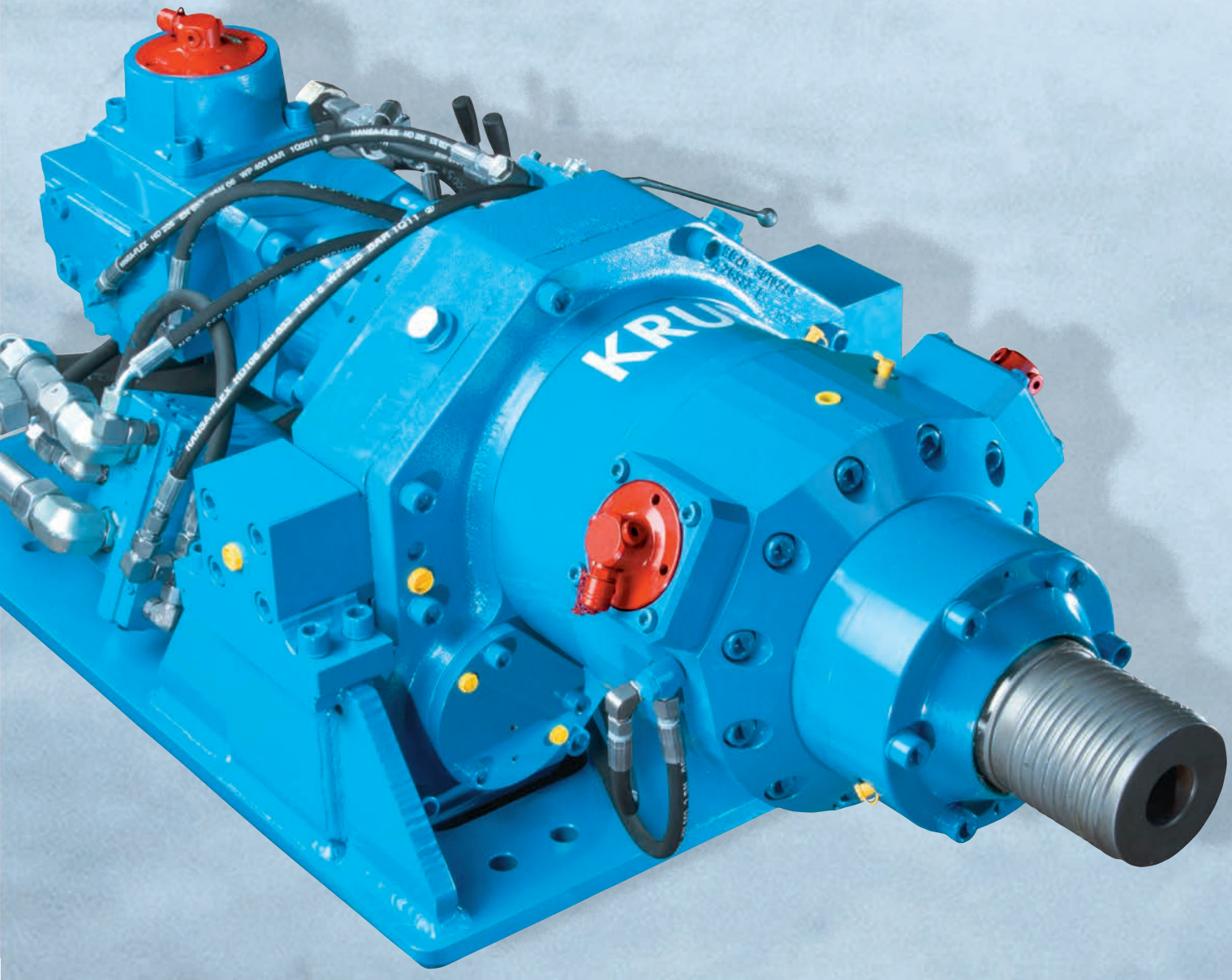
Materials Services
Infrastructure

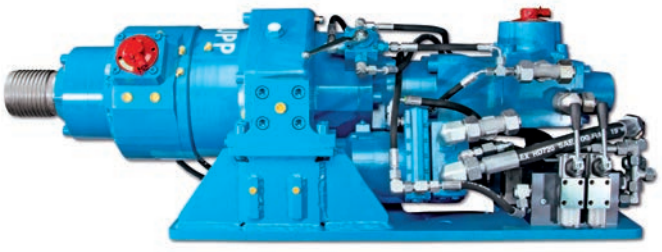
KRUPP Drifter HB50.

