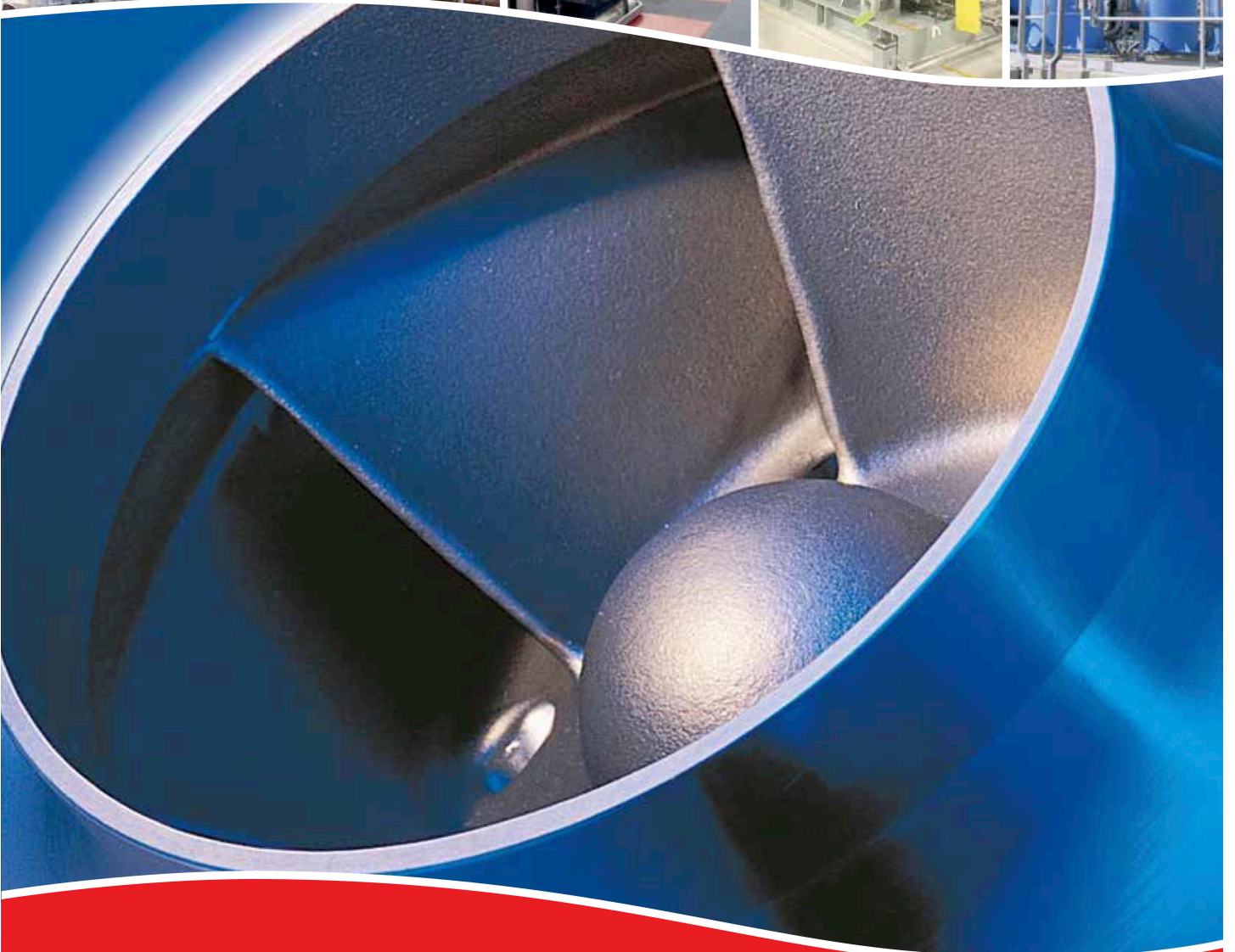




آب نیرو

مرجع تخصصی تجهیزات صنعتی (آب، نفت، گاز)



WWW.ABNIRO.COM

VFT 500 | 630 | 900

The most advanced PE-Butt-Welding-Crawler



Your global partner for pipeline equipment!

vietz®

VFT 500 | 630 | 900

The VFT 500 | 630 | 900 is the most advanced PE Butt-Welding Crawler suitable for all types of HDPE pipeline construction. Due to the unique design and use of components made by well known manufactures, we guarantee the highest possible quality level in design, construction and reliability.



