

WELDER / GENERATOR

Welding equipment – Technology for pipeline construction



your global partner for pipeline equipment

vietz®

VIETZ WELDER GENERATOR

The company Vietz is one of Germany's leading manufacturer in the field of welding sets and power units for pipeline construction.



Our range of products covers the diversity of application areas in pipeline construction. Our expertise lies in flexibility on a high technical level, for standard sets as well as for equipment following special demands of our customers. Pipeline construction companies as well as municipal services or civil engineering firms all over the world trust the reliable Vietz machines.

Our welding sets are delivered with different configurations and a wide variety of possible colours meeting the demands of our customers.

Innovation is our focus and corresponds to our philosophy. The products fulfill Germany's strict regulations regarding staff health and safety.

Higher efficiency to support our customers.

You can select your suitable welding set in our standard program or in our wide range of configurations. We will gladly assist and give advice to enable you to choose the welding set matching your needs.

Our products will be cost effective as well as environmental sound and will meet local safety regulations.

Do you have special requirements? We will be more than happy to listen your needs and customize a welding set meeting your demands.



Digital control engineering of Vietz welding sets.

Vietz Company has developed the VCU-1000 as a modern engine control unit. Based on intelligent digital control technology, the VCU-1000 monitors, regulates and manages all main machine parameters, thus provides highest quality combined with comfort and reliability. The intelligent speed control saves fuel and reduces noise level, too.

Vietz telematics services

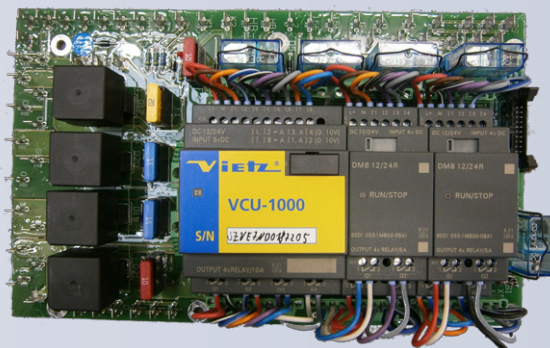
Vietz welding sets have an extremely long service life and are capital goods. Their performance have been proven and tested on national as well as international construction sites.

The availability of machines of building companies becomes more and more complex. The construction sites are mostly located outside and far away from the branch office. In this situation it is good to be able to know all relevant parameters of the equipment, including their current location, even from afar.

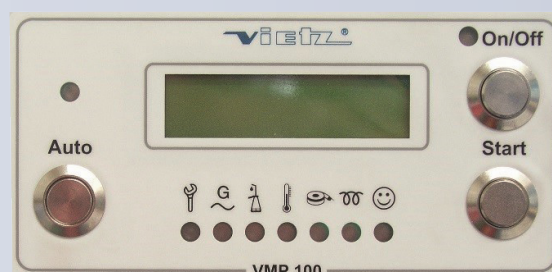
The GPS detection method is a proven method for the heavy-duty machines and can be cost-effectively build in even the smallest ones.

Vietz Telematics services use the GPS satellite positioning system connected with the mobile phone grid to transmit the status as well as position of the equipment on a server. The parameter transmitted in this way include GPS positioning, driving direction, speed, on/off function of the welding set as well as operating hours.

In this way the maintenance can easily be planned even if the welding set is on the construction site. Automatic theft-alarm can be defined (in case of the welding set leaves a determined operating range), leading to a warning transmitted via SMS.



VCU-1000 Motor control unit



Operating panel

Vietz welding set with GPS box



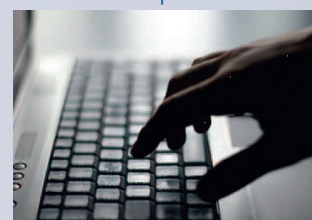
GPS-satellite



Mobile communications network



Customer's-computer/ smartphone



Internet server



DGV 280K

Technical Data (article n°: 31092)

DGV 280K

Engine

Manufacturer/ type	Kohler KDI 1903M
Fuel	Diesel
Cylinders	3
Emission standard	EURO III A
Cooling	Water
Output power	19,5 kW
Speed	1500 rpm
Consumption	223 g/kWh

