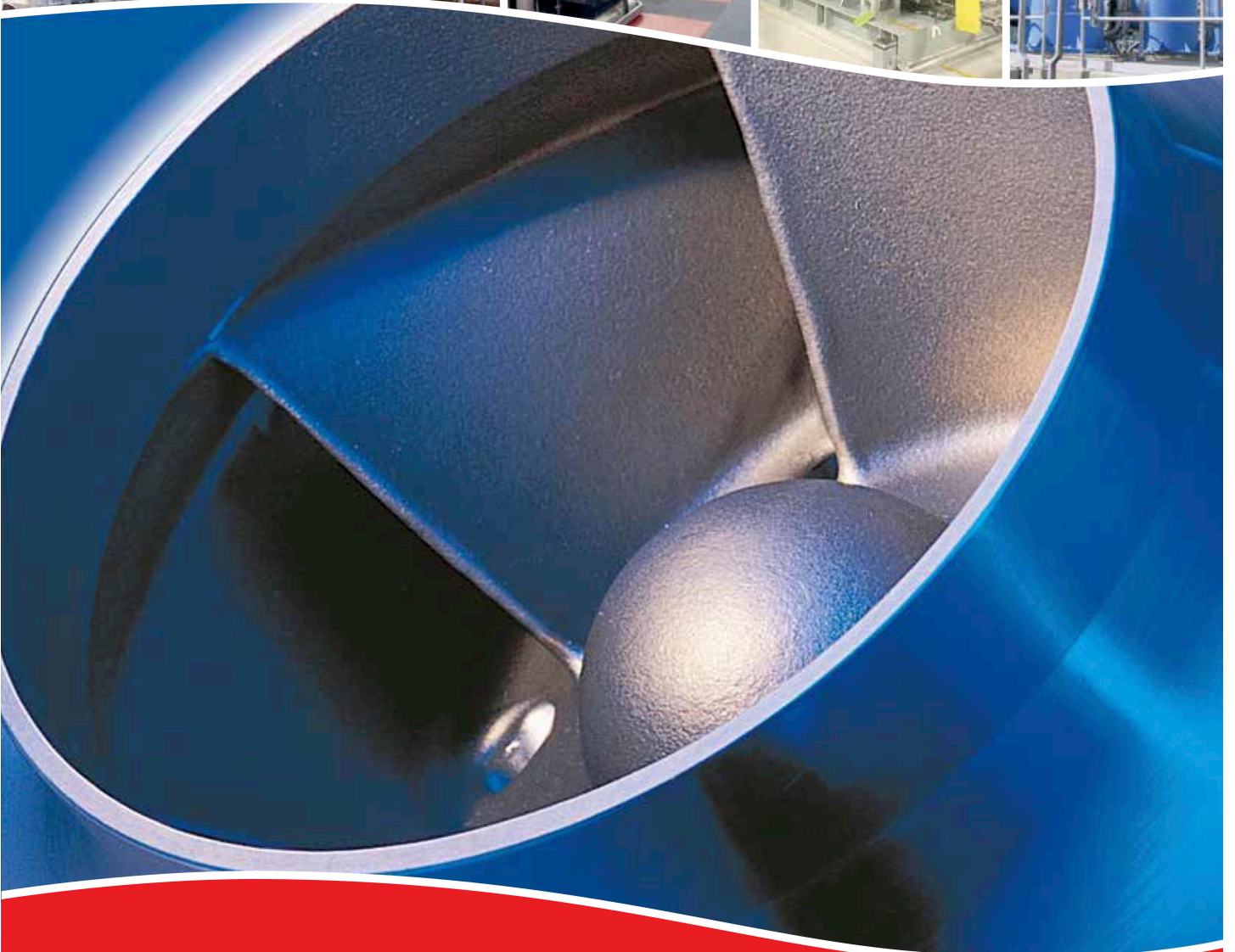




# آب نیرو

مرجع تخصصی تجهیزات صنعتی (آب، نفت، گاز)



[WWW.ABNIRO.COM](http://WWW.ABNIRO.COM)

# ARCOTRAC

900 | 1100 | 1800 | 1800 HD



Your global partner for pipeline equipment!

**vietz**®



# ARCOTRAC 900 | 1100 | 1800 | 1800 HD

Company Vietz has developed a totally new ARCOTRAC Series which has been especially designed according to the requirements of large diameter pipeline constructions.

The advantage of the ARCOTRAC Series is the optimized utilization of a machinery concept with its unique focus on today's and future design features. High quality components guarantee low costs of ownership.



