

PIPEWELDTRAC



Made in Germany

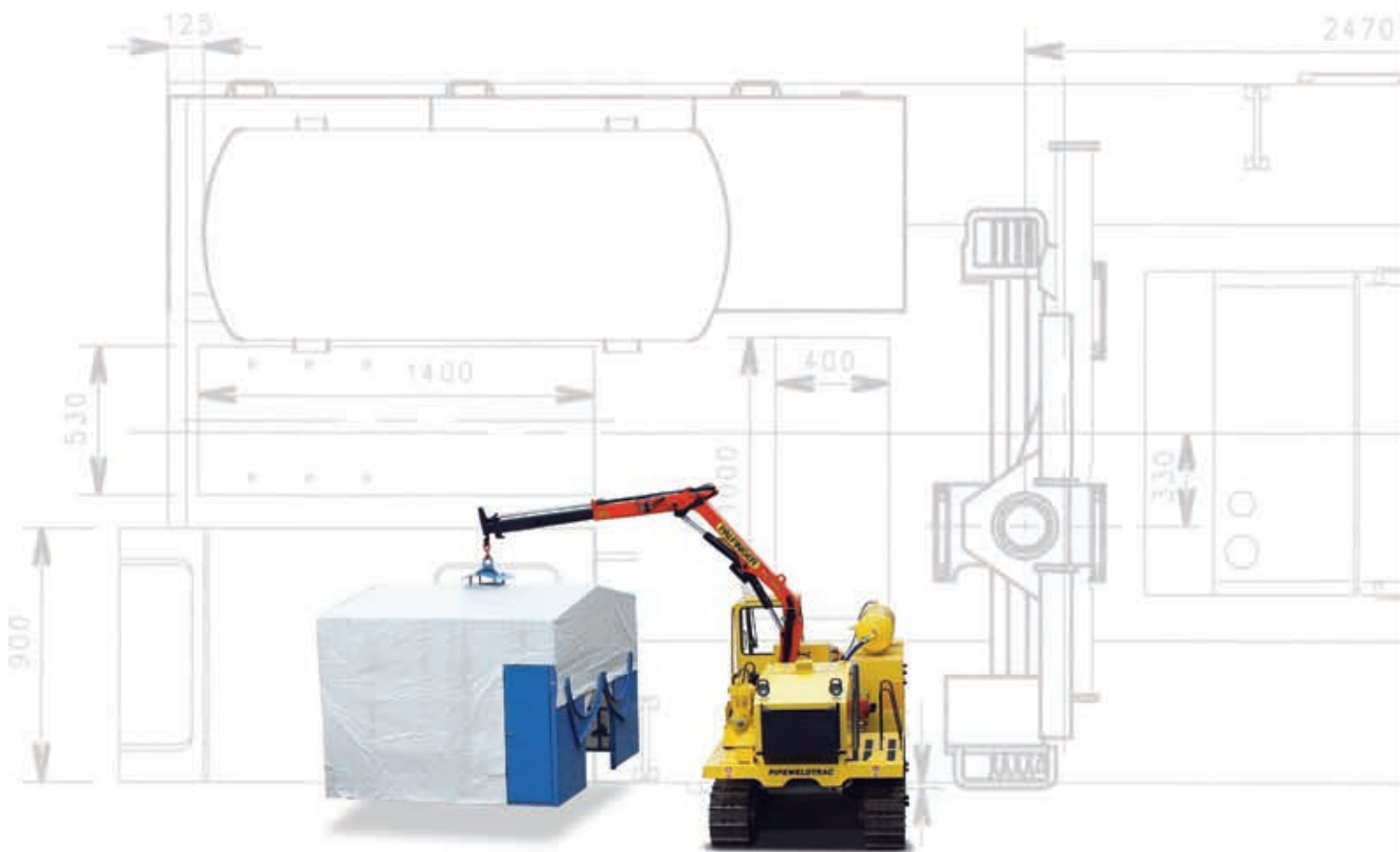
PIPEWELDTRAC

... a compact and manoevrable welding tractor with hydrostatic drive, especially designed for heavy-duty use on pipeline construction sites, even on difficult terrain.

... available in different versions for manual and automatic welding.

... hydraulic loading crane, situated in the tractor's central balance point, with a maximum lifting capacity of approx. 1.000 kg at a boom length of 7 m.

This crane can carry conventional light welding tents (manual welding) and special automatic welding cabins up to 56".





... developed and manufactured in Germany
by experts with long experience in pipeline
construction and machinery production:

PPS Pipeline Systems GmbH
STERICOMAT Systems GmbH
HBM-NOBAS Baumaschinen
(GP Günter Papenburg AG)





PIPEWELDTRAC System description



- **Best price-performance ratio**
- **Approved technology**
Sturdy construction for heavy-duty use
- **Hydrostatic traction drive**
Heavy-duty crawler track
Constant ground pressure
High ground clearance
- **Closed driver cabin**
- **Hydraulic drive**
for generator
- **Compressed air tank**
optional in different sizes
- **Storage boxes** for welding material
- **Hydraulic crane 7 m/t**



Lifting capacity 1.000 kg at a boom length of 7 m, situated in the tractor's central balance point (optional larger)

- **Compressor**
Crankshaft lubrication (suitable for steep slopes)
Hydraulic drive, 16 bar/215 psi
Quincy Type 350 or 370

Meets all technical requirements for manual and automatic welding:

- **Welding equipment for 2 to 5 welders** with inverters or rectifiers, completely equipped with welding cable for each welder's workplace with:

350 A or 400 A invertes (max. 5 units)
400 A rectifiers Lincoln DC 400 (max. 4 units)

- **CE certified**
Electrical safety equipment with insulation control
- **Easy to use**
- **Easy to maintain**

Technical specifications



The hydraulic driven synchronous generator (160 kVA, 50/60 Hz) allows operating of alternatively 2, 4 or 5 inverters or 4 rectifiers. It also supplies the auxiliary power required for grinding and allows connecting external electric equipment.