Additional specifications

Tank capacity	33 Liter
Sound power level	95 LWA

Generator

Manufacturer/Type	Leroy Somer / LSA 40L 4p
Output power	20 kVA
Voltage / Frequency	230 V / 400 V / 50 Hz

Welding equipment

Inverter MMA	Cellstar 350 puls PWS
Optional MAG / WIG	on request
Adjustment range	10 – 350 A
Power-on time 60 %	310 A
Power-on time 100 %	260 A

Trailer

Manufacturer / type	Al-Ko / 75 VU / 101 VB
Drawbar	fixed / height adjustable with support wheel with ball head coupling
Axle	with / without brake
Lighting	according to German law

Dimension / weight

Total weight	695 kg
L x B x H (trailer with fixed drowbar)	2610 x 1190 x 1315 mm
L x B x H (stationary)	1550 x 750 x 1040 mm

Accessories

Corrugated sheet metal coverage	Article n°.: 33100M
Storage case	
- on the right side	Article n°.: 31102A
- on the left side	Article n°.: 31102B
Supplemental accessories on request available	

Compact, high-performance, flexible and innovative

Based on our model DGV 260 which is very successful for several years now, we have developed the DGV 280K. It is smaller than its predecessor but more powerful.

The much more compact welding set is equipped with the new advanced **Inverter „Cellstar 350 pulsed-arc PWS“**. Beside proven properties as 100 % safety of downward welding and polarity switch, this inverter provides another useful function: the pulsed-arc welding. It is particularly suitable for root-run welding and allows perfect welding even of stiff electrodes. Furthermore, it minimizes warping by reducing the heat input.

A 20 kVA synchronous generator supplies electricity and is powered by the new Kohler manufactured engine type KDI1903M. Its output is sufficient for further consumers beside the welding inverter. Due to its low weight (less than 700 kg) the staff members only need driver's license B. for towing.

A stationary version with approx. 600 kg (e.g. for mounting in commercially obtainable transporter) is also available in the range of products. This equipment has been produced to meet different challenges in the sector of pipeline construction.

Standard version includes a galvanized steel construction, painting in RAL colours according to customer's request and insulation monitoring following GW 308.



Arcobil 3

Technical Data (Article n°.: 31151)

Arcobil 3

Motor

Manufacturer/type	Lombardini LDW 2204 Turbo
Fuel	Diesel
Cylinders	4
Emission standard	EURO II Flex
Cooling	Water
Output power	33 kW
Speed	1900 rpm
Consumption	250 g / kWh

Additional specifications

Tank capacity	50 Liter
Sound power level	96 LWA

Generator

Manufacturer type	Soga FB2 MB
Output power	19 kVA
Voltage / frequency	230 / 400 V / 50 Hz

Welding equipment

Inverter MMA	Cellstar 350 puls PWS
Optional: MAG / WIG	on request
Adjustment range	10 – 350 A
Power-on time 60 %	310 A
Power-on time 100 %	260 A

Compressor

Manufacturer / type	Rotorcomp / NK 100
Volume flow by operating pressure	3,5 m³/min
Operating pressure	8 bar

Trailer

Manufacturer /type	Al-Ko / 161S/ 161 VB-2
Drawbar	fixed / height adjustable with support wheel with ball head coupling
Axle	with brake 1300 kg
Lighting	according to German law

Dimensions / weight

Total weight (towable 161 VB)	1200 kg
L x B x H (trailer with towable)	3700 x 1600 x 1370 mm
L x B x H (trailer with fixed drawbar)	1700 x 1140 x 950 mm

Accessories

Corrugated steel metal coverage	Article n°.: 33100H
Storage case:	
- on the right side	Article n°.: 92012
- on the left side	Article n°.: 92013
Hose recoiler+ tools lubricator	Article n°.: 38020A
Supplemental accessories on request available	

Welding power, compressed air and auxiliary power- all compact in one welding set.

Our Arcobil 3 has been produced in order to meet the needs of urban utility companies. It combines high functionality with small dimensions and low weight. Through the resourcing of welding power, compressed air and auxiliary power in only one welding set, we are able to offer a machine for construction sites that is highly flexible as well as cost effective.

