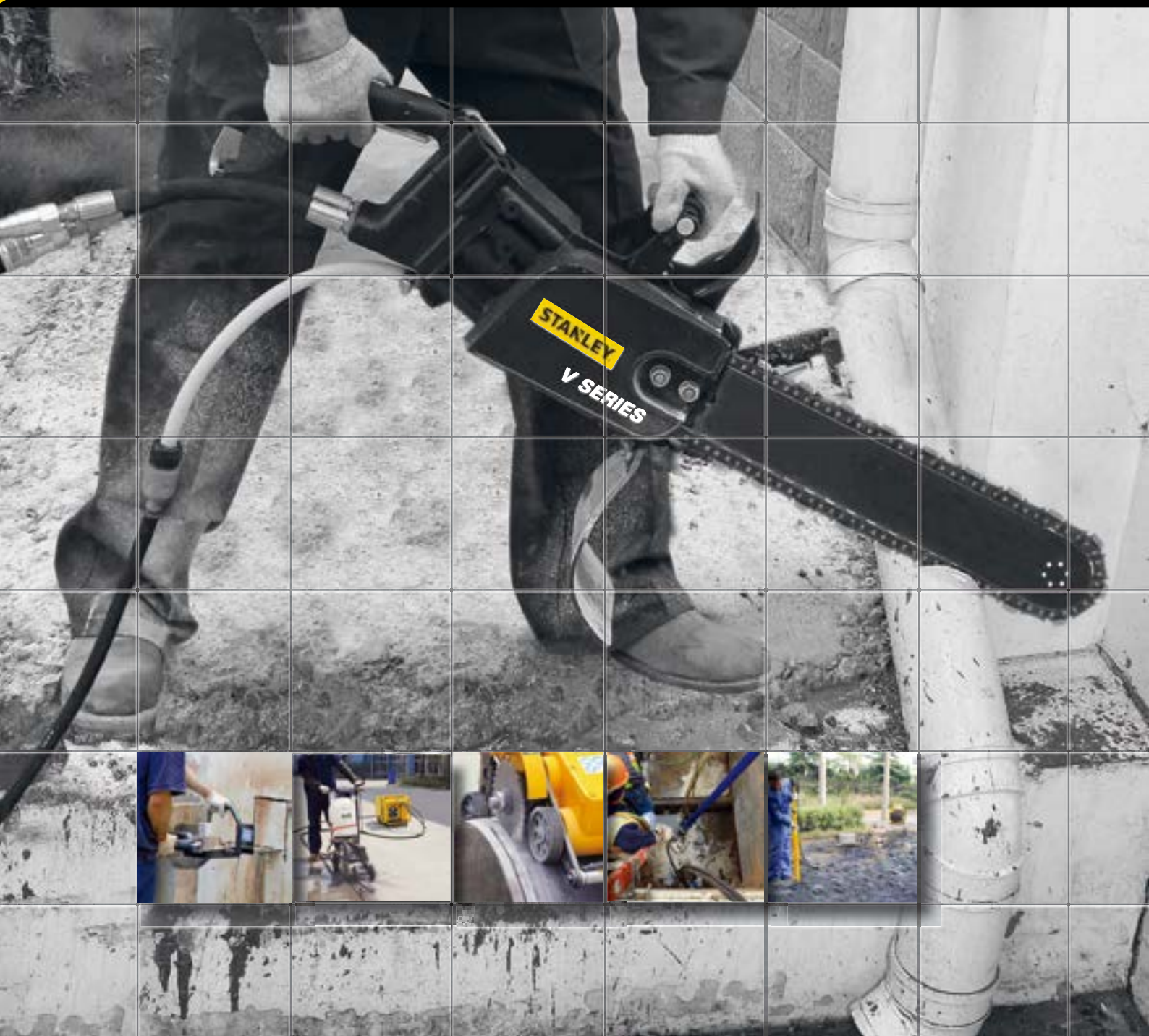


# STANLEY®

2020-2021

**NEW**

## ***V SERIES Hydraulic Tools*** ***PURE HYDRAULIC POWER***



### Hydraulic Tools

#### STANLEY V SERIES: VERSATILITY FOR GLOBAL APPLICATIONS

Stanley Hydraulic Tools is the global leader of hydraulic tools offering a wide range of products, and is proud to introduce the **V SERIES** line of hand held hydraulic tools. Stanley **V SERIES** are versatile, high performing tools designed specifically for applications found in the global infrastructure market.