The central switch cabinet for all components includes, in addition to a sufficient number of different sockets, an insulation control according to guideline VDE0100/ part 410, DIN 57 413 B12/VDE 0413 T2/ 01.73, IEC 85 (Germany) 8A, part 8/ CENELC CLC BT (DE/Notification) 78, ASTM F1207-89.

Therefore no separate grounding is necessary for the crawler track vehicle.

Available optional supplementary equipment:

- Heating and air conditioning in driver cabin
- Crane **9 m/t**
- Cold start unit
- Gas bottle holder for automatic welding
- **700 mm / 28"** crawler D4 bottom plate width of the track vehicle
- Additional storage boxes for welding material
- Special paint

Engine Cummins, Type: QSB 6.7	6 cylinder 4-stroke Diesel engine approx. 129 kW, 2200 rpm/min
Fuel tank	310 l
Generator (hydraulic driven)	160 kVA, 50/60Hz 1500 or 1800 U/min
Switch cabinet	with power sockets and insulation control
Hydraulic oil tank	200 l capacity
Travel speed	3,5 km/h max.
Maximum tractive force	14.000 kg
Ground pressure	3,7 N/cm ²
Track width / bottom plate	500 mm / 20"
Total weight	approx. 13.000 kg
Operating voltage	24 V
Battery	2 x 70 Ah
DC generator	24 V 55 A
Starter	24 V 6,5 kW
Loading crane	7 m / 1.000 kg approx.
Dimensions (L x W x H)	5.900 x 2.770 x 3.000 mm
Paint: Undercarriage and main frame Mountings and equipment	grey RAL 7024 yellow RAL 1018

Specifications subject to modifications

PIPEWELDTRAC

Available Power Sources



Inverter SIRION 500 A

The modern inverter technology allows the use of all welding techniques with one power source.

This unit has been specially designed for the modern pipeline construction in order to be capable of performing traditional cellulose welding and the increasingly utilized MAG orbital welding technique.

The user does no longer depend on a manufacturer of MAG orbital welding equipment, i.e. he can utilize the power source irrespective of the brand.

All electronic components are protected and not affected by cooling air.

A maximum of 500 A is sufficient to permit future technologies on the construction site, such as welding with filler wires without protective gas.

If required, downhill welding technique can be performed with basic or cellulose electrodes or the root layer can be welded in WIG technique.

The remote control not only allows an adjustment of the welding current, being infinitely variable from 5 - 500 A, but also an adjustment of the polarity +/- . The remote control is located in a large sturdy box with an adhesive magnet and a large adjusting knob.

The performance of this inverter enables a permitted load of 100 % when using the MAG welding technique.



INVERTEC V 350-PRO

This 350 A inverter has well proven its efficiency and reliability under heavy-duty conditions on pipeline sites.

It allows welding with alkaline and cellulose electrodes and WIG, MIG/MAG and filler wire welding.

The remote control allows the adjustment of the welding current, being infinitely variable from 5 - 425 A.






Rectifier LINCOLN DC-400

This 400 A heavy-duty, industrial, three-phase multi-process power source is capable of MIG, flux-cored submerged arc, stick and DC TIG welding.

Changeover between processes is simple by turning a multi-process switch. On-board ammeter and voltmeter enable easy monitoring of key welding parameters.



Technical Specifications

Power Sources	Inverter SIRION 500 A	INVERTEC V 350-PRO	Rectifier LINCOLN DC-400
			
Main supply voltage	400 V	400 V	380 V / 440 V
Tolerance	+20% ... -25%	+20% ... -25%	+10% ... -10%
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Regulating range	5 – 500 A	5 – 425 A	60 – 500 A
Working voltage	20,2 – 40 V	20 – 36 V	12 – 42 V
Open circuit voltage	79 V	109 V	57 V
Permitted load	390 A 100 % 500 A 40 %	300 A / 32 V 100 % –3 ph 350 A / 34 V 60 % –3 ph 320 A / 33 V 60 % –1 ph 275 A / 13 V 100 % –1 ph	400 A / 36 V 100 % 450 A / 38 V 60 % 500 A / 40 V 50 %
Insulation class	H	H	F
Protection	IP 23	IP 23	IP 23
Environmental temperature	-10°C ... +40°C	-25°C ... +40°C	-40°C ... +40°C
Dimensions (H x W x L)	560 x 335 x 625 mm	376 x 338 x 709 mm	782 x 561 x 700 mm
Weight	58 kg	38 kg	215 kg
Standard Compliance	CE EN 60974 EN 50199/S-mark	EN 60974 EN 50199 CE	NEWA EW 1 IEC 974-1

Specifications subject to modifications



PIPEWELDTRAC

***... can be adapted to your
specific requirements.***

... Benefit from our Know-how !

... Contact us !



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