used around the world in utility construction, street maintenance, repair of water and gas mains, and general contracting jobs. |
| | A general rule of thumb when sizing the appropriate breaker for your |

application is to use 10 pounds for each inch of material. A 40-pound breaker, for instance, is a good fit for 4-inch concrete. A 90-lb breaker would be used to break 9-inch concrete.

- · Convenient, maneuverable size makes this class a favorite
- BR45550 model designed for operation at 4-6 gpm / 15-24 lpm range
- T-type or Anti-vibration handle (see order information)
- EZ-Ride[™] or standard foot (see order information)
- Hose whips and flush-face quick disconnect couplers





• T-type or Anti-Vibration Handle (see order information) • Strong tie rod design for durability

• Hose whips and flush-face quick disconnect couplers





BREAKERS

MEDIUM DUTY BREAKERS MODEL BR67 - 70# PLUS CLASS

The BR67 is a medium to heavy-duty breaker for work in the 70 pound class and above. It is highly productive in construction, street maintenance, repair of water and gas mains, and general contracting jobs.

SPECIFICATIONS

Application: Concrete or asphalt breaking or scoring; small rock breaking; rod, anchor, & stake driving.

Tool Bit Size: 1-1/8 x 6 in. or 1-1/4 x 6 in. Hyd. Flow: 7-9 gpm / 26-34 lpm Weight: 72 lbs / 33 kg-BR67 with T-Handle Length: 27 in. / 68 cm-BR67 with T-Handle Width: 16 in. / 41 cm-BR67 with T-Handle Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Our original breaker design
- Delivers excellent overall performance
- Provides good balance of power to weight
- T-type or Anti-Vibration handle
- EZ-Ride[™] or standard foot
- Strong tie rod design for durability
- Hose whips and flush-face quick disconnect couplers





STANLEY

Infrastructure

| HEAV | Y DUT | Y BREAKEF | S MODEL BR87 | - 90# PLUS CLASS |
|------|-------|-----------|--------------|------------------|
| | | | | |

The BR87 is a heavy-duty breakers for work in the 90 pound class and heavier. With a longer piston stroke, our 90# class breakers are our hardest hitting hand held breakers.

SPECIFICATIONS

Application: Concrete or asphalt breaking or scoring, small rock breaking, rod, anchor, & stake driving. **Tool Bit Size:** 1-1/8 x 6 in. or 1-1/4 x 6 in. (see ordering info) Hyd. Flow: 7-9 gpm / 26-34 lpm Weight: 84 lbs / 3 kg Length: 29 in. / 73.5 cm Width: 16 in. / 41 cm Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Our hardest hitting breaker class, designed for the biggest breaking jobs
- Longer stroke delivers greater impact force
- T-type handle
- EZ-Ride[™] or standard foot
- Strong tie rod design for durability
- Hose whips and flush-face quick disconnect couplers







BREAKERS (NORTH AMERICA)

| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Capacity | Misc. |
|-------|-----------|----------------|-------------------|-------------------|---------------------|-----------------------------|---------------------|---------------------|----------------|
| | BR45110 | 45 lbs / 20 kg | 25 in. / 65 cm | 14 in. / 36 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 7/8 x 3-1/4 in. Hex | T Handle |
| | BR45120 | 51 lbs / 23 kg | 25 in. / 65 cm | 14 in. / 36 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | T Handle |
| | BR45120E | 51 lbs / 23 kg | 25 in. / 65 cm | 14 in. / 36 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | EZ Ride Foot |
| BR45 | BR45125S | 55 lbs / 25 kg | 28 in. / 72 cm | 17.5 in. / 45 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | Anti Vibration |
| | BR45130 | 51 lbs / 23 kg | 25 in. / 65 cm | 17.5 in. / 45 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | T Handle |
| | BR45130E | 51 lbs / 23 kg | 25 in. / 65 cm | 14 in. / 36 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | EZ Ride Foot |
| | BR45135S | 55 lbs / 25 kg | 28 in. / 72 cm | 17.5 in. / 45 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | Anti Vibration |
| | BR45150 | 45 lbs / 20 kg | 25 in. / 65 cm | 14 in. / 36 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1 x 4-1/4 in. Hex | T Handle |
| | BR45550 | 45 lbs / 20 kg | 25 in. / 65 cm | 14 in. / 36 cm | 4-6 gpm / 15-24 lpm | 1300-2000 psi / 90-140 bar | 2250 psi / 155 bar | 1 x 4-1/4 in. Hex | T Handle |
| | BR50120 | 52 lbs / 24 kg | 26.25 in. / 67 cm | 13.75 in. / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | T Handle |
| | BR50130 | 52 lbs / 24 kg | 24 in. / 61 cm | 13.75 in. / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | T Handle |
| BR50 | BR50120E | 52 lbs / 24 kg | 26.25 in. / 67 cm | 13.75 in. / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | EZ Ride Foot |
| BK30 | BR50130E | 52 lbs / 24 kg | 26.25 in. / 67 cm | 13.75 in. / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | E Ride Foot |
| | BR50125 | 52 lbs / 24 kg | 29.25 in. / 74 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | Anti Vibration |
| | BR50135 | 52 lbs / 24 kg | 29.25 in. / 74 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | Anti Vibration |
| | BR67120 | 72 lbs / 33 kg | 27 in. / 68 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | T Handle |
| | BR67120E | 72 lbs / 33 kg | 27 in. / 68 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | EZ Ride Foot |
| BR67 | BR67125 | 78 lbs / 36 kg | 29 in. / 73 cm | 8 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | Anti Vibration |
| 8601 | BR67130 | 72 lbs / 33 kg | 27 in. / 68 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | T Handle |
| | BR67130E | 67 lbs / 30 kg | 27 in. / 68 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | EZ Ride Foot |
| | BR67135 | 78 lbs / 36 kg | 29 in. / 73 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | Anti Vibration |
| | BR87120 | 84 lbs / 38 kg | 29 in. / 73.5 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | T Handle |
| 0007 | BR87120E | 84 lbs / 38 kg | 29 in. / 73.5 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/8 x 6 in. Hex | EZ Ride Foot |
| BR87 | BR87130 | 84 lbs / 38 kg | 29 in. / 73.5 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | T Handle |
| | BR87130E | 84 lbs / 38 kg | 29 in. / 73.5 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | EZ Ride Foot |
| REAKE | RS INTERI | NATIONAL | | | · | · | | · | |

| | BR4514801 | 55 lbs / 25 kg | 28 in. / 72 cm | 17.5 in. / 45 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 7/8 x 3-1/4 in. Hex Parallel | CE, Anti Vibration |
|------|------------|----------------|-------------------|-------------------|---------------------|-----------------------------|---|------------------------------|--------------------------------|
| BR45 | BR4516801 | 55 lbs / 25 kg | 28 in. / 72 cm | 17.5 in. / 45 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1 x 4-1/4 in. Hex Parallel | CE, Anti Vibration |
| | BR4556801 | 56 lbs / 25 kg | 28 in. / 72 cm | 17.5 in. / 45 cm | 4-6 gpm / 15-24 lpm | 1300-2000 psi / 90-140 bar | 2250 psi / 155 bar | 1 x 4-1/4 in. Hex | CE, T Handle |
| | BR5057801 | 56 lbs / 25 kg | 26.25 in. / 67 cm | 13.75 in / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6-1/4 in. Hex | CE, Anti Vib., EZ Ride Foot |
| BR50 | BR5057801 | 56 lbs / 25 kg | 26.25 in. / 67 cm | 13.75 in/ / 35 cm | 4-6 gpm / 15-24 lpm | 1300-2000 psi / 90-140 bar | 2250 psi / 155 bar | 1-1/4 x 6-1/4 in. Hex | CE, Anti Vib., EZ Ride Foot |
| BR67 | BR6717801A | 78 lbs / 36 kg | 29 in. / 73 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | D-2000 psi / 105-140 bar 2250 psi / 155 bar 1 x 4-1/4 in. Hex | | CE, Anti Vib., EZ Ride Foot |
| BR87 | BR8717201 | 84 lbs / 38 kg | 29 in. / 73.5 cm | 16 in. / 41 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1-1/4 x 6 in. Hex | CE, EZ Ride Foot |

BREAKER ACCESSORIES

| Model | Part No. | Description |
|-------------------------|----------|--|
| | 02328 | Clay Spade, 16 in. U/C |
| | 02330 | 3 in. Chisel, 14 in. U/C |
| | 02339 | 1 in. Chisel, 14 in. U/C |
| 7/8 in. Hex x 3-1/4 in. | 02341 | Asphalt Cutter, 5 in. blade x 11 in. U/C |
| | 04401 | Moil Point, 18 in. U/C |
| | 04961 | Moil Point, 14 in. U/C |
| | 05255 | Rod Driver, 3/4 in. |
| | 07702 | Moil Point, 14 in. U/C |
| | 07703 | Narrow Point, 14 in. U/C |
| 1 in. Hex x 4-1/4 in. | 07704 | 3 in. Chisel, 14 in. U/C |
| | 07705 | Clay Spade, 5-1/2 in. blade |
| | 07706 | Asphalt Wedge, 3 in. wide |
| | 02331 | Clay Spade, 5-1/2 in. blade |
| 1-1/8 in Hex x 6 in | 02332 | Asphalt Cutter 5 x 11 in. U/C |
| 1-1/6 III. Hex x 6 III. | 02333 | Moil Point 14 in. U/C |
| | 02334 | 3 in. Chisel, 14 in. U/C |

HANDHELD TOOLS



BREAKERS

| Model | Part No. | Description |
|-----------------------|----------|--|
| | 03990 | Chisel Point 14 in. U/C |
| 1-1/8 in. Hex x 6 in | 04176 | Ground Rod Driver, 1 in. rod |
| 1-1/8 In. Hex x 6 In | 08106 | Asphalt Wedge |
| | 08107 | Keen Kut Chisel |
| | 02335 | Asphalt Cutter, 5 in. blade x 11 in. U/C |
| | 02336 | Moil Point, 14 in. U/C |
| | 02337 | 3 in. Chisel, 14 in. U/C |
| | 02338 | 1 in. Chisel with heavy duty 14 in. U/C |
| | 04367 | Ground Rod Driver, 1 in. rod |
| 1-1/4 in. Hex x 6 in. | 04404 | Moil Point Heavy Duty 18 in. |
| | 04405 | Clay Spade, 18 in. blade |
| | 07862 | Keen Kut Chisel |
| | 08119 | Asphalt Wedge |
| | 09262 | Clay Spade, 5-1/2 in. blade |
| | 17782 | Detachable Shank |

SERIES CH

HANDHELD TOOLS CHIPPING HAMMERS



STANLEY. Infrastructure

CHIPPING HAMMERS MODEL CH15

The CH15 is a small chipping hammer designed for light duty chipping. It is commonly used for manhole and utility vault modifications or masonry repair and demolition. The body of the tool is shock and heat insulated. Comes with hose whips and flush-face quick disconnect couplers.

SPECIFICATIONS

Application: Chipping concrete, rock, or masonry such as utility vaults, street curbing, masonry work. Tool Bit Size: .580 hex Shank Oval Collar, Steel Bits Hyd. Flow: 4-6 or 4-9 gpm / 15-23 or 15-34 lpm Weight: 16 lbs / 7.25 kg Length: 17 in. / 43 cm Width: 3 in. / 8 cm Connection: 3/8 in. flush face quick disconnect couplers



CHIPPING HAMMERS MODEL CH18

The CH18 is a light but powerful chipping hammer designed for medium duty chipping. It is commonly used for manhole and utility vault modifications or masonry repair and demolition. The tool's "D" handle and tool bit holder are shock and heat insulated for operator comfort. Tool steels are held in place by a slide that is ball-and-spring detented. The CH18 uses standard .580-inch hex, round collar, chipper tool bits and comes with hose whips and flush-face quick disconnect couplers.