#### INFRASTRUCTURE TOOLS

Stanley **V SERIES** offers several tools for infrastructure applications, whether it's water municipalities, road maintenance, mining or search and rescue operation, **V SERIES** tools provide the performance and versatility that the industry has come to expect from Stanley.

#### STANLEY QUALITY POLICY

"Stanley Hydraulic Tools is committed to exceeding our customers' expectations in regard to our products, services, and all interactions. Our dedication to continuously improve Safety, Quality, Delivery, Inventory, and Cost is the key to realizing that commitment."

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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.





Professionals turn to hydraulic tools when they need to get the job done. Nothing matches the performance of hydraulic tools as compressed oil transfers energy more efficiently than compressed air. The inherent efficiencies result in longer life of the tool along with increased power and reliability.

## Advantages of Hydraulic Tools

				
	Hydraulic		Pneumatic	
<b>Durability</b>	Small engine power unit is easy to maintain	✓	Large compressor engine requires high maintenance	X
<b>Versatility</b>	Several tools can be run off of same power source	✓	Limited tools can be ran	X
<b>Cost</b>	Power units starting at a few thousand dollars, cost of ownership is low	✓	Air compressors are much higher price and require more maintenance	X
<b>Cold Weather Performance</b>	Operates in sub-zero temperatures	✓	Air lines freeze	X
<b>Enclosed Spaces</b>	Zero exhaust, easier to operate in confined areas	✓	Compressed air exhaust spreads dust and debris	X
<b>Portability</b>	Small and lightweight power units are easy to move to jobsite	✓	Large tow behind compressor cannot access remote areas	X

### Power Units

One of the key advantages of hydraulic tools is the power source. Unlike pneumatic tools requiring a large pull-behind air compressor, hydraulic tools can be ran off of a smaller more portable power unit. Hydraulic power units can run any tool in this catalog and can be maneuvered to remote locations where air compressors cannot access.

#### Features:

- **Versatile** - dozens of tools can be operated from the same power source
- **Air Cooled** - no winter freezing
- **Fuel efficient** - smaller engine results in lower fuel consumption
- **Quiet Operation**
- **Compact Size** - fits easily into a small truck or van
- **Serviceability** - can be serviced by small engine dealers

MPS80



Model	GPV09*	GPV13*	GPV13*	GPV18	GPV18
Part Number	GPV09H02	GPV135H02	GPV138H02	GPV18B02	GPV182B02
Weight (kg)	60	75	75	120	120
Dimensions (mm)	620 x 500 x 600	780 x 510 x 600	780 x 510 x 600	900 x 590 x 740	900 x 590 x 740
Flow (lpm)	20	20 - 24	30	20 / 30	30 / 40
Operating Pressure (bar)	140	140	140	140	140
Engine	Honda 9 hp	Honda 13 hp	Honda 13hp	B & S 18 hp	B & S 18 hp

Model	GPV25	GPV27	GPV28	MPS80
Part Number	GPV25B02	GPV27B02	GPV28B02	MPS80
Weight (kg)	135	163	200	180
Dimensions (mm)	1020 x 610 x 770	953 x 654 x 762	1165 x 560 x 880	1100 x 630 x 853
Flow (lpm)	2 x 20, 1 x 30 or 40	2 x 20, 2 x 30	2 x 20, 2 x 30	1 x 76, 2 x 30, 2 x 38
Operating Pressure (bar)	140	140	140	172 (single circuit) 140 (twin circuit)
Engine	B&S 23Hp	B&S 27Hp	B&S 35Hp	B&S 35Hp

