CRIMP, HAMMER, CUT, DIG, DRIVE, SAV, TAMP, PUMP, DRILL, TIGHTEN,

YOUR WAY THROUGH THE DAY.

ELECTRIC UTILITY TOOLS



HYDRAULIC TOOLS

GREAT BRAND, GREAT TOOLS

Stanley Hydraulic Tools 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 the Stanley Works, a 165 year old company committed to the manufacture and distribution of quality tools for the professional, industrial, and consumer, we at Stanley Hydraulic Tools are dedicated to providing our customers with innovative customer-driven product designs, world class quality, unmatched product support, and superior value.

GLOBAL REPRESENTATION

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

OUR GOAL

Stanley Hydraulic Tools is committed to exceeding our customers' expectations through continuous innovation, excellence, quality, value and service.

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.











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ELECTRICAL MARKET STORY

POWERFUL TOOLS FOR POWERFUL JOBS





Stanley Hydraulic Tools offers the most complete line of hydraulic tools in the world and has been a leading supplier of equipment to the electric utility industry for decades.

Hydraulic tools are the perfect match for utility trucks equipped with hydraulic power such as bucket trucks or digger-derrick trucks. Hydraulic tools perform tough tasks such as setting hardware on utility poles, crimping cable connections, tamping utility poles after setting, pumping utility vaults, and clearing right of ways. Utility trucks with hydraulic tool circuits or compact power units meeting HTMA standards can operate tools for many of the day-to-day tasks performed by utility workers.

Beginning in 1843 when Frederick Stanley established a little shop in New Britain, Connecticut to manufacture door bolts and other hardware from wrought iron, professionals have turned to Stanley tools for their toughest jobs. Our leadership in hydraulic tools was solidified with our acquisition of Ackley Hydraulic Tools in 1972. Located in Milwaukie, Oregon, Ackley had established itself in the electric utility industry with a specialized line of tools for utility workers including tree trimmers, pole tampers, crimpers, impact wrenches, and more. Our expertise was furthered with the addition of Dubuis in 2006. Located in Europe and operating since 1949, Dubuis adds a line of precision-engineered battery-powered hydraulic crimpers and cutters to our product offering.

BREAKERS

LIGHT TO MEDIUM DUTY BREAKERS



MODELS BR37 TO BR45 - 35-55# CLASS

SPECIFICATIONS

Application: Light concrete or asphalt breaking or scoring; small rock breaking; rod driving, tamping. Tool Bit Size: Varies. See page 4. Hyd. Flow: BR37 & BR45: 7-9 gpm/26-34 lpm BR40: 4-6 gpm/15-24 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 coupler

FEATURES

- Higher impact than comparably sized alternative platforms
- No tool exhaust
- Hydraulic oil provides continuous lubrication of internal parts for longer service life
- Modular design platform improves serviceability
- Feathering ON/OFF valve to control speed and make initial tool placement easy
- Trouble-free diaphragm accumulator for added blow energy
- Handles system back pressures up to 250 psi / 17 bar
- T-type handle
- EZ-Ride[™] or standard foot
- Hose whips and flush-face, quick disconnect couplers

The BR37, BR40, and BR45 are light to medium duty breakers for work in the 35 to 55 pound class.

MEDIUM DUTY BREAKERS

MODELS BR67 - 70# CLASS

The BR67 is a medium to heavy-duty breaker for work in the 70 pound class and above. A lower noise level than a pneumatic breaker is a major benefit of hydraulic percussion tools. No tool exhaust, high blow energy and continuous lubrication make hydraulic paving breakers the best choice.

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: 67 lbs / 30 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 coupler

FEATURES

- Higher impact than comparably sized alternative platforms
- No tool exhaust
- Hydraulic oil provides continuous lubrication of internal parts for longer service life
- Modular design platform improves serviceability
- Feathering ON/OFF valve to control speed and make initial tool placement easy
- Trouble-free diaphragm accumulator for added blow energy
- Handles system back pressures up to 250 psi / 17 bar
- T-type handle
- EZ-Ride[™] or standard foot
- Strong tie rod design for durability
- Hose whips and flush-face, quick disconnect couplers





BR67

BR45

BREAKERS

HEAVY DUTY BREAKERS

MODELS BR87 - 90# PLUS CLASS



The BR87 is a heavy-duty 90 pound class breaker. A lower noise level than a pneumatic breaker is a major benefit of hydraulic percussion tools. No tool exhaust, high blow energy and continuous lubrication make hydraulic paving breakers the best choice.

SPECIFICATIONS

Application: Concrete or asphalt breaking or scoring; small rock breaking; rod, anchor, & stake driving. Tool Bit Size: 6 x 1-1/8 in. or 6 x 1-1/4 in. See below. Hyd. Flow: 7-9 gpm / 26-34 lpm Weight: 83 lbs / 37.7 kg Length: 29 in. / 73.5 cm Width: 16 in. / 41 cm

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

FEATURES

- Higher impact than comparably sized alternative platforms
- No tool exhaust

- Hydraulic oil provides continuous lubrication of internal parts for longer service life
- Modular design platform improves serviceability
- Feathering ON/OFF valve to control speed and make initial tool placement easy
- Trouble-free diaphragm accumulator for added blow energy
- Handles system back pressures up to 250 psi / 17 bar
- T-type handle
- EZ-Ride[™] or standard foot
- Strong tie rod design for durability
- Hose whips and flush-face, quick disconnect couplers

BREAKERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
BR37	BR37110	37 lbs / 17 kg	22.5 in. / 57 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
BR40	BR40550	41 lbs / 18 kg	23.5 in. / 60 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
	BR45120	48 lbs / 22 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
DD4E	BR45120E	48 lbs / 22 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
DN43	BR45130E	48 lbs / 22 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
	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
	BR67120	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	1-1/8 x 6 in. Hex	T Handle
DDC7	BR67120E	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	1-1/8 x 6 in. Hex	EZ Ride Foot
DR0/	BR67130	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	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
	BR87120	83 lbs / 37.7 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
BR87	BR87130	83 lbs / 37.7 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	83 lbs / 37.7 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 Ft

BREAKER ACCESSORIES

Model	Part No.	Description	Model	Part No.	Description
	02328	Clay Spade, 16 in. U/C		02334	3 in. Chisel, 14 in. U/C
	02330	3 in. Chisel, 14 in. U/C	1.1/0 in Hey v C in	03990	Chisel Point 14 in. U/C
	02339	1 in. Chisel, 14 in. U/C	1-1/8 III. HEX X 6 III.	04176	Ground Rod Driver, 1 in. rod
7/8 in. Hex x 3-1/4 in.	02341	Asphalt Cutter, 5 in. blade x 11 in. U/C		08106	Asphalt Wedge
	04401	Moil Point, 18 in. U/C		02335	Asphalt Cutter, 5 in. blade x 11 in. U/C
	04961	Moil Point, 14 in. U/C		02336	Moil Point, 14 in. U/C
	05255	Rod Driver, 3/4 in.		02337	3 in. Chisel, 14 in. U/C
	07702	Moil Point, 14 in. U/C		02338	1 in. Chisel with heavy duty 14 in. U/C
	07703	Narrow Point, 14 in. U/C	1.1/4 in Hey v 6 in	04367	Ground Rod Driver, 1 in. rod
1 in. Hex x 4-1/4 in.	07704	3 in. Chisel, 14 in. U/C	1-1/4 III. HEX X 0 III.	04404	Moil Point Heavy Duty 18 in.
	07705	Clay Spade, 5-1/2 in. blade		04405	Clay Spade, 18 in. blade
	07706	Asphalt Wedge, 3 in. wide	<u>_</u>	08119	Asphalt Wedge
	02331	Clay Spade, 5-1/2 in. blade		09262	Clay Spade, 5-1/2 in. blade
1-1/8 in. Hex x 6 in.	02332	Asphalt Cutter 5 x 11 in. U/C		17782	Detachable Shank
	02333	Moil Point 14 in, U/C			State The second se



YOUR MAIN SOUEEZE

BATTERY-POWERED CRIMPERS

MODEL BC06

The BC06 is a light weight tool for service entrance termination and underground crimping that accommodates wires up to 4/0. The BC06 is used to crimp sleeves, H-taps, C-taps and lugs commonly used in service entrance connectors. It features advance & hold / retract & hold operation with rapid advance that delivers cycle time of just 3.4 seconds and features auto shutoff when a complete crimp has been achieved. Head swivels 180°. Designed with built-in safety features and comes with a 2-year limited warranty and is available with vehicle charger, wall-mount charger, or no charger.

SPECIFICATIONS

Application: Service entry termination and underground crimping of sleeves, H-taps, C-taps and lugs commonly used in service entry connectors Head Type: Permanent D3 and "O" Nose Permanent D3 and "BG" Nose Replaceable Kearney "O" Type Dies (All heads accept "W" style dies) Crimping Capacity: Copper #8 – 500 MCM Aluminum #8 – 300 MCM H-Taps up to 4/0 - 4/0Crimping Force: 6 ton / 53 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 6.5 lb / 3.0 kg Length: 20 in. / 508 mm Width: 3.7 in. / 95 mm Height: 4.6 in. / 117 mm Head Rotation: 180° Operation: Advance & hold / retract & hold with rapid advance and auto shutoff

For order information, see page 8

MANUAL CRIMPERS

C130-26

MODELS C130-26/ C130-38/ C130-44

Stanley's hand operated crimping tools are light weight and self contained. Choose from three (3) different head openings that accept "U" style dies for 12 ton compression connectors. The quick-release die retainer system allows for easy, one handed die removal/installation. All models have a 2-stage pump for rapid advance of the die ram. Audible click when full crimp is reached. Piston returns with a twist of the rotating handle. Includes canvas bag.