SPECIFICATIONS

Width: 3 in. / 8 cm

couplers

Application: Chipping light concrete, rock, or masonry such as utility vaults, street curbing, masonry work. Tool Bit Size: .580 in. Hex Shank, Round Collar, Steel Bits Hyd. Flow: 7-9 gpm / 26-34 lpm Weight: 24 lbs / 11 kg Length: 20 in. / 51 cm



| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Capacity | Misc. |
|-------|-----------|------------------|----------------|----------------|---------------------|-----------------------------|------------------------|---------------------------|--------------------|
| CH15 | CH1513101 | 16 lbs / 7.3 kg | 17 in. / 43 cm | 3 in. / 7.6 cm | 4-9 gpm / 15-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | .580 Hex - Oval Collar | CE, Solid Retainer |
| CH18 | CH18111 | 24 lbs / 10.9 kg | 20 in. / 51 cm | 3 in. / 7.6 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | .580 Hex-Round Collar | - |

Connection: 3/8 in. flush face quick disconnect

Accessories

| Model | Model Part No. Descrip | | Model | Part No. | Description |
|-------|------------------------|--|-------|----------|---|
| CLIME | 66256 | Bull Point, .580 Hex, Oval Collar | | 02279 | Bull Point Bit, 1 in. x 18 in580 Hex Rd. Collar |
| CH15 | 66257 | Narrow Chisel Bit, .580 Hex, Oval Collar | CH18 | 03690 | Chisel Bit, 1 in. x 9 in580 Hex Round Collar |
| CH18 | 02278 | Flat Chisel Bit, 1 in. x 18 in580 Hex Rd. Collar | | 03963 | Chisel Bit, 2 in. x 5 in580 Hex Round Collar |

DIGGERS MODEL DR19

SPECIFICATIONS

Application: Digging and rod driving in heavy clay, light shale, hardpan, frozen ground or dry hard dirt. Tool Bit Size: 7/8-in. Hex x 3-1/4 in. Shank Steel Bits Hyd. Flow: 7-9 gpm / 26-34 lpm Weight: 24 lbs / 10.9 kg Length: 20 in. / 50.8 cm Width: 3 in. / 8 cm Connection: 3/8 in. flush-face quick disconnect couplers

| The DR19 is a com |
|---------------------|
| materials such as |
| "D" handle and to |
| insulated for oper |
| place by a slide th |
| DR19 uses standa |
| tool bits and com |
| quick disconnect |
| |

| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Blows/ Minute | Capacity |
|-------|----------|------------------|----------------|----------------|---------------------|-----------------------------|------------------------|------------------|---------------------------|
| DR19 | DR19111 | 24 lbs / 10.9 kg | 20 in. / 50 cm | 3 in. / 7.6 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 1800 bpm | 7/8-in. x 3-1/4 in. Shank |

Accessories

Weight: 65 lbs / 29 kg

Length: 30 in. / 76 cm Width: 10 in. / 25 cm

couplers

| Model | Part No. | Description | Model | Part No. | Description |
|-------|----------|--------------------------|-------|----------|--|
| | 02328 | Clay Spade, 16 in. U/C | | 02341 | Asphalt Cutter, 5 in. blade x 11 in. U/C |
| DR19 | 02330 | 3 in. Chisel, 14 in. U/C | DR19 | 04401 | Moil Point, 18 in. U/C |
| | 02339 | 1 in. Chisel, 14 in. U/C | | 05255 | Rod Driver, 3/4 in. |

POST DRIVER MODEL PD45

SPECIFICATIONS Application: Drives a variety of shapes and sizes of sign posts Capacity: U-Channel Posts, Square Posts, Round Post, Delineators Hyd. Flow: 7-9 qpm / 26-34 lpm

Connection: 3/8 in. flush face quick disconnect

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 | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Capacity | Misc. |
|-------|----------|----------------|----------------|----------------|------------------------|-------------------------------|---------------------|---|-----------------------------------|
| | PD45131 | 65 lbs / 29 kg | 30 in. / 76 cm | 10 in. / 25 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | U-Channel, Delineator, Square & Round Post | In-Line Valve |
| PD45 | PD45132 | 67 lbs / 30 kg | 30 in. / 76 cm | 10 in. / 25 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | U-Channel, Delineator, Square & Round Post | Valve In Handle |
| PD45 | PD45132G | 67 lbs / 30 kg | 30 in. / 76 cm | 10 in. / 25 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | U-Channel, Delineator, Square & Round Post | Valve In Handle Extended Anvil |
| | PD45151 | 65 lbs / 29 kg | 30 in. / 76 cm | 10 in. / 25 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | U-Channel, Delineator, Square & Round Post | No Valve, Hos- es, or Couplers |

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 | | |

DIGGER & POST DRIVER

mpact digging spade for digging in s heavy clay or light shale. The tool's ool bit holder are shock and heat rator comfort. Tool steels are held in hat is ball-and-spring detented. The ard 7/8-inch hex, round collar, steel hes with hose whips and flush-face couplers.









STANLEY. Infrastructure

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 inch / 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. SPECIFICATIONS Application: Pulls a variety of sign and fence posts Capacity: Sign posts up to 8 in. / 20 cm Wide Hyd. Flow: 3-9 gpm / 11-34 lpm Weight: 70 lbs / 32 kg Length: 13 in. / 32 cm Width: 14 in. / 35 cm Connection: 3/8 in. flush face quick disconnect couplers



| | I UII | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Capacity | Misc. |
|---|-------|----------|----------------|----------------|----------------|---------------------|----------------------------|---------------------|--------------------|-------|
| PP10 PP10100 70 lbs / 32 kg 13 in. / 32 cm 14 in. / 35 cm 3-9 gpm / 11-34 lpm 1000-2000 psi / 70-140 bar 2250 psi | PP1 | PP10100 | 70 lbs / 32 kg | 13 in. / 32 cm | 14 in. / 35 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 8 in. / 20 cm Post | - |

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, help reduce operator fatigue.

FEATURES

- Two length options are available which allow operator to stand in a fullyupright 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.



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-inclass ergonomics and overall improved value.

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

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 | 16.25IN / 41.29 CM | 16,647 LBS / 7,550 KG | 5-10 GPM / 18-38 LPM | 2,000 - 2500 PSI / 137-172 BAR | 31 LBS* | HOSE WHIPS AND COUPLERS |
| SPL31A-S | SPIKE PULLER, LIGHTWEIGHT, 2-STAGE CYCLE, TRIGGER LOCK | 16.25IN / 41.29 CM | 16,647 LBS / 7,550 KG | 5-10 GPM / 18-38 LPM | 2,000 - 2,500 PSI / 137-172 BAR | 31 LBS* | HOSE WHIPS AND COUPLERS |

*31-pound tool weight is wet without whips and couplers

Accessories

| Part No. | Description |
|----------|---|
| 33256 | GRIP JAW (QTY. 2 REQUIRED) |
| 34876 | "W" GRIP JAW CASTING (HAIR PIN - QTY. 2 REQUIRED) |

| 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 | 5-10 GPM / 140 BAR | 2,000 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 | 5-10 GPM / 140 BAR | 2,000 PSI / 140 BAR | 70 LBS / 31.8 KG | HOSE WHIPS, FLUSH-FACE COUPLERS |

Accessories

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

HANDHELD TOOLS



SPIKE PULLER



TAMPERS & EARTH AUGERS

STANLEY. Infrastructure

STANLEY. Infrastructure

TAMPER MODEL TA54



The STANLEY TA54 Tamper is ideal for soil compaction around utility poles, signs and fence posts. With few moving parts coupled with the closed hydraulic system results in an efficient tool that requires minimal maintenance and a long tool life

| Model | Part No. | Weight | Length w/o Couplers and Hose Whips | Width | Flow Range | Working Pressure | Full Relief Setting | Blows/ Minute | Valve | Shoe | Coupler |
|-------|----------|------------------|--|---------------|---------------------|----------------------------|------------------------|------------------|-------------------|---------------------|---------|
| | TA54103 | 30 lbs / 13.6 kg | 71 in. / 180 cm | 4 in. / 10 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 1600 bpm | In-handle | Kidney | Yes |
| | TA54603 | 30 lbs / 13.6 kg | 69 in. / 175 cm | 4 in. / 10 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 1600 bpm | No Valve | Kidney | Yes |
| TA54 | TA54603A | 37 lbs / 17 kg | 69 in. / 175 cm | 4 in. / 10 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 1600 bpm | Remote In-line | Kidney | Yes |
| | TA54113 | 30 lbs / 13.6 kg | 71 in. / 180 cm | 4 in. / 10 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 1600 bpm | In-handle | 6 in. Round Shoe | Yes |

Accessories

| Model | Part No. | Description | Model | Part No. | Description |
|-------|----------|------------------------|-------|----------|-------------------------------|
| TAE 4 | 00833 | Kidney Shoe | TAFA | 01070 | Rectangular Shoe |
| TA54 | 00840 | Round Shoe, 6 in. dia. | TA54 | 72264 | In-Line Valve Assembly, OC/CC |

EARTH AUGER MODEL EA08

The EA08 features an output torque of 250 ft lb / 339 Nm to handle a wide variety of earth boring applications up to 18 inches / 46 cm in diameter and 42 inches / 107 cm deep. It is configured with 4 handles for two-man operation but can be used by one-man by connecting the torque tube to a power unit or other solid object. An ergonomically designed forward and reverse control valve lever is integrated into the handle. The EA08 accepts 1-3/8 in. hex female augers. The EA08 is furnished with flush face quick disconnect couplers. Augers are sold separately.



| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Capacity | Misc. |
|-------|----------|----------------|----------------|-----------------|---------------------|----------------------------|---------------------|------------------------------|---------------------------|
| EA08 | EA08102A | 47 lbs / 21 kg | 11 in. / 30 cm | 46 in. / 117 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 18 in. / 46 cm Dia. Auger | 1-3/8 in. Hex Male, CE |

Accessories

| Part No. | Description | Part No. | Description |
|----------|--|----------|--|
| 47406 | Auger, 2 in. dia x 42 in. OAL (requires 58585) | 47415 | Extension Tube, 15 in. OAL |
| 47407 | Auger, 3 in. dia x 42 in. OAL (requires 58586) | 47429 | Digging Tooth w/Hardface |
| 47408 | Auger, 4 in. dia x 42 in. OAL | 47430 | 2 in. Center Screw Bit for 6-12 in. |
| 47409 | Auger, 6 in. dia x 42 in. OAL | 47431 | Center Screw Bit for 3 in. |
| 47410 | Auger, 8 in. dia x 42 in. OAL | 47432 | Center Screw Bit for 4 in. |
| 47411 | Auger, 10 in. dia x 42 in. OAL | 39408 | Coupler, 1-1/4 in. Square Female |
| 47412 | Auger, 12 in. dia x 42 in. OAL | 58585 | Drive Coupler, 13/16 x 1-3/8 in. for 47406 Auger |
| 47413 | Auger, 16 in. dia x 42 in. OAL | 58586 | Drive Coupler, 1-1/8 x 1-1/8 in. for 47407 Auger |
| 47414 | Auger, 18 in. dia Nursery | 39410 | Auger Extension, 8 in. dia. x 36 in. OAL |
| | | 65477 | Drive Hub, STANLEY 1-1/4 in. Hex |

CUT-OFF SAWS MODEL C025

FEATURES

trigger

operation to meet operator preference, a water attachment kit for dust suppression and a saw cart for flat concrete and asphalt cutting.

Application: Cutting metal or masonry materials such as concrete, brick, structural steel, pipe, and guardrail.