\* CE Model available



GPV18B02



The DPV13 power unit is an extremely lightweight and highly portable unit designed for light to medium duty applications. The DPV13 is a diesel power unit with a 9 hp Winsun engine. With a balance of portability and power allows easy access in and out of job sites with minimal equipment management. With 20 lpm flow the DPV13 is an ideal choice for small to medium duty construction and demolition.

**Features:**

- Compact and portable
- Stainless steel frame with fold up handles, wheels and top bar for lifting
- Large hydraulic oil tank for improved cooling
- 20 lpm output capacity
- 13 hp diesel engine



DPV13E02

The DPV19 is a heavy duty diesel power unit designed for continuous duty operation of 30 / 40 lpm hydraulic tools. The DPV19 uses a 19 hp Winsun diesel engine for increased performance and durability.

**Features:**

- **Stainless steel frame with fold up handles, wheels and top bar for lifting**
- **Large hydraulic oil tank for improved cooling**
- **30 / 40 lpm output capacity**
- **19 hp diesel engine**



DPV19K02

Model	DPV13	DPV19	
Part Number	DPV13E02	DPV19K02	DPV19K03
Output Capacity (lpm)	20	30	40
Operating Pressure (bar)	155	155	155
Weight (kg)	130	170	170
Dimensions (mm)	910×620×555	1020×610×800	1020×610×800
Fuel Tank Capacity (L)	6.6	6.6	6.6
Hydraulic Tank Capacity (L)	12	12	12
Engine	Winsun 13hp	Winsun 19p	Winsun 19p

### Power Units

High efficiency, low noise, high reliability and good economy, the electric power unit is the reliable power source while providing equal power to all the hydraulic tools.

#### Features:

- Big oil tank, stronger air-cooler which makes the cooling system more efficient longer the working time with no overheat problem.
- External hydraulic filter easier changing.
- Advanced original high-pressure gear pumps imported
- Simple to operate



#### Electric Engine Power Units

Model	EPV10	EPV15	EPV15
Part Number	EPV10E02	EPV15E02	EPV15E44
Weight (kg)	90	120	160
Dimensions (mm)	825 x 620 x 555	975 x 590 x 655	975x590x655
Flow (lpm)	20	30	30
Operating Pressure (bar)	90 - 155	90 - 155	90-155
Engine	Electric Motor (7.5kW)	Electric Motor (11kW)	Electric Motor (11kw)
Volt	380V / 50HZ	380V / 50HZ	440V/50HZ



The CHV08 Chipping Hammer is a small, highly portable solution for light duty chipping applications. It is commonly used for manhole and utility vault modifications or masonry repair and demolition. When in confined spaces the CHV08 offers power and performance in a small package.

### Features:

- Heat insulated front handle
- Independent nitrogen chamber for easy maintenance
- Ergonomic two hand design



Model	CHV08*
Part Number	CHV08100
Weight (kg)	8
Flow (lpm)	26 - 34
Operating Pressure (bar)	40 - 140
Bit Size (Hex)	0.58 Round Collar
Handle Type	D Handle

\* CE Model available

## Chipping Hammers

### Hydraulic Breakers

For breaking concrete, asphalt, or rock; professionals turn to hydraulic breakers to get the job done safely and effectively. With several weight classes to choose from it's easy to select the right breaker for the job and because it's hydraulically powered high levels of performance can be reached when compared to other tool types.