thyssenkrupp



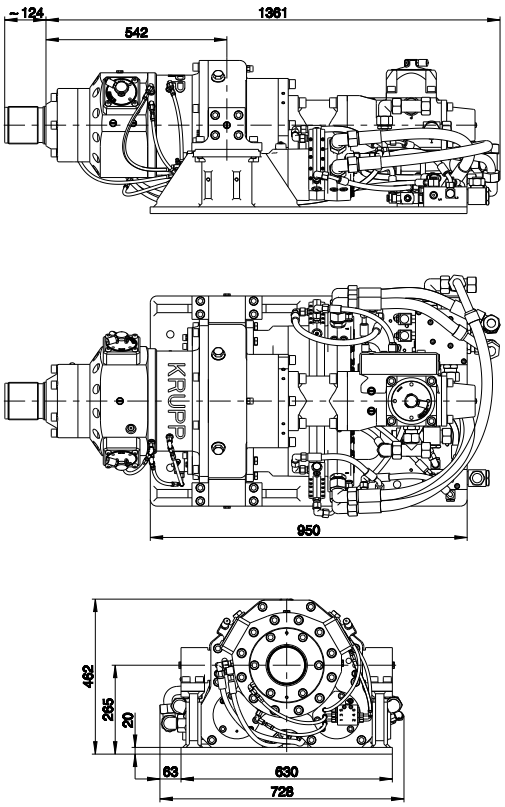
KRUPP Drifter HB50

Compact design – the ideal drifter (hammer drill) for mid-size and larger drill rigs and excavator mounted drill masts.



- Especially developed for overburden drilling, drive drilling, threaded self-drilling anchors and micropiles.
- Casing diameter up to 219 mm (9 inch) and threaded hollow bars up to a diameter of 103 mm (4 inch).
- The standard built-in hydraulic damping mechanism improves retraction of casings and rods and avoids blank impacts.
- Optional: electric, hydraulic or manual changeover for the rotary drive speed and for the percussion mechanism frequency.
- Options: external flushing head, central lubrication system and integrated RPM sensor.

Main Dimensions



Weight approx. 815 kg (including base plate)

Retraction Force max. 200 kN

Rotary Drives

Motor-Version 670 ccm

Pressure at rotary drive		70 bar				140 bar				170 bar				200 bar			
Gear			2nd		1st		2nd		1st		2nd		1st		2nd		1st
Oil flow rate (lpm)	90 Torque (Nm)		2,100		4,200		4,300		8,600		5,300		10,800		6,400		12,900
	90 Speed (rpm)		45		21		43		19		40		19		39		18
	150 Torque (Nm)		2,000		4,200		4,200		8,500		5,300		10,700				12,900
	150 Speed (rpm)		71		35		69		33		69		33				32
	170 Torque (Nm)		2,000		4,200		4,100		8,500		5,200		10,700				12,900
	170 Speed (rpm)		80		39		78		38		78		39				36

1st gear (parallel mode), 2nd gear (serial mode)

Intermittend mode (max. 10% per minute)

Motor-Version HP677.1 ccm (standard)