## Advanced Technology – four newly-arranged models

### TECHNICAL SPECIFICATIONS :

① The cabin is placed in a position which gives the operator an ideal overview of the operating environment. On all ARCOTRAC models the crane is mounted in front of the machine which can be controlled from inside the cabin. This provides excellent on site safety as well as great operators comfort.

② The sufficiently dimensioned Deutz engines which are electronically governed, grant continuous rpm of either 1.500 rpm or 1.800 rpm developing 50 Hz or 60 Hz AC power at the directly connected synchronous generator.

The generator rpm and therefore the delivered frequency remains constant under changing load conditions. Varying numbers of welding power sources being switched "on" or "off" do not influence the frequency and the voltage delivered during the welding procedure. This is a precondition to eliminate welding failures and therefore reaching excellent welding results.

All engines are Stage III A flex Tier 3 certified and meet the latest stage of US and European emission regulations.

③ The over dimensioned engine radiator enables the machine to work under ambient temperatures of up to +52°C. An arctic package which is available as an option keeps the machine in operation up to temperatures as low as -40°C.

④ The installed crane with up to 7 ton lifting capacity enables the ARCOTRAC to carry all existing welding shelters or even small to medium diameter pipes.



VIETZ ARCOTRAC 900





⑤ The hydrostatic driven undercarriage enables the crawler turning on the spot through counter rotation and guarantees sufficient ground clearance as well as full operation up to 30° slope conditions. The comparatively low operation weight in combination with wide track shoes gives the ARCOTRAC a low specific ground pressure and keeps it in operation in swampy environment where other equipment possibly sinks in.

⑥ The installed hydraulic components from Sauer Danfoss or Bosch-Rexroth guarantee longevity and worldwide service.

⑦ The heated operator's cabin is roll over protected (ROPS). Air-condition as well as a stand-by heater for arctic environment is optionally available.

⑧ A two-stage piston compressor delivering 975 l / min at 16 bar can be mounted on the ARCOTRAC upon customer's request. A 300 l pressure tank is installed underneath the frame, refilling the internal pneumatic clamps quickly in the front end welding process.

⑨ A gas bottle rack or a hydraulic liftable gas bottle holder for safe and easy shielding gas transport is part of the delivery.

⑩ A sufficient number of 230 V 1-phase 440 V 3-phase sockets provide auxiliary power supply for various tools which are required on site.

Large rain-proofed lockable storage compartments safely contain the welding consumables. The welding power sources are being securely protected against rain underneath a metal housing cover.

⑪ All relevant filter elements are positioned within easy access for quick change during regular service works.



## Pipeheater

Accelerated preheating cycles

Depending on the pipe it is necessary to preheat the pipe ends within a very short period of time, thus ensuring that the welding seam quality fulfils high-level standards. The new technology being installed on our ARCOTRAC welding tractor has been designed to reach 300°C within the shortest period of time (approx. 60 seconds).

Our units are equipped in such a way, that the thermal process of each welding seam can be recorded. This feature points out temperature over time for each single seam.



## Welding Inverters

for applications in all Climatic Zones

Our welding inverters have proven their efficiency on job site and are operated in several climatic zones of the earth. The constant welding power can be adjusted infinitely variable by means of a remote control.

The same remote control allows the change of polarity, thus ensuring optimal comfort for the welder. These welding inverters cope with the highest requirements of pipeline construction for manual electrode welding, for flux core arc welding, for MAG orbital welding as well as for MAG orbital tandem welding with alternating pulse.





