Hydraulic power units from the modular design system of HAWE Hydraulik

Type	Image	Operation mode				Pump types			Max. operation pressure p_{max} in bar		Flow rate Q_{max} in lpm at 1450 rpm, 50Hz		Displacement V_{gmax} in cm^3/rev		Motor data				Usable tank filling volume in l	Installed position		Others		
		S1	S2	S3	S6	H	Z	Dual-stage pump	H	Z	H	Z	H	Z	Max. rated power in kW	Alternating current AC	Three-phase AC	Direct current DC	max.	vertical	horizontal	reversable	Protection class acc. IEC 60529	Attachable valve from HAWE
HR			■	■		■			210		0,82				0,3	■	■	■	0,5	■	■	■	IP67	
HS			■	■			■			150		8,9**		3,2	1,8		■		0,3		■	■	IP65	
A			■	■			■			210		2,5*		0,88	0,7	■		■	0,8	■	■		IP50	TLC, SL
H			■	■			■			230		11,8		7,9	2,5		■		9,5	■	■		IP55	HAM, HAL
HICON			■	■			■			170		3,0		0,5	1,3			■	0,6	■	■		IP67	
INKA			■	■		■	■		700	200	1,35	2,25	0,95	1,5	0,55	■	■		1,5	■	■		IP65	BA, VB BVH
KA			■	■		■	■	■	700	200	11,97	40,46	9,17	31,0	5,7	■	■		25,0	■	■	■	IP65	BA, VB BVH
CPU			■	■		■	■		380	200	4,72	10,3	3,62	7,89	1,8		■		12,6	■	■		IP65	BA, VB, CWS
HK		■	■	■	■	■	■	■	700	250	11,97	22,19	9,17	17,0	4,0		■		11,1	■			IP65	BA, VB, BVH
HKL		■	■	■	■	■	■	■	700	200	7,97	18,92	6,11	14,5	2,65	■	■		9,1		■		IP54	BA, VB, BVH
MPN			■	■	■	■	■	■	700	200	11,97	79,61	9,17	61,0	5,0	■	■		75,0	■	■		IP54	BA, VB, BVH

Pump types: Radial piston pump **H** - Gear pump **Z**

Operation mode: S1 (Continuous operation) - **S2** (Short period operation) - **S3** (Standby mode) - **S6** (Continuous periodic operation)

* Flow rate at 2800 rpm or ** at 3000 rpm

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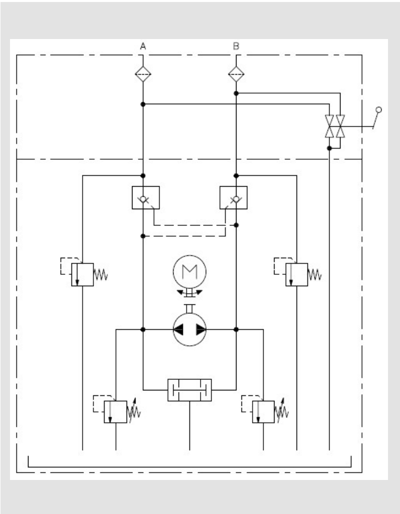
HYDRAULIK