MANUAL CRIMPERS

Model	Crimp Force	Head Opening	Head Rotation	Capacity	Weight	Length	Width	Height
C130-26	12 ton/ 107 kN	1.0 inch/ 26mm	350°	636 MCM AL, 500 MCM CU, 556.5 ACSR	11.8 lbs/ 5.4 kg	21.5 in./ 545 mm	2.8 in/ 70 mm	6.3 in/ 160 mm
C130-38	12 ton/ 107 kN	1.5 inch/ 38 mm	350°	750 MCM AL & CU, 556.5 MCM ACSR	14.2 lbs/ 6.4 kg	22.8 in./ 580 mm	2.8 in/ 70 mm	6.3 in/ 160 mm
C130-44	12 ton/ 107 kN	1.75 inch/ 44 mm	350°	750 MCM AL & CU, 556.5 MCM ACSR	14.3 lbs/ 6.5 kg	22.8 in./ 580 mm	2.8 in/ 70 mm	6.3 in/ 160 mm

The C130-WH3 hand operated crimping tool is a light weight and self contained compression tool used to install crimp type electrical connectors using Kearney style WH2/WH3 dies. The C130-WH3 has a 1.5 inch head opening and features a 2-stage pump for rapid advance. Audible click when full crimp is reached. Piston returns with a twist of the rotating handle. Includes canvas bag.

SPECIFICATIONS

Application: Crimping electrical connections that require 12 tons of crimping force Head Type: 12 ton head accepts Kearney style WH2/WH3 dies.

MODEL C130-WH3

MANUAL CRIMPERS

MANUAL CRIMPERS

Model	Crimp Force	Head Opening	Head Rotation	Capacity	Weight	Length	Width	Height
C130-WH3	12 ton/ 107 kN	1.5 inch/ 38mm	350°	Tension fitting 477 26/7 ACSR, Terminals up to 1033 MCM stranded AL	14.3 lbs/ 6.5 kg	22.8 in./ 580 mm	2.8 in/ 70 mm	6.3 in/ 160 mm

BATTERY-POWERED CRIMPERS

MODEL CTB06201



Order model CTB06201W or CTB06201V

The CTB06201 is a 6 ton / 53 kN dieless crimping tool. The continuous swivel head has an open face design with capacities up to 500 MCM AL & CU. This unit is designed to crimp Anderson style connections as well as other connections that adhere to the ANSI C119.4 specification. Tool comes with a 2-year limited warranty and is available with vehicle charger or wall-mount charger.

SPECIFICATIONS

Application: Service entry termination and underground crimping of Anderson style connections as well as other ANSI C119.4 compliant connections

Head Type: Dieless Open Face Crimping Capacity: #10-500 MCM AL & CU Crimping Force: 6 ton / 53 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 13 lb / 6.2 kg Length: 16 in. / 410 mm Width: 4 in. / 100 mm Height: 12 in. / 305 mm Head Rotation: 360° Continuous

Operation: Advance & hold / retract & hold with rapid advance and audible pop to signal complete cycle



BATTERY-POWERED CRIMPERS



Order model CTB06301W or CTB06301V

MODEL CTB06301

The CTB06301 is a 6 ton / 53 kN dieless crimping tool. The continuous swivel head has a flip-top design with capacities up to 750 MCM AL & CU. This unit is designed to crimp Anderson style connections as well as other connections that adhere to the ANSI C119.4 specification. Comes with a 2-year limited warranty and is available with vehicle charger or wall-mount charger.

SPECIFICATIONS

Application: Service entry termination and underground crimping of Anderson style connections as well as other ANSI C119.4 compliant connections

Head Type: Dieless Flip-Top Crimping Capacity: #10-750 MCM AL & CU Crimping Force: 6 ton / 53 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 13 lb / 6.2 kg Length: 12 in. / 304 mm Width: 4 in. / 100 mm Height: 12 in. / 305 mm Head Rotation: 360° Continuous Operation: Advance & hold / retract & hold with rapid advance and audible pop to signal complete cycle

BATTERY-POWERED CRIMPERS

MODEL CTB12101

The CTB12101 is a pistol-style 12 ton / 107 kN crimping tool with a C-shaped head that swivels 350° and accepts 12-ton "U" style dies. The unit is designed with 2-stage pump that delivers rapid advance functionality to cut cycle time. CE certified, comes with a 2-year limited warranty and is available with vehicle charger or wall-mount charger.

SPECIFICATIONS

Application: Battery powered crimping of electrical connections that require 12 tons of crimping force Head Type: 1 inch head opening accepts "U" style dies Crimping Capacity: 636 MCM AL, 500 MCM CU, 556.5 ACSR Crimping Force: 12 ton / 107 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 15 lb / 6.8 kg Length: 15 in. / 380 mm Width: 4 in. / 100 mm Height: 12 in. / 305 mm Head Rotation: 350°

Operation: Advance & hold / retract & hold with rapid advance and audible pop to signal complete cycle



Order model CTB12101W or CTB12101V

BATTERY-POWERED CRIMPERS



a C-shaped head that swivels 350° and accepts 12-ton "U" style dies. The unit is designed with 2-stage pump that delivers rapid advance functionality to cut cycle time. CE certified, comes with a 2-year limited warranty and is available with vehicle charger or wall-mount charger.

The CTB12201 is a pistol-style 12-ton crimping tool with

SPECIFICATIONS

MODEL CTB12201

Application: Battery powered crimping of electrical connections that require 12 tons of crimping force Head Type: 1.5 inch head opening accepts "U" style dies Crimping Capacity: 750 MCM AL & CU, 556.5 MCM ACSR Crimping Force: 12 ton / 107 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 17 lb / 7.7 kg Length: 16 in. / 406 mm Width: 4 in. / 100 mm Height: 12 in. / 305 mm Head Rotation: 350° Operation: Advance & hold / retract & hold with rapid advance and audible pop to signal complete cycle

Order model CTB12201W or CTB12201V

BATTERY-POWERED CRIMPERS

MODEL CTB12301



Order model CTB12301W or CTB12301V

The CTB12301 is a pistol-style 12-ton crimping tool with a Kearney style head that swivels 350° and accepts WH2 / WH3 dies. The unit is designed with 2-stage pump that delivers rapid advance functionality to cut cycle time. Conforms to CE requirements, comes with a 2-year limited warranty and is available with vehicle charger or wall-mount charger.

SPECIFICATIONS

Application: For crimping overhead lines, tension fittings, and terminals. Head Type: 1.5 inch head opening accepts Kearney style WH2/WH3 dies. Adapter die part number 24787 (order separately) allows standard "U" style dies to be used in CTB12301 tool. **Crimping Capacity:** Tension Fitting 477 26/7 ACSR Terminals up to 1033 MCM Stranded AL **Crimping Force:** 12 ton / 107 kN **Battery:** 14.4V DC, 2.6 Ah, NiMH **Weight:** 17 lb / 7.7 kg **Length:** 17 lb / 7.7 kg **Length:** 17 in. / 430 mm **Width:** 4 in. / 100 mm **Height:** 13 in. / 320 mm **Head Rotation:** 350° **Operation:** Advance & hold / retract & hold with rapid advance and audible pop to signal complete cycle

BATTERY-POWERED CRIMPING TOOLS

Model*	Part No.	Charger Type	Crimping Force	Capacity	Compression Tooling
	BC0601WD0	110V AC Wall Charger	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0	D3 and "O" Nose
	BC0601WDB	110V AC Wall Charger	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0	D3 and "BG" Nose
	BC0601WK0	110V AC Wall Charger	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0 $$	Replaceable Kearney "O" Dies
	BC0601VDO	12V DC Vehicle Charger	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0 $$	D3 and "O" Nose
BC06	BC0601VDB	12V DC Vehicle Charger	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0	D3 and "BG" Nose
	BC0601VKO	12V DC Vehicle Charger	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0 $$	Replaceable Kearney "O" Dies
	BC0601NDO	N/A	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0 $$	D3 and "O" Nose
	BC0601NDB	N/A	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0	D3 and "BG" Nose
	BC0601NKO	N/A	6 ton / 53 kN	Copper #8 – 500 MCM, Aluminum #8 – 300 MCM, H-Taps up to 4/0 – 4/0	Replaceable Kearney "O" Dies
CTR06201	CTB06201W	110V AC Wall Charger	6 ton / 53 kN	#10-500 MCM AL & CU	Dieless Open Face
C1800201	CTB06201V	12V DC Vehicle Charger	6 ton / 53 kN	#10-500 MCM AL & CU	Dieless Open Face
CTD0C201	CTB06301W	110V AC Wall Charger	6 ton / 53 kN	#10-750 MCM AL & CU	Dieless Flip-Top
0100001	CTB06301V	12V DC Vehicle Charger	6 ton / 53 kN	#10-750 MCM AL & CU	Dieless Flip-Top
01010101	CTB12101W	110V AC Wall Charger	12 ton / 107 kN	636 MCM AL, 500 MCM CU, 556.5 ACSR	1.0 in. / 26 mm Burndy Y35 head accepts 12 ton "U" style Burndy dies
CIBIZIUI	CTB12101V	12V DC Vehicle Charger	12 ton / 107 kN	636 MCM AL, 500 MCM CU, 556.5 ACSR	1.0 in. / 26 mm Burndy Y35 head accepts 12 ton "U" style Burndy dies
CTD12201	CTB12201W	110V AC Wall Charger	12 ton / 107 kN	750 MCM AL & CU, 556.5 MCM ACSR	1.5 in. / 38 mm Burndy Y750 head accepts 12 ton "U" style Burndy dies
CIBIZZUI	CTB12201V	12V DC Vehicle Charger	12 ton / 107 kN	750 MCM AL & CU, 556.5 MCM ACSR	1.5 in. / 38 mm Burndy Y750 head accepts 12 ton "U" style Burndy dies
	CTB12301W	110V AC Wall Charger	12 ton / 107 kN	Tension Fitting 477 26/7 ACSR, Terminals up to 1033 MCM Stranded AL	Kearney style WH2 / WH3 dies. 1.5 in. / 38 mm opening
61012301	CTB12301V	12V DC Vehicle Charger	12 ton / 107 kN	Tension Fitting 477 26/7 ACSR, Terminals up to 1033 MCM Stranded AL	Kearney style WH2 / WH3 dies. 1.5 in. / 38 mm opening

