

terra
infrastructure

safety: efficient and sustainable



VIBRODRILL
VD 150

VIBRODRILL VD 150

Frequency from 100 Hz to 120 Hz

VD 150 is a VibroDrill especially developed for:

- Micropile drilling up to a casing diameter of 12 inches (ø304,8 mm)
- Overburden drilling up to an outside casing diameter of 10 inches (ø254 mm)
- Threaded hollow bar drilling (self-drilling anchors) up to a bar diameter of 8 inches (ø203,2 mm)
- Geothermal drilling with one-time drill bits up to a casing diameter of 10 inches (ø254 mm)

VD 150 has a standard built-in special rubber damping mechanism to avoid vibrations from being transferred into the drill mast.

VD 150 achieve optimum drilling performance in different types of soil by adjusting the static moment; different static moments are available.

VD 150 offers two high-speed and high-pressure motors (677 cm³).

VD 150 has a total weight of 1,500 kg.

Vibro Unit	85 Hz	Standard 100 Hz	120 Hz
Operating pressure	260 - 340 bar	260 - 340 bar	260 - 340 bar
Oil flow rate	146 l/min	144 l/min	147 l/min
Centrifugal force	280 kN	300 kN	290 kN
Motor type	2 x 14 cm ³	2 x 12 cm ³	2 x 10 cm ³
Casing weight	4.000 kg	2.900 kg	1.650 kg

Performance Data

Drilling performance increased	up to 1 m per minute
Drilling accuracy	more precise (1-2 % deviation)
Drilling angle	0° - 90° (horizontal - vertical)
Casing diameter max.	Ø304.8 mm
Drilling depth	up to 80 m
Soil conditions	sand, gravel, clay, medium-hard rock

OPTIONS

- External flushing head for casings, self-drilling hollow bars and soil sampling
- Built-in RPM sensors with external box for and frequency indication
- Special drill rods, casings and drill bits

Rotary Drives

Motor-Version HP667 ccm																		
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)	3,600	5,700	8,100	12,300	4,300	6,900	9,600	14,600	5,400	8,400	11,600	17,600	6,400	9,900	13,600	20,700
		Speed (rpm)	55	37	28	18	55	37	28	18	55	37	27	18	55	36	27	18
	120	Torque (Nm)	2,700	5,400	7,900	12,000	3,500	6,500	9,400	14,300	4,500	8,000	11,400	17,300	5,500	9,600	13,400	20,400
		Speed (rpm)	74	49	37	25	73	49	37	24	73	49	36	24	73	48	36	24
	170	Torque (Nm)	2,400	4,600	7,400	11,500	3,100	5,800	8,900	13,700	13,700	4,200	7,300	10,900	5,200	8,800	12,900	19,800
		Speed (rpm)	105	70	52	35	104	69	52	35	104	69	51	35	103	69	51	34
1st gear (parallel mode), 2nd gear (parallel + high-speed mode), 3rd gear (serial mode), 4th gear (serial + high-speed mode)																		



VD 150: production of stranded anchors, 30 m long.



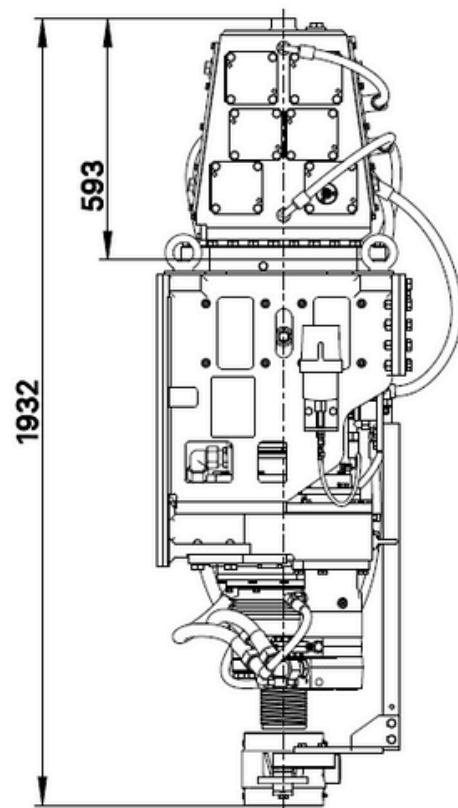
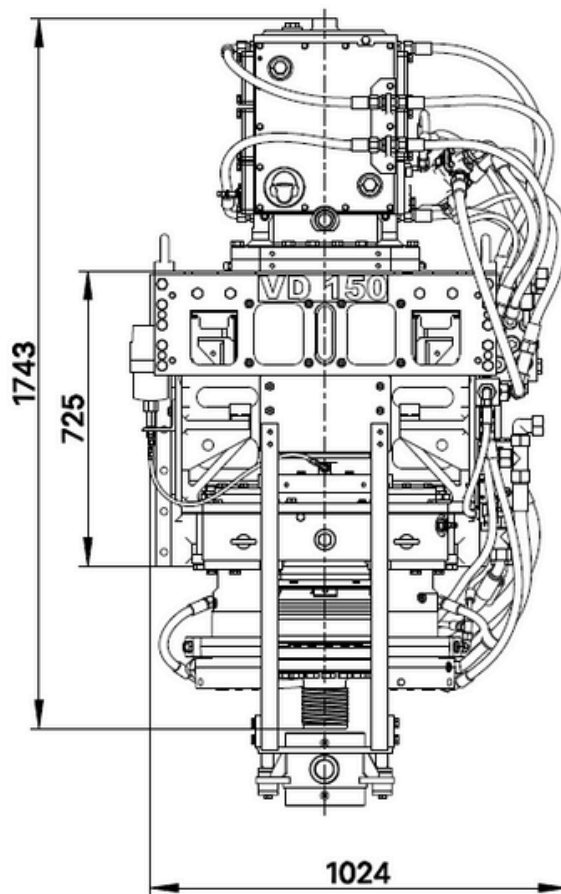
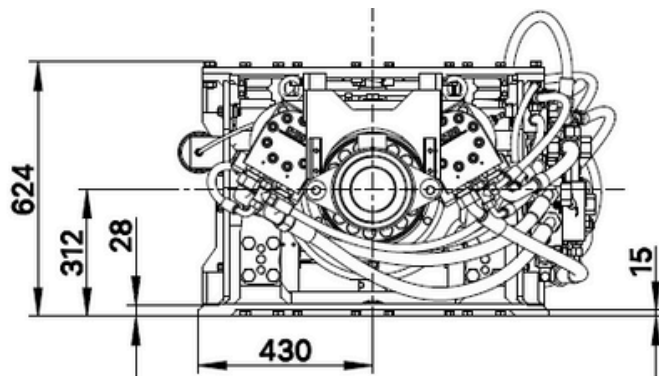
VD150: retraction of hollow bars, 60 m long

