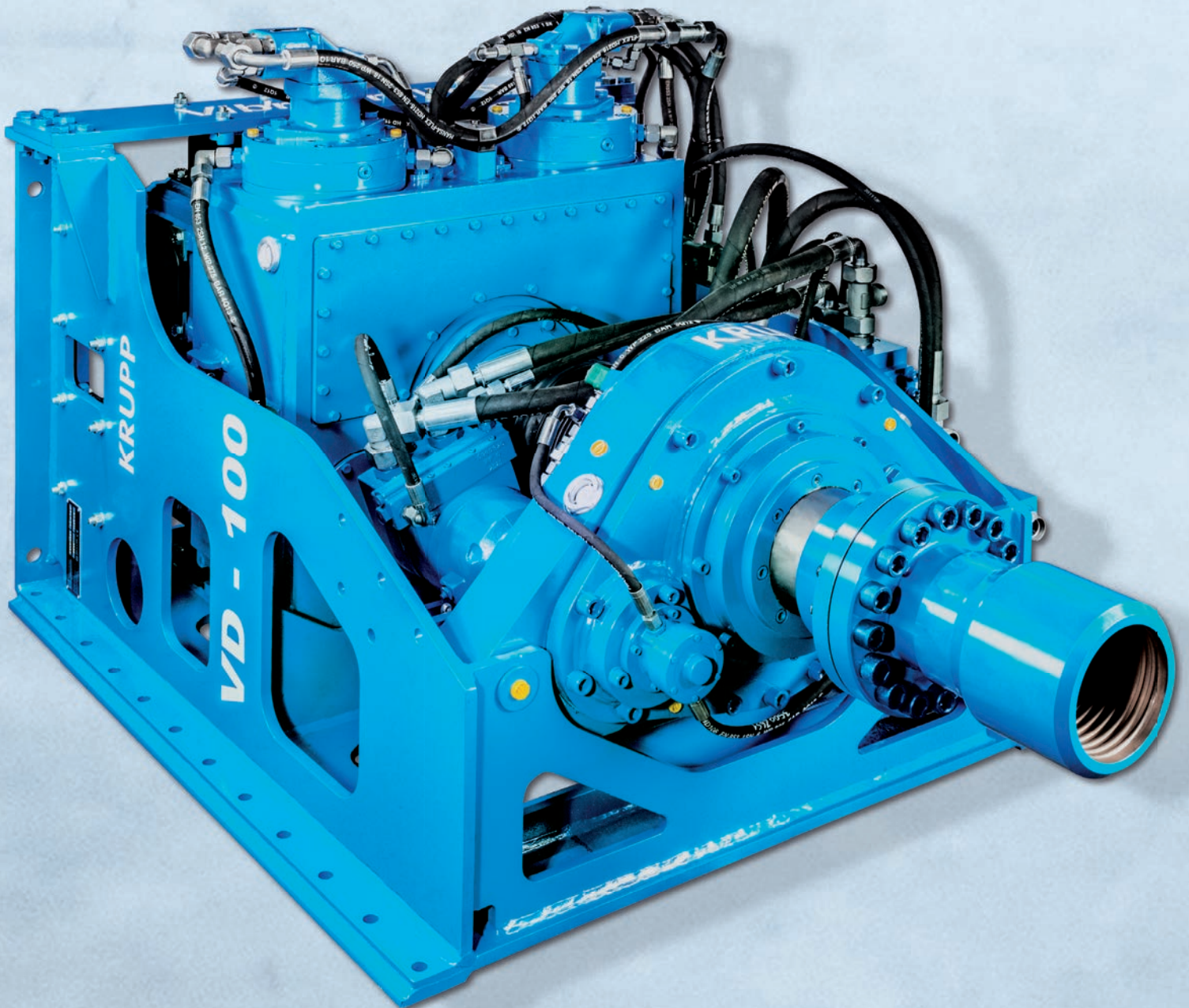


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KRUPP VibroDrill VD100.