The most advanced PE-Butt-Welding-Crawler

TECHNICAL SPECIFICATIONS :

Engine:

The VFT range has either the 4000 ccm or the 7100 ccm DEUTZ TCD Tier 3 water cooled engine installed. This world renowned diesel engine belongs to the latest generation of turbo charging diesel engines and is equipped with DEUTZ common rail system for high-pressure fuel injection.

The DEUTZ engine range delivers excellent durability and combined with extended service intervals to ensure cost-effective and reliable operation. The standard sound proofing of the engine bay significantly reduces noise emission.

The larger radiator allows constant operation up to 50°C ambient temperature. The two stage diesel filter with a water separator ensures very clean fuel delivery. The two stage air filter element combined with a cyclone dust separator allows operation in extreme environments.

Transmission:

The VIETZ VFT range is equipped with a two speed transmission in both directions. Maximum speed forward and reverse is 3,5 km/h. Both speeds can be electronically shifted from the operators seat whilst travelling under positive and negative load conditions.

Undercarriage:

The heavy-duty design and construction of the undercarriage with oil-lubricated chain segments and oil-lubricated rollers guarantees longevity even in abrasive soil conditions. The long overall track length gives the VFT range superior static and dynamic stability with 30° gradeability. Almost 400 mm ground clearance combined with low ground pressure ensures that the VFT is a machine which is able to operate in the most severe ground conditions. In addition, the crawler is equipped with 500 mm or 600 mm wide triple grouser heavy-duty shoes. If the travel mode is not engaged, a hydraulic cylinder actuated parking brake is automatically activated to secure the parking position of the machine.

Air Compressor:

The air compressor with 3 outlets with quick couplers supplies clean compressed air for cleaning the machine and the cabin.

Cabin:

The operator environment of the spacious cabin design ensures excellent vision and comfort for long operating shifts. Safety is paramount and as a result the VFT range is fitted with a ROPS/FOPS certified cabin. Fitted with a large heavy-duty air conditioning system with an air volume of 1,800 m³/h and a cooling capacity of 9000 or 9500 Watt. This ensures constant welding quality in a secured environment.

The ergonomically designed controls provide comfortable operation. A diesel fuel and hydraulic oil level gauge inform the operator continuously of the liquid levels.



The unique design of the VFT 500

Butt Welding Machine:

The VFT is equipped with a McELROY butt welding machine that is suitable for pipe diameter ranges between 180–900 mm and includes a 4.000 Watt heater plate and a hydraulic facer. Its specific compact design perfectly fits into the cabin and can be handled by the operator very easily. The optional DataLogger records critical joining parameters.

Scope of supply:

Each VFT is equipped with the following accessories / features:

One tool box, including a standard set of hand tools as well as all special tools needed for service, maintenance and repair.

Serviceability:

All service and maintenance points are easy accessible. The filter elements for the hydraulic system, the engine as well as of the compressor can be replaced within 30 minutes.