Options include a handle extension kit for upright

- Build-in flow control to prevent over speeding, and a blade brake that retards spindle rotation
 Two models available: clockwise or counterclockwise rotation
 Hose whips and flush-face quick disconnect
- couplers

| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Rotation/ RPM | Wheel Capacity | Misc |
|-------|-----------|---------------|----------------|----------------|---------------------|-----------------------------|------------------------|------------------|-------------------|------|
| | CO25141 | 20 lbs / 9 kg | 21 in. / 53 cm | 11 in. / 28 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | CCW / 4500 | 14 in. / 35 cm | - |
| C025 | CO2514101 | 20 lbs / 9 kg | 21 in. / 53 cm | 11 in. / 28 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | CCW / 4500 | 14 in. / 35 cm | CE |
| C025 | CO25541 | 20 lbs / 9 kg | 21 in. / 53 cm | 11 in. / 28 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | CW / 4500 | 14 in. / 35 cm | - |
| | CO2554101 | 20 lbs / 9 kg | 21 in. / 53 cm | 11 in. / 28 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | CW / 4500 | 14 in. / 35 cm | CE |

Accessories

| Model | Part No. | Description | Model | Part No. | Description |
|-------|----------|--|-------|----------|-------------------------------|
| | 02691 | 14 in. Abrasive Wheel for metal, 1 in. arbor | | 69290 | Slab Saw Cart |
| C025 | 02692 | 14 in. Abrasive Wheel for masonry, 1 in. arbor | 0005 | 69704 | Water Tank for 69290 Saw Cart |
| | 33228 | Water Attachment for CO25 | C025 | 34175 | Handle Extension Kit |
| | | | | 62358 | Diamond Blade, 14 in. dry cut |

HANDHELD TOOLS



CUT-OFF SAWS

Cast aluminum handle with inter-locking safety

• Adjustable wheel guard





HANDHELD TOOLS **WOOD CUTTING CHAINSAWS**

STANLEY Infrastructure

STANLEY Infrastructure

MAXIMUM **CUTTING POWER**



CHAIN SAW MODEL CS05/CS06

CS06

SPECIFICATIONS

Application: Wood Cutting - Trees, Limbs, Timbers, Utility Poles, Wood Structures **Capacity:** 12, 15, & 20 in. / 30, 38, & 51 cm Bars Hyd. Flow: 4-6 qpm / 15-23 lpm for CS05, 7-9 gpm / 26-34 lpm for CS06 Weight: 6.25 lbs / 2.8 kg **Overall Length:** 27, 30, & 35 in. / 69, 76, & 89 cm Width: 9 in. / 23 cm Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

Cutting with Hydraulic Power

Operators familiar with conventional cutting equipment such as gasoline chain saws and circle saws are easily impressed with the power of hydraulic cutting equipment because the power-toweight ratio is significantly higher. For example, our CS06 Chainsaw produces almost twice as much power as its gasoline engine counterparts and weighs about half as much.

Compared to conventional cutting equipment STANLEY hydraulic cutting tools offer:

- More work in less time
- Less effort
- Longer tool life
- Minimal maintenance
- Minimal downtime
- Increased safety
- Longer warranty

FEATURES

- · Highest power-to-weight ratio of any chain saw on the market today
- Trigger Lock
- Hand guard
- Dual spool for open center or closed center operation
- Low kickback bars and chains
- Inherently low-kickback hydraulic motor
- Automatic chain oiler
- Hyrevz[™] motor

CHAIN SAW MODEL CS25/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 | Part No. | Weight | Overall Length | Width | Flow Range | Working Pressure | Full Relief Setting | Cut Capacity | Misc. |
|-------|----------|-------------------|-----------------|--------------------------------|---------------------|--------------------------------|------------------------|----------------|-------|
| CCOF | CS05610 | 6.25 lbs / 2.8 kg | 27 in. / 69 cm | 9 in. / 23 cm | 4-6 gpm / 15-23 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 13 in. / 33 cm | OC/CC |
| CS05 | CS05620 | 6.25 lbs / 2.8 kg | 30 in. / 76 cm | 9 in. / 23 cm | 4-6 gpm / 15-23 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 15 in. / 38 cm | OC/CC |
| | CS06610 | 6.25 lbs / 2.8 kg | 27 in. / 69 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 13 in. / 33 cm | OC/CC |
| CS06 | CS06620 | 6.25 lbs / 2.8 kg | 30 in. / 76 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 15 in. / 38 cm | OC/CC |
| | CS06630 | 6.25 lbs / 2.8 kg | 35 in. / 89 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 20 in. / 51 cm | OC/CC |
| CC 25 | CS25811 | 9 lbs / 4 kg | 90 in. / 229 cm | 4.375 in. / 11 cm ¹ | 4-6 gpm / 15-23 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 12 in. / 30 cm | OC/CC |
| CS25 | CS25812 | 9 lbs / 4 kg | 75 in. / 191 cm | 4.375 in. / 11 cm ¹ | 4-6 gpm / 15-23 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 12 in. / 30 cm | OC/CC |
| | CS28811 | 9 lbs / 4 kg | 90 in. / 229 cm | 4.375 in. / 11 cm ¹ | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 12 in. / 30 cm | OC/CC |
| CS28 | CS28812 | 8.4 lbs / 3.8 kg | 75 in. / 191 cm | 4.375 in. / 11 cm ¹ | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 12 in. / 30 cm | OC/CC |

¹ Measured at motor end

Accessories

| Model | Part No. | Description | Model | Part No. | Description |
|-----------|----------|-------------------------------|-------|----------|-------------------------------|
| | 07629 | Rim Sprocket, .325P x 7 tooth | | 12363 | File Guide |
| | 07638 | 15 in. Saw Bar | | 08347 | 13 in. Saw Bar |
| CS05/CS06 | 07639 | 20 in. Saw Bar | | 08348 | Saw Chain for 13 in. bar |
| | 07641 | Saw Chain for 15 in. bar | ALL | 11464 | Scrench |
| | 07642 | Saw Chain for 20 in. bar | | 33289 | Chain Saw File |
| CS25/CS28 | 05144 | Chain/Bar Guard | | 11294 | Flat File |
| | | | | 07616 | Sprocket Spline Adapter |
| | | | | 07629 | Rim Sprocket, .325P x 7 tooth |

HANDHELD TOOLS **WOOD CUTTING CHAINSAWS**







HANDHELD TOOLS CONCRETE CUTTING CHAINSAWS



STANLEY CONCRETE CUTTING Infrastructure CHAINSAWS

DIAMOND CHAIN SAW MODEL DS11

The DS11 is a heavy duty and powerful diamond chain saw that is ideal for fast cutting of concrete, reinforced concrete, conduit, brick, stone and other masonry. Plunge cut capability allows quick cutting of window, door, conduit and duct openings in walls and notching and trimming of concrete pipe. Trigger activated water for lubrication and cooling is ported through the bar and applied at the point where the concrete is being cut.

The DS11 features ergonomic handles and guards to help reduce operator fatigue, water connection, flush face quick disconnect couplers, and is powered by a STANLEY Hyrevz[™] motor. The Wall Walker[™] that provides leverage for cutting is standard equipment. The bar and chain are sold separately.

| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Output | Discharge |
|-------|-------------|----------------|----------------|---------------|---------------------|-------------------------------|---------------------|-------------------------------|-----------|
| DCOC | DS06200001* | 14 lbs / 6 kg | 24 in. / 61 cm | 9 in. / 23 cm | 4-6 gpm / 15-23 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 13 in. / 33 cm Bar | CE |
| DS06 | DS063000* | 14 lbs / 6 kg | 24 in. / 61 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 13 in. / 33 cm Bar | - |
| DS11 | DS113000* | 26 lbs / 11 kg | 38 in. / 97 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 15, 18 in. / 33, 46 cm Bar | CE |

 * NOTE: Bar and Chain Not Included - Must be Ordered Separately

Accessories

| Part No. | Description |
|----------|--|
| 35037 | Bar, 13 in. Sprocket Nose |
| 56799 | Diamond Chain, Ultra-25, 13 in., Double Bumper |
| 56800 | Diamond Chain, Pinnacle-25, 13 in. Double Bumper |
| 65797 | Flap Kit |
| 20857 | Chain Repair Spinner |
| 20858 | Chain Repair Breaker |
| 20859 | Diamond Chain Butterfly Repair Kit |
| 60859 | Water Flow Meter, 0-7 gpm |
| 56767 | Connecting Link, 5-Pack |
| | 35037 56799 56800 65797 20857 20858 20859 60859 |

THE BEST YOU EVER SAW

Model DS06

Diamond chain saws use a revolutionary chain with laser welded segments impregnated with diamonds. This chain, coupled with a bar containing water channels for chain lubrication, make cutting concrete, brick, masonry, and stone an easy task.

A distinct advantage of a diamond chain saw over a diamond circular saw is cutting square corners without over-cut. A diamond chain saw is the perfect tool for plunge cutting for window and door openings, air conditioner cut-outs, and notching or trimming.

Diamond Chain Technology

The newest generation of diamond chains dramatically reduce the chain wear of cutting concrete. SealPro[™] technology extends chain chassis life by up to 50% or more, simplifies water pressure requirements and reduces the frequency of chain tensioning adjustments.

SealPro[™] technology incorporates a patented new chain chassis design that seals out abrasive contaminants. A unique 0-ring design seals the rivet-joints of the chain, keeping the abrasive materials out and the lubrication in.

Diamond chains with SealPro[™] work at low water pressures eliminating the need for water booster pumps. The new chains can be used with water from an ordinary garden hose and will yield excellent chain life at pressures as low as 20 psi.

Other important advantages of SealPro[™] technology are reduced chain stretch resulting in fewer tensioning adjustments over time.

| Aggregate | Extra Hard | | Hard | Medium | | Soft | | Abrasive |
|--|---------------|---------------|-----------------------|---------------------|-----------|------|-----------|--|
| Material | Chert Flint | Basalt Quartz | Granite River Rock | Marble Limestone | Sandstone | | | Masonry, Brick, Block, Green Concrete |
| Approximate Moh's Scale | 9 | 8 | 7 | 6 | 5 | 4 | 3 | |
| | Lots of Steel | | | Some Steel | | | | No Steel |
| Reinforcing Steel | 1" | Double Mat | Single Mat | #5 | #4 | #3 | Wire Mesh | |
| Saw Chain Wear (inft.) Pinnacle-32 Pinnacle-37 | 150 | in-ft | | 600-800 in-ft | | 2000 |) in-ft | |
| Ultra-32 Ultra-37 | | | 200 in-ft | | | | | 1500 in-ft |





| Model | Part No. | Description |
|-------|----------|--|
| | 30305 | Bar, 15 in., Sprocket nose |
| | 30306 | Bar, 18 in., Sprocket nose |
| | 56801 | Diamond Chain, Ultra-32, 15 in., Double Bumper |
| DS11 | 56802 | Diamond Chain, Ultra-37, 18 in., Double Bumper |
| | 56803 | Diamond Chain, Pinnacle-32, 15 in. Double Bumper |
| | 58632 | Diamond Chain, Pinnacle-37, 18 in. Double Bumper |
| | 23517 | Sprocket Wrench |

HANDHELD TOOLS DUCTILE IRON PIPE CHAINSAW & PUMP

STANLEY Infrastructure

STANLEY Infrastructure

UTILITY CHAINSAW MODEL DS12

STANLEY's Utility Chainsaw is a revolutionary cutting method designed to change the way the job gets done. From ductile iron to plastic pipe, this chain saw will get you in and out of the job faster, easier and safer than other methods. Utilizing a brazed layer diamond coating on a durable chain chassis, this technology provides improved access with far less excavation in a confined space such as cutting water main pipe in a ditch.



| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Capacity | Misc. |
|-------|-----------|------------------|----------------|---------------|------------------------|-------------------------------|------------------------|-------------------------------|---|
| DC12 | DS12318 | 26 lbs / 11.8 kg | 38 in. / 97 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 18 in. / 45 cm Utility Bar | Utility Bar & Chain with HTMA couplers |
| DS12 | DS1231801 | 26 lbs / 11.8 kg | 38 in. / 97 cm | 9 in. / 23 cm | 7-9 gpm / 26-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 18 in. / 45 cm Utility Bar | Utility Bar & Chain with HTMA couplers. CE |

Accessories

Model

DCP30101

DCP30100

| Model | Part No. | Description | Model | Part No. | Description |
|-------|-------------------------|---------------------------|-------|----------|-------------------------|
| DC12 | 71048 18" Utility Chain | | | 71055 | Pipe Clamp Assemb |
| DS12 | 71047 | 18" Bar for Utility Chain | DC12 | 71046 | Drive Sprocket |
| | | | DS12 | 60859 | Water Flow meter, 0-7 0 |
| | | | | 23517 | Sprocket Wrench |

PORTABLE WATER PUMP MODEL DCP30

The DCP30 is a 12 volt pump capable of self priming up to an eight foot lift. It delivers 2.2 GPM at 40 PSI and is thermal protected to prevent overheating. A built in check valve prevents backward flow and maintains pressure after shut-off. The DCP30 is available with battery clips or a marine style DC plug. Ideal for providing adequate water for diamond concrete or ductile iron chain saws.