**Compared to other tool platforms, hydraulic breakers offer the following advantages:**

- Higher impact than comparably sized alternative platforms
- Zero tool exhaust offers ease of use in confined spaces
- Quieter operation than pneumatic tools allows for use in sensitive areas
- Longer service life due to hydraulic oil continuously lubricating internal parts

**Features:**

- T-Handle or Anti-Vibration handles to meet application needs
- Several models to choose from, designed for work in concrete between 2" - 8"
- Full selection of breaker bits
- High durability





## Hydraulic Breakers

Model	BRV18		BRV20*		BRV24*		BRV26	
Part Number	BRV18150	BRV18155	BRV20150	BRV20155	BRV24150	BRV24155	BRV26150	BRV26155
Weight (kg)	18	19	20	21	24	25	26	27
Flow (lpm)	15 - 24	15 - 24	26 - 34	26 - 34	15 - 24	15 - 24	26 - 34	26 - 34
Operating Pressure (bar)	90 - 140	90 - 140	105 - 140	105 - 140	90 - 140	90 - 140	103 - 140	103 - 140
Bit Size (mm)	1 in	1 in	1 in	1 in	1-1/8 in	1-1/8 in	1-1/4 in	1-1/4 in
Handle Type	T-Handle	Anti-Vibration	T-Handle	Anti-Vibration	T-Handle	Anti-Vibration	T-Handle	Anti-Vibration

Model	BRV28*			
Part Number	BRV28120	BRV28125	BRV28250	BRV28255
Weight (kg)	28	29	28	29
Flow (lpm)	26	26	26	26
Operating Pressure (bar)	26 - 34	26 - 34	26 - 34	26 - 34
Bit Size (mm)	1-1/8 in	1-1/8 in	1-1/4 in	1-1/4 in
Handle Type	T-Handle	Anti-Vibration	T-Handle	Anti-Vibration

\* CE Model available



BRV20155



BRV28150

### Sinker Drill

SKV20 hydraulic sinker drill is designed for blast hole drilling, leak detection for gas utilities, and dowel hole drilling. The Sinker drill is equipped with integrated air flushing compressor, which eliminates use of connecting with external air source to clear holes of debris.



SKV20

Model	SKV20
Part Number	SKV20130A
Weight (kg)	20
Length (cm)	508
Width (cm)	350
Flow (lpm)	20-25
Operating Pressure (bar)	90-140
Drilling depth (m)	3



The APCV42 Auto Pipe Cutter is designed specifically for cutting large pipe up to 1600 mm for municipal water repair. It is capable of cutting cast iron, ductile iron, and steel tube. The design allows for automatic cutting of the pipe with remote operation.

## Auto Pipe Cutter

Model	APCV42
Part Number	APCV42
Weight (kg)	90
Cutting Speed (rpm)	110-160
Cutting Capacity (mm)	500 - 1600
Flow (lpm)	30 - 45
Operating Pressure (bar)	70-140



### Cut-Off Saw

The COV10 Cut-Off Saw is designed for cutting metal or masonry materials such as concrete, brick, structural steel, pipe and guardrail. The COV10 offers versatility accepting both abrasive wheels and diamond blades.

#### Features:

- Built in flow control for increased ease of use
- Rotation axis brake
- Counterclockwise blade rotation to suppress dust
- Available in two handle types to fit operational preferences
- Walk behind cart available for accurate scoring of concrete (COV10C)



COV10141E

Model	COV10*		
	COV10141	COV10141E	COV10C
Part Number	COV10141	COV10141E	COV10C
Weight (kg)	9	10	70
Length (mm)	530	1000	800
Width (mm)	280	280	500
Flow (lpm)	26 - 34	26 - 34	NA
Operating Pressure (bar)	105 - 140	105 - 140	NA
Diameter Blade (mm)	355	355	NA
Cutting Depth (mm)	125	125	NA

\* CE Model available

The DSV10 Diamond Chain Saw is a heavy duty chain saw ideal for fast cutting of concrete, reinforced concrete, conduit, brick, stone and other masonry. Plunge cut capability allows for quick and precise cutting of window, door, conduit and duct openings in walls or concrete pipe. With different bar and chain options the cutting depth can reach 500 mm.

