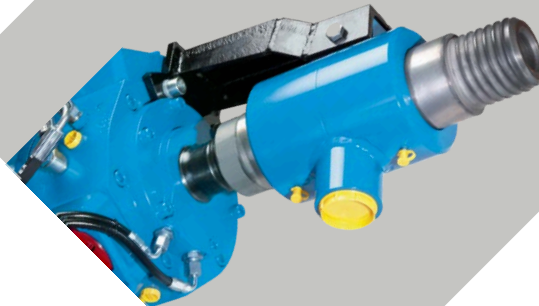
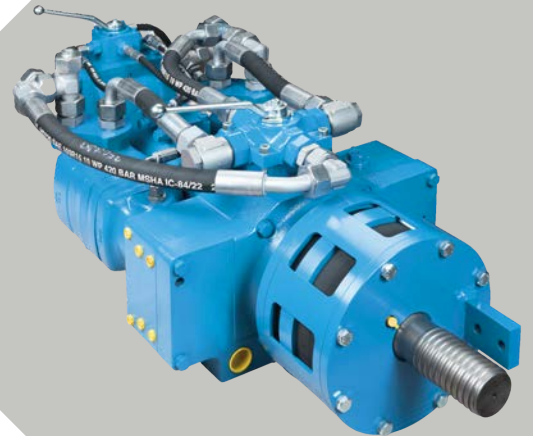
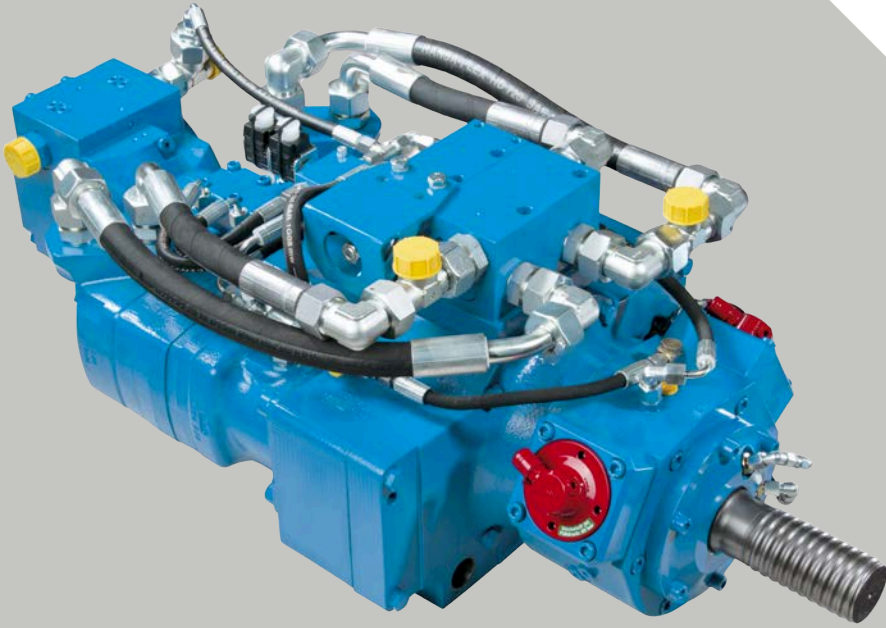




terra
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safety: efficient and sustainable



DRIFTER
HB45

DRIFTER HB45

HB45 is a mid-size Drifter (top-hammer) especially developed for:

- Micropile drilling up to a casing diameter of 7 inch (ø177,8 mm)
- Overburden drilling up to an outside casing diameter of 6 inch (ø152,4 mm)
- Threaded hollow bar drilling (self-drilling anchors) up to a bar diameter of 4 inch (ø101,6 mm)

HB45 has a standard built-in hydraulic damping mechanism to avoid blank impacts and to allow percussion during retraction of casings; optional with a rubber damping mechanism.

HB45 achieves an optimal drilling performance in different types of soil by adjusting the impact frequency and the impact energy, therefore 3 different impact frequencies and impact energies are available.

HB45 offers 3 different ways to switch between the percussion mechanism and the speed of the rotary drive, either electrically or hydraulically or manually (by hand) and it offers 3 different high-speed and high-pressure motors (480 ccm, 677 ccm, 940 ccm) and two single-speed motors (670 ccm and 677 ccm).