Description

Water Pump, 12v DC, Battery Clip

Water Pump, 12v DC, Marine Type

| Ś | C | |
|---|--------------|---|
| | | V |



CIRCULAR SAW MODEL CR27

FEATURES

- Used for trimming and pruning tree branches
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews
- Fiberglass pole handle
- Integral Hyrevz[™] motor
- Angled head
- Dual spool for operation on Open Center or Closed Center systems
- Double cone-lock blade nut
- Blade brake to reduce coast-down time
- Comes with 9" blade (34356)
- Model Part No. Weight Length Flow R CR27891 9.6 lbs / 4.4 kg 79 in. / 200.7 cm 5-7 gpm / 19 CR27

Accessories

| Part No. | Description | Part No. | Description |
|----------|---|----------|-------------------------------------|
| 34356 | 9 in. / 22.9 cm Circle Saw Blade - 24 Tooth | 34653 | Tooth Setting Tool for 34356 Blade |
| 00425 | 9 in. / 22.9 cm Circle Saw Blade - 44 Tooth | 11299 | File Guide with 7/32 in. round File |
| | PRUNER MODEL PR41 | | |
| | | | 3 |



FEATURES

- · Used for selective tree limb pruning up to 2-1/4 inch / 5.7 cm cut
- · Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews
- · Lightweight head design that provides easy handling
- Full power on both opening and closing cycles
- Improved geometry of knife and hook provides increased cutting efficiency
- Fiberglass pole handle
 - · Sold in either open center or closed center configurations

| Model | Part No. | Configuration | Weight | Length | Flow Range | Working Pressure | Full Relief Setting | Cutting Component (included) | Couplers |
|-------|----------|---------------|-------------------|-------------------|------------------------|-------------------------------|------------------------|---------------------------------|----------|
| PR41 | PR41131 | Open Center | 11.5 lbs / 5.2 kg | 84 in. / 213.4 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 2-1/4 in. / 5.7 cm Cut Knife | No |
| PK41 | PR41231 | Closed Center | 11.5 lbs / 5.2 kg | 84 in. / 213.4 cm | 3-9 gpm / 11-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 2-1/4 in. / 5.7 cm Cut Knife | No |

Accessories

| Model | Part No. | Description |
|-------|----------|-------------|
| PR41 | 56849 | Knife |

HANDHELD TOOLS **CIRCULAR SAW & PRUNERS**



| ange | Working Pressure | Full Relief Setting | Cutting Compo- nent (included) | Couplers |
|----------|-------------------------------|------------------------|---|----------|
| 9-26 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 9 in. / 22.9 cm Saw Blade - 24 Tooth | No |



STANLEY Infrastructure

STANLEY Infrastructure

GRINDER MODEL GR30

The GR30 can be used for grinding and cleaning with either cup or standard type grinding wheels and wire or nylon brushes. The GR30 features an assist handle, adjustable, rotating wheel guard, insulated handle, flow control for over-speed prevention, counter-clockwise rotation and is powered by an integral STANLEY Hyrevz $^{\scriptscriptstyle \mathrm{M}}$ motor. The GR30 is furnished with hose whips and flush face quick disconnect couplers.



| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Rotation/ RPM | Wheel Capacity | Misc. |
|-------|-----------|-----------------|---------------|----------------|---------------------|-------------------------------|------------------------|------------------|-------------------|-------|
| 6020 | GR30701 | 13 lbs / 5.9 kg | 8 in. / 20 cm | 28 in. / 71 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 70-140 bar | 2250 psi / 155 bar | CCW / 5800 | 9 in. / 22.8 cm | - |
| GR30 | GR3070101 | 13 lbs / 5.9 kg | 8 in. / 20 cm | 28 in. / 71 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 70-140 bar | 2250 pis / 155 bar | CCW / 5800 | 9 in. / 22.8 cm | CE |

Accessories

| Model | Part No. | Description | | Model | Part No. | Description |
|-------|----------|---|---|--------|----------|---|
| 6020 | 02587 | Grinding Wheel for metal, 9 in. dia. x 5/8 in., 11 thd. Arbor | | 0000 | 03691 | Grinding Wheel, 7 in. dia. x 5/8 in., 11 thd. Arbor |
| GR30 | 02588 | Grinding Wheel for masonry, 9 in. dia. x 5/8 in., 11 thd. Arbor | 1 | GR30 - | 05194 | Depressed Center Wheel Adapter |

GRINDERS MODEL HGL61 HGL80 HGL81

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 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 |
|---------|----------------------------|-------------------|----------|-----------|--------|
| HGL80 | 1" x 8" Grinder | Clockwise | 13.6 lbs | 23.35 in. | 12 in. |
| HGL81 | 1" x 8" Grinder | Clockwise | 13.6 lbs | 19 in. | 12 in. |
| HGL80-L | 1" x 8" Grinder | Counter Clockwise | 13.6 lbs | 23.25 in. | 12 in. |
| HGL81-L | 1" x 8" Grinder | Counter Clockwise | 13.6 lbs | 19 in. | 12 in. |
| HGL61 | Standard Bull Nose Grinder | Counter Clockwise | 9.6 lbs | 19 in. | 10 in. |

Accessories

| Model | Part Number | Description | Model | Part Number | Description |
|-------|-------------|-------------------------|-------|-------------|-----------------------------------|
| HGL61 | 30872 | Bull Nose Grinder Stone | HGL80 | 28598 | 1" x 8" Horizontal Grinding Stone |



HGL80 - Long Handle Length: 23.35 Inches



HGL81 -Short Handle Length: 19 Inches



WORLDWIDE IMPACT

We provide tools to municipalities, water districts, governments and private contractors for construction and maintenance of electric power, telephone service, gas, water, wastewater, and cable TV distribution. And to transportation entities for construction and maintenance of streets, roads, highways and railways.

Utility trucks with hydraulic tool circuits or compact power units meeting HTMA standards can operate tools for breaking, drilling and cutting of pavement, railroad cutting and drilling, and many other day-to-day tasks performed by utility workers, road crews, and railway crews.

Our tools are used in cities and towns around the world to help build and maintain their infrastructures.

IW24 and Hydrant Saver tool removing fire hydrant valve seat



HANDHELD TOOLS **IMPACT DRILLS &** WRENCHES

HANDHELD TOOLS **IMPACT WRENCHES** & DRILLS

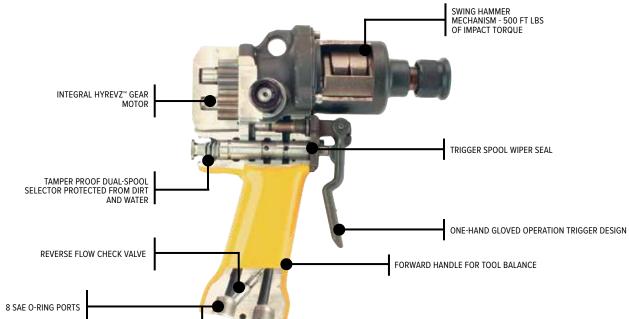
STANLEY Infrastructure

Infrastructure

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 | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Torque | Capacity | Misc. |
|-------|-----------|------------------|---------------|---------------|-------------------------|------------------------------|------------------------|------------|----------------------|---------------|
| | ID07810 | 7.2 lbs / 3.3 kg | 9 in. / 23 cm | 5 in. / 11 cm | 4-12 gpm / 15-45 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 500 ft lbs | 7/16 in. QC Chuck | |
| | ID07815 | 7.2 lbs / 3.3 kg | 9 in. / 23 cm | 5 in. / 11 cm | 4-12 gpm / 15-45 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 500 ft lbs | 7/16 in. QC Chuck | Trigger Guard |
| ID07 | ID07820 | 7.2 lbs / 3.3 kg | 9 in. / 23 cm | 5 in. / 11 cm | 4-12 gpm / 15-45 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 500 ft lbs | 1/2 in. Square Drive | Pin Retainer |
| | ID07830 | 7.2 lbs / 3.3 kg | 9 in. / 23 cm | 5 in. / 11 cm | 4-12 gpm / 15-45 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 500 ft lbs | 1/2 in. Square Drive | Friction Ring |
| | ID0782001 | 7.2 lbs / 3.3 kg | 9 in. / 23 cm | 5 in. / 11 cm | 4-12 gpm / 15-45 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 500 ft lbs | 1/2 in. Square Drive | CE |

DRILL MODEL DL07

The DL07 is a variable speed drill with reverse capability. It features a 1/2 inch keyed chuck, dual position assist handle, dual-spool for open center or closed center operation, trigger guard, and is powered by an integral Hyrevz[™] motor. A reverseflow check valve prevents operation if tool is plumbed backwards. The DL07 is furnished with flush face quick disconnect couplers.

masonry and fiberglass. Capacity: 1/2 in. Chuck RPM: 350-1250 Hyd. Flow: 3-10 gpm / 11-38 lpm Weight: 6 lbs / 2.7 kg Length: 9 in. / 23 cm Width: 4 in. / 10 cm Connection: 3/8 in. flush face quick disconnect couplers

| M | odel | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Torque | Capacity | Misc. |
|---|------|-----------|----------------|---------------|---------------|-------------------------|-------------------------------|------------------------|-----------------|-----------------------|---------------|
| D | L07 | DL0755201 | 6 lbs / 2.7 kg | 9 in. / 23 cm | 4 in. / 10 cm | 3-10 gpm / 11-38 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 350-1250 rpm | 1/2 in. / 12 mm Chuck | Dual Spool CE |

Accessories

| Model | Part No. | Description | Model | Part No. | Description |
|-------|----------|---|-------|----------|---|
| model | 05079 | Chuck Adapter, 1/2 in. sg. x 7/16 in. Hex QC | Model | | |
| | | | | //16 H | lex Shank Pole Bits |
| | 05109 | Impact Socket, 9/16 in., 8 pt Deep Well | | 27850 | 9/16 x 8 x 12, 7/16 in. Hex |
| | 05110 | Impact Socket, 5/8 in., 8 pt Deep Well | | 27851 | 11/16 x 8 x 12, 7/16 in. Hex |
| | 05111 | Impact Socket; 11/16 in., 8 pt Deep Well | | 27852 | 13/16 x 8 x 12, 7/16 in. Hex |
| | 05112 | Impact Socket, 3/4 in., 8 pt Deep Well | | 27853 | 15/16 x 8 x 12, 7/16 in. Hex |
| | 05113 | Impact Socket, 13/16 in., 8 pt Deep Well | | 27854 | 1-1/16 x 8 x 12, 7/16 in. Hex |
| | 05114 | Impact Socket, 7/8 in., 8 pt Deep Well | | 27855 | 9/16 x 12 x 16, 7/16 in. Hex |
| | 05115 | Impact Socket, 15/16 in., 8 pt Deep Well | | 27856 | 11/16 x 12 x 16, 7/16 in. Hex |
| ID07 | 05116 | Impact Socket, 1 in., 8 pt Deep Well | | 27857 | 13/16 x 12 x 16, 7/16 in. Hex |
| | 33155 | Lineman's Socket, 13/16 * 15/16 in. | ID07 | 27858 | 15/16 x 12 x 16, 7/16 in. Hex |
| | 33156 | Lineman's Socket, 1 & 1-5/8 in. | | 27859 | 1-1/16 x 12 x 16, 7/16 in. Hex |
| | 05080 | Adapter, 5/8 in. Hex x 1/2 in. Square Drive | | 27860 | 9/16 x 18 x 22, 7/16 in. Hex |
| | 05117 | Adapter, 7/16 in. Hex Male x 1/2 in. Square Drive | | 27861 | 11/16 x 18 x 22, 7/16 in. Hex |
| | 07192 | Adapter, 1/2 in. Square Drive to 5/8 in. QC | | 27862 | 13/16 x 18 x 22, 7/16 in. Hex |
| | 27845 | Pole Bit, 5/8 in. Hex Shank, 9/16 x 8 x 22 in. | | 27863 | 15/16 x 18 x 22, 7/16 in. Hex |
| | 27847 | Pole Bit, 5/8 in. Hex Shank, 13/16 x 8 x 22 in. | | 27864 | 1-1/16 x 18 x 22, 7/16 in. Hex |
| | | 1 | | 27865 | 7/16 in. Hex Pole Bit 11/16 x 33 x 36 in. |
| | | | | 27869 | 7/16 in. Hex Pole bit 13/16 x 45 x 48 in. |
| | | | | | |
| | | | DL07 | 09624 | 1/2 in. Chuck with Key |
| | | | 5207 | 27628 | 5/8 in. Chuck with Key |