**Features:**

- Wall Walker™ provides leverage for fast and accurate cuts
- Mud flap to block water spray
- Multi position handle for easy operation in horizontal and vertical cutting



Model	DSV10	
Part Number	DSV103000	DSV103000S
Weight (kg)	12.4	12.4
Length (mm)	585	585
Width (mm)	240	240
Height (mm)	265	265
Cutting Depth (mm)	380/500	380/500
Flow (lpm)	26-34	26-34
Operating Pressure (bar)	70-140	70-140
Cutting material	Concrete/PVC/PE/Plastic	Ductile iron pipe/PVC/PE/Plastic



Pipe clamp (optional)

Pipe clamp accessory brings a whole new level of safety, accuracy and ease of use to the jobsite. Mount the clamp to the pipe and install the saw to the clamp and begin making easier cuts!

Model	PCV300	PCV500
Capability	300mm	500mm



## Diamond Chain Saw

### Trash Pump

The **V SERIES** line of trash pumps are capable of pumping volumes of liquids, sand slurries, gravel and sludge in a highly portable and durable package. Hydraulic pumps are commonly used in municipal and rescue applications where reliability and performance are critical.

#### Features:

- Capable of pumping up to 3000 lpm
- Can run dry without damage to the unit, unlike electric pumps
- Pumps solids up to 100 mm in diameter
- Self priming

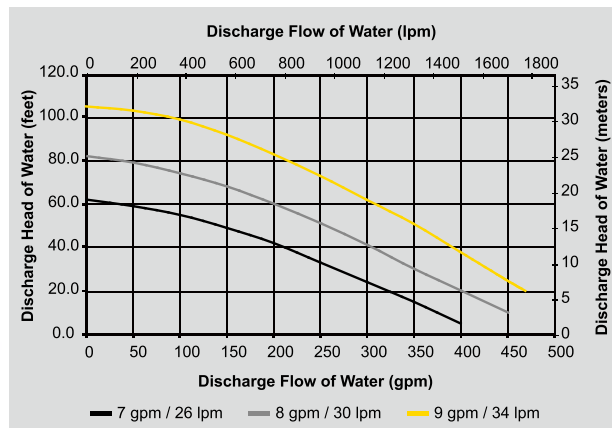


## Trash Pump

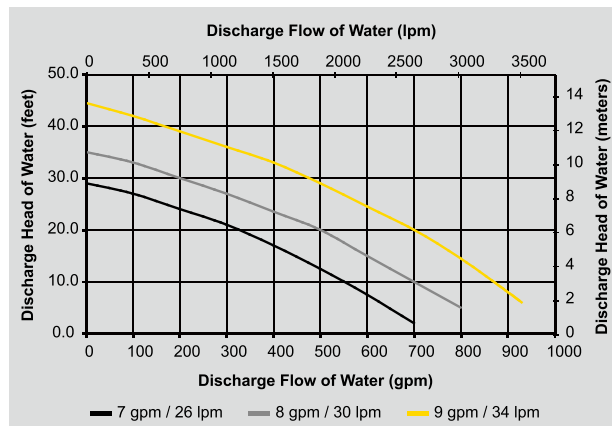
Model	TPV16*		TPV30*
Part Number	TPV16501	TPV16801	TPV30801
Weight (kg)	14	14	30
Length (cm)	440	440	485
Width (cm)	304	304	380
Flow (lpm)	15-24	26-34	30-40
Operating Pressure (bar)	70-140	105-140	105-140
Output Capacity (m <sup>3</sup> h)	101	101	180
Discharge (mm)	75	75	100

\* CE Model available

TPV16



TPV30



### Large Flow Submersible Pump

#### SM3600 Features:

- Innovative hydraulic technology, safe for operator
- Large water pumping capacity to significantly increase pumping efficiency.
- Outlet size: 200mm, Outlet capacity:390m<sup>3</sup>/h
- Vertical designed flush face quick disconnect couplers to ease mounting
- Specialized designed for emergency rescue with compact size and light weight (27 kg)
- Equipped with two handles for easy handling
- Stainless steel pump body to increase the durability and lifespan
- Integrated designed joint fittings to reduce time of pipe connection



