



Hand Lever Pump overview (PG 22, Version 01/2021)

	HP 1000 / 1600-LT		HP 1600-1S		HP 1600-2S		HP 3000-HT		HP 4000-LT	
All pumps and power units available in various models. Modification of the model can change the evaluation of the areas of application. Additional model variations and information about the respective pump types can be found in the data sheets or upon request.										
Pump type:	Hand Lever Pump		Hand Lever Pump		Hand Lever Pump		Hand Lever Pump		Hand Lever Pun Short	np Long
Geometric volume / Conveying performance:	1.1 cm ³ / stroke		1.8 cm ³ / stroke		Step 1: 2.8 cm³ / stroke approx. up to 600 bar Step 2: 1.3 cm³ / stroke up to 1600 bar		Step 1: 32 cm ³ / stroke approx. up to 30 bar Step 2: 0.9 cm ³ / stroke up to 3000 bar		0.39 cm ³ / stroke	
Max. Hydraulic pressure:	1000 bar	1600 bar	1600 bar		1600 bar		3000 bar		4000 bar	
Safety valve:	Positioned out		Positioned inside, set to max. pump pressure		Positioned inside, set to max. pump pressure					
Pressure connection:	According to ty Broadest range		According to type key Broadest range of variations		According to type key Broadest range of variations		According to type key Broadest range of variations		According to type key Broadest range of variations	
Tank content:	0,6 litre	0,9 litre	3.3 litre		3.7 litre		2.1 litre		0.73 litre	1.5 litre
Useable volume:	0,5 litre	0,8 litre	3.1 litre		3.4 litre		2.0 litre		0.63 litre	1.3 litre
Hydraulic oil:	HLP ISO VG 15	i	HLP ISO VG 15		HLP ISO VG 15		HLP ISO VG 15		HLP ISO VG 15	
Pump body / Set-up:	Burnished, high-strength tempered steel		Burnished, high-strength tempered steel		Burnished, high-strength tempered steel		Burnished, high-strength tempered steel		Burnished, high-strength tempered steel	
Tank:	Steel tank coated		Steel tank coated		Steel tank coated		Aluminium		Steel tube tank	
Weight (filled with oil, without distributor, without pressure gauge)	6,1 kg	6,9 kg	19 kg		24 kg		17 kg		11 kg	10 kg
Length:	497 mm	640 mm	750 mm		870 mm 830 r		830 mm		651 mm	660 mm
Width:	115 mm		270 mm		270 mm		200 mm		199 mm	130 mm
Height with pressure gauge:	196 mm		285 mm		280 mm		292 mm (Ø 100) / 300 mm (Ø 160)		218 mm	215 mm
Pressure gauge Standard: (Class 1.0, filled with glycerine)	Ø 100, 1000 bar	Ø 100, 1600 bar	Ø 100, 1600 bar		Ø 100, 1600 bar		Ø 100		Ø 100	
Tested load alternations up to max. pressure	20,000	20,000	150,000		150,000		150,000		50,000	
Areas of Application:	small	big	small	big	small	big	small	big	small	big
SSV single / HM single	++	+	++	+	++	+	++	+	0	-
SSV multiple / HM multiple	+	-	+	-	++	+	+	0	0	-
Oil press-fit radial	0	-	0	-	0	-	++	+	++	0
ExpaTen	0	-	0	-	0	-	+	0	-	-
GripLoc	0	-	0	-	0	-	0	-	-	-
Special features:	External pressure limitation valve available.		External pressure limitation valve available.		External pressure limitation valve available, Spare parts kit in the tank included.		External pressure limitation valve available, Mining version available.		Quick disassembly for transporting, portable set.	

All pumps are of an extremely rugged design. All high-pressure valves are manufactured with hardened valve seats. This ensures exceptionally long service life and ruggedness with regard to contaminants in the hydraulic circuit. All pumps are therefore perfectly suited for rough conditions at construction sites. Steel or aluminium tanks function the same as sturdy tube and angle frames in air and electric powered pumps. All pumps are CE classified, undergo extensive quality assurance checks during production and are supplied with extensive documentation.