Percussion Unit

Operating pressure	180 - 200 bar
Oil flow rate	70 - 90 l/min
Impact rate	(20 30 42 Hz) 1.200 1.800 2.500 min ⁻¹
Single impact energy	590 400 340 Nm

Shank Adaptors (Striker Bars)

Male thread	C64 left C64 right
Female thread	R55(H55) left R55(H55) right

OPTIONS

- External flushing head for casings and self-drilling hollow bars
- Built-in RPM sensor with external box for speed indication
- Drifter with hydraulic or rubber damping mechanism
- Central lubrication system

Rotary Drives

Motor-Version 670 ccm (Single-Speed)																		
Pressure at rotary drive			140 bar				170 bar				200 bar							
Gear			2 nd		1 st		2 nd		1 st		2 nd		1 st					
Oil flow rate (lpm)	90	Torque (Nm) Speed (rpm)	3.200		6.400		4.000		8.100		4.800		9.700					
	120	Torque (Nm) Speed (rpm)	3.100		6.400		4.000		8.000				9.600					
	170	Torque (Nm) Speed (rpm)	3.100		6.400		3.900		8.000				9.600					
1st gear (parallel mode), 2nd gear (serial mode)															■ Intermittend mode (max. 10% per minute)			

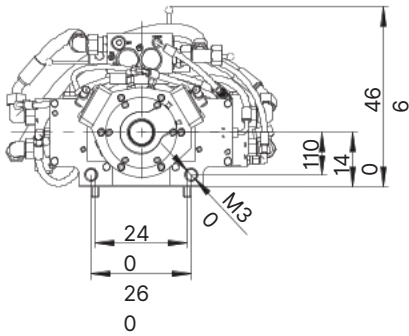
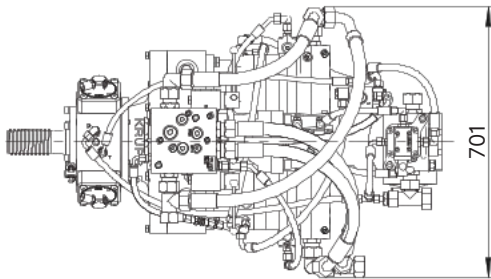
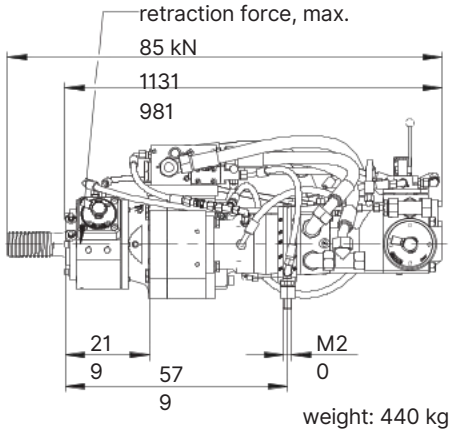
Motor-Version HP480 ccm (Two-Speed)																		
Pressure at rotary drive			170 bar				200 bar				240 bar				280 bar			
Gear			4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st
Oil flow rate (lpm)	90	Torque (Nm) Speed (rpm)	1.700 121	2.700 80	3.800 60	5.800 40	2.000 121	3.200 80	4.500 60	6.800 40	2.500 121	3.900 80	5.400 60	8.300 40	3.000 121	4.600 80	6.400 60	9.700 40
	120	Torque (Nm) Speed (rpm)	1.300 161	2.500 107	3.700 80	5.600 54	1.600 161	3.100 107	4.400 80	6.700 54	2.100 161	3.800 107	5.300 80	8.100 54	2.600 161	4.500 107	6.300 80	9.500 54
	170	Torque (Nm) Speed (rpm)	1.100 228	2.200 152	3.400 114	5.400 76	1.500 228	2.700 152	4.200 114	6.400 76	1.900 228	3.400 152	5.100 114	7.900 76	2.400 228	4.100 152	6.100 114	9.300 76
1st gear (parallel mode), 2nd gear (parallel + 2-speed mode), 3rd gear (serial mode), 4th gear (serial + 2-speed mode)																		