Adjustable boom with wide cabin openings

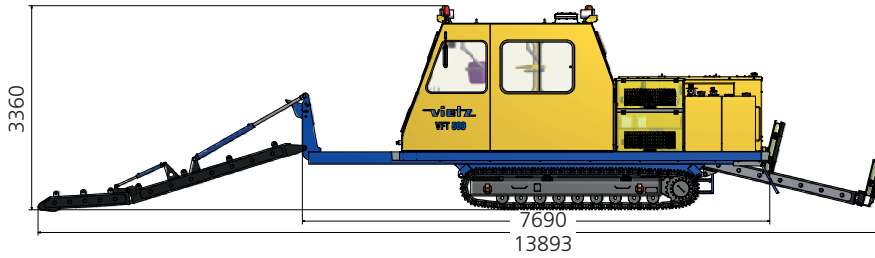


Technical specifications

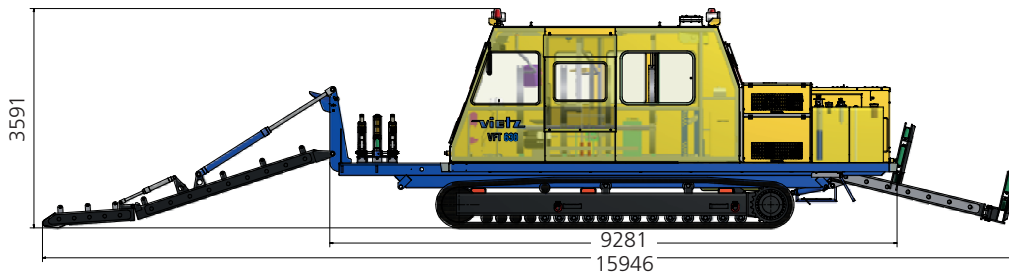
Type	VFT 500	VFT 630	VFT 900
General Data:			
Operation weight:	approx. 13100 KG (without fluids)	approx. 24500 KG (without fluids)	approx. 26700 KG (without fluids)
Max. travel speed:	3,5 km/h	3,5 km/h	3,5 km/h
Operation temperature:	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Length:	13893 mm (547 inch)	15946 mm (628 inch)	16684 mm (657 inch)
Width:	3608 mm (142 inch)	3838 mm (151 inch)	4233 mm (167 inch)
Height:	3360 mm (132 inch)	3591 mm (141 inch)	3737 mm (147 inch)
Engine			
Make:	Deutz TCD 2012 L04 2V	Deutz TCD 2013 L06 2V	Deutz TCD 2013 L06 2V
Type:	4 cylinders inline / 4000 ccm	6 cylinders inline / 7100 ccm	6 cylinders inline / 7100 ccm
Fuel:	Diesel	Diesel	Diesel
Diesel tank volume:	300 Liter	430 Liter	430 Liter
Output power:	100 kW @ 2300 rpm	190 kW @ 2300 rpm	190 kW @ 2300 rpm
Emission standard:	EPA 3 / COM 3 / TIER 3	EPA 3 / COM 3 / TIER 3	EPA 3 / COM 3 / TIER 3
Butt Welding Machine			
Manufacturer:	McElroy*	McElroy*	McElroy*
Machine:	McElroy 500	McElroy 630	McElroy 900
Min. pipe diameter:	180 mm	225 mm	340 mm
Max. pipe diameter:	500 mm	630 mm	900 mm
Incl. inlays:	180, 200, 225, 250, 280, 315 340, 355, 400, 450 mm	225, 250, 280, 315, 340, 355 400, 450, 500, 560 mm	340, 355, 400, 450, 500, 560, 630, 710, 800 mm
Heater power:	4000 Watt	10950 Watt	20461 Watt
Facer power:	hydraulics	hydraulics	hydraulics
Chassis:	Welded steel construction	Welded steel construction	Welded steel construction
Type of hydr. cylinders	Medium force	Medium force	Medium force
Air pressure supply (optionally):	Aircompressor mounted on engine	Aircompressor EVO3NK-V001	Aircompressor EVO3NK-V001
Undercarriage			
Drive system:	Hydrostatic	Hydrostatic	Hydrostatic
Travel speed:	3,5 km/H / 2 stage gear /autorange	3,5 km/H / 2 stage gear /autorange	3,5 km/H / 2 stage gear /autorange
Counter rotation possible:	yes	yes	yes
Undercarriage size:	B 2	D 4	D 4
Max. slope:	30°	30°	30°
No. of track rollers:	2 x 10	2 x 15	2 x 15
No. of carrier rollers:	2 x 2	2 x 4	2 x 4
Track shoe width:	500 mm	600 mm	600 mm
Hydraulic system			
Manufacturer:	Sauer Danfoss	Sauer Danfoss	Sauer Danfoss
General design:	Closed circuit load sensing	Closed circuit load sensing	Closed circuit load sensing
Hydraulic tank volume:	200 Liter	450 Liter	450 Liter
Hydraulic pumps (max. flow):	2x 138 l/min Axial piston pump 1x 299 l/min Axial piston pump	2x 156 l/min Axial piston pump 1x 173 l/min Axial piston pump 1x 104 l/min Axial piston pump	2x 156 l/min Axial piston pump 1x 173 l/min Axial piston pump 1x 104 l/min Axial piston pump
Hydraulic pressure:	max. 300 bar	max. 300 bar	max. 300 bar
Cabin			
ROPS certification:	Yes	Yes	Yes
Motion control:	Servo control hand lever steering	Servo control hand lever steering	Servo control hand lever steering
Operator seat:	Swivel type, adjustable in all directions	Swivel type, adjustable in all directions	Swivel type, adjustable in all directions
hydr. cylinders for loading system:	Heavy duty version	Heavy duty version	Heavy duty version
Pipe loading:	Adjustable boom with cabin openings	Adjustable boom with cabin openings	Adjustable boom with cabin openings
Gantry for removal welding unit from cabin:	Yes	Yes	Yes
Air conditioning			
Air volume:	1.800 m³/h	1.800 m³/h	1.800 m³/h
Cooling capacity:	9.000 W	9.500 W	9.500 W
Special features			
	Rear view camera Tinted windows (90% UV-reduction) 2 additional power outlets Refreshment cooling box FM radio receiver with CD player	Rear view camera Tinted windows (90% UV-reduction) 6 additional power outlets Refreshment cooling box Rotating pipes in the front FM radio receiver with CD player	Rear view camera Tinted windows (90% UV-reduction) 6 additional power outlets Refreshment cooling box Rotating pipes in the front FM radio receiver with CD player