* BC06 Standard Package comes with BC06 with lanyard, 2 batteries, 1 charger and 1 bucket bag. Economy package comes with BC06 with lanyard, 1 battery, no charger or bucket bag. CTB models include battery tool with carry strap, 2 batteries, 1 charger, and 1 hard case.



BATTERY-POWERED CRIMPING TOOL ACCESSORIES

Part No.	Description	Part No.	Description
66194	14.4 VDC, 2.6 Ah Battery, NiMH	68004	Jaw Replaceable Kearney "O" (Accepts "W" Style Dies) - BC06 Only
66233	Battery Charger, 110 VAC (Wall Charger)	24787	Kearney, Y-35 Die Adapter - CTB12301 Only
66234	Battery Charger, 12 VDC (Vehicle Charger)	66235	Carry Strap - All CTB & CCB Models Only
68002	DO, Jaw Permanent D3 and "O" Nose (Accepts "W" Style Dies) - BC06 Only	68273	Bucket Bag - BC06 Only
	DB Jaw Permanent D3 and "BG" Nose	68274	Lanyard - BC06 Only
68003	(Accepts "W" Style Dies) - BC06 Only	and and and	

HIGH-PRESSURE CRIMPING HEADS

MODEL XC130-26



The XC130-26 is a remote C-frame head that requires a 10,000 psi /700 bar pump to achieve 12 tons of crimping force. It can be operated from Stanley's GHA702 battery powered high pressure pump, Stanley's IP16 hydraulic intensifier (page 16), or other commercially available 10,000 psi pumps. The XC130-26 has a 1" head opening that uses "U" style dies and is a single acting tool. Comes with ¼" NPT male high pressure coupler.

SPECIFICATIONS

Application: Crimping electrical connections that require 12 tons of crimping force. Requires

10,000 PSI/700 bar pump Head Type: 1 inch head opening accepts "U" type dies Crimping Capacity: 636 MCM AL, 500 MCM CU, 556.5 ACSR Crimping Force: 12 ton / 107 kN Weight: 8.6 lb / 3.9 kg Length: 7.7 in. / 195 mm Width: 2.8 in. / 70 mm Height: 4.9 in. / 125 mm

HIGH-PRESSURE CRIMPING HEADS

MODEL XC130-38

The XC130-38 is a remote C-frame head that requires a 10,000 psi/700 bar pump to achieve 12 tons of crimping force. It can be operated from Stanley's GHA702 battery powered high pressure pump, Stanley's IP16 hydraulic intensifier (page 16), or other commercially available 10,000 psi pumps. The XC130-38 has a 1.5" head opening that uses "U" style dies and is a single acting tool. Comes with ¼" NPT male high pressure coupler.

SPECIFICATIONS

Application: Crimping electrical connections that require 12 tons of crimping force. Requires 10,000 PSI/700 bar pump. Head Type: 1.5 inch head opening accepts "U" style dies Crimping Capacity: 750 MCM AL & CU, 556.5 MCM ACSR

Crimping Force: 12 ton / 107 kN Weight: 10.4 lb / 4.6 kg Length: 9.1 in. / 230 mm Width: 2.8 in. / 70 mm Height: 4.5 in. / 115 mm



Order model XC130-38



GET A GRIP





Stanley "CT" Crimpers are the original low pressure crimping tools that offer many advantages over hand pump, battery and high pressure crimpers:

- 5-10 times faster than battery or high pressure tools
- Easier, quicker and less labor intensive to use than hand pump or pop tool
- Operate from truck system pressure no high pressure intensifier required An accurate built in pressure relief ensures that a full die load is achieved at the minimum 1650 psi and prevents over crimping if higher pressure is present
- Patented open center/closed center selector that permits use on either type of hydraulic system. Easy and accurate adjustment can be made with common tools
- Double Acting. This means that you have pressure to crimp and pressure to retract the ram which eliminates die "hang-up" on the connector. Double acting also means quicker crimps than with battery or high pressure tools which are single-acting spring return
- Continuous 360° rotation for easy crimp alignment
- Work at all temperatures. Won't die in the cold or slow down in the heat
- Reverse-flow check valve to prevent operation if tool is plumbed backwards

HYDRAULIC CRIMPER



The CT04 is a small lightweight tool ideal for service entrance termination and provides a crimping force of 4.4 tons / 4000 kg. The CT04 accepts 90% of available service entrance connectors and accommodates wires up to 4/0 in. / 13 mm diameter.

The CT04 is compatible with Kearney "D" Nest Dies, Kearney "O" Dies, and Burndy "W" Dies. Furnished with "D" nest dies.

SPECIFICATIONS

Application: Crimping service entrance connectors up to 4/0 Capacity: #6 to 4/0 Copper & Aluminum Conductor Flow: 3-9 gpm / 11-34 lpm Pressure: 1650-2500 psi / 114-172 bar Weight: 12 lbs / 5.5 kg Length: 20 in. / 50 cm Width: 3.75 in. / 9.5 cm Connection: 3/8 in. male pipe adapter to -8 SAE port



HYDRAULIC CRIMPER

MODEL CT10

MODEL CT04



The CT10 is available in 4 models furnished with one of the following heads: Burndy Style Y35 head; Kearney Style PH2 head; Burndy Style Y750 head with 1-1/2 inch opening; Kearney Style WH3 head with 1-1/2 inch opening. The CT10 provides a crimping force of 11 or 12 tons / 10,000 or 10,900 kg depending on the model. The CT10 is compatible with the following dies (model dependent):

Burndy Y35 Head Dies: Burndy Y35, L & H U-Type dies, Alcoa 12A, 12AC, 12HA, 12HAC, 30A dies; Anderson HC-12, HC12H dies, Huskie EP410, EP410T, EP430, EP510, EP410HT, RP410H, EP510H, PDY-1220, PDY-1216 dies; Thomas and Betts 12 ton dies.

Kearney PH2 Head Dies: Kearney PH2 dies; Huskie EP510K dies.

Kearney WH3 Head with 1-1/2 inch opening Dies: Kearney WH3 dies; Huskie EP510HK dies. Burndy Head with 1-1/2 inch opening Dies: Burndy Y35, Y750 BH dies; Alcoa 12A, 12AC, 12HA, 12HAC, 30A dies; Anderson HC-12, HC12H dies, Huskie EP410, EP410T, EP430, EP510, EP410HT, RP410H, EP510H, PDY-1220, PDY-1216 dies; Thomas and Betts 12 ton dies.

SPECIFICATIONS

Application: Hydraulic powered crimping of electrical connections that require 12 tons of crimping force Capacity: Varies by model number. See order information, page 12 Hyd. Flow: 3-9 gpm / 11-34 lpm Pressure: 1650-2500 psi / 114-172 bar Weight: 17 lbs / 7.7 kg Length: 22 in. / 57 cm Width: 7 in. / 18 cm Connection: 3/8 in. male pipe adapter to -8 SAE port



HYDRAULIC CRIMPER

MODEL CT15



The CT15 is available in 2 models: A dedicated Burndy Y46 head or a universal head that will accept Kearney style dies (PH4/PH14). With appropriate die holders, the universal model will allow the use of Burndy "P" type and "U" type dies. Die holders sold separately. The CT15 provides a crimping force of 15 tons / 13,600 kg.

SPECIFICATIONS

Application: Crimping connectors, terminals and lugs to electric power cable with 15 tons of force.