SM3600

#### SM6600 Features:

- Large water pumping capacity to significantly increase pumping efficiency
- Split-type designed pedestal to ease the installation and maintenance
- Vertical designed flush face quick disconnect couplers to ease mounting & dismounting of hydraulic hoses
- Equipped with carrying handle to improve its convenience of handling & transportation
- Stainless steel pump body to increase the durability and lifetime
- Integrated designed joint fittings to reduce time of pipe connection.



SM6600

Model	Part Number	Weight (kg)	Flow Range (lpm)	Operating Pressure (bar)	Output Capacity (m <sup>3</sup> /h)	Dimensions (mm)	Outlet (mm)
SM3600	SM3600P01	27	30 -40	140	390	260 x 260 x 450	200
	SM3600P02	27	53 - 60	140	450	260 x 260 x 450	200
SM6600	SM6600	47	68 - 76	170	550	600 x 410 x 410	200





**V SERIES** Tampers are suitable for soil compaction or backfilling in narrow areas. different shaped tamping shoes are available to meet different applications.

## Tampers



Model	TAV12
Part Number	TAV12103
Weight (kg)	12
Length (mm)	1500
Width (mm)	100
Flow (lpm)	15 - 23
Operating Pressure (bar)	70 - 140
Impact Rate (bpm)	1600
Valve Switch	In Line
Tamping Shoe	Kidney Shaped, Round, Square



### Core Drill

The CDV08100/08200 hydraulic handheld core drill, can be used for drilling rock core samples in concrete, reinforced concrete, asphalt, rock and other masonry. The "D" size handle can drill horizontally and vertically.

Model	CDV08	
Part Number	CDV08100	CDV08200
Weight(kg)	10	10
Length(mm)	560	560
Width(mm)	260	260
Flow(lpm)	15-24	15-24
Operating Pressure(bar)	70-140	70-140
Drill Speed(rpm)	600	900
Drill Diameter(mm)	50-200	50-200



The VFV09 is a heavy duty ventilating fan used to blow high volumes of air for ventilating large spaces such as vaults or gas and water mains ensuring workable job site conditions.



### Features:

- Designed for heavy duty service
- Quiet operation
- Accepts standard heaters and coolers
- High impact plastic case

Model	VFV09
Part Number	VFV8000
Weight (kg)	8.6
Displacement	48000
Output Flow (lpm)	15 - 40
Operating Pressure (bar)	70 - 140
Length (mm)	400
Width (mm)	490



## Ventilating Fan

### Earth Auger

The EAV21 is a powerful and lightweight earth auger for fast boring of holes for posts, poles or trees.

#### Features:

- Powerful and lightweight
- Four handle design for easy two person operation
- Maximum boring diameter of 460 mm and depth of 1070 mm

Model	EAV21
Part Number	EAV21102
Weight (kg)	21
Output Flow (lpm)	26 - 34
Operating Pressure (bar)	70 - 140
Length (mm)	300
Width (mm)	1190
Max Diameter (mm)	460
Max Depth (mm)	1070



The VPV90 is a hydraulic vibratory impact plate designed for use on granular soils, hot or cold asphalt and paving blocks. These units are ideal for trenches, road construction, backfill and foundation work.

### Features:

- Inlet-outlet hose quick connection for easy 360 degree rotation
- Dust inhalation problems caused by engine exhaust are not an issue with hydraulically powered unit
- Quieter operation compared to gas units

Model	VPV90
Part Number	VPV9002
Weight (kg)	90
Impact Force (kn)	15
Impact Frequency (hz)	100
Rotating Speed (rpm)	3600
Output Flow (lpm)	26 - 34
Operating Pressure (bar)	70 - 140
Length (mm)	850
Width (mm)	500
Height (mm)	915



## Vibrating Impact Plate

### Valve Operator

VOV240 Valve operator is used for open /close pipeline valve, it is a special tool applied in natural gas, water and petrochemical industry .