Technical drawing

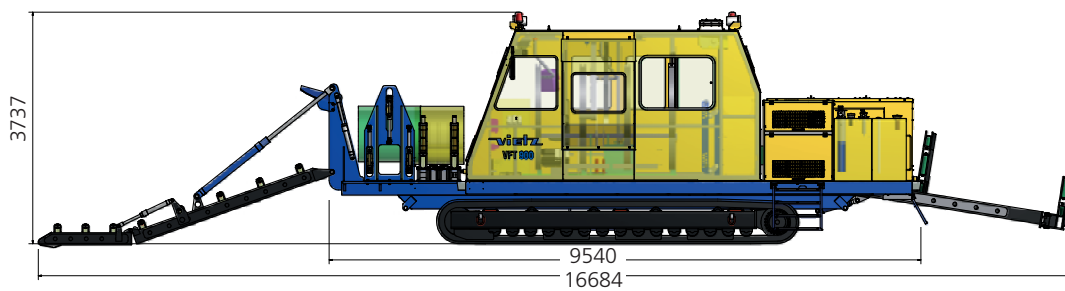
VFT 500



VFT 630



VFT 900



A selection of further products made by VIETZ in Germany



VacuViert

Our vacuum lifting technology is fully developed and represented on many construction sites all over the world. This modern pipe transporting unit is also operated by many pipe factories, saving time and staff. However – even more important – the risk of accidents by transporting pipes can be diminished to a minimum. The independent unit VACUVIERTZ can be mounted on a crane, a pipe layer or a hydraulic excavator. Due to the changeable suction pads one VACUVIERTZ unit handles the total range of all pipe diameters.



Line-Up Clamps

Pneumatic internal centring devices can be used in any terrain. The compressed-air drive ensures that the centring device moves in the pipe. Additionally fitted brakes prevent the centring device from moving through the pipe uncontrolled as a result of its own weight. Another design feature of the pneumatic internal centring device is the copper backing for the MAG orbital welding process.



Pipe Bending Machines

Following the landscape, pipes must be laid in a straight or bent pattern. In the wide range of products from VIETZ, you will find a suitable pipe bending machine for every need: from 6" to 76" .

We guarantee that pipes can be bent to absolute roundness using our bending machines.



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