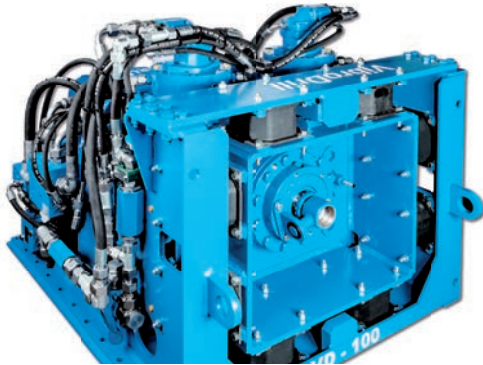


thyssenkrupp

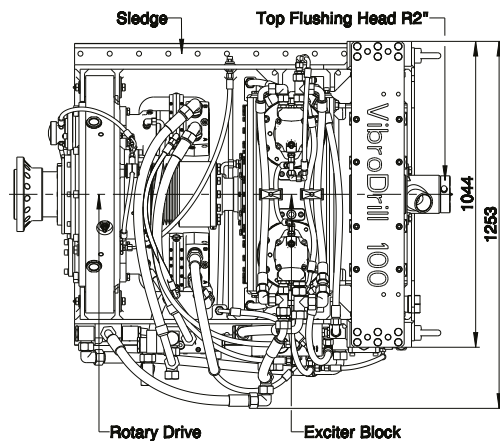
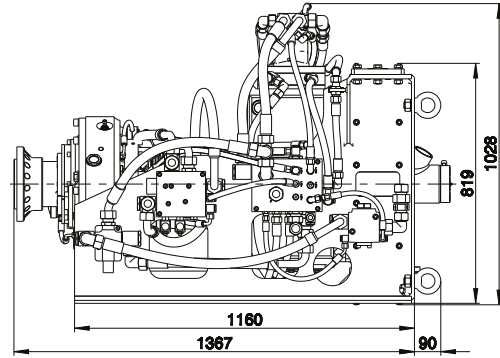


KRUPP VibroDrill VD100

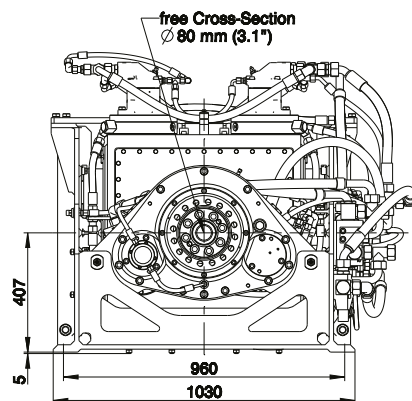
Best drilling performance in different soil conditions, due to adjustable frequencies up to 100 Hz and adjustable unbalances.



Main Dimensions



- The low casing friction preserves the threads during drilling and ensures precise drilling and consequently guarantees e.g. the verticality of geothermal probes and micropiles.
- Especially developed for Geothermal drilling up to 120 m depth, overburden drilling, lost bit drilling, micropiles and core drilling in sand, gravel, clay and medium-hard rock.
- The VibroDrill allows the drilling of holes under all angles, from 0° to 90° (from horizontal up to vertical), even horizontal drilling „in front“ of an anchor drill rig is possible.
- A proven flushing head for water, compressed air and suspension of cement is available as option; it can be placed either above or below the VibroDrill.
- Options: Flushing head, central lubrication system, integrated RPM sensor, drill rods and drill bits.



total Weight approx. 1550 kg
 Push Down Force max. 30 kN
 Retraction Force max. 60 kN



Rotary Drives

Motor-Version HP480 ccm (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 82	3,900 55	5,400 41	8,300 27	3,000 82	4,800 55	6,600 41	10,100 27	3,600 81	5,700 54	7,600 40	11,900 27	4,300 81	6,700 54	9,200 40	13,900 27
	150	Torque (Nm) Speed (rpm)	1,800 137	3,300 91	5,100 69	7,900 46	2,400 136	4,200 91	6,300 68	9,700 45	3,000 136	5,100 90	7,500 67	11,500 45	3,700 135	6,100 90	8,900 67	13,600 45
	170	Torque (Nm) Speed (rpm)	1,600 155	3,100 104	5,000 78	7,700 52	2,200 154	4,000 103	6,200 77	9,500 51	2,800 154	4,900 102	7,400 76	11,300 51	3,500 153	5,900 102	8,700 76	13,400 51

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

Motor-Version HP677 ccm																		
Pressure at rotary drive		70 bar				140 bar				170 bar				200 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)	1,000 59	1,800 40	2,800 30	4,500 20	2,700 59	4,400 39	6,200 29	9,500 20	3,400 58	5,400 39	7,700 29	11,700 19	4,200 58	6,700 39	9,200 39	14,200 19
	150	Torque (Nm) Speed (rpm)	200 99	1,100 66	2,400 50	3,900 33	1,900 98	3,600 65	5,800 49	9,000 33	2,600 97	4,700 65	7,200 49	11,200 32	3,400 97	6,000 64	8,900 48	13,700 32
	170	Torque (Nm) Speed (rpm)	200 112	800 75	2,200 56	3,700 37	1,500 111	3,300 74	5,600 55	8,700 37	2,300 110	4,400 73	7,000 55	10,900 37	3,100 110	5,600 73	8,700 55	13,400 37

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

Vibro Unit

Operating pressure	240 - 300 bar
Oil flow rate	170 lpm
Frequency	100 Hz (6000 min ⁻¹)
Eccentric moment	0,2 - 0,5 kgm
Centrifugal force	200 kN
Hydraulic power	65 - 85 kW

Performance Data

Drilling performance	up to 1 m per minute
Drilling angle	0° - 90° (horizontal - vertical)
Rod diameter range	ø 76 - 300 mm
Rod weight	max. 3500 kg
Drilling depth	up to 120 m
Soil conditions	sand, gravel, clay, medium-hard rock

Materials Services
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