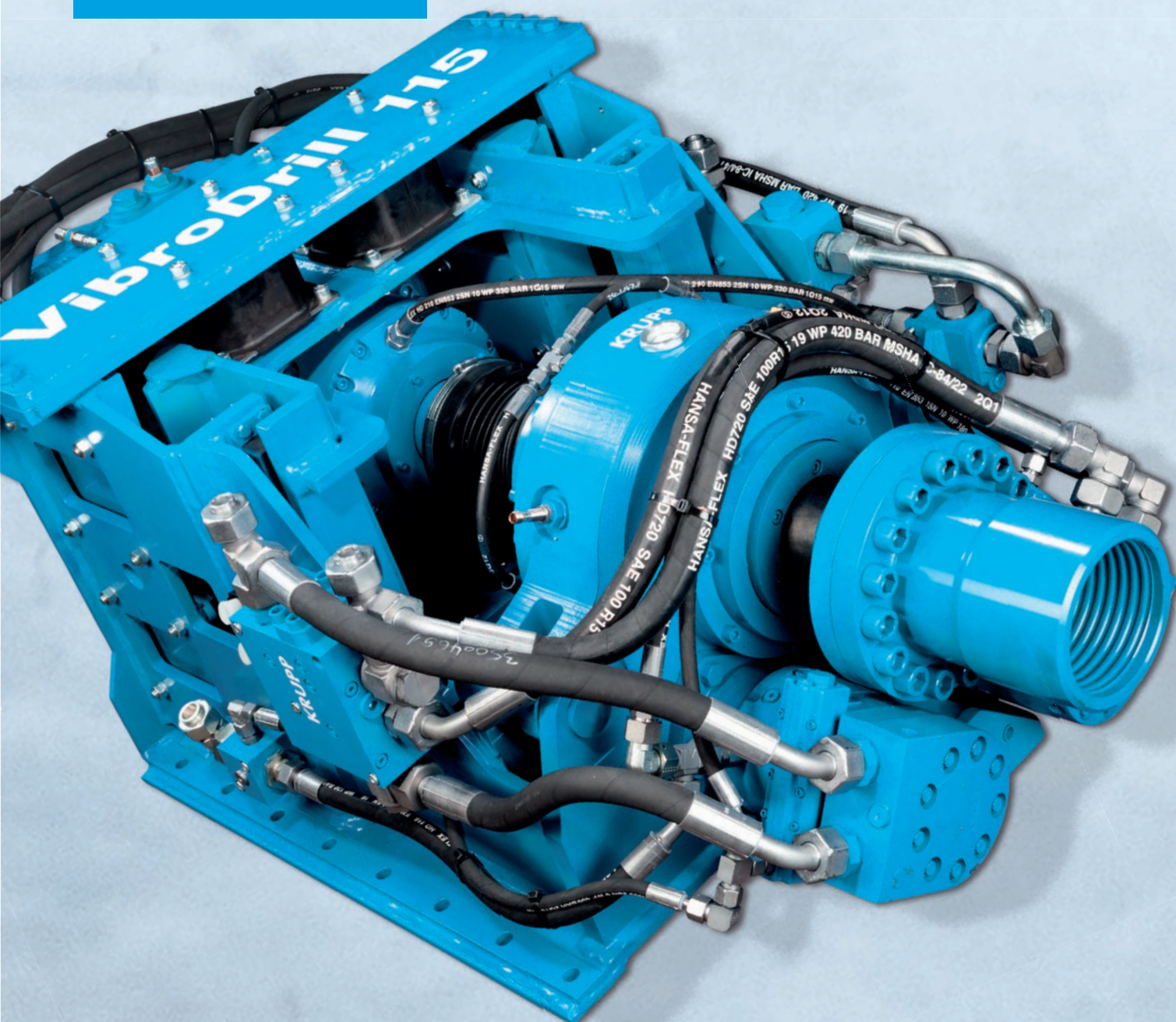


Materials Services  
Infrastructure

# KRUPP VibroDrill VD115.



thyssenkrupp



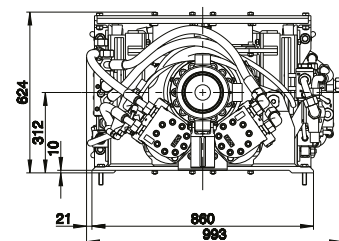
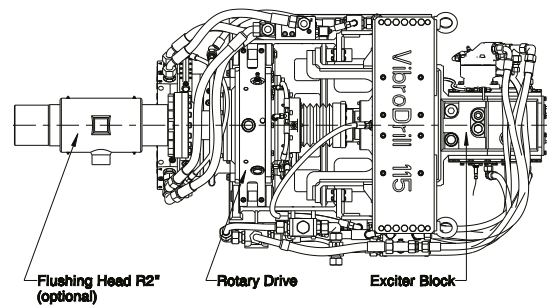
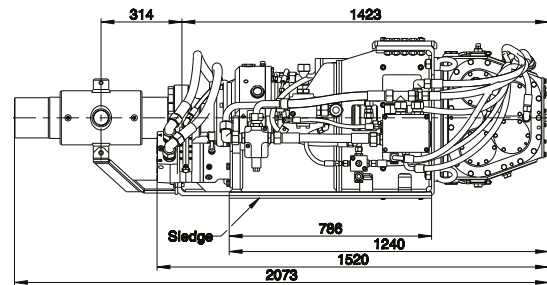


# KRUPP VibroDrill VD115

Best drilling performance in different soil conditions, due to adjustable frequencies up to 115 Hz and adjustable unbalances.