HANDHELD TOOLS **STANLEY.** IMPACT WRENCHES & DRILLS

SPECIFICATIONS

Application: Drilling holes in wood, metal,



HANDHELD TOOLS **IMPACT WRENCHES**



STANLEY Infrastructure

IMPACT WRENCH MODEL IW12

FEATURES

- Adjustable impact intensity, from 250 to 1200 ft. lb. / 340 to 1632 Nm
- Swing Hammer Mechanism
- · Feathering trigger
- Reversing valve for instant change over from forward to reverse
- 3/4 inch square drive
- With or without a trigger guard

IMPACT WRENCH MODEL IW16

FEATURES

- Adjustable impact intensity, from 500 to 2500 ft. lb. / 680 to 3400 Nm
- Swing Hammer Mechanism
- Feathering trigger and "D" handle
- Reversing valve for instant change over from forward to reverse
- 1 inch square drive



FEATURES

- Adjustable impact intensity, from 800 to 3500 ft. lbs. / 1088 to 4760 Nm
- Swing Hammer Mechanism
- "D" handle
- Feathering trigger
- Reversing valve for instant change over from forward to reverse
- 1-1/2 inch square drive





| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Torque | Capacity | Misc. |
|--------|-----------|-----------------|----------------|---------------|-------------------------|--------------------------------|------------------------|-----------------|------------------------|-------|
| IW12 | IW12140 | 14 lbs / 6.4 kg | 9 in. / 24 cm | 4 in. / 10 cm | 4-12 gpm / 15-45 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 250-1200 ft lbs | 3/4 in. Square Drive | - |
| TWV 12 | IW1214001 | 14 lbs / 6.4 kg | 9 in. / 24 cm | 4 in. / 10 cm | 4-12 gpm / 15-45 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 250-1200 ft lbs | 3/4 in. Square Drive | CE |
| IW16 | IW16150 | 26 lbs / 12 kg | 14 in. / 37 cm | 5 in. / 11 cm | 7-12gpm / 26-45 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 500-2500 ft lbs | 1 in. Square Drive | CE |
| IW24 | IW24160 | 43 lbs / 20 kg | 16 in. / 41 cm | 5 in. / 13 cm | 7-12gpm / 26-45 lpm | 1800-2000 psi / 124-140 bar | 2250 psi / 155 bar | 800-3500 ft lbs | 1-1/2 in. Square Drive | - |

Accessories

| Model | Part No. | Description |
|-------|----------|----------------------------|
| IW12 | 01857 | Adjustable Chuck & Adapter |



The Hydrant Saver can be powered by the IW24 Impact Wrench to safely remove fire hydrant valve seats - even those that have seized due to lack of periodic maintenance. The Hydrant Saver allows servicing of hydrants obstructed by walls, fences, buildings, etc. that previously had to be replaced.

Two complete kits available: Northern Kit with 8 ft. power tube and the Southern Kit with a 6-1/2 ft. power tube. Both kits include a 1-1/2 ft. extension, alignment wrench, retaining pins, and a Mueller 5-1/4 in. socket. A complete selection of sockets is available from STANLEY Infrastructure to fit the most commonly found hydrants.

| Model | Part No. | Description |
|---------------|----------|---|
| | 31043 | Hydrant Saver, Northern Kit, 8 ft power tube alignment starter wrench, Mueller 5-1/4 i |
| Hydrant Saver | 31044 | Hydrant Saver, Southern Kit, 6-1/2 ft power seat alignment starter wrench, Mueller 5-1 |

Accessories

| Model | Part No. | Description |
|---------------|----------|---|
| | 30716 | Power Tube, 8 ft. |
| | 30717 | Power Tube, 6-1/2 ft |
| | 30718 | Extension, 1-1/2 ft for Power Tube |
| | 30719 | Extension, 3 ft for Power Tube |
| | 30720 | Extension, 4 ft for Power Tube |
| | 30721 | Wrench, Seat Alignment Starter |
| | 30722 | Socket, 4-1/4 in. Mueller, M&H, Smith, Columbia |
| | 30723 | Socket, 5-1/4 in. Mueller, M&H, Smith, Columbia |
| | 30724 | Socket, 5-1/4 in. Waterous |
| Hydrant Saver | 30725 | Socket, 4-1/4 in. Waterous |
| | 30726 | Socket, 5-1/4 in. Kennedy |
| | 30727 | Socket, 4-1/4 in. Kennedy |
| | 30728 | Socket, 5-1/4 in. Clow |
| | 30729 | Socket, 4-1/4 in. Clow |
| | 31045 | Pin for Sockets |
| | 73342 | East Jordan Socket 4-1/4 in. |
| | 73343 | East Jordan Socket 5-1/4 in. |
| | 73367 | American Darling Socket 73 - 5 |

HANDHELD TOOLS HYDRANT SAVERS



e, 1-1/2 ft extension, seat in. Socket , plus pins

tube, 1-1/2 ft extension, 1/4 in. socket plus pins



HAMMER DRILLS

STANLEY Infrastructure

STANLEY. Infrastructure

HAMMER DRILL MODEL HD01

The HD01 is ideal for just about any drilling job whether in rock, concrete, wood or masonry, with 4200 bpm and 800 rpm. The hammer function can be turned off for efficient light drilling in wood and metal. The sturdy, light-weight construction features a D-handle and assist handle making it easier to maneuver than a pistol-grip tool. The HD01 chuck accepts SDS Plus bits and accepts other common accessories with a standard SDS Plus shank. A geared drill chuck and adapter are available for use with common wood auger bits or twist drills. The HD01 has 3 modes of operation--drill mode (without percussion), hammer drill mode (drill with percussion) or hammer only mode (percussion only).

HAMMER DRILL MODEL HD45

The HD45 is designed for drilling holes in concrete, rock, or masonry from 3/4 in. / 19 mm to 2 in. / 50 mm in diameter and up to 29 in. / 73.7 cm deep as well as core drilling up to 4 in. / 102 mm in diameter. The HD45 uses a Skil 736 shank, carbide tipped, fluted drill bits and requires no fluid or compressed air to clear holes during operation. The HD45 features a feathering trigger for easy starts, adjustable rotation speed (both forward and reverse), and is furnished with hose whips and flush face quick disconnect couplers.





| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Performance | Capacity | Misc. |
|-------|-----------|------------------|---------------------|-----------------|------------------------|--------------------------------|------------------------|-----------------|---------------|---------------------|
| HD01 | HD01531 | 8.4 lbs / 4.1 kg | 14.1 in. / 36 cm | 5.6 in. / 14 cm | 3-9 gpm / 11-34 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 800 rpm @ 6 gpm | 7/8 in. Dia. | SDS Plus Shk |
| HDUI | HD0153101 | 8.4 lbs / 4.1 kg | 14.1 in. / 36 cm | 5.6 in. / 14 cm | 3-9 gpm / 11-34 lpm | 750-2000 psi / 50-140 bar | 2250 psi / 155 bar | 800 rpm @ 6 gpm | 7/8 in. Dia. | SDS Plus Shk; CE |
| HD45 | HD45110B | 45 lbs / 20 kg | 22 in. / 57 cm | 14 in. / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 300 rpm | #736 Skil Hex | - |
| HD45 | HD4511001 | 45 lbs / 20 kg | 22 in. / 57 cm | 14 in. / 35 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 300 rpm | #736 Skil Hex | CE |

Accessories

| Model | Part No. | Description | | | | |
|-------|--------------|--------------------------------|--|--|--|--|
| HD01 | 72992 | 1/2 in. Friction Chuck Adapter | | | | |
| | Carbide Bits | | | | | |
| | 27807 | 3/8 x 12 in. OAL | | | | |
| | 27814 | 1/2 x 12 in. OAL | | | | |
| HD01 | 27826 | 3/4 x 12 in. OAL | | | | |
| | 27827 | 3/4 x 18 in. OAL | | | | |
| | 27832 | 7/8 x 18 in. OAL | | | | |

| Model | Part No. | Description | | | | | |
|--------|----------|--|--|--|--|--|--|
| | 27902 | Percussion Core Bit 2-1/2 in. dia. x 6 in. OAL | | | | | |
| HD45 | 27904 | Percussion Core Bit 3 in. dia. x 6 in. OAL | | | | | |
| | 30279 | HD45 (Skil 736) Adapter (required) | | | | | |
| | | Carbide Bits | | | | | |
| | 02280 | 3/4 x 24 in. | | | | | |
| | 02281 | 1 x 24 in. | | | | | |
| | 02282 | 1-1/4 x 24 in. | | | | | |
| HD45 | 02283 | 2 x 24 in. | | | | | |
| 110-13 | 04668 | 1 x 18 in. | | | | | |
| | 04896 | 1-1/4 x 36 in. | | | | | |
| | 05163 | 7/8 x 24 in. | | | | | |
| | 05167 | 1-1/2 x 24 in. | | | | | |

SINKER DRILL MODEL SK58

The SK58 is designed for blast hole drilling, leak detection for gas utilities, and dowel hole drilling up to 3 inches / 7.6 cm in diameter and 20 feet / 6 m deep. The sinker drill uses air or water flushing (model dependent) to clear holes of debris. The sinker drill features a feathering trigger for easy starts, a direct drive rotation motor adjustable from 0 to 300 rpm, and is furnished with hose whips and flush faced quick disconnect couplers.

| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Performance | Capacity | Misc. |
|-------|----------|----------------|----------------|----------------|---------------------|--------------------------------|------------------------|-------------|----------------------------------|-------|
| SK47 | SK47130 | 52 lbs / 24 kg | 23 in. / 58 cm | 14 in. / 36 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 10 ft Hole | 7/8 in. x 4-1/4in. Hex Shank | Air |
| | SK58110 | 67 lbs / 30 kg | 26 in. / 66 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 20 ft Hole | 1 in. x 4-1/4 in. Hex Shank | Air |
| SK58 | SK58120 | 67 lbs / 30 kg | 26 in. / 66 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 20 ft Hole | 1 in. x 4-1/4 in. Hex Shank | Water |
| | SK58130 | 67 lbs / 30 kg | 26 in. / 66 cm | 18 in. / 46 cm | 7-9 gpm / 26-34 lpm | 1500-2000 psi / 105-140 bar | 2250 psi / 155 bar | 20 ft Hole | 7/8 in. x 4-1/4 in. Hex Shank | Air |

Accessories

| Model | Part No. | Description | Model | Part No. | Description |
|-----------|----------|---|-------|----------|---|
| | 04914 | Carbide Rock Bits for use with air (also requires drill steel) - 2 in. dia. H thread | | 04915 | Drill Steels for use with water 1 x 4-1/4 in. H thread, 36 in. U/C |
| | 05174 | Drill Steels for use with air - $7/8 \times 4$ - $1/4$ in. H thread, 24 in. U/C | SK58 | 05170 | Drill Steels for use with air - 1 x 4-1/4 in. H thread, 24 in. U/C |
| SK47/SK58 | 05177 | Carbide Rock Bits for use with air (also requires drill steel) - 1-3/8 in. dia. H thread CLOSEOUT | | 05171 | Drill Steels for use with air - 1 x 4-1/4 in. H thread, 48 in. U/C |
| | 05178 | Carbide Rock Bits for use with air (also requires drill steel) - 1-1/2 in. dia. H threadC | | | |

HANDHELD TOOLS



SINKER DRILLS



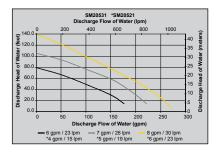
SUMP PUMPS

STANLEY Infrastructure

STANLEY Infrastructure

SUMP PUMP MODEL SM20

The SM20 is one of the lightest and most durable pumps available. Completely submersible and pumping 250 gpm / 946 lpm at a 10-foot head and moving solids up to 5/16 of an inch makes it ideal for vaults and manholes. It features a cast aluminum inlet, steel or urethane impeller, Hyrevz[™] motor, and is furnished with flush face quick disconnect couplers.