A large selection of accessories and options allows an adapted fitting to individual requirements

The high-performance, water-cooled 4 cylinder industrial Lombardini diesel engine allows use of compressed air or electricity in continuous operation.

The integrated inverter Cellstar 350 puls PWS combines capacity with low weight at 100 % safe vertical-down welding. Its special characteristic is based on modern inverter technology and ensures perfect results when welding with all kind of electrodes, including basic and cellulose-coated electrodes.

The oil-injection screw compressor works according to the displacement principle and has a capacity of 3,5 m³/min at 8,0 bar (with reduced capacity up to 14 bar). It could be switched on and off over a magnetic clutch. In the front of the welding set couplings are installed to allow the simultaneous connection of two consumers.

The VIETZ brushless synchronous generator with 19kVa is a fully-fledged power generator that allows supply of varied construction site equipment even under unbalanced load conditions. The electronic control of the synchronous generator ensures voltage and frequency stability allowing to conduct even challenging consumers. This set could be delivered as a towable or stationary version and has a proven success in application in German companies in the field of pipeline construction.

Standard version includes a galvanized steel construction, painting in RAL colours according to customer's request, no-load mode in order to save fuel and insulation monitoring following GW 308.



Arcobil 3



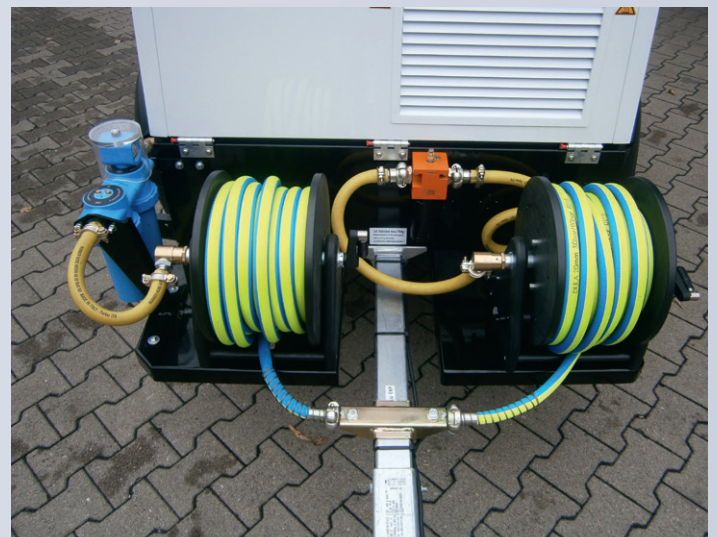
Welding inverter and subjacent associated insulating transformer



Hose recoiler with tools lubricator



LED – lighting on the construction site



with duplicate hose recoiler

GDV 350K

Technical Data (Article n°.: 31155) GDV 350K	
Engine	
Manufacturer / Type	Kohler KDI 2504M
Fuel	Diesel
Cylinders	4
Emission standard	EURO III A
Cooling	Water
Output power	35 kW
Speed	2200 rpm
Consumption	260 g/kWh
Additional specifications	
Tank capacity	42 Liter
Sound power level	97 LWA
Auxiliary generator	
Manufacturer / Type	Soga FB2 SB
Output power	12 kVA
Voltage / Frequency	230 V / 400 V / 50 Hz
Welding equipment	
Brush-type welding generator	GS 160M
Adjustment range	40 - 350 A
Power-on time 60 %	350 A
Power-on time 100 %	250 A
Trailer	
Manufacturer / Type	Al-Ko / 161S/ 161 VB-2
Drawbar	fixed / height adjustable with support wheel
Axle	with ball head coupling
Lighting	with brake 1300 kg according to German law
Dimensions / weight	
Total weight (mobile 161 S)	1100 kg
L x B x H (mobile 161 S)	3400 x 1400 x 1350 mm
L x B x H (stationary)	1900 x 920 x 1200 mm
Accessories	
Corrugated steel metal coverage	Article n°.: 33100L
Storage case:	
- on the right side	Article n°.: 92012
- on the left side	Article n°.: 92013
Supplemental accessories on request available	

Robust, reliable and simple. The modern classic.