Capacity: 500 MCM Copper, 1500 MCM Aluminum and 795 MCM ACSR Hyd. Flow: 3-9 gpm / 11-34 lpm Pressure: 1650-2500 psi / 114-172 bar Weight: 29 lbs / 13.2 kg Length: 29 in. / 74 cm Width: 7 in. / 18 cm Connection: 3/8 in. male pipe adapter to -8 SAE port

HYDRAULIC CRIMPING TOOLS

Model	Part No.	Weight	Flow Range	Working Pressure	Full Relief Setting	Crimping Force	Capacity	Head Type
CT04	CT04016N	12 lbs / 5.5 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	4.4 ton / 4000 kg	#6-4/0	Kearney "D" Nest Kearney "O" Dies Burndy "W" Dies
CTOR	CT06026N	13 lbs / 5.9 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	6 ton / 5443 kg	#10-750 MCM Aluminum A#10-500 MCM Copper	Anderson VC6-FTVR
C106 -	CT06096N	13 lbs / 5.9 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	6 ton / 5443 kg	#10-750 MCM Aluminum A#10-500 MCM Copper	No Head
	CT10016N	17 lbs / 7.7 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	12 ton / 10,900 kg	500 MCM Copper 636 MCM Aluminum/556.5 ACSR	Burndy Y-35/U-Dies
	CT10056N	17 lbs / 7.7 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	11 ton / 10,000 kg	Tens. Fitting/47726-7 ACSR Term. thru 1033/MCM Straight Alum.	Kearney/PH2
CT10	CT10056DH	18.5 lbs / 8.4 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	12 ton / 10,900 kg	Tens. Fitting/47726-7 ACSR Term. thru 1033/MCM Straight Alum.	Kearney/WH3
	CT10066AN	19 lbs / 8.9 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	12 ton / 10,900 kg	750 MCM Copper/Alum.	Stanley1-5/8 Head/U-Dies
0715	CT15036GN	29 lbs / 13.2 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	15 ton / 13,600 kg	500 MCM Copper/1500 MCM Alum. 795 MCM ACSR	Burndy Y-46/P-Dies
CT15 -	CT15036UN	29 lbs / 13.2 kg	3-9 gpm / 11-34 lpm	1650-2000 psi / 114-140 bar	2250 psi / 155 bar	15 ton / 13,600 kg	500 MCM Copper/1000 MCM Alum. 795 MCM ACSR	Universal Head

HYDRAULIC CRIMPING TOOL ACCESSORIES

Model	Part No.	Description	Model	Part No.	Description
CT10056DH	24787	Kearney Y-35 Die Adapter (CT10056DH Only)	CT1E02GUN	33704	Die Holder, Y35 Burndy/U-Dies
1			C1150300N	60837	Die Holder, Y46 Burndy/P-Dies



CUTTING TOOLS

MANUAL CUTTERS



MODEL CG26

The CG26 is a guillotine type cutter used for cutting ground rod, guy wire, ACSR, copper & aluminum. Features automatic release with an audible click when force of 6.2 tons / 55 kN is reached. Piston returns by pressing red release trigger. 2-stage pump provides rapid advance. Includes canvas bag.

SPECIFICATIONS

Application: Cutting ACSR wire, copper, & aluminum Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking latch. 1.0 in. / 25 mm opening Cutting Capacity: 5/8" / 16 mm standard guy wire, 1/2" / 13 mm ground rod, up to 350 MCM CU, up to 556.5 MCM AL & ACSR Cutting Force: 6.2 ton / 55kN Weight: 6.4 lb / 2.9 kg Length: 16.9 in. / 430 mm Width: 2.0 in. / 52 mm Height: 5.5 in. / 140 mm Head Rotation: 180° Operation: Two-stage hydraulic system reduces the number of pumps

MANUAL CUTTERS

MODEL CG40

The CG40 is a guillotine type cutter used for cutting ACSR wire, copper, aluminum, EHS, guy wire and ground rods. Features automatic release with an audible click when force of 10 tons / 88 kN is reached. Piston returns with a twist of the rotating handle. 2-stage pump provides rapid advance. Includes canvas bag.

SPECIFICATIONS

Application: ACSR, aluminum, copper, EHS, guy wire & ground rods

Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking pin. 1.6 in. / 40 mm opening Cutting Capacity: 1578 MCM AL & CU, 1500 MCM ACSR, 0.7 in. / 18 mm diameter guy wire, 0.75 in. / 19 mm ground rods, 61,000 PSI maximum hardness Cutting Force: 10 ton / 88 kN Weight: 13 lb / 5.9 kg Length: 25.4 in. / 645 mm Width: 3.3 in. / 85 mm Height: 6.5 / 165 mm Head Rotation: 350° Operation: Two-stage hydraulic system reduces the number of pumps



MANUAL CUTTERS

MODEL CG55



The CG55 is a guillotine type cutter used for cutting copper and aluminum and telecommunication cable up to 2.2 inches. Features automatic release with an audible click when force of 4.8 tons / 43 kN is reached. Piston returns by pressing red release trigger. 2-stage pump provides rapid advance. Includes canvas bag.

SPECIFICATIONS

Application: Cutting Aluminum & Copper Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking latch. 2.2 in. / 55 mm opening Cutting Capacity: Up to 1500 MCM AL, up to 1000 MCM CU, AL overhead wire, up to 1000 MCM AL 25kv, underground wire Cutting Force: 4.8 ton / 43 kN Weight: 8.2 lb / 3.7 kg Length: 22.0 in. / 560 mm Width: 2.2 in. / 55 mm Height: 5.5 in. / 140 mm Head Rotation: 350° Operation: Two-stage hydraulic system reduces the number of pumps



CUTTING TOOLS



The CCB16, with a 1.6 in. / 40 mm opening and 10 tons / 88 kN of force is ideal for cutting ACSR, copper, aluminum, EHS, standard guy wire and ground rod up to 0.75 in. / 19 mm. Features advance & hold / retract & hold functionality with rapid advance. Tool is covered by a 2-year limited warranty.

With a massive 3.3 in. / 85 mm

opening and 6.2 tons / 55 kN of

force, the CCB33 is an excellent

choice for cutting copper, aluminum, and telecommunication cables.

Features advance & hold / retract

advance. Tool is covered by a 2-year

& hold functionality with rapid

limited warranty.

SPECIFICATIONS

Application: ACSR, aluminum, copper, EHS, guy wire & ground rods Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking pin. 1.6 in. / 40 mm opening

Cutting Capacity: Up to 1578 MCM AL & CU, 1500 MCM ACSR, 0.7 in. / 18 mm diameter guy wire, 0.75 in. / 19 mm ground rods, 61,000 PSI maximum hardness

BATTERY CUTTERS

Cutting Force: 10 ton / 88 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 17 lb / 7.7 kg Length: 19 in. / 480 mm Width: 4 in. / 100 mm Height: 13 in. / 320 mm Head Rotation: 350°

Operation: Advance & hold / retract & hold operation. Two-stage hydraulic system increases cycle speed. Automatic release when full force of 10 tons / 88 kN is reached.

MODEL CCB22

CCB22

The CCB22 has a 2.2 in. / 55 mm opening and is designed to cut copper and aluminum cables. The unit features advance & hold / retract & hold functionality with rapid advance and is covered by a 2-year limited warranty.

BATTERY CUTTERS

SPECIFICATIONS

MODEL CCB33

CCB33

Application: Aluminum & copper cables

Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking latch. 2.2 in. / 55 mm opening

Cutting Capacity: Up to 1500 MCM AL, up to 1000 MCM CU wire, AL overhead wire, up to 1000 MCM 25kV AL, underground wire Cutting Force: 4.8 ton / 43 kN Weight: 16.6 lb / 6.2 kg Length: 22 in. / 560 mm Width: 3.4 in. / 100 mm Height: 13 in. / 320 mm Head Rotation: 350° Operation: Advance & hold / retract & hold operation. Two-stage hydraulic system increases cycle speed. Automatic release when full force of 4.8 tons / 43 kN is reached.

Battery: 14.4V DC, 2.6 Ah, NiMH

SPECIFICATIONS

Application: Copper, aluminum, and telephone communication cables Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking pin. 3.3 in. / 85 mm opening Cutting Capacity: AL, CU, &

telephone cables to 3.3 in. / 85 mm overall diameter **Cutting Force:** 6.2 ton / 55 kN Battery: 14.4V DC, 2.6 Ah, NiMH Weight: 20 lb / 9 kg Length: 22 in. / 560 mm Width: 3.4 in. / 100 mm Height: 13 in. / 340 mm Head Rotation: 350° Operation: Advance & hold / retract & hold operation. Two-stage hydraulic system increases cycle speed. Automatic release when full force of 6.2 tons / 55 kN is reached.

BATTERY CUTTING TOOLS

Model	Part No.	Charger Type	Cutting Force	Capacity
00010	CCB16001W	110V AC Wall Charger	10 ton / 88 kN	Up to 1578 MCM AL & CU, 1500 MCM ACSR, 0.7 in. / 18 mm diameter guy wire, 0.75 in. / 19 mm ground rods, 61,000 PSI maximum hardness
CCB10	CCB16001V	12V DC Vehicle Charger	ger 10 ton / 88 kN	Up to 1578 MCM AL & CU, 1500 MCM ACSR, 0.7 in. / 18 mm diameter guy wire, 0.75 in. / 19 mm ground rods, 61,000 PSI maximum hardness
CCD22	CCB22001W	110V AC Wall Charger	4.8 ton / 43 kN	Up to 1500 MCM AL, up to 1000 MCM CU wire, AL overhead wire, up to 1000 MCM 25kV AL, underground wire
CUB22	CCB22001V	12V DC Vehicle Charger	4.8 ton / 43 kN	Up to 1500 MCM AL, up to 1000 MCM CU wire, AL overhead wire, up to 1000 MCM 25kV AL, underground wire
CCD22	CCB33001W	110V AC Wall Charger	6.2 ton / 55 kN	AL, CU, & telephone cables to 3.3 in. / 85 mm overall diameter
ULD33	33 CCB33001V 12V DC Vehicle Charger	6.2 ton / 55 kN	AL, CU, & telephone cables to 3.3 in. / 85 mm overall diameter	

BATTERY CUTTING TOOL ACCESSORIES

Part No.	Description		Part No.	Description
66194	14.4 VDC, 2.6 Ah Battery, NiMH		66247	Blade, CCB16 (1 only, 2 required)
66233	Battery Charger, 110 VAC (Wall Charger)	1	66235	Carry Strap - All CCB Models
66234	Battery Charger, 12 VDC (Vehicle Charger)	Ľ		

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CUTTING TOOLS

HIGH-PRESSURE CUTTING HEADS



MODEL XCG25

The XCG25 is a remote cutting head that requires a 10,000 psi /700 bar pump to achieve full cutting capacity. It can be operated from Stanley's GHA702 battery powered high pressure pump, Stanley's IP16 hydraulic intensifier (page 16), or other commercially available 10,000 psi pumps. The XCG25 has a 1" capacity and comes with ¼" NPT male high pressure coupler.