TRASH PUMP MODEL TP03

The TP03 is a submersible trash pump and will pump liquids with concentrations of solids up to 25% by volume. It features a tough urethane bowl and impeller, lifting eye, removable top plate, 3 inch NPTF discharge, and flush face quick disconnect couplers.

TRASH PUMP MODEL TPO8

The TP08 is a heavy duty submersible trash pump capable of pumping high volumes of water, sand slurries, gravel, sludge and solids up to 4 inches in diameter. It features a steel bowl, cast iron impeller, polyethylene wear plates, carrying handle, removable top plate, 4 inch male Camlock discharge, and flush face quick disconnect couplers.

| | | | | | | | Full Relief | | | |
|-------|-----------|-------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------|----------|
| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Setting | Output | Discharge | Impeller |
| TP03 | TP0300301 | 32 lbs / 14.52 kg | 14 in. / 35.5 cm | 12 in. / 30.4 cm | 7-9 gpm / 26-34 lpm | 2000 psi / 140 bar | 2250 psi / 155 bar | 450 gpm / 1688 lpm | 3 in. / 75 mm | Urethane |
| TP08 | TP08013 | 65 lbs / 29.48 kg | 19 in. / 48.3 cm | 15 in. / 38 cm | 7-9 gpm / 26-34 lpm | 2000 psi / 140 bar | 2250 psi / 155 bar | 800 gpm / 3028 lpm | 4 in. / 100 mm | Steel |

Accessories



| stic case / 20 cm discharge rd heaters and | TP03 | • • | le Camlock | | |
|--|--------------------------|---|--|--|--|
| / 20 cm discharge | TP03 | • • | le Camlock | | |
| • | | | Adapter, 3 in. male NPT x 3 in. male Camlock | | |
| | 50701 Edy 1102 D15 | Lay-Flat Discharge Hose, 3 in. x 25 ft with Camlock fit | | | |
| | TP08 65624 Lay-Flat Disc | 65624 Lay-Flat Discharge Hose, 4 in. x 25 ft with C | | | |
| | · · · | | | | |
| | Range Working Pressure | Full Relief Setting | Capacity | | |
| Nidth Flow | | | 1700 scfm / 802 lsec | | |
| N | | | | | |

| Model | Part No. | Description |
|-------|----------|-----------------------|
| VF80 | 04430 | Flexible Exhaust Hose |

SUMP PUMP MODEL SM21

The SM21 is the ideal pump for areas of confined space and small openings. The SM21 pumps up to 300 gpm / 1125 lpm at a 50-foot head. The cast iron impeller is within 3/4 of an inch of the base allowing the pump to remove more liquids than other pumps. The SM21 features a lifting eye, 2.5 in. NPTF discharge, and is furnished with hose whips and flush face quick disconnect couplers.

| | | | | Discha | rge Flov | v of Wat | er (lpm) | | | | |
|--------------------------------|--------|--------|-------|----------------|----------|----------|------------|------------|---------|-----------|----------------------------------|
| | 120.0 | 0 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 35 | _ |
| (feet) | 100.0 | | | | | | | | | .30 | Discharge Head of Water (meters) |
| Discharge Head of Water (feet) | 80.0 | | | | | | | | | 25 | ater (r |
| nd of | 60.0 | | | | | | \searrow | | | 20 | ٩ ٩ |
| e Hea | 40.0 | _ | | | | | | \searrow | | 15 | Head |
| charg | 20.0 | - | - | | | | | | | .10 .5 | harge |
| Dis | 0.0 | | | | | | | | | 0 | Disc |
| | | 0 | | 100 Dischar | | | | 300 3 | 350 4 | 100 | |
| | 4 gpm/ | 15 lpm | 5 gpm | /19 lpm | 6 gpm/ | 23 lpm | 7 gpm/ | 26 lpm | 8 gpm/3 | 30 Ipr | n |

SUMP PUMP MODEL SM21

The SM50 can pump an impressive 500 gallons per minute / 30,000 gallons per hour. It is completely submersible, can draw water down to a depth of 3.5 inches, and can run dry. It features a cast aluminum inlet, stainless steel impeller, lifting eye, 3 inch Camlock male discharge, and is furnished with flush face quick disconnect couplers.

| | Discharge Flow of Water (Ipm) | |
|--------------------------------|---|---------------------------------------|
| | .0 0 200 400 600 800 1000 1200 1400 1600 1800 2000 | |
| Discharge Head of Water (feet) | .0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Vater | .0 | 25 te |
| d of V | .0 | 20 Š |
| e Hea | | 15 Pead |
| charo | | arge 01 |
| Disc | | Discha |
| | 0 50 100 150 200 250 300 350 400 450 500 55 | 0 600 |
| | Discharge Flow of Water (gpm) | |
| | gpm / 26 lpm — 8 gpm / 30 lpm — 9 gpm / 34 lpm — 10 g | pm / 38 lpm |



| Model | Part No. | Weight | Length | Width | Flow Range | Working Pressure | Full Relief Setting | Output | Discharge | Impeller |
|-------|-----------|-------------------|--------------------|--------------------|----------------------|----------------------------|------------------------|--------------------|-------------------|----------|
| | SM2043101 | 18 lbs / 8.16 kg | 7.5 in. / 19 cm | 9.6 in. / 24 cm | 4-9 gpm / 15-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 250 gpm / 946 lpm | 2.5 in. / 63.5 mm | Steel |
| SM20 | SM2052101 | 18 lbs / 8.16 kg | 7.5 in. / 19 cm | 9.6 in. / 24 cm | 4-6 gpm / 15-23 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 250 gpm / 946 lpm | 2.5 in. / 63.5 mm | Urethane |
| | SM2053101 | 18 lbs / 8.16 kg | 7.5 in. / 19 cm | 9.6 in. / 24 cm | 4-9 gpm / 15-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 250 gpm / 946 lpm | 2.5 in. / 63.5 mm | Urethane |
| SM21 | SM2151101 | 25 lbs / 11.34 kg | 16 in. / 40.6 cm | 6.25 in. / 15.9 cm | 4-9 gpm / 15-34 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 300 gpm / 1125 lpm | 2.5 in. / 63.5 mm | Steel |
| SM50 | SM50100 | 21 lbs / 9.5 kg | 10.5 in. / 26.7 cm | 10 in. / 25.4 cm | 7-12 gpm / 26-45 lpm | 1000-2000 psi / 70-140 bar | 2250 psi / 155 bar | 500 gpm / 1890 lpm | 3 in. / 75 mm | Steel |



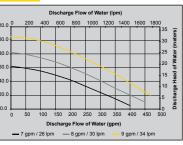


25

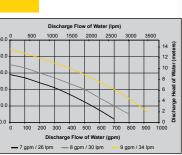
833.723.1843

HANDHELD TOOLS **TRASH PUMPS & VENT FAN**











| Model | Part No. | Description | | | | | |
|----------------|---|--|--|--|--|--|--|
| | 02183 | Fire Hose, 25 in. x 2-1/2 in. | | | | | |
| | 02317 | Fire Nozzle - 1 in. output | | | | | |
| | 05133 | 2-1/2 in. Thread Adapter for Sump Pump to Fire Hose | | | | | |
| SM20/SM21/SM50 | 05134 | 50 ft. Fire Hose, 2-1/2 in. dia. | | | | | |
| | 05135 | Spanner Wrench for Pin Lug Coupler | | | | | |
| | 15248 Adapter, 3 in. female camlock x male fire hose (n | | | | | | |
| | 59101 | Adapter, 2-1/2 in. male NPT x 3 in. male Camlock | | | | | |
| | 56761 | Discharge Hose | | | | | |
| SM20/SM21/SM50 | 52720 | 3 in. Adapter | | | | | |
| | 02812 | Elbow | | | | | |
| | 52720 | Adapter, 3 in. male NPT x 3 in. male Camlock | | | | | |
| 1603 | 56761 | Lay-Flat Discharge Hose, 3 in. x 25 ft with Camlock fittings | | | | | |
| TP08 65624 | | Lay-Flat Discharge Hose, 4 in. x 25 ft with Camlock Fittings | | | | | |
| | SM20/SM21/SM50 SM20/SM21/SM50 TP03 | 8 02183 5 02317 6 05133 6 05135 15248 15248 5 59101 5 55710 5 552720 02132 02182 10213 10213 5 52720 10212 10212 10212 10212 | | | | | |



POWER UNITS



STANLEY Infrastructure

LIGHTER THAN AIR

Powering hydraulic tools doesn't require a large pull-behind power source like an air compressor. The fact is, a power supply about the size of a wheelbarrow, such as our HP28 Power Unit, is more than sufficient to operate any tool shown in this catalog from our biggest breakers to our smallest drills.

Our hydraulic power units use the latest in commercial engine technology from manufacturers such as Briggs & Stratton and Honda. These engines are air cooled, fuel efficient, light weight, rugged, and pack plenty of power to operate our most demanding tools without over-taxing the engine.

Check out the advantages of hydraulic power units over other types of equipment such as air compressors or engine driven tools:

- · Versatile dozens of tools can be operated from these power units
- Air cooled no winter freezing considerations
- Fuel efficient 1.3 gallons per hour / 4 liters per hour estimated fuel consumption
- Quiet operation

POWER UNIT MODEL HP28 (TWIN 8)

The New 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 and JOIN THE REVOLUTION!

Each of the two circuits is optimized to deliver ideal flows and pressures to both Type 1 and Type 2 hydraulic tools.

FEATURES

ATM Technology

Active Thermal Management (ATM) optimizes performance in extreme weather conditions. By managing oil temperatures, preheat time is decreased and tool runtime increases.

Side Handles

New side handles improve ease of lifting the unit while adding side impact protection and with no moving parts to wear or corrode.

Solid Tires

Eliminates the need to refill flat tires and decreases pull force needed for maneuvering

Recessed Control Panel

Protects dashboard and couplers.

- Tough Grip Multi Position Handle Special Tough Grip handle surface improves comfort and control with
- increased durability. • Lifting Hook
- Flush face design protects the lifting hook from accidental job abuse.
- Auto Choke
- Allows for guick and easy starting of the power unit.

- Lightweight 149 to 360 lbs / 68 to 163 kg
- · Small size can fit into small truck or van
- · Portable can be wheeled around job site like a wheelbarrow
- Serviceability can be serviced by small engine dealers



The HP series hydraulic power units are engineered for continuous professional use and are optimized to deliver ideal flows and pressures to both Type 1 and Type 2 hydraulic tools. Their powerful Briggs & Stratton engines and best-in-class cooling system delivers the power and heat rejection pros need to keep tools working uninterrupted all day in all types of conditions. The HP series of power units feature a manual throttle for ultimate user control.

POWER UNIT MODEL HP8

FEATURES

- Meets HTMA requirements for Type 1 and Type 2 hydraulic tool circuits.
- 5 or 8 gpm / 20 or 30 lpm @ 2000 psi
- Heat rejection capacity exceeding 5 hp.
- Quartz hour meter
- Direct mounted hydraulic pump
- Air-oil cooler
- · Lift and latch handle
- Pneumatic tires

POWER UNIT MODEL HP12

SPECIFICATIONS

- · Engine oil level shut-down,
- 5 gallon / 20 liters fuel capacity

POWER UNIT MODEL HP210

The Hydraulic power to operate two 5 GPM tools at once. Stanley's HP210 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.