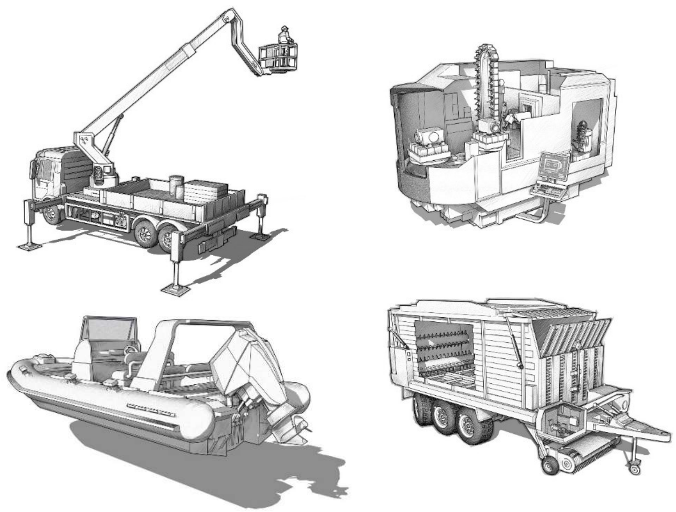
Mini Power Pack Type HR050



Technical specifications	
Type of device	Hydraulic power unit
Size	050
Design	Reversing operation Operating mode S3 – 10 %
Pump type	Radial piston pump
Protection class	IP67
p_{max}	200 bar
Q_{max}	0.95 lpm
Motor power	0.54 kW
Motor type	12, 24 VDC (48 VDC planned)
Tank volume	0.1 – 0.3 l
Usable tank volume	0.082 – 0.228 l
Mounting position	Horizontal and vertical

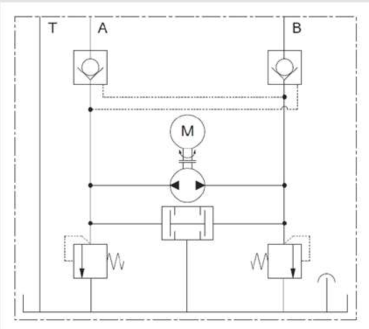
Features and benefits:

- High power density
- Very compact dimensions
- Bi-directional Radial piston pump



HAWE HYDRAULIK

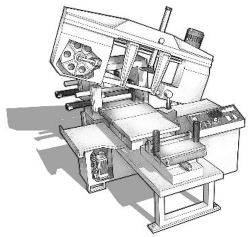
Mini Power Pack Type HR080 and HR120

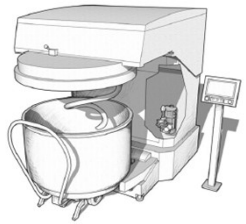


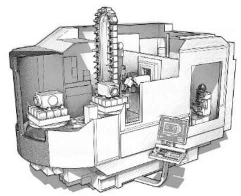
Technical specifications	
Type of device	Hydraulic power unit
Size	080, 120
Design	Reversing operation Operating mode S3 – 10 %
Pump type	Radial piston pump
p_{max}	210 bar
Q_{max}	0.52 lpm (at 2,800 rpm)
Geometric displacement	
Motor power	0.3 kW
Motor type	12 V DC, 24 V DC 230 V AC, 400 V 3-phase current
Usable tank volume	0.23 l
Mounting position	any

Features and benefits:

- Due to reversing operation, no further valves are required for reversing
- Very good price-performance ratio
- Holding function by check valves

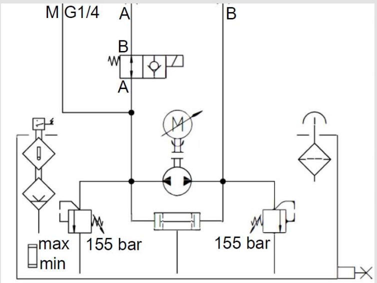






HYDRAULIK

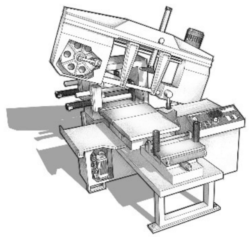
Servo Hydraulic Power Pack Type HS

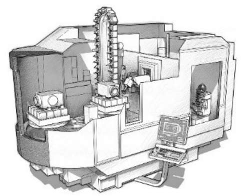


Technical specifications	
Type of device	Hydraulic power unit
Size	120
Design	Power unit with reversible servomotor
pmax	155 bar
Qmax	4,8 l/min
Pump type	External gear pump
Max. motor power	0,83 kW
Volume flow	1,6 ccm/U
Motor type	AC-Synchronmotor
Usable volume	1,4 l
Mounting position	Horizontal