SPECIFICATIONS

Application: Cutting ground rod, guy wire, ACSR, copper, & aluminum

Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking latch.
1.0 in. / 25 mm opening
Cutting Capacity: 5/8" / 16 mm standard guy wire, 1/2" / 13 mm ground rod, up to 350 MCM CU, up to 556.5 MCM AL & ACSR
Cutting Force: 6.2 ton / 55 kN
Weight: 5.3 lb / 2.4 kg
Length: 8.5 in. / 215 mm
Width: 2.1 in. / 52 mm
Height: 3.5 in. / 90 mm

HIGH-PRESSURE CUTTING HEADS

MODEL XCG40

The XCG40 is a remote cutting head that requires a 10,000 psi /700 bar pump to achieve full cutting capacity. It can be operated from Stanley's GHA702 battery powered high pressure pump, Stanley's IP16 hydraulic intensifier (page 16), or other commercially available 10,000 psi pumps. The XCG40 has a 1.6 inch capacity and comes with ¼" NPT male high pressure coupler.

SPECIFICATIONS

Application: ACSR, aluminum, copper, EHS, guy wire & ground rods Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking pin. 1.6 in. / 40 mm opening Cutting Capacity: Up to 1578 MCM AL & CU, up to 1500 MCM ACSR, 0.7 in. / 18 mm diameter guy wire, 0.75 in. / 19 mm ground rods, 61,000 PSI maximum hardness Cutting Force: 10 ton / 88 kN Weight: 9.5 lb/ 4.3 kg Length: 11.2 in. / 285 mm Width: 3.4 in. / 85 mm Height: 4.1 in. / 105 mm



HIGH-PRESSURE CUTTING HEADS



MODEL XCG55

The XCG55 is a remote cutting head that requires a 10,000 psi /700 bar pump to achieve full cutting capacity. It can be operated from Stanley's GHA702 battery powered high pressure pump, Stanley's IP16 hydraulic intensifier (page 16), or other commercially available 10,000 psi pumps. The XCG55 has a 2.2 inch capacity and comes with ¼" NPT male high pressure coupler.

SPECIFICATIONS

Application: Aluminum & copper cables Head Type: Guillotine type cutter with quick opening and closing head and reinforced locking latch. 2.2 in. / 55 mm opening Cutting Capacity: Up to 1500 MCM AL, up to 1000 MCM CU, AL overhead wire, up to 1000 MCM 25kV, underground wire Cutting Force: 4.8 ton / 43 kN Weight: 6.6 lb / 3.0 kg Length: 11.8 in. / 300 mm Width: 2.2 in. / 55 mm Height: 4.3 in. / 110 mm

HIGH-PRESSURE PUMPS

PORTABLE HIGH-PRESSURE HYDRAULIC PUMP



Equipped with a 24V rechargeable battery, the GHA-702 is a portable high-pressure hydraulic pump for use with a variety of remote crimping and cutting heads that require 10,000 psi. Includes remote control, 2 batteries, charger, and 6 foot non conductive high pressure hose with quick coupler.

SPECIFICATIONS

Application: Provides power to remote variety of crimping and cutting applications Motor: 400 Watt motor with built-in overload protection Oil Capacity: 0.2 gal / 0.75 L Pressure: 10150 PSI / 700 bar Battery: 24V DC, 3.3 Ah, NiMH Weight: 19.4 lb / 8.8 kg Length: 13.4 in. / 340 mm Width: 7.1 in. / 180 mm Height: 13.0 in. / 330 mm Operation: Automatic shutoff when full operating pressure is achieved.

SPECIFICATIONS

Application: The IP16 is a hydraulic powered intensifier that provides up to 10,000 psi and requires the use of the RV06 control valve for on/off operation. It can power a variety of crimping and cutting heads that require 10,000 psi Capacity: 10,000 psi / 690 bar Hyd. Flow: 3-10 gpm / 11-38 lpm Weight: 12 lbs / 5.4 kg Dry Length: 10-1/2 in. / 25.9 cm Width: 6 in. / 15.2 cm Height: 5 in. / 12.9 cm Connection: 3/8 in. NPT Adapter to -8 SAE Port

FEATURES

- Operates single or double-acting high pressure tools
- Can be driven from almost any HTMA Type I, II or III hydraulic circuit
- Can be used on open center or closed center hydraulic circuits
- Built-in oil reservoir for high pressure output
- Provides an audible "click" when preset pressure is achieved
- Use with RV06 Rocker Valve
- High pressure couplers included

INTENSIFIER

MODEL IP16



Order model IP16615D

Application: Used with IP16 (above) to control

SPECIFICATIONS

high pressure crimping tools

Weight: 2.6 lbs / 1.18 kg

Length: 5-1/8 in. / 13.2 cm Width: 2 in. / 5 cm

Capacity: 10,000 psi / 690 bar

Connection: 1/4 in. Female NPT Port

ROCKER VALVE

MODEL RV06

BV06000

FEATURES

- Rocker type trigger spring loaded to neutral or "hold" position
- Full forward and reverse action
- Can be used with single or double-acting tools
- Hose and high pressure couplers included

ROCKER VALVES

Model	Part No.	Description
RV06	RV06000	Rocker Valve



DIGGERS & DRILLS





The DR19 is a compact digging spade for digging in materials such as heavy clay or light shale. 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 DR19 uses standard 7/8-inch hex, round collar, steel tool bits and comes with hose whips and flush-face, quick disconnect couplers.

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

DIGGERS

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	3-1/4 x 7/8 in. Shank

DIGGER ACCESSORIES

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

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 reverse-flow check valve prevents operation if tool is plumbed backwards. The DL07 is furnished with flush face quick disconnect couplers.

SPECIFICATIONS

Application: Drilling holes in wood, metal, masonry and wood. Capacity: 1/2 in. Chuck







DRILLS

STANLEY

Model	Part No.	Weight	Flow Range	Working Pressure	Full Relief Setting	Performance	Capacity	Misc.
DL07	DL07550	6 lbs / 2.7 kg	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

Also see the ID07 Impact Wrench/Drill

(page 21)





DL07



DR19

DRILLS & DRIVERS



The SK58 is designed for drilling in rock and concrete up to 3inches/ 7.6 cm in diameter and 20 feet/6 m deep. The sinker drill uses air to clear holes of debris. It 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.

SPECIFICATIONS

Application: Heavy duty utility construction, blast hole drilling, leak detection for gas utilities and dowel drilling. Capacity: 7/8 x 4-1/4 in. or 1 x 4-1/4 in. hex shank steel Hyd. Flow: 7-9 gpm / 26-34 lpm Weight: 67 lbs / 30 kg Length: 26 in. / 66 cm Width: 18 in. / 46 cm Connection: 3/8 in. flush face quick disconnect couplers

SINKER DRILLS

Model	Part No.	Flow Range	Working Pressure	Full Relief Setting	Performance	Capacity	Misc.
SK58	SK58110	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
	SK58130	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

SINKER DRILL ACCESSORIES

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

The GD50 drives ground rods with proven hard-hitting "top driving" power and frequency. With two models available, either 1/2 to 5/8 in. or 3/4 to 1 in. ground rod can be driven. A cast-in lifting eye allows the operator to suspend the driver above the rod with ease. The long side handles give the operator control during the driving process. The GD50 contains an interchangeable, deep socket anvil to fit the rod end. All hammering is against the anvil and not the rod. The GD50 is furnished with flush faced quick disconnect couplers, 8-foot hose whips, and dual-spool in-line ON/OFF valve.

SPECIFICATIONS

Application: Drives copper clad and galvanized ground rods Capacity: 1/2 to 5/8 in. or 3/4 to 1 in. Ground Rod Hyd. Flow: 5-9 gpm / 19-34 lpm Weight: 52 lbs / 24 kg Length: 25 in. / 65 cm Width: 16 in. / 41 cm Connection: 3/8 in. flush face quick disconnect couplers

GROUND ROD DRIVER

MODEL GD50



GROUND ROD DRIVERS

Model	Part No.	Weight	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
GD50	GD50132RF	52 lbs / 24 kg	5-9 gpm / 19-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1/2 to 5/8 in. Rod	In-Line Valve/Couplers
	GD50133RF	52 lbs / 24 kg	5-9 gpm / 19-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	3/4 to 1 in. Rod	In-Line Valve/Couplers



DRILLS

HAMMER DRILL

MODEL HD08



The HD08 Hammer Drill utilizes percussion and rotation for drilling in hard material. With 4500 blows per minute and 1175 rpm the powerful hammer function makes it easy to drill in rock, concrete, masonry and other such materials. The hammer function can be turned off for efficient light drilling in wood and metal. The HD08 features an integral gear motor, built-in flow control, depth gauge, assist handle, and dual-spool capability for operation on open-center or closed-center hydraulic systems.