We developed the GDV 350K based on our reliable model series GDV 230 and GDV 350. This range of products is very robust and has been designed to meet the high demands in pipeline construction.

The Kohler water-cooled engine has been chosen for its reliability and durability.

The brush generator has been developed especially for the field of pipeline construction, is manufactured in Germany and provides up to 350 A of rectified welding current. In this way, the equipment provides excellent results even with cellulose and basic-coated electrodes even for vertical-down welding.

The auxiliary generator with 12kVA (optionally 19 kVA) provides enough electrical energy for your additional electrical equipment.

As this design is well defined, clearly arranged and very robust, it has become perennial favorite in pipeline construction.

Standard version includes a galvanized steel construction, painting in RAL colours according to customer's request, no load mode in order to save fuel and insulation monitoring following GW308

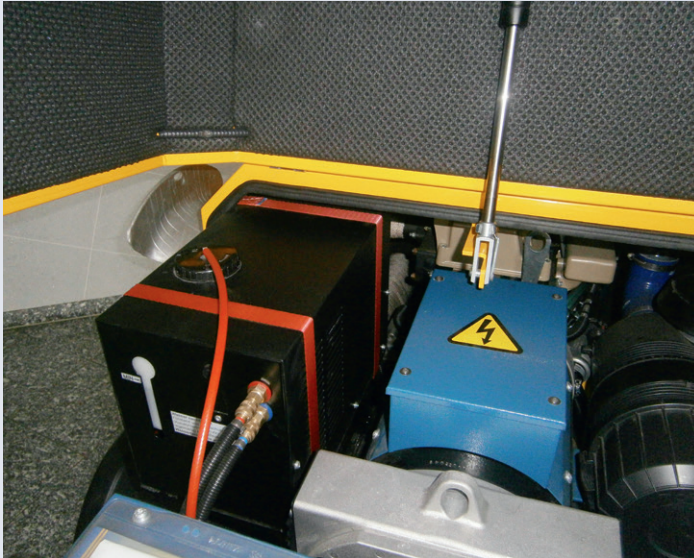


TIG-Regulation

Professional TIG-welding is increasingly used in pipeline construction and plant engineering. Therefore, we have augmented our TIG-welding capacities with new design and technology.

The TIG extension module is a fully-fledged and capable to provide a welding current up to 350 A. It allows to weld either with TIG or MMA Process. Water-cooling is optional.

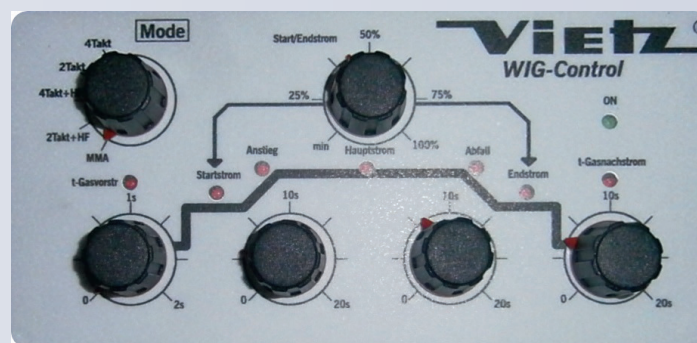
This extension module has been produced also with a focus on easily retrofitting older generations of GDV320/350 models