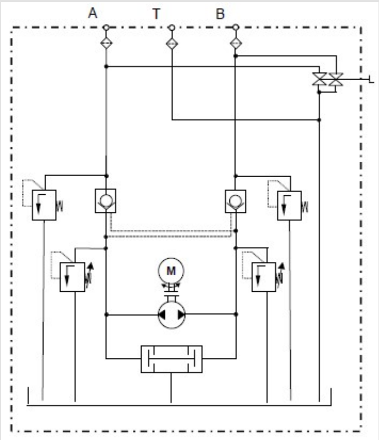
Features and benefits:

- Low noise emission
- Compact design
- No further valves required for reversal movement due to reversing operation
- Reduced installation effort





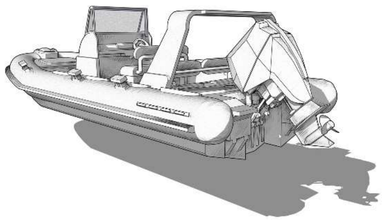
Compact Power Pack Type HICON (Hydraulic Integrated CONtainer)



Technical specifications	
Type of device	Hydraulic power unit
Size	1
Design	Reversing operation Operating mode S3 – 10 %
Pump type	External gear pump
Protection class	IP67
p_{max}	170 bar
Q_{max}	3.0 lpm
Motor power	1.5 kW
Motor type	12 VDC (24/48 VDC planned) brushless
Usable tank volume	0.3 – 0.6 l
Mounting position	Horizontal and vertical

Features and benefits:

- High power density
- Low noise level
- High dynamics due to brushless motor
- Three-chamber system
- Seawater proof



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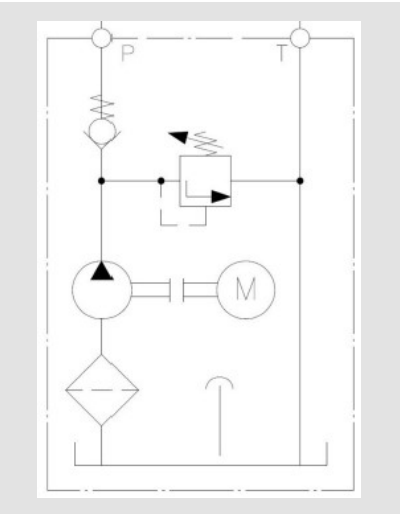
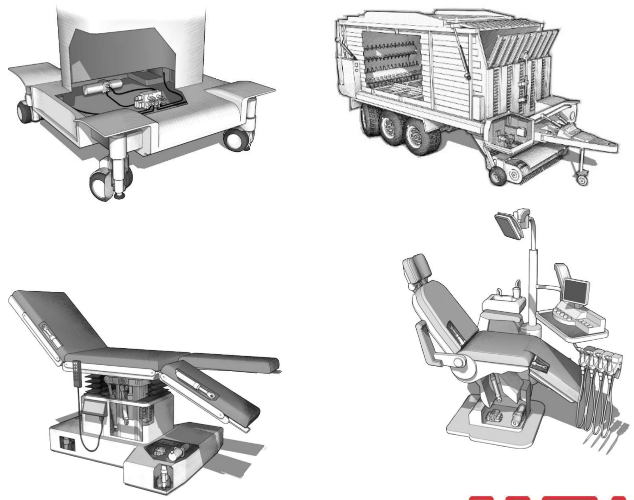
Mini Power Pack Type A065



Technical specifications	
Type of device	Hydraulic power unit
Sizes	65 x 65 mm (chassis)
Design	one flow direction
Pump type	External gear pump
Protection class	IP50
p_{max}	150 bar
Q_{max}	1.0 lpm
Geometric Displacement	0.24 cm³/rev
Motor power	0.25 kW
Motor type	24 V DC
Usable tank volume	0.25 - 0.38l
Mounting position	Vertical, tank on top

Features and benefits:

- Compact size
- Quiet running
- Low current consumption
- Modular design



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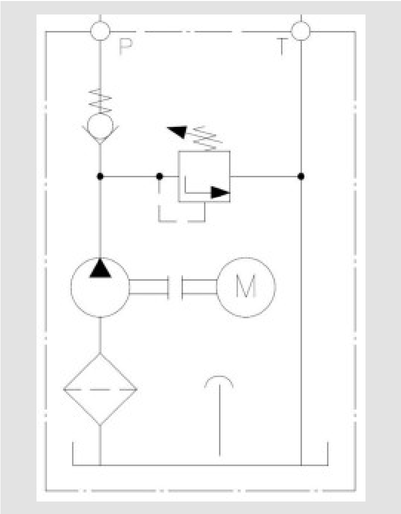
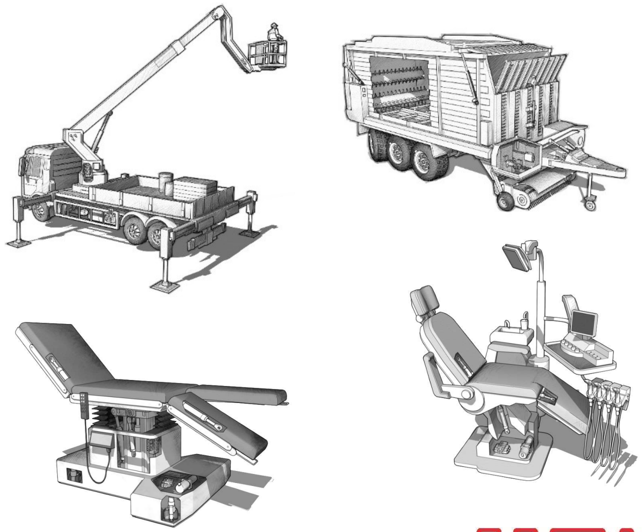
Mini Power Pack Type A100



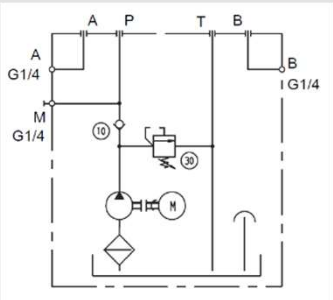
Technical specifications	
Type of device	Hydraulic power unit
Size	100 x 100 mm (chassis)
Design	- One flow direction (standard) - With bypass valve for plunger cylinder
Pump type	External gear pump
Protection class	IP44 – IP65
p_{max}	210 bar
Q_{max}	2.0 lpm
Geometric displacement	0.19 - 0.88 cm^3/rev
Motor power	0.1 - 0.7 kW
Motor type	12 V DC, 24 V DC, 230 V AC
Usable tank volume	0.2 - 0.8 l
Mounting position	Horizontal and vertical

Features and benefits:

- Quiet running
- Modular design
- Standard HAWE Micro Fluid valve banks can be installed
- High efficiency



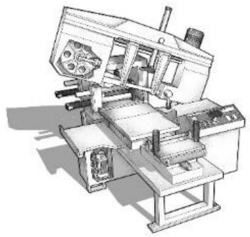
Compact Power Pack Type H3

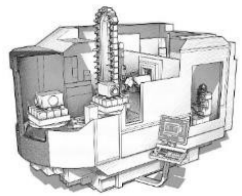


Technical specifications	
Type of device	Hydraulic power unit
Sizes	300, 350
Design	Standard design Operating mode S3 - 20%
Pump type	External gear pump
pmax	210 bar
Qmax	0.52 lpm
Geometric displacement	0.18 - 1.52 cm^3/U
Max. motor power	1.5 kW
Motor type	400 V 3-phase
Usable volume	1.9 - 3.3 l
Mounting position	Horizontal and vertical

Features and benefits:

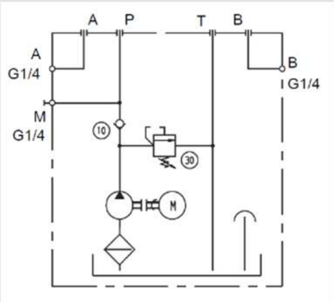
- H300 - Manual pressure limit through emergency relief valve
- H300 - Lifting / lowering function integrated
- H350 - Designed for modular valve assembly (VK35, NG4 and NG6)





HAWE HYDRAULIK

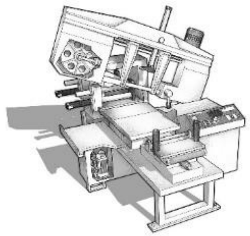
Compact Power Pack Type H4

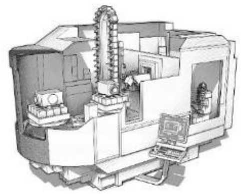


Technical specifications	
Type of device	Hydraulic power unit
Sizes	400, 410, 440
Design	Standard design Operating mode S3 - 20%
Pump type	External gear pump
pmax	230 bar
Qmax	11.8 lpm
Geometric displacement	1.10 - 7.9 cm^3/U
Max. motor power	2.5 kW
Motor type	400 V 3-phase current
Usable volume	4.5 - 9.5 l
Mounting position	Horizontal and vertical

Features and benefits:

- H400 - A throttle valve enables manually adjustable lowering speed
- H410 - The 2-way proportional control valve allows proportionally adjustable lifting and lowering speed
- H440 - Designed for modular valve assembly (VK35, NG4 and NG6)





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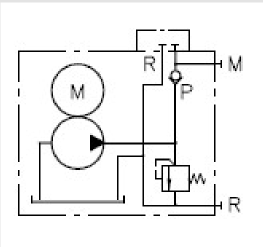
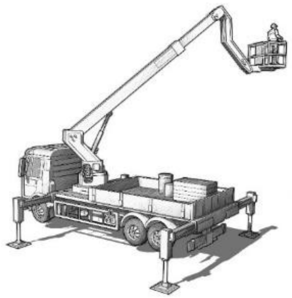
Compact Power Pack Type NPC



Technical specifications	
Type of device	Hydraulic power unit
Sizes	11, 12
Design	Hydraulic power unit with DC operating mode S3
Pump type	Radial piston pump or gear pump
pmax	Radial piston pump 750 bar External gear pump 200 bar
Qmax	Radial piston pump 2.29 lpm External gear pump 3.5 lpm
Geometric displacement	Radial 0.09 - 0.76 cm³/rev Gear 0.18 - 1.0 cm³/rev
Max. motor power	0.6 kW
Motor type	DC
Filling volume	1.0 l
Usable volume	0.65 l
Mounting position	Horizontal and vertical

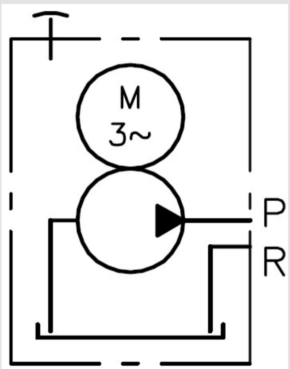
Features and benefits:

- Very low space requirements and low weight
- Particularly suited to mobile applications and construction site operation
- Long lifetime and excellent reliability achieved by using radial piston pumps



HAWE HYDRAULIK

Compact Power Pack Type INKA

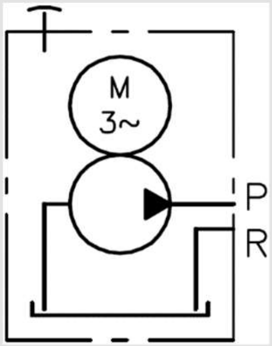


Technical data	
Type of device	Compact power pack
Size	1
Design	Oil immersed motor operating mode S3
Pump type	Radial piston pump (H) External gear pump (Z) DMPE (HD)
Filling volume	1,5 l - 2,5 l
Usable volume	0.5 - 1.5 l
Mounting position	Horizontal and vertical