SPECIFICATIONS

Application: For drilling holes up to 7/8 inch diameter in concrete utility poles, rock and masonry. Capacity: SDS Plus Drill Bits up to 7/8 inches in concrete Hyd. Flow: 3-9 gpm / 11-34 lpm Weight: 6 lbs / 2.7 kg Length: 13 in. / 35 cm Width: 5.5 in. / 14 cm Connection: 3/8 NPT Male Pipe to -8 SAE port

HAMMER DRILLS

STANLEY

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Performance	Capacity	Misc.
HD08	HD08531G	6 lbs / 2.7 kg	13 in. / 35 cm	5-1/2 in. / 14 cm	3-9 gpm / 11-34 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	1175 rpm @ 6 gpm	7/8 in. Dia.	SDS Plus Shk

HAMMER DRILL ACCESSORIES

Part No.	Description
16769	1/2 in. Geared Chuck
16770	Chuck Adapter
27807	Carbide bit 3/8 x 12 in. OAL
27814	Carbide bit 1/2 x 12 in. OAL

Part No.	Description
27826	Carbide bit 3/4 x 12 in. OAL
27827	Carbide bit 3/4 x 18 in. OAL
27832	Carbide bit 7/8 x 18 in. OAL



HD08

HD08 "D" handle

IMPACT DRILLS/WRENCHES

WORLDWIDE IMPACT

We provide tools to utilities, municipalities, 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.

Hydraulic tools are the perfect match for utility trucks equipped with hydraulic power such as bucket trucks or digger-derrick trucks. Hydraulic tools perform tasks such as setting hardware on utility poles, crimping cable connections, tamping utility poles after setting, pumping utility vaults, and clearing right of ways.

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.

IMPACT DRILLS/WRENCHES

IMPACT DRILL/WRENCH

MODEL ID07

The ID07 is a high torque impact wrench used for tightening and loosening nuts and driving lag bolts. Because it is an impact drill/wrench, it is used for drilling in hard treated wood and utility poles without torque reaction to the operator.

SPECIFICATIONS

Application: Nut and bolt tightening or loosening, lag bolt driving and wood drilling applications.
Capacity: 7/16 in. Quick Change or 1/2 in. Square Drive Hyd. Flow: 4-12 gpm / 15-45 lpm
Weight: 7.2 lbs / 3.3 kg
Length: 9 in. / 23 cm
Width: 5 in. / 11 cm
Connection: 3/8 in. Male Pipe Adapter to -8 SAE port

FEATURES

- 500 ft. lbs. / 675 Nm of impact torque
- Durable Swing-hammer mechanism
- Forward-Reverse spool with heavy duty wiper seals and replaceable seal carriers
- Reverse-flow check valve prevents operation if tool is plumbed backwards
- Cast-in lifting eye
- Built-in selector for Open Center or Closed Center systems
- Replaceable pressure relief valve designed for serviceability
- Available with a 7/16 inch hex quick-change chuck
- With or without a trigger guard

 Relaceable Reversing Spool Seal Carriers with Wiper Seal

 Integral HyrevzTM Gear Motor

 Replaceable Pressure Relief

 Replaceable Pressure Relief

 Tamper Proof Dual-Spool Selector

 Triger Spool Wiper Seal

 Reverse Flow Check Valve

 Reverse Flow Check Valve

-8 SAE O-ring Ports

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IMPACT DRILLS/WRENCHES

IMPACT DRILL & WRENCH

Model	Part No.	Weight	Flow Range	Working Pressure	Full Relief Setting	Torque	Capacity	Misc.
ID07	ID07810	7.2 lbs / 3.3 kg	4-12 gpm / 15-45 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	500 ft lbs	7/16 in. Quick Change	Standard
	ID07815	7.2 lbs / 3.3 kg	4-12 gpm / 15-45 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	500 ft lbs	7/16 in. Quick Change	Trigger Guard

IMPACT DRILL & WRENCH ACCESSORIES

Part No.	Description	Part No.	Description
05079	Chuck Adapter, 1/2 in. sq. x 7/16 in. hex QC		7/16 Hex Shank Pole Bits
05080	Adapter, 5/8 in. hex x 1/2 in. sq. drive	27850	9/16 x 8 x 12, 7/16 in. Hex
05109	Impact Socket, 9/16 in.	27851	11/16 x 8 x 12, 7/16 in. Hex
05110	Impact Socket, 5/8 in.	27852	13/16 x 8 x 12, 7/16 in. Hex
05111	Impact Socket; 11/16 in.	27853	15/16 x 8 x 12, 7/16 in. Hex
05112	Impact Socket, 3/4 in.	27854	1-1/16 x 8 x 12, 7/16 in. Hex
05113	Impact Socket, 13/16 in.	27855	9/16 x 12 x 16, 7/16 in. Hex
05114	Impact Socket, 7/8 in.	27856	11/16 x 12 x 16, 7/16 in. Hex
05115	Impact Socket, 15/16 in.	27857	13/16 x 12 x 16, 7/16 in. Hex
05116	Impact Socket, 1 in.	27858	15/16 x 12 x 16, 7/16 in. Hex
05117	Adapter, 7/16 in. hex male x 1/2 in. sq. drive	27859	1-1/16 x 12 x 16, 7/16 in. Hex
07192	Adapter, 1/2 in. sq. dr. to 5/8 QC	27860	9/16 x 18 x 22, 7/16 in. Hex
33155	Linemen's Socket, 13/16 in. and 15/16 in.	27861	11/16 x 18 x 22, 7/16 in. Hex
33156	Linemen's Socket, 1 in. and 1-1/8 in.	27862	13/16 x 18 x 22, 7/16 in. Hex
	5/8 Hex Shank Pole Bits	27863	15/16 x 18 x 22, 7/16 in. Hex
27845	9/16 x 8 x 22, 5/8 in. Hex Shank	27864	1-1/16 x 18 x 22, 7/16 in. Hex
27847	13/16 x 8 x 22, 5/8 in. Hex Shank	16	



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 GT18 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
- Lightweight 149 to 330 lbs / 68 to 150 kg
- Small size can fit into small truck or van
- Portable can be wheeled around jobsite like a wheelbarrow
- Serviceability can be serviced by small engine dealers such as garden shops, and rental yards.

Combine these advantages with our years of experience in developing hydraulic power sources and a full line of powerful construction tools and you have the flexibility to take on any job.



POWER UNIT

MODEL GT09



Stanley's GT09 portable power unit provides 5 GPM/20 LPM of hydraulic power with pressure up to 2000 psi/138 bar. Its light weight and compact stainless-steel frame and fold-a-way handle simplify transportation and storage. The GT09 is powered by a commercial grade Honda GX270 engine with automatic throttle control and low engine oil protection. Model GT09H01 is CE certified.

SPECIFICATIONS

Application: Light duty hydraulic power supply for Type 1 hydraulic tools Capacity: 5 gpm / 20 lpm Pressure: 2000 psi / 138 bar Weight: 149 lbs / 67.6 kg Length: 26.25 in. / 66.7 cm Width: 20.75 in. / 52.7 cm Height: 21.25 in. / 54 cm Engine: Honda GX270 4 stroke Guaranteed Sound Power Level: 101 dBA Heat Rejection Capacity: 2 HP Connection: flush face quick disconnect couplers

FEATURES

- Compact stainless-steel tube frame with fold-away handle and lifting eye is light-weight and designed for portability.
- Powered by a reliable commercial-grade Honda GX270 engine with low engine oil protection.
- Automatic Power-on-Demand (POD) throttle control idles down the engine when tools are not in use.
- CE Certified and fully compliant with European noise regulations.
- Conforms to HTMA Type 1 requirements.
- Cooling system regulates hydraulic circuit temperature for maximum performance and reliability.
- Robust hydraulic pump is mounted directly to the engine, providing efficient energy transfer.

POWER UNIT

The GT13 is a medium duty hydraulic power unit that provides reliable hydraulic power wherever you need it, delivering 7 GPM/26 LPM and pressure up to 2000 PSI/140 bar. Its light weight and compact stainless-steel frame and fold-a-way handle simplify transportation and storage. The GT13 is powered by a commercial grade Honda GX390 engine with automatic throttle control and low engine oil protection, making it an excellent power source for use on back lots and easements where utility trucks may not be accessible.

SPECIFICATIONS

Application: Medium-duty hydraulic power supply for Type 2 hydraulic tools Capacity: 7 gpm / 26 lpm Pressure: 2150 psi / 148 bar Weight: 162 lbs / 73.5 kg Length: 26.25 in. / 66.7 cm Width: 20.75 in. / 52.7 cm Height: 21.25 in. / 54 cm Engine: Honda GX390 4 stroke Heat Rejection Capacity: 2 HP Connection: flush face quick disconnect couplers

FEATURES

- Compact stainless-steel tube frame with fold-away handle and lifting eye is light-weight and designed for portability.
- Powered by a reliable commercial-grade Honda GX390 engine with low engine oil protection.
- Automatic Power-on-Demand (POD) throttle control idles down the engine when tools are not in use.
- Conforms to HTMA Type 2 requirements.
- Cooling system regulates hydraulic circuit temperature for maximum performance and reliability.
- Robust hydraulic pump is mounted directly to the engine, providing efficient energy transfer.



MODEL GT13



POWER UNIT

MODEL GT18



The GT18 hydraulic power unit is engineered for continuous professional use and is optimized to deliver ideal flows and pressures to both Type 1 and Type 2 hydraulic tools. Its powerful 18 HP Briggs & Stratton engine and best-in-class cooling system deliver the power and heat rejection pros need to keep tools working uninterrupted all day in all types of conditions. The GT18 features a computerized all-electric throttle control system that idles-down the engine when tools aren't running, saving fuel and extending service life. Its feature-rich, dependable operation make the GT18 the workhorse of the industry.

