

TIG AC/DC INVERTER WELDER

ASPECT 300



Advanced inverter technology for superior TIG performance.

ASPECT® 300 is an industrial AC/DC TIG welding machine designed and manufactured using the latest inverter digital technology. This machine has been designed and built to perform in the most hazardous environments at high outputs: 300A at 35% duty cycle both in TIG AC and TIG DC application. The controller provides all the features you would expect from industrial AC/DC TIG inverter welding machines combined with a user-friendly front panel layout, setting advanced TIG parameters has never been so simple!

The top class features like the 2A minimum current, the multiple AC mode selection (including four different wave shapes), the optimized TIG start with adjustable electrode type and HF polarity, makes the unit the right choice to suit any application. It can be simply changed to water-cooled by adding the COOL ARC® 46 Water Cooler. A robust, stable and well equipped cart is available for easy movement of the unit.

Processes

Stick DC, Stick AC, TIG DC, TIG AC, Lift TIG, TIG HF, TIG Pulse

Applications

Fabrication, Production, Shipbuilding, Construction

Product Number

K12058-1



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LINCOLN
ELECTRIC

SPECIFICATIONS

Machine	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Fuse Size	Output Range	H x W x D in mm	Net Weight in kg	Protection/Insulation Class
Aspect 300	K12058-1	230/400V/3Ph	300A/22V/35% 200A/18V/100%	32/20	2-300	455 x 301 x 632	43	IP23/H

Unit Includes: 3 m input cable and gas connection kit.

Features

- Superb welding characteristics with TIG DC, TIG AC and Stick welding processes.
- Adjustable cleaning and penetration for perfect aluminium welding.
- Variable AC frequency (40-400Hz) for control of travel speed and penetration.
- Full function user-friendly control panel layout with graph and a numeric display make it easy to set all welding parameters.
- Rugged construction: electrical safety (IP23), potted PC boards and optimum airflow reduce contamination to extend the equipment's life in the harshest environmental conditions.
- PFC (Power Factor Correction) advantages: 30% more output current with the same input current, suitable for 230-400V (+15%-10%) three phase, low current consumption, energy saving, low current harmonics and reduction of the total CO₂ produced by the welding process.
- With VRD for added safety to the welding operator.
- Water coolers and carts available.

Recommended Consumables

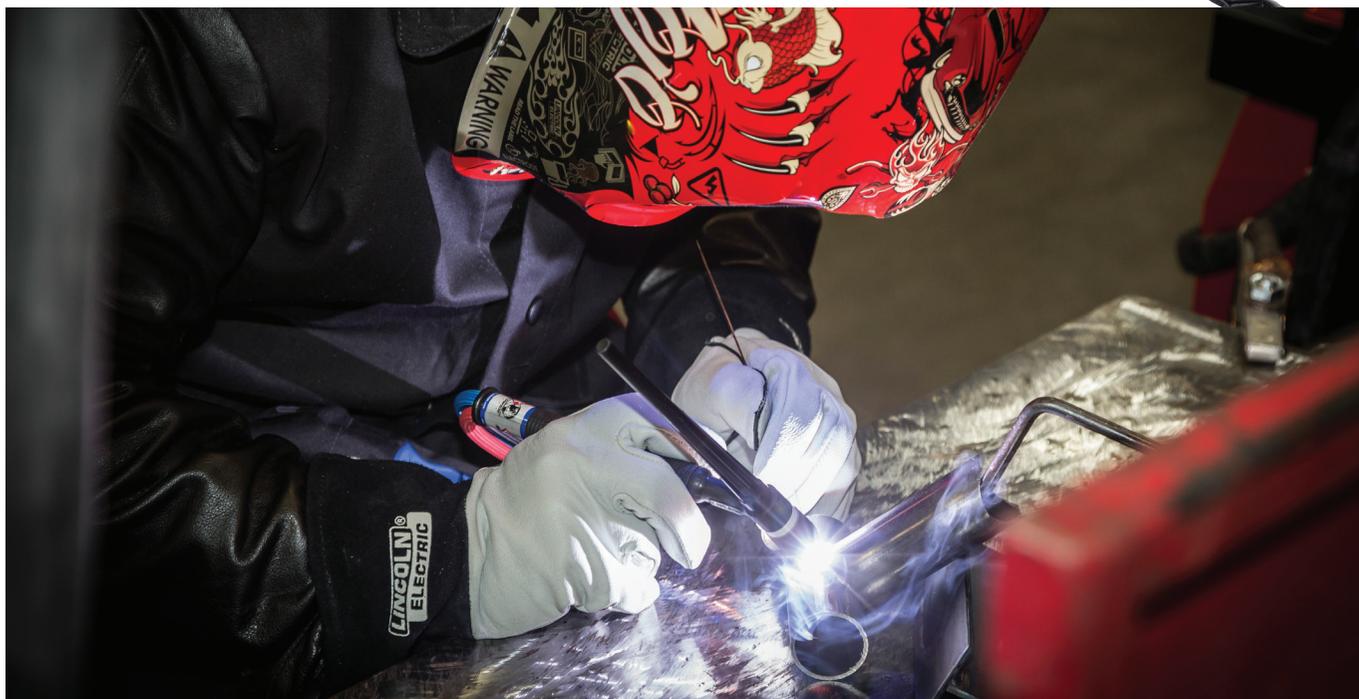
Steel: LNT 25, LNT 26, LNT Ni1, LNT 19

Stainless steel: LNT 304L, 316L, 309L

Aluminium: SuperGlaze®

KEY OPTIONS

General	Product Number
Cable kit 300A – 50 mm ² – 5/10 m	KIT-300A-50-xM
Electrode holder 300A – 50 mm ² – 5/10 m	E/H-300A-50-xM
Ground cable 300A – 50 mm ² – 5/10 m	GRD-300A-50-xM
Accessory kit LT17/18/26 – 1.6-2.4 mm	KP10516-11
Accessory kit LT17/18/26 – 2.4-3.2 mm	KP10516-12
Foot Amptrol	K870
Remote control – 15 m	K14147-1
Extension for remote control – 15 m	K14148-1
Water cooler COOL ARC® 46	K14105-1
Coolant Acorox (2x5 l)	K10420-1
Cart TPX	K14129-1
Torches	Product Number
TIG torch LTP 26 G – 180A – 4/8 m	K10529-26-x
TIG torch LTP 18 W – 320A – 4/8 m	K10529-18-x
TIG torch LTP 18 W SC – 400A – 8 m	K10529-18SC-8



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