Motor-Version HP677 ccm (two-speed) (standard)																		
Pressure at rotary drive			170 bar				200 bar				240 bar				280 bar			
Gear			4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st
Oil flow rate (lpm)	90	Torque (Nm) Speed (rpm)	2.400 86	3.800 57	5.300 43	8.100 29	2.900 86	4.500 57	6.300 43	9.600 29	3.500 86	5.500 57	7.700 43	11.600 29	4.200 86	6.500 57	9.000 43	13.600 29
	120	Torque (Nm) Speed (rpm)	1.800 114	3.600 76	5.200 57	7.900 38	2.300 114	4.300 76	6.200 57	9.400 38	3.000 114	5.300 76	7.500 57	11.400 38	3.600 114	6.300 76	8.900 57	13.400 38
	170	Torque (Nm) Speed (rpm)	1.600 162	3.000 108	4.900 81	7.600 54	2.100 162	3.800 108	5.900 81	9.100 54	2.700 162	4.800 108	7.200 81	11.100 54	3.400 162	5.800 108	8.500 81	13.100 54
1st gear (parallel mode), 2nd gear (parallel + 2-speed mode), 3rd gear (serial mode), 4th gear (serial + 2-speed mode)																		

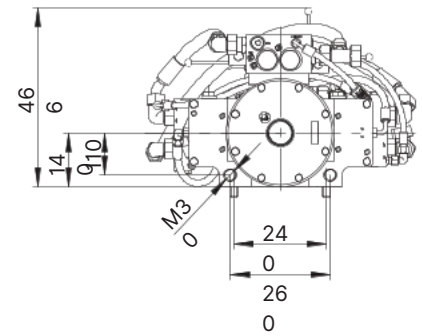
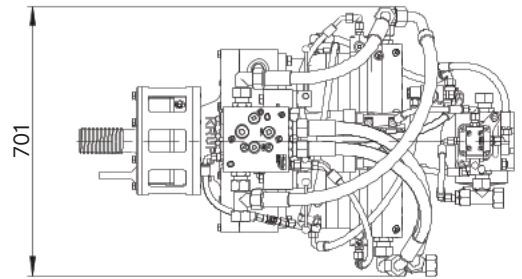
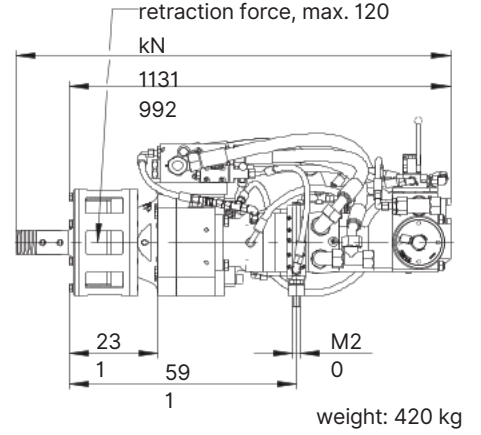
Motor-Version HP940 ccm (Two-Speed)																		
Pressure at rotary drive			170 bar				200 bar				240 bar							
Gear			4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st	4 th	3 rd	2 nd	1 st				
Oil flow rate (lpm)	90	Torque (Nm) Speed (rpm)	3.300 62	5.200 41	7.400 31	11.300 21	3.700 62	5.900 41	8.300 31	12.700 21	4.900 62	7.700 41	10.600 31	16.200 21				
	120	Torque (Nm) Speed (rpm)	2.500 82	4.900 55	7.200 41	11.000 27	3.000 82	5.600 55	8.100 41	12.400 27	4.100 82	7.400 55	10.500 41	15.900 27				
	170	Torque (Nm) Speed (rpm)	2.200 116	4.200 78	6.800 58	10.500 39	2.700 116	4.900 78	7.700 58	11.900 39	3.800 116	6.700 78	10.000 58	15.400 39				
1st gear (parallel mode), 2nd gear (parallel + 2-speed mode), 3rd gear (serial mode), 4th gear (serial + 2-speed mode)															■ Intermittend mode (max. 10% per minute)			