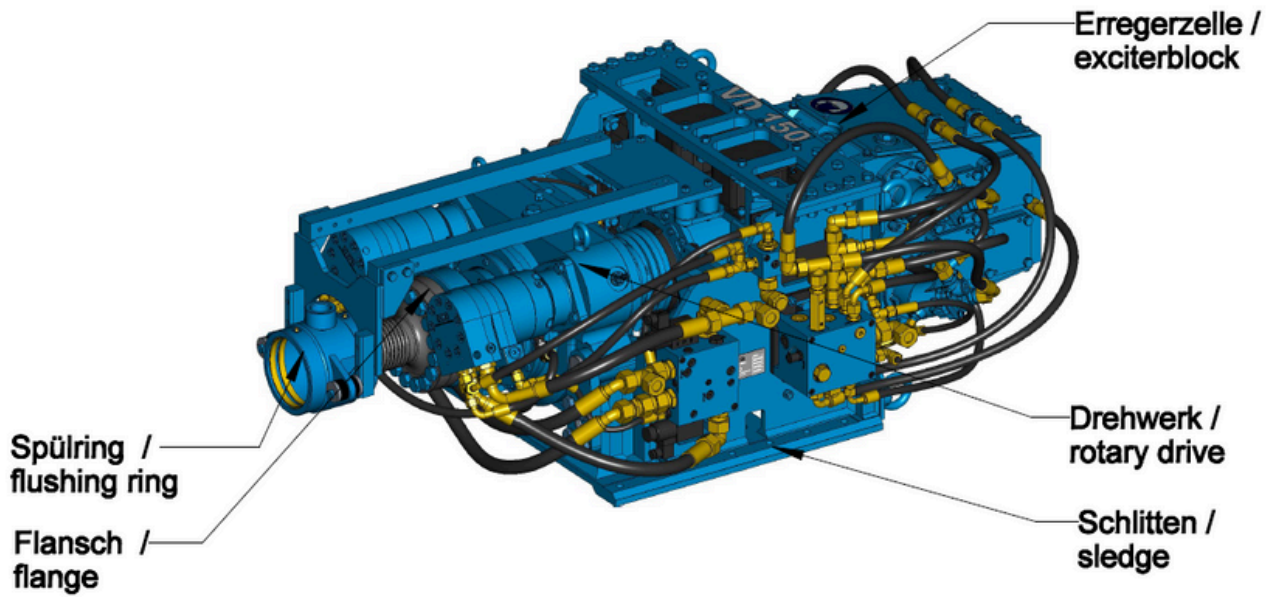


VD150 drilling 177.8 mm casings for strand anchors, 60 m long

Dimensions

Vorschubkraft max. 30 kN
Rückzugskraft max. 100 kN

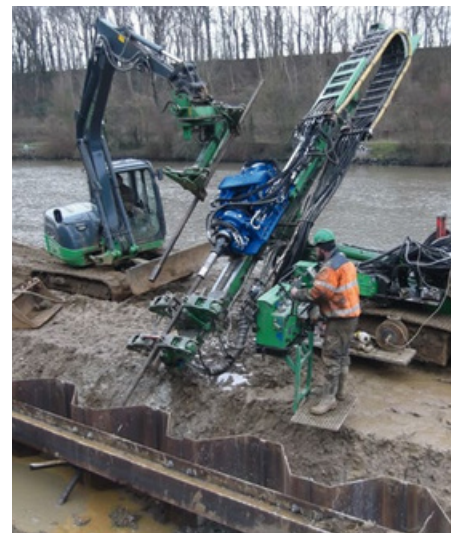




Drilling overhead 178 mm casings, 48 m deep with one time drill bit



Drilling 178mm casings and 60 m long beneath excavator in sand and gravel



Drilling 73 mm selfdrilling hollow bars 65 m deep into sand and gravel

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