#### Features:

- Adjustable rotating speed and torque , fast opening valve.
- Operable in narrow space, easy to carry.
- Only one operator needed.
- Circle record, handle auto-reset.



VOV240

Model	VOV240
Weight(Kg)	16.3
Dimensions(mm)	810x220x280
Pressure(bar)	125
Rated torque (Nm)	235
Revs range(rpm)	0-187
Flow Range(lpm)	18-40



Hydraulic impact wrench is used for tightening and loosening bolts. As it can be regarded as an impact drill and wrench, so it can drive wooden bolts. This tool, for removing and tightening bolts, is widely used in repairing water supply and gas leaking as well as railway line maintenance.

### Features:

- 576 Nm Impact Wrest, Intensity Can Be Adjusted.
- Design Of Hammer Structure.
- Feather Switch.
- Rotate Valve Positive And Negative In A Second.

Model	IWV03
Type	IWV03
Weight(kg)	3.6
Flow (lpm)	15-30
Pressure(bar)	70-140
Dimension(mm)	218x68x218
Impact Wrest(nm)	576
Drive Size(mm)	12.5 square



IWV03



## Impact Wrench

### Welder with Generator

Hydraulic welder with generator is used to weld metal parts, steel pipes, equipment maintenance and etc.

#### Features:

- Adjustable DC welder and welding rod diameter 4mm
- Generator Max. output DC 220V 2KW and also providing for other equipment and lighting
- Light weight and small size and easy to move
- Connecting hydraulic power unit with quick-couples

Model	WDV35
Part Number	WDV35002
Weight (kg)	35
Flow (lpm)	30 – 40
Welding Current (A)	40 - 190
Operating Voltage (V)	80
Welding Rod (mm)	∅ 1.6 -3.2 (flow 30l) ∅ 1.6 – 4 (flow 40l)
Output Voltage (DC)	220
Output Power (KW)	2





The LTV80 Mobile Light is powered by battery that is charged by the hydraulic power unit. It can be used in the construction sites at night without an electric power source, especially effective in emergency rescue and urgent engineering recovery. It is easy controlled and operated to light a large visible area.

### Features:

- Wired and wireless remote control, easy to operate components
- Waterproof and dust proof
- Bright LED source with service life of 50,000 - 60,000 hours
- Extending 12.8 m high and an optional 2.4 m, vertical rotation angle 400 degrees
- Control device operated by air pressure in the operating system, sealed and continuously working

Model	LTV70	LTV80
Part Number	LTV7002	LTV8002
Weight (kg)	5.5	83
Dimensions (mm)	1220x320x110	1325 x 870 x 865
Voltage (v)	12 DC	12 DC
Power (w)	80	50 x 2
Lumen (Plm)	7000	3500 x 2
Elevation Way	Manual	Pneumatic
Wind Resistance	5-6 Level	6 - 8 Level



LTV8002



LTV7002



### 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 / 140 bar 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 / 93° C, temperatures over 110° F / 43° C are uncomfortable to human touch. Our desire is to hold oil temperature to a maximum of 140° F / 43° C.

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

#### BASIC DON'TS FOR COOL OIL CONTROL

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

#### DO THE FOLLOWING TO REDUCE HEAT GENERATION

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

#### PROVIDE GOOD COOLING FOR HYDRAULIC OIL

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

**FLUIDS FOR MOBILE HYDRAULIC TOOL CIRCUITS**

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

**SPECIFICATIONS**

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

**RECOMMENDED FLUIDS**

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

**RECOMMENDED FLUIDS**

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

\*Recommended for extreme cold weather operation.

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