SPECIFICATIONS

Application: Heavy-duty continuous use hydraulic power supply for both Type 1 & Type 2 tools. Capacity: 5 or 8 gpm / 20 or 30 lpm Pressure: 2000 psi / 140 bar Weight: 330 lbs / 150 kg Length: 35 in. / 90 cm Width: 21.5 in. / 54.6 cm Height: 29 in. / 73.7 cm Engine: Briggs & Stratton 18 hp Vanguard Connection: flush face quick disconnect couplers Heat Rejection: Up to 5 hp

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
- Computerized throttle control
- Quartz hour meter
- Direct mounted hydraulic pump
- Air-oil cooler
- Lift and latch handle
- Pneumatic tires
- Maintenance-free battery
- Hydraulic and engine oil filter
- Engine oil level shut-down,
- 7 gallon / 26.5 liters fuel capacity
- Flush face quick disconnect couplers

POWER UNITS

Model	Part No.	Weight	Length	Width	Height	Engine	Output Flow	Pressure	Auto Throttle
GT09	GT09H02	149 lbs / 67.6 kg	26.25 in. / 66.7 cm	20.75 in. / 52.7 cm	21.25 in. / 54 cm	Honda GX270	5 gpm / 20 lpm	2000 psi / 140 bar	yes
GT13	GT13H02	162 lbs / 73.5 kg	26.25 in. / 66.7 cm	20.75 in. / 52.7 cm	21.25 in. / 54 cm	Honda GX390	7 gpm / 26 lpm	2000 psi / 140 bar	yes
GT18	GT18B02	330 lbs / 150 kg	35 in. / 90 cm	23 in. / 59 cm	29 in. / 74 cm	Briggs	5 or 8 gpm / 20 or 30 lpm	2000 psi / 140 bar	yes

POWER UNIT ACCESSORIES

Part No.	Description		Part No.	Description
13360	GT18 Hose Basket Conversion Kit		64940	G18 Male Plug, 12 volt
33212	Weather Cover		64942	12V Receptacle Accessory



HYDRAVERTER

MODEL HV18



The HV18 is an efficient, clean air-oil cooled portable hydraulic system for operating hydraulic tools from another hydraulic source such as a backhoe, excavator, or skidsteer loader. The HV18 obtains its power from the hydraulics of any backhoe, excavator, skidsteer loader or any other hydraulic equipment capable of supplying up to 35 gpm / 132 lpm at 2000-3000 psi with back-pressures up to 400 psi. The HV18 features cooled hydraulic oil for the hydraulic tools independent of the source oil. It is the perfect solution for operating hydraulic tools using existing hydraulic equipment.

SPECIFICATIONS

Application: Operates hydraulic tools using existing hydraulic equipment. Capacity: 8 gpm / 30 lpm Pressure: 2000 psi / 140 bar Weight: 100 lbs / 45 kg Length: 21 in. / 53 cm Width: 19 in. / 48 cm Height: 20 in. / 51 cm Connection: 3/8 in. flush face quick disconnect couplers

HYDRAULIC CONVERTER

Model	Part No.	Weight	Length	Width	Height	Engine	Engine Output Flow		Auto Throttle
11/10	HV18300	100 lbs / 45 kg	21 in. / 53 cm	19 in. / 48 cm	20 in. / 51 cm	n/a	8 gpm / 30 lpm (16-35 gpm Input)	2000 psi / 140 bar	n/a
HV18 -	HV18301	100 lbs / 45 kg	21 in. / 53 cm	19 in. / 48 cm	20 in. / 51 cm	n/a	8 gpm / 30 lpm (13-25 gpm Input)	2000 psi / 140 bar	n/a

HYDRAULIC CONVERTER ACCESSORIES

Application: Electric power for lights, small power tools,

Part No.	Description
51290	Hose Kit, 2 hoses, 3/4 in. x 10 ft, w/ ff faster couplers

S	P	E	CI	FI	C	AT	10	NS	

plastic pipe fusion irons

Weight: 70 lbs / 32 kg

Length: 19 in. / 48 cm

Width: 9 in. / 23 cm

Capacity: 3500W, 120/240V, 60Hz

Connection: 3/8 in. NPT Male Adapter

Hyd. Flow: 7-9 gpm / 26-34 lpm

FEATURES

- Ideal addition to service vehicles for 120/240 volt electric power up to 3500 watts.
- Built-in circuit breaker protection no fuses
- Two 110 volt, 15-amp duplex outlets
- One 240 volt, 30-amp twist lock outlet
- One 240 volt, 20-amp duplex outlet
- Built-in voltmeter
- Brushless design reduces maintenance requirements
- Hyrevz[™] motor
- Rubber shock-mount feet



STANLEY

ALTERNATOR

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Capacity
AL35	AL35095	70 lbs / 32 kg	19 in. / 48 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	3500W, 120/240V, 60 Hz

ALTERNATOR ACCESSORIES

Part No.	Description
13427	Mounting Frame

PUMPS

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. Pump requires no priming and can be run dry.

SPECIFICATIONS

Application: Pumping Liquids. Capacity: 300 gpm / 1125 lpm, 2.5 in. / 63.5 mm Discharge Hyd. Flow: 4-9 gpm / 15-34 lpm Weight: 20 lbs / 11.34 kg Length: 16 in. / 40.6 cm Width: 6.25 in. / 15.9 cm Connection: 3/8 in. flush face quick disconnect couplers





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. 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. Pump requires no priming and can be run dry.

SPECIFICATIONS

Application: Pumping Liquids Capacity: 500 gpm / 1890 lpm, 3 in. Male Camlock Discharge Hyd. Flow: 7-12 gpm / 26-45 lpm Weight: 21 lbs / 9.5 kg Length: 10.5 in. / 26.7 cm Width: 10 in. / 25.4 cm Connection: 3/8 in. flush face quick disconnect couplers



SUBMERSIBLE PUMPS

Model	Part No.	Weight	Length	Width	Flow Range Working	Working Pressure	Full Relief Setting	Output	Discharge
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
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

SUBMERSIBLE PUMP ACCESSORIES

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 Adaptor for Sump Pump to Fire Hose
05134	50 ft. Fire Hose, 2-1/2 in. dia.
05135	Spanner Wrench for Pin Lug Coupler

Description
Adapter, 3 in. female camlock x male fire hose (nh) thread
Adapter, 3 in. male NPT x 3 in. male Camlock
Lay-Flat Discharge Hose, 3 in. x 25 ft with Camlock fittings
Adapter, 2-1/2 in. male NPT x 3 in. male Camlock

CUTTING & TRIMMING

MAXIMUM CUTTING POWER



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-to-weight 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

CHAIN SAW

MODEL CS05/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 gpm / 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

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

CUTTING & TRIMMING

CHAIN SAW

MODEL CS25/CS28

SPECIFICATIONS

 Application: Tree Trimming

 Capacity: 12 & 15 in. / 30 & 38 cm Bars

 Hyd. Flow: 4-6 gpm / 15-23 lpm for CS25, 7-9 gpm

 / 26-34 lpm for CS28

 Weight: 8.4 & 9 lbs / 3.8 & 4 kg

 Overall Length: 75 & 90 in. / 191 & 229 cm

 Width: 4.375 in. / 11 cm

 Connection: 3/8 in. NPT Male Adapter

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

CHAIN SAWS

Model	Part No.	Weight	Overall Length	Width	Flow Range	Working Pressure	Full Relief Setting	Cut Capacity	Misc.
CS05	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	12 in. / 30 cm	0C/CC
	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	0C/CC
CS06	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	12 in. / 30 cm	0C/CC
	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	0C/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	0C/CC
0.925	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	0C/CC
6325	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	0C/CC
6630	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	0C/CC
6328	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	0C/CC

¹ Measured at motor end

CHAIN SAW ACCESSORIES

Model	Part No.	Description	Model	Part No.	Description
	07629	Rim Sprocket, .325P x 7 tooth		08347	12 in. Saw Bar
	07638	15 in. Saw Bar		08348	Saw Chain for 12 in. bar
CS05/CS06	07639	20 in. Saw Bar	ALL	11464	Scrench
	07641	Saw Chain for 15 in. bar		33289	Chain Saw File
	07642	Saw Chain for 20 in. bar			
	05144	Chain/Bar Guard			
CS25/28	07616	Sprocket Spline Adapter			
	07629	Rim Sprocket, .325P x 7 tooth			

CUTTING & TRIMMING

CIRCULAR SAW

MODEL CR27

SPECIFICATIONS

Application: Tree Trimming and Brush Cutting Capacity: 9 in. / 23 cm Dia. Saw Blade Hyd. Flow: 5-7 gpm / 19-26 lpm Weight: 9.75 lbs / 4.4 kg Length: 79 in. / 200 cm Width: 9 in. / 23 cm Connection: 3/8 in. NPT Male Adapter

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

CIRCLE SAWS

Model	Part No.	Weight	Flow Range	Working Pressure	Full Relief Setting	Cutting Component (included)	Couplers
CR27	CR27891	9.6 lbs / 4.4 kg	5-7 gpm / 19-26 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	9 in. / 22.9 cm Saw Blade - 24 Tooth	No