Technical data	
pmax	H: 700 bar Z: 200 bar
Qmax	H: 1.35 lpm Z: 2.25 lpm
Geometric displacement	H: 0.19 - 0.95 cm³/rev Z: 0.50 - 1.50 cm³/rev
Motor power	1~0.37 kW; 3~0.25 kW; 3~0,55 kW
Motor type	4-pole Stators: UL conform 3 x 400 V 50 Hz / 460 V 60 Hz 3 x 230 V 50 Hz / 265 V 60 Hz 1 x 230 V 50 Hz / 110 V 60 Hz

HAWE HYDRAULIK

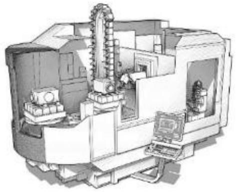
Compact Power Pack Type KA

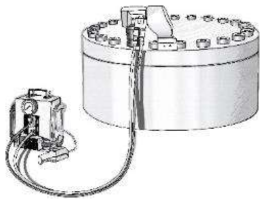


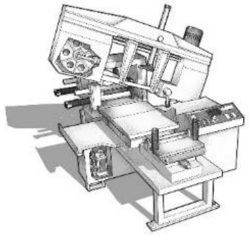
Technical specifications	
Type of device	Hydraulic power unit
Sizes	2, 4
Design	Oil immersed motor for operating modes S2, S3
Pump type	Radial piston and / or gear pump
pmax	Radial piston pump 700 bar Gear pump 200 bar
Qmax	Radial piston pump 29.4 lpm Gear pump 22.5 lpm
Geometric displacement	Gear 0.23 - 7.24 cm³/rev Radial 0.86 - 7.89 cm³/rev
Max. motor power	4.0 kW
Motor type	Single- or three phase
Filling volume	3.9 l - 31 l
Useable volume	1.5l - 25l
Mounting position	Horizontal and vertical

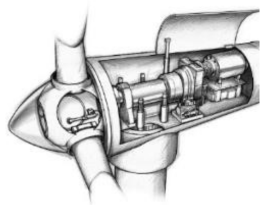
Features and benefits:

- Space-saving integrated design
- Filling and useable oil volumes can be flexibly extended by modular tank design
- Optimal efficiency through oil immersed motor cooling
- Additional forced cooling fan available for optimal performance utilization

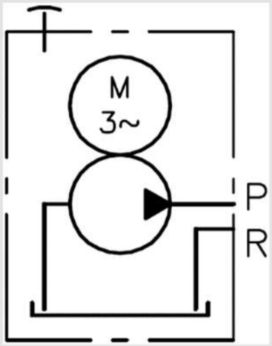








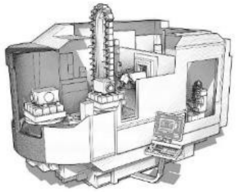
Compact Power Pack Type CPU

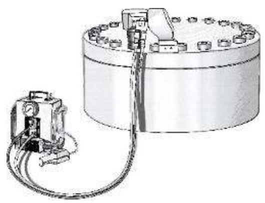


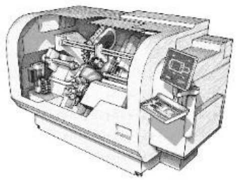
Technical specifications	
Type of device	Hydraulic power unit
Size	3
Design	Oil immersed motor for operating modes S2, S3
Pump type	Radial piston pump and / or gear pump
pmax	Radial piston pump 350 bar Gear pump 200 bar
Qmax	Radial piston pump 5,93 lpm Gear pump 13,04 lpm
Geometric displacement	Radial 0,23 - 3,62 cm³/rev Gear 0,8 - 7,89 cm³/rev
Max. motor power	1,8 kW
Motor type	Three phase
Filling volume	6 l - 16,1 l
Useable volume	2,5 l - 12,6 l
Mounting position	Horizontal and vertical