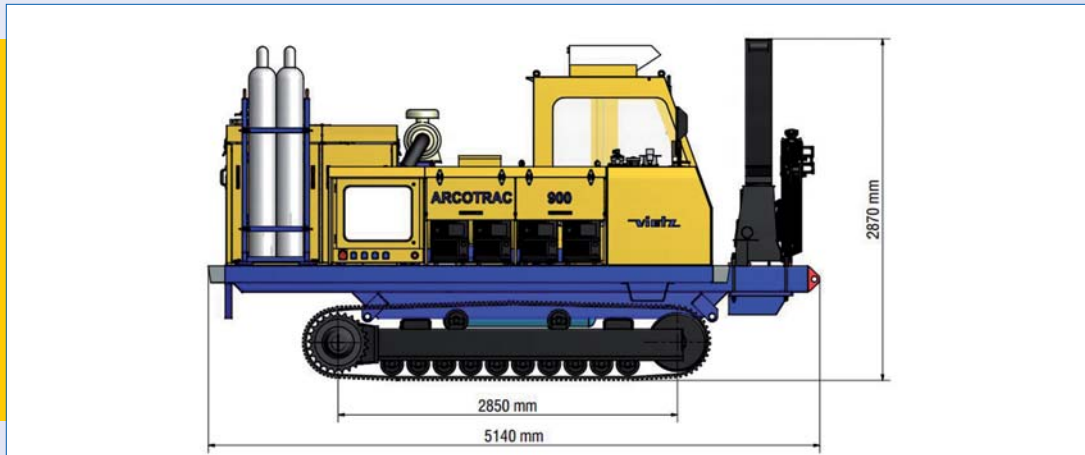
# Technical specifications

Type	ARCOTRAC 900	ARCOTRAC 1100	ARCOTRAC 1800	ARCOTRAC 1800 HD
<b>General Data:</b>				
Number of welding stations:	2	2-4	4-6	4-6
<b>Engine</b>				
Make:	Deutz TCD 2013 L04 2V	Deutz TCD 2013 L04 2V	Deutz TCD 2013 L06 2V	Deutz TCD 2013 L06 2V
Number of cylinders:	4 inline	4 inline	6 inline	6 inline
Output power/rpm:	115 kW @1500	115 kW @1500	168 kW @1500	168 kW @1500
Emission standard:	stage III A flex Tier 3	stage III A flex Tier 3	stage III A flex Tier 3	stage III A flex Tier 3
Electrical system:	24 V DC	24 V DC	24 V DC	24 V DC
Onboard control system:	VIETZ VCU 1000	VIETZ VCU 1000	VIETZ VCU 1000	VIETZ VCU 1000
Wireless data exchange for error analysis *	VIETZ VCU 2000 GSM	VIETZ VCU 2000 GSM	VIETZ VCU 2000 GSM	VIETZ VCU 2000 GSM
<b>Generator</b>				
Output power/rpm:	80 kVA	132 kVA	210 kVA	210 kVA
Frequency:	50 Hz @ 1500 rpm	50 Hz @ 1500 rpm	50 Hz @ 1500 rpm	50 Hz @ 1500 rpm
Frequency*:	60 Hz @ 1800 rpm	60 Hz @ 1800 rpm	60 Hz @ 1800 rpm	60 Hz @ 1800 rpm
<b>Crane</b>				
Brand**:	HIAB XS 066 / FASSI F50A	HIAB XS 077 / FASSI F80A	HIAB XS 166 / FASSI F175	HIAB XS 211 / FASSI F175
Max. reach with (hydr. telescopes)	7,20 m	7,60 m / 7,25 m	8,2 m / 8,15 m	8,3 m / 10,4 m 10,2 m / 12,3 m
Max. lifting capacity	2.040 kg	2.600 kg / 3.295 kg	4.900 kg / 3.800 kg	7.400 kg / 7.680 kg
Lifting capacity @ 6m reach	800 kg	1.000 kg / 1.250 kg	2.300 kg / 2.410 kg	3.330 kg / 2.755 kg
Crane operation from inside the cap	Yes	Yes	Yes	Yes
<b>Air compressor*</b>				
Brand:	two stage piston compressor Atlas Copco LT 15-20 E / Quincy 350			
Air flow rate:	930 l/min / 975 l/min			
Max. pressure in bar	16 bar			
<b>Shielding gas*</b>				
Bottle rack	fixed rack	fixed rack	hydraulic liftable platform	hydraulic liftable platform
Max. number of gas cylinders	4	4	8	8
<b>Basic specifications</b>				
Track width in mm	500	500	600 / 700	600 / 700
Dimensions in mm (L x W x H)	5140 x 2600 x 2870	5.740 x 2.850 x 3.200	7.000 x 3.000 x 3.650	7.000 x 3.200 x 3.650
Operating weight	9.500 kg	11.500 kg	18.500 kg	21.500 kg
Max. speed km/h	5,5	5,5	5,6	5,6
Heatable cab with roll-over protection system	Yes	Yes	Yes	Yes
Air conditioning *	electric, mounted onto cab roof	electric, mounted onto cab roof	electric, mounted onto cab roof	electric, mounted onto cab roof
Operation temperature	-20°C...+55°C	-20°C...+55°C	-20°C...+55°C	-20°C...+55°C
Operation temperature with Arctic kit	-38°C...+20°C	-38°C...+20°C	-38°C...+20°C	-38°C...+20°C