Labelling:

- ++ Highly recommended O Limited recommendation
 + Recommended Not recommended











High-pressure unit overview (PG 22, Version 01/2021)

	HDL 1000-2500	HDE 3000-BK		HDE 4000		HDE 4000 D / DM		
All pumps and power units available in various models. Modification of the model can change the evaluation of the areas of application. Additional model variations and information about the respective pump types can be fo					HDE 4000			
Pump type:	Air-Hydraulic Pump	Electrohydraulic High-pressure U	nit	Elektrohydraulic Pump unit		Elektrohydraulic Pump unit		
Geometric volume / Conveying performance:	1000 - 2500 bar 1.0 cm ³ / stroke	1600 - 4000 bar 2.0 cm ³ / stroke	< 700 bar – 0.43 l/min > 700 bar – 0.085 l/min		< 700 bar – 2.3 l/min > 700 bar – 0.5 l/min		0.05 – 1.0 l/min	
Operating voltage / Nominal output:		400 V / 50/60 Hz P _{nenn} = 0.6 kw		400 V / 50/60 Hz P _{nenn} = 2.9 kw		230 V / 50 Hz, Motor drive power: 1.5 kw (DM: 0.75 kw)		
Max. Hydraulic pressure:	2500 bar	4000 bar	1600 bar	3000 bar	1600 bar	4000 bar	4000 bar	
Safety valve:	Factory set approx. to max. hydraulic pressu	Factory set appromax. hydraulic p		Factory set approx. to max. hydraulic pressure		Factory set approx. to max. hydraulic pressure		
Oil-level indicator:	Readable on the outsi	Readable on the	outside	Inspection Glass / Float Switch		Inspection Glass / Float Switch		
Pressure connection:	According to type key Broadest range of var	According to type key Broadest range of variations		According to type key Broadest range of variations		According to type key Broadest range of variations		
Tank content:	6 litre	2.5 litre		33 litre		2 litre		
Useable volume:	5 litre	1.5 litre		23 litre		1 litre		
Hydraulic oil:	HLP ISO VG 15	HLP ISO VG 32		HLP ISO VG 32		HLP ISO VG 32		
Pump body / Set-up:	Service-friendly construction in compact frame	Service-friendly construction in mobile frame		Service-friendly construction in mobile housing		Modular compact unit, decomposable		
Tank:	Aluminium	Aluminium		Aluminium		Aluminium		
Weight (filled with oil, without distributor, without pressure gauge)	33 kg (incl. distributor and pressure gauge)	60 kg		240 kg		Approx. 40 kg	Approx. 2 x 20 kg	
Lenght:	640 mm	445 mm		900 mm		335 mm	325 mm	
Width:	352 mm	360 mm		530 mm		400 mm	397 mm	
Height with pressure gauge:	340 mm	410 mm		1000 mm		490 mm	726 mm	
Pressure gauge Standard:	Ø 100, Class 1.0, filled with glycerine		Ø 100, Class 1.0, filled with glycerine		Ø 160, Class 1.0, filled with glycerine		Electronic pressure monitoring Class 0.15 (standard design)	
Areas of Application:	small	big	small	big				
SSV single / HM single	++	++	++	++	++		++	++
SSV multiple / HM multiple	++	++	++	++	++		++	++
Oil press-fit radial	++	++	++	++	++		++	++
ExpaTen	++	++	++	++	+		++	++
EcoRolls	++	++	++	++	++		++	++
Special features:	Sound suppressor on transmission ratio fror 425 bar (740 bar HDL pressure, hand and fo off valve, external pre- available.	Nearly uninterrup rate, remote oper external pressure valve available, la version available	ration, e limitation arger tank	Temperature monitoring, remote operation with 10 m cable, electric or manually operated SPS Siemens S7-200 pressure release valve.		Each unit is custom-built according to the customer's wishes. The modular technology enables optimized investment costs. Integrated Tool-Service-Indicator (TSI).		

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