- 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.
- The low rod/casing friction preserves the threads during drilling and ensures precise drilling and consequently guarantees e.g. the verticality of geothermal probes and micropiles.
- Fields of application: Geothermal drilling up to 100 m depth, overburden drilling, lost bit drilling, micropiles and core drilling in sand, gravel, clay and medium-hard rock.
- Compact design of vibro-system and rotary-drive, mounted on one moveable sledge adaptable to all common drill rigs.
- A proven flushing head for water, compressed air and suspension of cement is available as option.
- Options: Flushing head, central lubrication system, integrated RPM sensor, drill rods and drill bits.

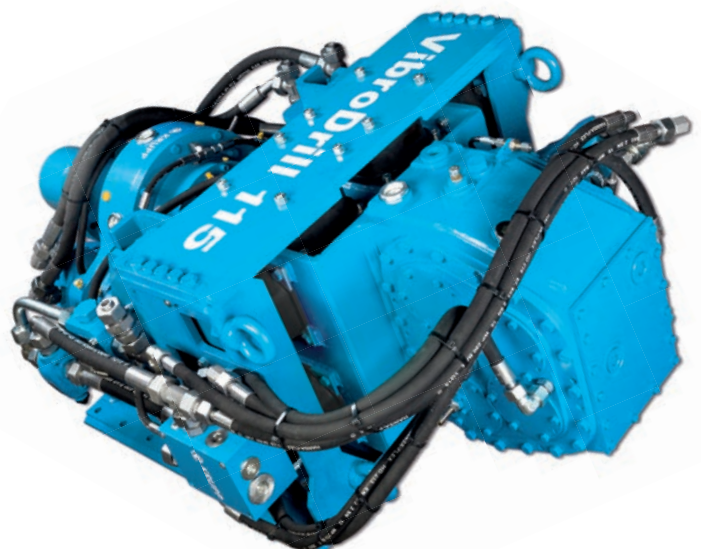
## Main Dimensions



Weight approx. 1125 kg

Push Down Force max. 30 kN

Retraction Force max. 100 kN



## Rotary Drives

### Motor-Version HP480 ccm

Pressure at rotary drive			170 <sub>bar</sub>				200 <sub>bar</sub>				240 <sub>bar</sub>				280 <sub>bar</sub>			
Gear			4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>
Oil flow rate (lpm)	90	Torque (Nm) Speed (rpm)	1,800 108	2,900 72	4,100 54	6,300 36	2,300 108	3,600 72	5,000 54	7,700 36	2,700 107	4,300 71	6,000 53	9,000 36	3,300 106	5,100 71	7,000 53	10,600 35
	150	Torque (Nm) Speed (rpm)	1,400 180	2,500 120	3,900 90	6,000 60	1,900 179	3,200 119	4,800 90	7,400 60	2,300 178	3,900 119	5,700 89	8,700 59	2,800 177	4,700 118	6,700 89	10,300 59
	170	Torque (Nm) Speed (rpm)	1,200 200	2,400 136	3,800 102	5,900 68	1,700 200	3,000 135	4,700 102	7,200 68	2,100 200	3,700 135	5,600 101	8,600 67	2,700 200	4,500 134	6,600 101	10,200 67

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

### Motor-Version HP677 ccm (standard)

Pressure at rotary drive			140 bar				170 bar				200 bar				240 bar			
Gear			4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>
Oil flow rate (lpm)	90	Torque (Nm) Speed (rpm)	2,000 77	3,300 51	4,700 39	7,200 26	2,600 77	4,100 51	5,800 38	8,900 26	3,200 76	5,100 51	7,100 38	10,800 25	3,900 76	6,100 51	8,400 38	12,700 25
	150	Torque (Nm) Speed (rpm)	1,400 128	2,700 86	4,400 64	6,800 43	2,000 128	3,600 85	5,500 64	8,500 43	2,600 127	4,500 85	6,800 64	10,400 42	3,300 126	5,500 84	8,100 63	12,300 42
	170	Torque (Nm) Speed (rpm)	1,200 145	2,500 97	4,200 73	6,600 48	1,700 145	3,300 97	5,300 72	8,300 48	2,400 140	4,300 96	6,600 72	10,200 48	3,000 140	5,300 96	7,900 71	12,100 48

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

Other motor versions are available

## Vibro Unit

Operating pressure	240 - 300 bar
Oil flow rate	100 lpm
Frequency	115 Hz (6900 min <sup>-1</sup> )
Eccentric moment (adjustable)	0,2 - 0,3 kgm
Centrifugal force	max. 160 kN
Hydraulic power	40 - 55 kW

## Performance Data

Drilling performance	up to 1 m per minute
Drilling angle	0° - 90° (horizontal - vertical)
Rod diameter range	ø 76 - 250 mm
Rod weight	max. 3500 kg
Drilling depth	up to 100 m
Soil conditions	sand, gravel, clay, medium-hard rock

Materials Services  
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