SPECIFICATIONS

Weight: 330 lbs / 150 kg Length: 35 in. / 90 cm Width: 23 in. / 59 cm Height: 29 in. / 74 mm Pressure: 2000 psi / 140 bar Fuel Capacity: 5.5 gal. / 24 liter

FEATURES

- · Compact and lightweight.
- In-tank hydraulic filtration.
- · Pressurized engine oil lubrication.
- Locking handle.
- Electric Start.

HANDHELD TOOLS



POWER UNITS

 Maintenance-free battery · Hydraulic and engine oil filter · Engine oil level shut-down 5 gallon / 20 liters fuel capacity



FEATURES

- Meets HTMA requirements for Type 2
- and Type 3 hydraulic tool circuits.
- 8, 10, or 12 gpm / 30, 37.5, or 45 lpm @ 2000 ps Heat rejection capacity exceeding 5 hp.
- Quartz hour meter
- Direct mounted hydraulic pump
- Air-oil cooler
- Lift and latch handle
- Pneumatic tires
- Maintenance-free battery
- · Hydraulic and engine oil filter







TRACHORSE

STANLEY. Infrastructure

STANLEY. Infrastructure

TracHorse MODEL MHP3

The TracHorse is an all-terrain, self-propelled mobile hydraulic power pack 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.

SPECIFICATIONS

Load Capacity: 1000 lbs / 454 kg Travel Speed: Low Speed - 1.55 mph / 2.5 km/h High Speed - 2.8 mph / 4.5 km/h Weight: 1200 lbs / 544 kg Length: 78 inches / 198 cm Width: 36 inches / 92 cm Height: 43 inches / 109 cm Pressure: 2000 psi / 38 bar Flow Range: Twin Circuit - 2 @ 5 gpm / 20 lpm or 1 @ 10 gpm / 38 lpm Connect Size & Type: Flush-Face Couplers Fuel Capacity: 5 gallons / 20 liters Engine: Honda 20 hp OHV

TRACHORSE CONTRACTORSE

FEATURESSelf-propelled mobile hydraulic tool and equipment carrier that transports tools and

- equipment in most job-site environmentsSimple operating controls allow 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



| Model | Part No. | Weight | Length | Width | Height | Engine | Output Flow | Pressure | Misc. |
|-----------|-------------|-------------------|-----------------------|---------------------|------------------|--------|--|-----------------------|-------------------------------|
| HP8 | HP8BA | 330 lbs / 150 kg | 36 in. / 91 cm | 23 in. / 59 cm | 29 in. / 74 cm | Briggs | 5gpm/20lpm to 8gpm/30lpm | 2000 psi / 140 bar | CE |
| HP8 | HP8BD | 330 lbs / 150 kg | 36 in. / 91 cm | 23 in. / 59 cm | 29 in. / 74 cm | Briggs | 5gpm/20lpm to 8gpm/30lpm | 2000 psi / 140 bar | 12VDC accessory |
| HP12 | HP12B | 340 lbs / 154 kg | 35 in. / 91 cm | 23 in. / 59 cm | 29 in. / 74 cm | Briggs | 8gpm/30lpm to 12gpm/50lpm | 2000 psi / 140 bar | |
| 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 | |
| HP210 | 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 |
| HP28 | HP28B02 | 360 lbs / 163 kg | 37.5 in. / 95.3 cm | 25.75 in. / 65.4 cm | 30 in. / 75.2 cm | Briggs | 2 @ 8 gpm | 2000 psi / 140 bar | Twin Circuit |
| nr20 | HP28B02 | 360 lbs / 163 kg | 37.5 in. / 95.3 cm | 25.75 in. / 65.4 cm | 30 in. / 75.2 cm | Briggs | 2 @ 8 gpm | 2000 psi / 140 bar | Twin Circuit Asia Model |
| TracHorse | MHP32242100 | 1200 lbs / 544 kg | 78 in. / 198 cm | 36 in. / 92 cm | 43 in. / 109 cm | Honda | 2 @ 5 gpm or 1 @ 10 gpm | 2000 psi / 140 bar | Twin Circuit Auto Throttle |
| nachorse | MHP32232100 | 980 lbs / 445 kg | 78 in. / 198 cm | 36 in. / 92 cm | 43 in. / 109 cm | Honda | 2 @ 5 gpm or 1 @ 10 gpm | 2000 psi / 140 bar | Bed Less |

POWER UNIT ACCESSORIES

| Model | Part No. | Description |
|----------|----------|---|
| | 13360 | Hose Basket Conversion Kit |
| | 33212 | Weather Cover |
| HP8/HP12 | 64940 | Male Plug, 12 volt |
| HF0/HF12 | 64942 | 12V Receptacle Accessory |
| | 52722 | High Altitude Carburetor Jet Kit - 8000 ft. |
| | 52721 | High Altitude Carburetor Jet Kit - 8600 ft. |

POWER UNITS & TRACHORSE



ACCESSORIES

STANLEY Infrastructure

STANLEY Infrastructure

HYDRAULIC VALVES & FLOW CONTROLS

| Part No. | Part No. Description | | Part No. | Description |
|----------|--|--|----------|----------------------|
| 26542 | 9 gpm flow control, Brand Hydraulics, C-50-9 | | 67259 | Check Valve Assembly |
| 72264 | In-line Valve, OC/CC | | 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 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 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 |

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 ±10% / 19 lpm |
|----------|----|-------------------|
| Type II | 8 | gpm ±10% / 30 lpm |
| Type III | 12 | gpm ±10% / 45 lpm |
| Type RR | 10 | gpm ±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 Systems should have 25 micron nominal filtration for the hydraulic fluid. the tool connections. Deviation from the nominal flow rates should be no Recommended filter element size is at least three times system rated more than plus or minus 10% at a operating pressure of 2000 psi / 138 bar. flow to prevent filter bypass under low temperature start-up. 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 nonpressure 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.

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 | Part No. | Description |
|----------|---------------------------------------|----------|-------------------------------|
| 00936 | Adapter, 1/2 SAE to 3/8 in. male pipe | 04192 | Hex Nipple, 1/2 in. male pipe |

TEST EQUIPMENT

| Part No. | No. Description | | Part No. | Description |
|----------|------------------------------|--|----------|---|
| 02835 | Accumulator Tester & Charger | | 29085 | Flow & Pressure Tester |
| 04182 | Flow and Pressure Tester | | 31254 | Accumulator Charging Kit (hand held tools only) |

HANDHELD TOOLS

HYDRAULIC SYSTEM REQUIREMENTS



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:

FLUID:

Hydraulic systems should use hydraulic fluid that has a viscosity of 130-225 SSU / 27-42 cst at IO0° F / 38° C. Hydraulic fluids of petroleum base with anti wear 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.

HYDRAULIC BASICS

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 hand held tools. While many hydraulic circuits can run upwards to 200° F / 93° C, 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.

- **STANLEY** Infrastructure
- 4. DON'T Use heavy oils such as 30W or 10W30 engine oils. These will cause resistance in lines and add to back pressure 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 IO0° 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.

FLOW CONTROLS

- **1.** 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:
 - A. Excess oil volume and subsequent pressure drop generates heat.
 - **B.** 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.
- 2. 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.
- 3. Flow Control of Closed-Center Circuits Use a two-port, pressurecompensated 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

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

STANLEY Infrastructure

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:

- 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 hose is not certified non-conductive and must never be used near electrical conductors.

TOOL TO CIRCUIT HOSE RECOMMENDATIONS

| Oil I | Flow | Each Hos | e Length | | ide neter | Wire Braid | | Working Pressure | | Fiber Braid | Operating Pressure | | |
|-----------|---------|-----------|--------------|-------|--------------|--------------|---------------|------------------|--------------|--------------|--------------------|------|-----|
| GPM | LPM | FEET | METERS | INCH | ММ | USE | USE Hose Spec | PSI | BAR | Hose Spec | 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 | 0 400 200 | 9-30 100-300 | 30-90 | 5/8 | 16 | Pressure | SAE 100R2-10 | 2750 | 190 | SAE 100R8-10 | 2750 | 190 |
| 5-8 19-30 | 100-300 | 300 30-90 | 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

RECOMMENDED HOSE CONFIGURATIONS

When a longer hose configuration is used by connecting hoses together, system back pressure is increased. Too high a back pressure may reduce performance and life of the tool. STANLEY recommends back pressure not to exceed 250 psi / 17 bar. In addition, oil temperature should be limited to 140 degrees F / 60 degrees C.

For both 5 and 8 gpm (20 - 30 lpm) tools, standard hose with a 1/2" inside diameter is acceptable to use up to 100' or 30 m when configured with (2) sets of 50 feet hose.

STANLEY **does not** recommend the following configurations with 1/2" diameter hose.

- (4) sets of 25' hose
- (1) set of 50' hose + (2) sets of 25' hose

HANDHELD TOOLS

HYDRAULIC BASICS

Certified non-conductive - constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant

of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. This

These configuration will drive back pressure beyond recommended levels. For longer lengths between 100' to 300' STANLEY recommends increasing the hose diameters to the following:

Pressure Line - 5/8" Inside Diameter Hose

Return Line - 3/4" Inside Diameter Hose

The increased hose diameter will alleviate back pressure and allow proper tool operation.

PERFORMANCE NOTES

When operating with longer hose lengths with the same diameter hose, back pressure increases. When operating hydraulic tools at 100' with the 1/2" diameter hose, some decrease in performance is possible.

This should not noticeably affect overall performance of the tool, but note it is not under optimal conditions with longer hose configurations.

RECOMMENDED **HYDRAULIC FLUIDS**

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.)

SPECIFICATIONS

| 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% |

STANLEY Infrastructure

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.

RECOMMENDED FLUIDS

| 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

STANLEY Infrastructure

HYDRAULIC SYSTEM SPECIFICATIONS SUITABLE FOR POWERING HTMA TYPE I HYDRAULIC TOOLS

be below the lowest fluid level in order to prevent air entrainment. The reservoir shall include a fluid level indicator to show fluid level from the minimum requiring fill to the maximum showing full. It shall include a drain, low near the bottom, to provide for draining settled-out water or complete emptying of the reservoir. There shall be provision for access to the inside for servicing the suction strainer and cleaning the reservoir. The fluid line from the reservoir to the pump suction port shall have an inside diameter of 1.25 inches / 32 mm. The pump shall be sized to deliver the system design flow at a shaft speed determined by the prime mover speed and any speed reduction between it and the pump. For vehicles with automatic transmissions, the engine speed should be between 1700 and 2000 rpm. For example, if the power takeoff speed ratio is .75, then the pump speed will be 1275 to 1500 rpm. The pump displacement will be between 0.770 and 0.906 cubic inches per rev. For a fixed-displacement pump, these displacements will be that of the pump. For variable-displacement pumps, these displacements with be the pump displacement setting while operating the hydraulic tool system. The pump shall have a maximum pressure rating of at least 3000 psi. The pressure line from the pump outlet to the directional valve shall have an inside diameter of 0.75 inches / 19 mm. The working pressure of the line shall be at least 2500 psi. If no bi-directional tools will be used, the directional control valve shall be ³/₄-inch size two-position two-port or three-port diverter valve. Only the pressure side flow will go through the valve. For an open-center system, in the OFF position the valve will bypass flow to the system return; in the ON position the valve will block the bypass to the system return. For a closedcenter system, in the OFF position the valve will block the pump port and

GENERAL SPECIFICATIONS The following specifications are for a hydraulic system which will deliver the performance of an HTMA Type 1 system. The HTMA Type 1 system has a flow requirement of 5 gpm, plus or minus 10%. The hydraulic system shall be an open-center type system and deliver the design flow rate over a pressure load range of 1000 to 2000 psi. Alternatively, the system may be a closed-center type having the same hydraulic performance. The system pressure limiting component shall begin to control at a pressure no less than 2150 psi / 148 bar and shall limit the maximum pressure to no more than 2250 psi / 155 bar. This component may be a relief valve, used with a non-pressure compensating pump system, or the pressure control used with a pressure-compensating pump system. The flow loss in the return side of the system must be low enough so that the return pressure (back pressure), when measured at the tool end of the tool hose is not more than 250 psi / 17 bar. This measurement is to be made with the system at minimum operating temperature and the hydraulic oil viscosity no higher than 400 SSU / 86 cst. For ISO Grade 32 hydraulic oil, the system temperature will be approximately 50° F / 10° C. The hydraulic system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140° F / 60° C at the maximum expected ambient temperature. The minimum cooling capacity to dissipate tool-

generated heat is 3 hp / 7,635 BTU/hr. This cooling capacity may be modified taking into consideration intended tool operation duty cycle and system generated heat.