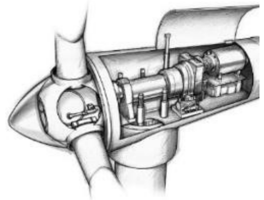
Features and benefits:

- Hand pump can be mounted directly on the base
- Standard valve program directly attachable
- Very good price-performance ratio
- Resource-saving due to small oil filling volumes

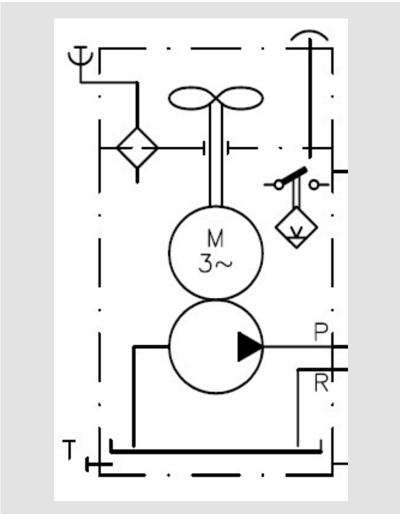








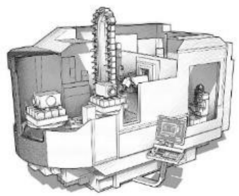
Compact Power Pack Type HK

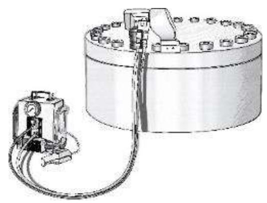


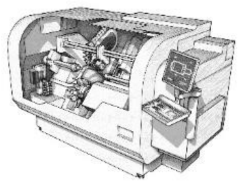
Technical specifications	
Type of device	Hydraulic power unit
Sizes	4
Design	Oil immersed motor operating modes S1, S2, S3, S6
Pump type	Radial piston pump and / or gear pump
pmax	Radial piston pump 700 bar Gear pump 200 bar
Qmax	Radial piston pump 15.62 lpm Gear pump 29.0 lpm
Geometric displacement	Radial 0.64 - 9.17 cm³/rev Gear 1.6 - 17.0 cm³/rev
Max. motor power	4.0 kW
Motor type	Three-phase AC
Filling volume	4.65 l - 15.4 l
Useable volume	1.45 l - 11.1 l
Mounting position	Vertical

Features and benefits:

- Energy-efficient drive through good heat dissipation
- Due to small oil filling volume resource-saving
- Speed control possible with frequency converter
- Very good heat dissipation







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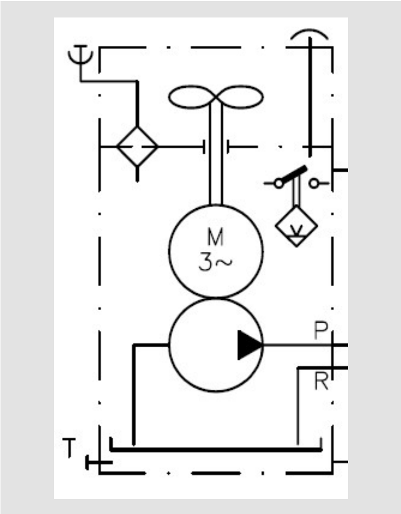
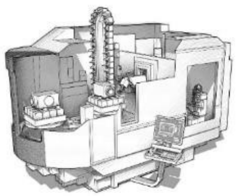
Compact Power Pack Type HKL

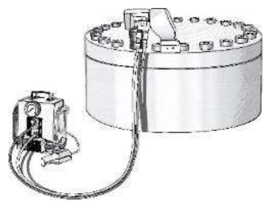


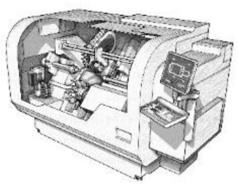
Technical specifications	
Type of device	Hydraulic power unit
Size	3
Design	Oil immersed motor operating modes S1, S6
Pump type	Radial piston pump and / or gear pump
pmax	Radial piston pump 700 bar Gear pump 200 bar
Qmax	Radial piston pump 17.36 lpm Gear pump 23.9 lpm
Geometric displacement	Radial 0.86 - 8.7 cm^3/rev Gear 0.8 - 14.5 cm^3/rev
Max. motor power	2.65 kW
Motor type	Single- or three-phase
Filling volume	3.7 l - 13 l
Useable volume	1.7 l - 9.1 l
Mounting position	Horizontal