Integrated water cooling system

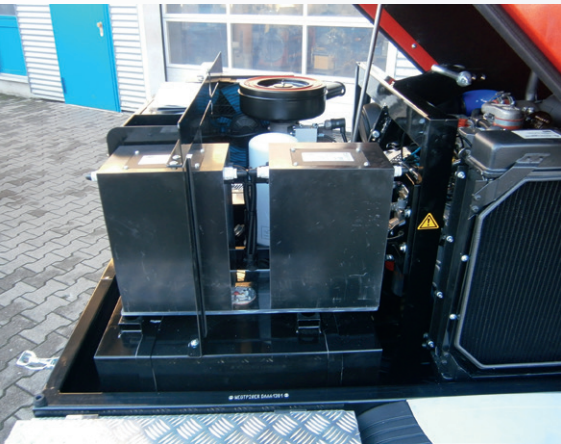


Switchboard in TIG-model



VIETZ TIG-control module

Special machines / optional equipment



Arcobil 3 with insulating transformer



DGV 260 with elevated cable holder



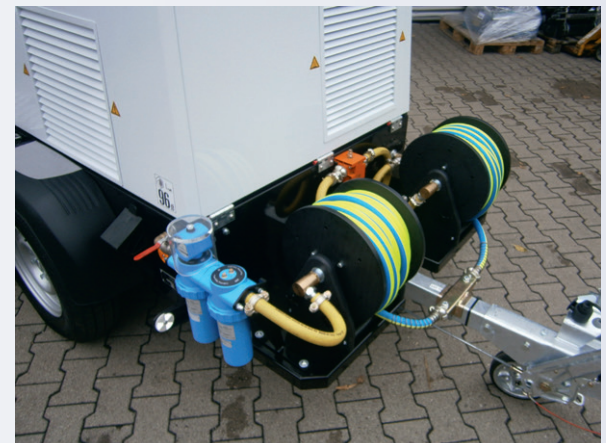
Arcobil SCO



Arcobil 3 with construction site lighting, up to 6 m extendible



Arcobil 3 with TIG-inverter and Water cooling system



Arcobil 3 with double hose recoilers and de-oiling filter



GDV with tilt protections



Bottle holder for cover gas

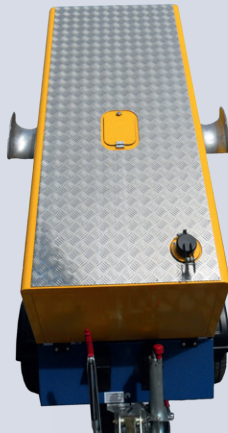


DGV 301/310K with TIG-inverter and water cooling system

Accessories



Aluminium storage box



Protective cover in aluminium



Hose recoiler with tools lubricator



TIG-welding control



DIN-towing eye



Welding cables 2 x 25 m and 3 m superflex cable with rod holder



Remote control 25 m with small case



Remote control 25 m including engine start/stop



Remote control standard

Additional products of Vietz Company



Vacuvietz

Our well-engineered vacuum lifting technology VACUVIETZ is represented on many construction sites all over the world. This modern pipe transporting unit is also operated by many pipe manufacturers in order to save time and staff costs.

Certainly, the most important advantage is the diminution of the risks of accidents to a minimum while loading and unloading the pipes. The independent VACUVIETZ can be mounted on a crane, a side boom or a hydraulic excavator.

Each VACUVIETZ can be equipped with different suction pads for diverse pipe diameters or special-purpose solutions



Arcotrac

Where steel pipes have to be welded together to build a pipeline, an Arcotrac is used for several purposes. Its hydraulic crane carries the welding protection tent as well as the cable-hose-assembly. The vehicle provides compartments for welding machines and holders for welding gas bottles. The diesel engine powers a hydrostatic track drive as well as a generator to produce electrical energy for the welding process. Operation of the Arcotrac is piloted from a driver's cabin which can be delivered in optional versions for hot or cold climate. The track drive enables the Arcotrac to be used in rough terrain, in sand or deep mud and comes with excellent climbing capability.

Equipped with the optional air compressor the Arcotrac delivers pressured air as well, i.e. to be used for operation of a pneumatic line-up clamp.

The application of this advanced ARCOTRAC- line allows to process much more efficiently, safely and conveniently.



Pipe bending machines

As a pipeline has to follow the features of the landscape, pipes have to be bent.

In the wide range of products from VIETZ-bending machines, you will find the appropriate machine for each need. Our manufacturing program covers machines with a bending radius from 6" up to 76"



**VIETZ GmbH
Hannover**

Fränkische Straße 30-32
30455 Hannover

Tel. +49 (0) 511 94997-0

Fax +49 (0) 511 495116

info@vietz.de · www.vietz.de

**VIETZ Schweißtechnik
GmbH in Leipzig**

Brahestraße 19
04347 Leipzig

Tel. +49 (0) 341 24592-0

Fax +49 (0) 341 2334440

vsl@vietz.de · www.vietz.de

vietz®