CIRCLE SAW ACCESSORIES

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

PRUNER MODEL PR41



SPECIFICATIONS

Application: Tree Trimming Capacity: 2.25 in. / 5.7 cm Cut Hyd. Flow: 3-9 gpm / 11-34 lpm Weight: 11.5 lbs / 5.2 kg Length: 84 in. / 213 cm Width: 6 in. / 15 cm Connection: 3/8 in. NPT Male Adapter

FEATURES

- Used for selective tree limb pruning up a 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

Model	Part No.	Weight	Length	Flow Range	Working Pressure	Full Relief Setting	Cutting Component (included)	Couplers
DD41	PR41131 (o.c.)	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
Ph41	PR41231 (c.c.)	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

PRUNER ACCESSORIES

PRUNERS

Model	Part No.	Description
PR41	58649	Knife



TAMPERS & VENTILATION



POLE TAMPER

MODEL TA54

SPECIFICATIONS

Application: Compacting soil around utility poles, sign and fence posts. Capacity: Kidney shaped shoe Hyd. Flow: 3-9 gpm / 11-34 lpm Weight: 39 lbs / 18 kg Length: 66 & 71 in. / 167 & 180 cm Width: 4 in. / 10 cm Connection: -8 SAE Port

FEATURES

- Ideal for soil compaction around utility poles, signs and fence posts
- Long stroke keeps the TA54 above the fill
- 1600 blows per minute 2-1/2 inch stroke
- Available with On/Off valve in handle, remote in-line valve or no valve
- 2 moving parts

TAMPERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Blows/ Minute	Valve	Shoe
	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
TA54	TA54603	39 lbs / 18 kg	66 in. / 167 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	n/a	Kidney
	TA54603A	39 lbs / 18 kg	66 in. / 167 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	In Line	Kidney

TAMPER ACCESSORIES

Part No.	Description	Part No.	Description
00833	Kidney Shoe	01070	Rectangular Shoe
00840	Round Shoe, 6 in. dia.	38632	In-Line Valve Assembly, OC/CC

SPECIFICATIONS

Application: Ventilating large spaces such as vaults.

- Capacity: 1700 scfm / 802 lsec
- **Hyd. Flow:** 4-12 gpm / 15-45 lpm
- Weight: 19 lbs / 8.6 kg Length: 15 in. / 40 cm
- **Lengui.** 15 III. / 40 Cli
- Width: 19 in. / 49 cm
- Connection: 3/8 in.

FEATURES

- Designed for heavy duty service
- Quiet operation
- Centrifugal blower to deliver large volume of air
- High impact plastic case
- Standard 8 inch / 20 cm discharge
- Accepts standard heaters and coolers
- Hyrevz[™] motor



VENT FAN

MODEL VF80

VENT FAN

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity
VF80	VF8000	19 lbs / 8.6 kg	15 in. / 40 cm	19 in. / 49 cm	4-12 gpm / 15-45 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1700 scfm / 802 lsec

VENT FAN ACCESSORIES

Part No.	Description
02397	Flexible Exhaust Hose

ACCESSORIES

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
05005	10 ft. certified non conductive, dual oil resistant pig- tails, 3/8 in. NPT male fittings with guard
05120	Clear Vinyl Hose Guard (per ft.)
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

Part No.	Description				
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/couplers				
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				

Description

3/8 Flush Face Set (1/2 NPT) 3/8 Flush Faced Coupler Set, -8 SAE Male

Description

Hex Nipple, 3/8 in. male pipe

QUICK DISCONNECT COUPLERS

Part No.	Description
03288	3/8 Cap & Plug for all flush face sets
03971	3/8 Flush Face Set (3/8 NPT)

PLUMBING

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

Part No.

03974

58718

Part No.

03044

Part No.	Description





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 the tool connections. Deviation from the nominal flow rates should be no more than plus or minus 10% at a operating pressure of 2000 psi / 138 bar. This is the pressure that the tools will normally operate at which is not to be confused with the relief pressure.

RELIEF PRESSURE:

Hydraulic systems should be capable of limiting the maximum pressure by using either a pressure compensating pump or a relief valve with a 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.

RETURN PRESSURE:

The hydraulic systems should generate no more than 250 psi / 17 bar return pressure (back pressure) at the tool when operating at maximum flow for the tool type. System conditions for this pressure are at maximum hydraulic fluid viscosity of 400 SUS (SSU) at minimum operating temperature.

COOLING:

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

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

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

FILTRATION:

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

FLUID:

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



HYDRAULIC BASICS

THE BASIC PRINCIPLE OF HYDRAULICS FOR TOOL OPERATION

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

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

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

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

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

OPEN-CENTER AND CLOSED-CENTER SYSTEMS

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

OPEN-CENTER IS CONSTANT FLOW — VARIABLE PRESSURE

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

CLOSED-CENTER IS CONSTANT PRESSURE — VARIABLE FLOW

When a tool valve is in the OFF position, hydraulic oil flow stops at the ON/ OFF valve port of the tool. The system will build and hold pressure without returning oil to the reservoir. When the tool valve is ON, oil circulates through the tool causing the tool to operate, and then returns to the reservoir. Pressure tends to be constant in the system. Pressure will increase as the tool needs it up to the settings in the hydraulic system. And if pressures higher than the system setting are demanded by the work, flow will decrease.

FLUID TEMPERATURE

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

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

BASIC DON'TS FOR COOL OIL CONTROL

- DON'T Rely on a large reservoir to control oil heating. Large reservoirs, even with good air circulation, do not adequately dissipate heat.
- 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.
- 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.
- DON'T Use heavy oils such as 30W or 10W30 engine oils. These will cause resistance in lines and add to backpressure and heat.
- 5. **DON'T** Run return oil through control valves or other circuit components, except coolers and return line filters.

DO THE FOLLOWING TO REDUCE HEAT GENERATION

- 1. Operate pumps at moderate speed gear pumps usually generate less heat and are less prone to cavitation at speeds of 1,000-2,000 RPM.
- 2. Use generous line sizes Especially on pump suction and return from tool to tank.
- **3.** Use oils in 130-225 SSU at 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

 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.

HYDRAULIC BASICS

FLOW CONTROLS

- General Notes To reduce or control flow rate through Stanley Tools, flow control valves are sometimes necessary. All possible effort should be made to avoid use of flow control valves where appropriate pump volume can be used because:
 - **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.
- 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, pressure-compensated flow control. Some of these are very compact, in the range of 1-1/4" diameter by 5" long, and can be attached to the tool pressure pigtail. Do not use priority type controls on closed-center circuits, as this will cause the pump to operate at full volume further heating the oil.

QUICK DISCONNECTS

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

HOSE TYPES

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

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

Oil Flow Each Hose Length		Inside D	Diameter		Wire Braid	Working Pressure		Fiber Braid	Operating Pressure			
GPM	LPM	FEET	METERS	INCH	ММ	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
FO	10.00	100.000 00.00	20.00	5/8	16	Pressure	SAE 100R2-10	2750	190	SAE 100R8-10	2750	190
5-6 19-30 100-300	100-300	30-90	3/4	19	Return	SAE 100R1-12	1250	86	SAE 100R7-12	1250	86	

TOOL TO CIRCUIT HOSE RECOMMENDATIONS

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

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

ltem	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%

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	
AMS-0il	No	Hydraulic Fluid MN 150 SSU,100 V.I.	
Chevron	No	AW-MV-32	
Exxon	No	Univis J-26	
Mobil	No	D.T.E.13	
Gulf	No	Harmony AW-HVI-1 50-32	
Shell	No	Lo-Hydraul 32 or Tellus T-32	
Sun	No	Sunvis 805 MG	
Texaco	No	Rando HD-AZ	
Union	No	Unax AW-WR-32	
Mobil	Yes	EAL 224H	
Texaco	Yes	BioStar 32	
Terresolve	Yes	EnviroLogic 132	
Shell	Yes	Naturelle HF-E-32	
Pennzoil	Yes	Pennzsafe SL200	



HYDRAULIC SYSTEM SPECIFICATIONS SUITABLE FOR POWERING HTMA TYPE I HYDRAULIC TOOLS

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 and shall limit the maximum pressure to no more than 2250 psi / 155 bar. This component may be a relief valve, used with a nonpressure 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 deg F / 10 deg C.

The hydraulic system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140 deg F / 60 deg 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 deg F / 38 deg 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 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 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 ¾-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 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 ¾-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.



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. The maximum full-flow bypass pressure shall not be more than 2250 psi.

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 deg F / 29 and 35 deg 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 fatigue 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

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 and shall limit the maximum pressure to no more than 2250 psi / 155 bar. This component may be a relief valve, used with a nonpressure 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 deg F / 10 deg C.

The hydraulic system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140 deg F / 60 deg C at the maximum expected ambient temperature. The minimum cooling capacity to dissipate tool-generated 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 deg F / 38 deg 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 12 to 20 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 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 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.

If no bi-directional tools will be used, the directional control valve shall be ¾-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 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 %-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. 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. The maximum full-flow bypass pressure shall not be more than 2250 psi.

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 80 and 90 deg F / 26 and 32 deg 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 fatigue 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.

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).



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

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

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

- 8 gpm ± 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.



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

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

Flow rate: _____ gpm Back pressure: _____ psi Oil: _____ ° F

SYSTEM CAPACITY TO CONTROL TEMPERATURE TEST

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

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



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 43 x (Oil temperature – Air Temperature) hp (horse power)

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

(1500 - 100) x 5 43 x (120 - 70) 3.3 hp at 40 deg F temperature difference



Exar





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