Features and benefits:

- Long life and high reliability through use of radial piston pumps
- By small oil filling volume environmentally friendly and with low disposal costs and low costs for hydraulic fluid
- Continuous operation

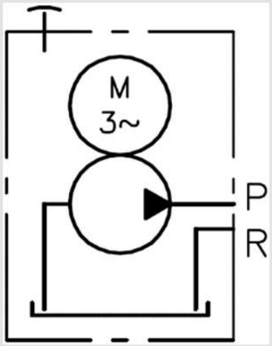






HAWE HYDRAULIK

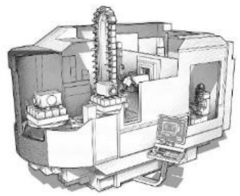
Compact Power Pack Type MPN

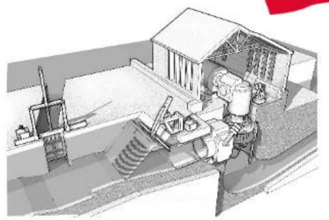


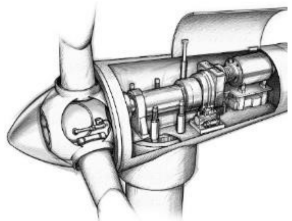
Technical specifications	
Type of device	Hydraulic power unit
Sizes	2, 4
Design	Oil immersed motor operating modes S2, S3, S6
Pump type	Radial piston pump and / or (internal) gear pump
pmax	Radial piston pump 700 bar Gear pump 220 bar
Qmax	Radial piston pump 30,35 lpm Gear pump 139 lpm
Geometric displacement	Radial 0.43 - 9.17 cm^3/rev Gear 1.5 - 61.0 cm^3/rev
Max. motor power	4.2 kW
Motor type	Single- or three-phase
Filling volume	17 l - 100 l
Useable volume	10 l - 75 l
Mounting position	Horizontal and vertical

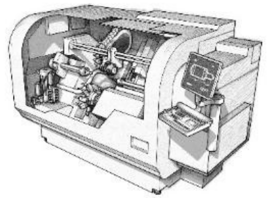
Features and benefits:

- Compact design
- Wide range of combinable valve banks for complete solutions ready for connection
- Available versions: motor only, motor-pump combinations, complete power unit
- Noise reduction while using an internal gear pump



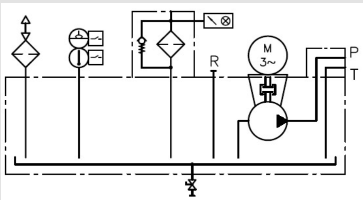






HAWE HYDRAULIK

Standard Power Pack Type FXU



Technical specifications	
Type of device	Hydraulic power unit
Design	Motor outside Operation mode S1
pmax	Radial piston pump 700 bar Gear pump 260 bar
Qmax	Radial piston pump 91.2 lpm Gear pump 135 lpm
Pump type	Radial piston pump and/or gear pump
Max. motor power	37 kW
Motor type	Design V1 DIN EN 60034
Filling volume	30 l – 630 l
Geometric displacement	Radial 1.07 - 64.15 cm^3/rev Gear pump 4.1 - 87.5 cm^3/rev
Useable volume	27 l - 565 l
Mounting position	Vertical

Features and benefits:

- Hydraulic power pack for continous operation
- Customer-specific documentation with Eplan Fluid an step model
- Direct mounting of HAWE valve banks with seated and spool valves