Dimensions

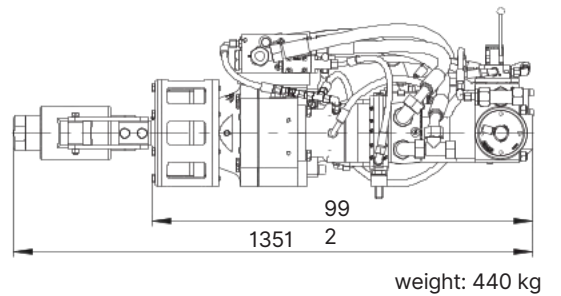
with hydraulic damping mechanism

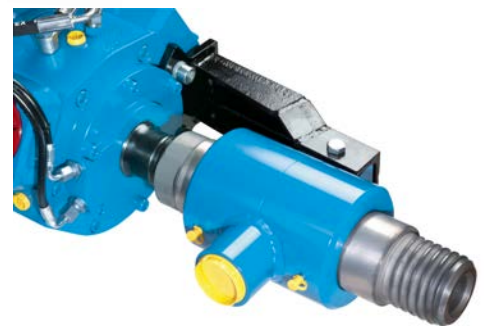
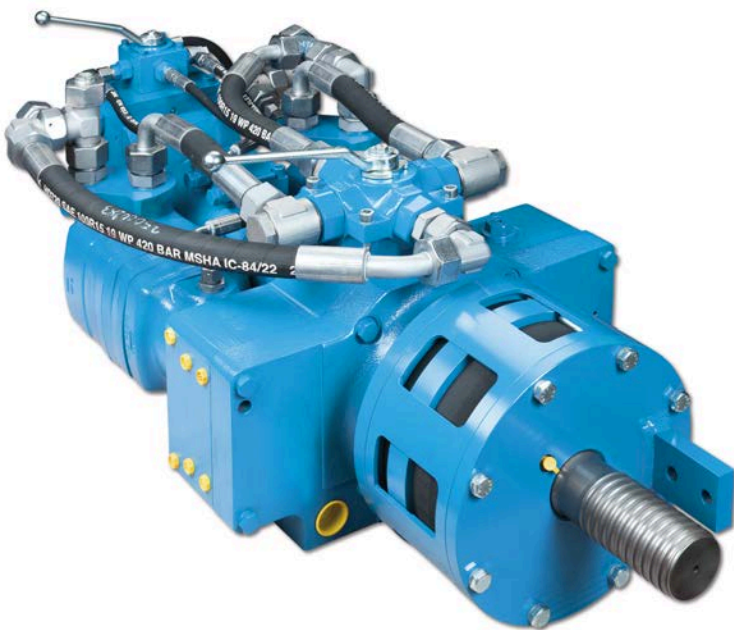
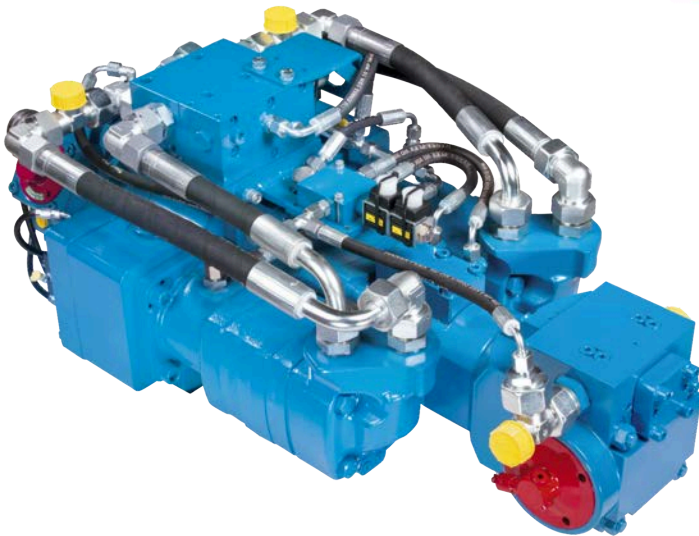
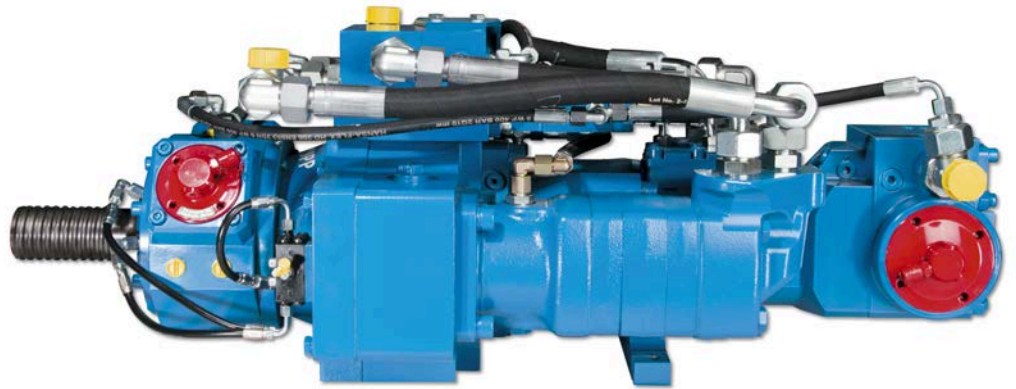


with rubber damping mechanism



with rubber damping mechanism & external flushing head





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