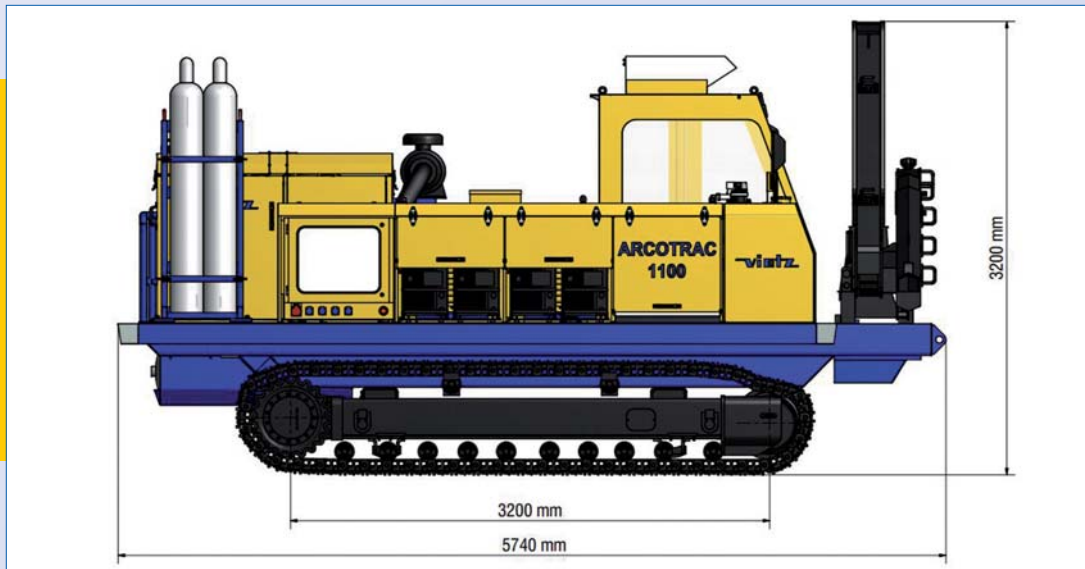
\* optionally available | \*\* other types on request | Technical Changes Reserved



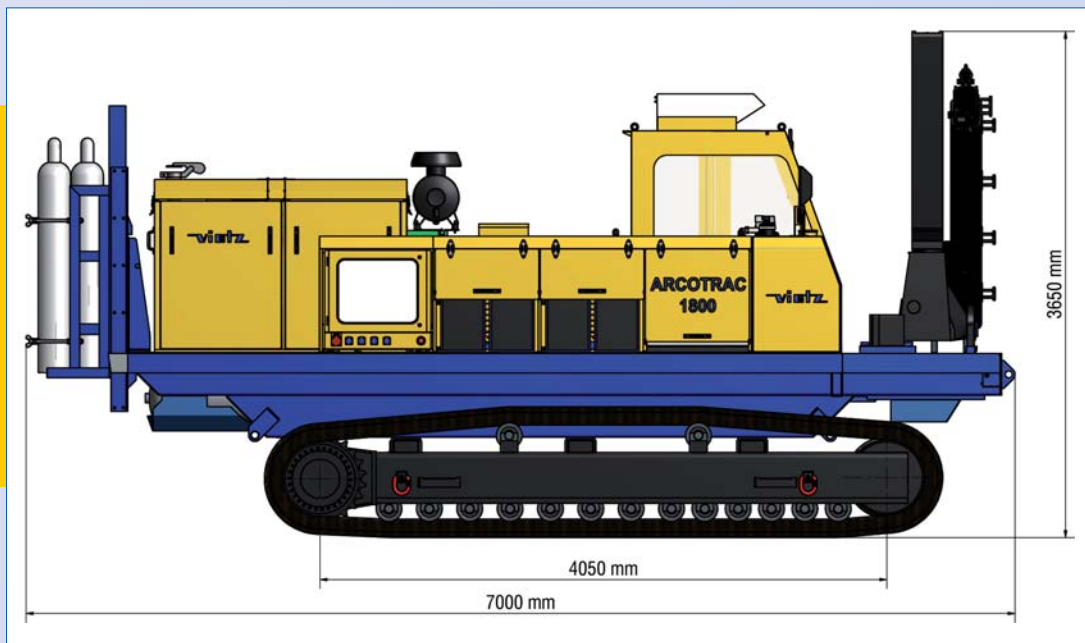
# Technical drawing



**ARCOTRAC  
900**



**ARCOTRAC  
1100**



**ARCOTRAC  
1800**



# 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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