Pressure at rotary drive		140 bar				200 bar				240 bar				280 bar			
Gear		4th	3rd	2nd	1st	4th	3rd	2nd	1st	4th	3rd	2nd	1st	4th	3rd	2nd	1st
Oil flow rate (lpm)	90 Torque (Nm)	2,500	4,100	5,800	8,900	3,900	6,200	8,700	13,200	4,700	7,400	10,300	15,500	5,600	8,800	12,100	18,300
	90 Speed (rpm)	64	43	32	21	64	43	32	21	64	43	32	21	64	43	32	21
	150 Torque (Nm)	1,700	3,400	5,400	8,400	3,200	5,500	8,300	12,700	4,000	6,700	9,900	15,100	4,900	8,100	11,600	17,800
	150 Speed (rpm)	107	71	53	36	107	71	53	36	107	71	53	36	107	71	53	36
	170 Torque (Nm)	1,400	3,100	5,200	8,100	2,900	5,300	8,100	12,500	3,700	6,400	9,700	14,800	4,600	7,800	11,400	17,500
	170 Speed (rpm)	120	80	60	40	120	80	60	40	120	80	60	40	121	80	60	40

1st gear (parallel mode), 2nd gear (parallel + 2-speed mode), 3rd gear (serial mode), 4th gear (serial + 2-speed mode)

Motor-Version HP677.3 ccm

Pressure at rotary drive		140 bar				200 bar				240 bar				280 bar			
Gear		4th	3rd	2nd	1st	4th	3rd	2nd	1st	4th	3rd	2nd	1st	4th	3rd	2nd	1st
Oil flow rate (lpm)	90 Torque (Nm)	2,700	4,400	6,300	9,600	4,300	6,800	9,400	14,300	5,100	8,000	11,100	16,900	6,100	9,500	13,100	19,800
	90 Speed (rpm)	59	39	29	20	59	39	29	29	59	39	29	20	59	39	29	20
	150 Torque (Nm)	1,900	3,600	5,800	9,100	3,500	6,000	9,000	13,800	4,300	7,300	10,700	16,400	5,300	8,700	12,600	19,300
	150 Speed (rpm)	98	66	49	33	98	66	49	33	98	66	49	33	98	66	49	33
	170 Torque (Nm)	1,600	3,300	5,600	8,800	3,100	5,700	8,800	13,500	4,000	7,000	10,500	16,100	5,000	8,400	12,400	19,000
	170 Speed (rpm)	110	74	56	37	110	74	56	37	110	74	56	37	110	74	56	37

1st gear (parallel mode), 2nd gear (parallel + 2-speed mode), 3rd gear (serial mode), 4th gear (serial + 2-speed mode)

Motor-Version HP940 ccm

Pressure at rotary drive		140 bar				170 bar				200 bar				240 bar			
Gear		4th	3rd	2nd	1st	4th	3rd	2nd	1st	4th	3rd	2nd	1st	4th	3rd	2nd	1st
Oil flow rate (lpm)	90 Torque (Nm)	3,500	5,600	8,000	12,300	4,400	7,000	9,900	15,100	5,500	8,700	12,100	18,400	6,600	10,300	14,300	21,600
	90 Speed (rpm)	46	31	23	15	46	31	23	15	46	31	23	15	46	31	23	15
	150 Torque (Nm)	2,400	4,700	7,500	11,600	3,400	6,100	9,300	14,400	4,400	7,700	11,500	17,700	5,500	9,300	13,700	21,000
	150 Speed (rpm)	77	51	38	26	77	51	38	26	77	51	38	26	77	51	38	26
	170 Torque (Nm)	2,000	4,300	7,200	11,300	2,900	5,700	9,000	14,100	4,000	7,300	11,200	17,300	5,100	8,900	13,400	20,600
	170 Speed (rpm)	87	58	43	29	87	58	43	29	87	58	43	29	87	58	43	29

1st gear (parallel mode), 2nd gear (parallel + 2-speed mode), 3rd gear (serial mode), 4th gear (serial + 2-speed mode)

Other motor versions are available

Percussion Unit

Operating pressure (kp/cm²)	180 - 200 bar
Oil flow rate (l/min)	70 - 90 lpm
Impact rate (min^{-1})	1,200 / 1,900 / 2,400 bpm
Single impact energy (Joule)	840 / 540 / 420 Nm

Shank Adaptors (Striker Bars)

Male thread	C112 left, C112 right
Other shank adaptors (striker bars) are available	

Materials Services
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