The hydraulic system shall have a return line filter rated for 25 micron nominal filtration. The filter shall have a flow capacity of at least 15 gpm.

The hydraulic system shall use a fluid which has a viscosity of 150-225 SSU / 32-50 cst at 100° F / 38° C. Hydraulic fluids of petroleum base with anti-wear properties and high viscosity indexes over 140 will meet fluid requirements over an wide range of operating temperatures.

DETAIL SPECIFICATIONS

The hydraulic reservoir shall be of a metal construction with a fluid holding capacity of 8 to 13 gallons. The reservoir shall include a vented filler/breather with a filter basket. It shall have a 140-mesh or 125 micron pump suction strainer located near the bottom and a rigid internal baffle to prevent direct cross flow from return to suction. The fluid return shall

HANDHELD TOOLS

SYSTEM SPECIFICATIONS

If bi-directional tools will be used, the directional control valve shall be a ³/₄-inch size three-position, four-port valve. The valve spool shall be a motor spool. For an open-center system, all ports must be connected to the tank port in the neutral position. For a closed-center system, the tool ports must be connected together. It must be rated for working pressure of at least 2500 psi.

connect the tool to the return; in the ON position the valve will connect the

pump to the tool. It must be rated for working pressure of at least 2500 psi

SYSTEM SPECIFICATIONS

The relief valve may be a separate component or integral to the directional control valve. It may be either direct operating or pilot operated. It shall be set with the cracking pressure at 2150 psi / 148 bar. The maximum full-flow bypass pressure shall not be more than 2250 psi / 155 bar.

The air-to-oil cooler must be sized and placed to have the required heat rejection capacity. If the vehicle engine does not have a temperaturecontrolled fan, the oil cooler may be mounted in front of the vehicle radiator. The cooler will be the largest that will cover the radiator and must be at least 1 1/2 inches thick. The oil cooler must have low enough air flow resistance so as not to seriously reduce the vehicle cooling capacity. If the vehicle has a temperature-controlled fan, then an air-to-oil cooler with fan(s) must be selected. This cooler must be installed where it will have unimpeded air flow. The ports in the cooler shall be at least 1-inch size. Integral to the cooler or separately installed with the cooler shall be a bypass check valve or thermal diverter valve to allow fluid to bypass the cooler at low temperatures and high viscosities until the fluid temperature reaches

working temperatures. If a thermal diverter valve is used, it should have a temperature setting between 85° and 95° F / 29° and 35° C. If a separately-fanned cooler is selected, it shall have a thermal switch to turn on the fan(s) when oil flows through the cooler.

The system return lines shall have an inside diameter of .75 or 1.00 inch. The lines shall have a working pressure rating of at least 250 psi.

The hydraulic system shall have HTMA flush-face quick-acting couplers for connecting tools to the system. The coupler nose shall be on the pressure port and the coupler body shall be on the return port. These will be located according to the requirements of the end-user.

All connections shall be assembled and sealed to assure there will be no leaks. All components shall be suitable for mobile hydraulic systems and have flow capacity and working pressures which meet the requirements of the system.

All lines shall be installed and restrained to prevent contact with hot engine components and prevent fatique failure due to vibration or abrasion. The system shall be flushed clean and filled with clean hydraulic fluid.

The system will be accepted after verification by the customer that the system performance meets specifications.

HYDRAULIC SYSTEM SPECIFICATIONS SUITABLE FOR POWERING HTMA TYPE II **HYDRAULIC TOOLS**

STANLEY

Infrastructure

GENERAL SPECIFICATIONS

The following specifications are for a hydraulic system which will deliver the performance of an HTMA Type 2 system. The HTMA Type 2 system has a flow requirement of 8 gpm, plus or minus 10%.

The hydraulic system shall be an open-center type system and deliver the design flow rate over a pressure load range of 1000 to 2000 psi. Alternatively, the system may be a closed-center type having the same hydraulic performance.

The system pressure limiting component shall begin to control at a pressure no less than 2150 psi / 148 bar and shall limit the maximum pressure to no more than 2250 psi / 155 bar. This component may be a relief valve, used with a non-pressure compensating pump system, or the pressure control used with a pressure-compensating pump system.

The flow loss in the return side of the system must be low enough so that the return pressure (back pressure), when measured at the tool end of the tool hose is not more than 250 psi. This measurement is to be made with the system at minimum operating temperature and the hydraulic oil viscosity no higher than 400 SSU / 86 cst. For ISO Grade 32 hydraulic oil, the system temperature will be approximately 50° F / 10° C.

The hydraulic system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140° F / 60° C at the maximum expected ambient temperature. The minimum cooling capacity to dissipate toolgenerated heat is 5 hp / 12,725 BTU/hr. This cooling capacity may be modified taking into consideration intended tool operation duty cycle and system generated heat.

The hydraulic system shall have a return line filter rated for 25 micron nominal filtration. The filter shall have a flow capacity of at least 25 gpm.

The hydraulic system shall use a fluid which has a viscosity of 150-225 SSU / 32-50 cst at 100° F / 38° C. Hydraulic fluids of petroleum base with anti-wear properties and high viscosity indexes over 140 will meet fluid requirements over an wide range of operating temperatures.

DETAIL SPECIFICATIONS

Infrastructure

STANLEY

The relief valve may be a separate component or integral to the directional The hydraulic reservoir shall be of a metal construction with a fluid holding control valve. It may be either direct operating or pilot operated. It shall be capacity of 12 to 20 gallons. The reservoir shall include a vented filler/ set with the cracking pressure at 2150 psi / 148 bar. The maximum full-flow breather with a filter basket. It shall have a 140-mesh or 125 micron bypass pressure shall not be more than 2250 psi / 155 bar. pump suction strainer located near the bottom and a rigid internal baffle to prevent direct cross flow from return to suction. The fluid return shall The air-to-oil cooler must be sized and placed to have the required heat be below the lowest fluid level in order to prevent air entrainment. The rejection capacity. If the vehicle engine does not have a temperaturereservoir shall include a fluid level indicator to show fluid level from the controlled fan, the oil cooler may be mounted in front of the vehicle minimum requiring fill to the maximum showing full. It shall include a drain, radiator. The cooler will be the largest that will cover the radiator and low near the bottom, to provide for draining settled-out water or complete must be at least 1 ½ inches thick. The oil cooler must have low enough air emptying of the reservoir. There shall be provision for access to the inside flow resistance so as not to seriously reduce the vehicle cooling capacity. for servicing the suction strainer and cleaning the reservoir. If the vehicle has a temperature-controlled fan, then an air-to-oil cooler with fan(s) must be selected. This cooler must be installed where it will have unimpeded air flow. The ports in the cooler shall be at least 1-inch size. Integral to the cooler or separately installed with the cooler shall be a bypass check valve or thermal diverter valve to allow fluid to bypass the The pump shall be sized to deliver the system design flow at a shaft speed cooler at low temperatures and high viscosities until the fluid temperature determined by the prime mover speed and any speed reduction between it reaches working temperatures. If a thermal diverter valve is used, it should and the pump. For vehicles with automatic transmissions, the engine speed have a temperature setting between 80° and 90° F / 26° and 32° C. If should be between 1700 and 2000 rpm. For example, if the power takeoff a separately-fanned cooler is selected, it shall have a thermal switch to turn speed ratio is .75, then the pump speed will be 1275 to 1500 rpm. The pump on the fan(s) when oil flows through the cooler.

The fluid line from the reservoir to the pump suction port shall have an inside diameter of 1.25 inches / 32 mm.

displacement will be between 1.449 and 1.232 cubic inches per rev. For a fixed-displacement pump, these displacements will be that of the pump. For variable-displacement pumps, these displacements with be the pump displacement setting while operating the hydraulic tool system. The pump shall have a maximum pressure rating of at least 3000 psi.

The pressure line from the pump outlet to the directional valve shall have an inside diameter of 0.75 inches / 19 mm. The working pressure of the line shall be at least 2500 psi.

All connections shall be assembled and sealed to assure there will be no If no bi-directional tools will be used, the directional control valve shall leaks. All components shall be suitable for mobile hydraulic systems and have be ³/₄-inch size two-position two-port or three-port diverter valve. Only the flow capacity and working pressures which meet the requirements of the pressure side flow will go through the valve. For an open-center system, in system the OFF position the valve will bypass flow to the system return; in the ON All lines shall be installed and restrained to prevent contact with hot engine position the valve will block the bypass to the system return. For a closedcomponents and prevent fatigue failure due to vibration or abrasion. The center system, in the OFF position the valve will block the pump port and system shall be flushed clean and filled with clean hydraulic fluid. connect the tool to the return; in the ON position the valve will connect the pump to the tool. It must be rated for working pressure of at least 2500 psi.

If bi-directional tools will be used, the directional control valve shall be a ³/₄-inch size three-position, four-port valve. The valve spool shall be a motor spool. For an open-center system, all ports must be connected to the tank port in the neutral position. For a closed-center system, the tool ports must be connected together. It must be rated for working pressure of at least 2500 psi / 172 bar.

HANDHELD TOOLS

SYSTEM SPECIFICATIONS

The system return lines shall have an inside diameter of .75 or 1.00 inch. The lines shall have a working pressure rating of at least 250 psi.

The hydraulic system shall have HTMA flush-face quick-acting couplers for connecting tools to the system. The coupler nose shall be on the pressure port and the coupler body shall be on the return port. These will be located according to the requirements of the end-user.

The system will be accepted after verification by the customer that the system performance meets specifications.

SYSTEM SPECIFICATIONS

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.

STANLEY Infrastructure

HTMA RECOMMENDATIONS FOR A HYDRAULIC SYSTEM OPERATING TYPE II HYDRAULIC TOOLS:

- 8 gpm ± 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.

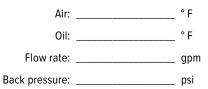
Select an open site where the air is relatively calm. Place one thermometer in the oil reservoir to measure the temperature of the circulating oil (surface mounted tank thermometers do not adequately measure the temperature of the bulk system oil). Hang the other thermometer in still air to measure the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



STANLEY Infrastructure

HYDRAULIC SYSTEM'S CAPACITY TO DELIVER FLOW AGAINST 2000 PSI TEST

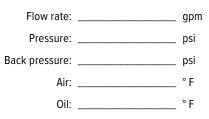
Close the load valve to where the pressure gage reads 2000 psi. Record flow rate, back pressure, and oil temperature.



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.



CALCULATE THE TOOL LOAD HP COOLING CAPACITY FOR AN EFFECTIVE 40 DEGREE TEMPERATURE DIFFERENCE, AIR TO OIL USING THE FOLLOWING FORMULA.

| (Pressure – Back pressure) x gpm | = | hp (horse power) |
|--|---|------------------|
| 43 x (Oil temperature – Air Temperature) | | |

| ple: | | | |
|------|----------------|------|-----|
| | Flow rate: | 5 | gpm |
| | Pressure: | 1500 | psi |
| | Back pressure: | 100 | psi |
| | Air: | 70 | °F |
| | Oil: | 120 | °F |
| | | | |
| | | | |

Exami

(1500 – 100) x 5 = 43 x (120 - 70)

3.3 hp at 40° F temperature difference HANDHELD TOOLS

SYSTEM SPECIFICATIONS



COMPLETE SOLUTIONS AND SERVICE FOR HEAVY AND COMPACT EQUIPMENT



6430 SE Lake Rd. Portland, OR 97222 Tel. 833.723.1843 Fax 503.652.1780

www.stanleyinfrastructure.com 0920

