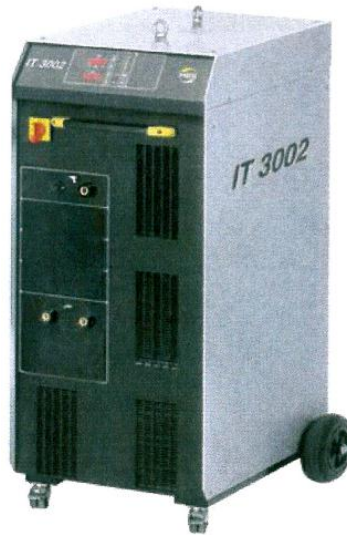


ARC WELDERS: IT 3002



Technical Data	
Gas	Option
Welding range	#4 to 1 1/4", dia. 14 ga to 1ö (M3 to M31, dia. 2 to 31mm)
Welding material	Mild steel, stainless steel, aluminum
Welding rate	Dia. 1ö = 6 studs/min (dia 25 mm = 6 studs/min) Through deck welding 3/4" = 12 studs/min (300 feet, AWG 4/0) Industrial application 3/4ö = 14 to 15 studs/min
Welding current	2600 A (max.)
Current adjustment range	300 to 2600 A (stepless)
Welding time	5 to 1500 msec (stepless)
Primary power	480/460 V, 3 phases, 50/60 Hz, 125 AT (alternative input voltages available)
Connected load	150 KVA (with 400 V mains), 120 kw
Cooling type	F (temperature controlled cooling fan)
Protection class	IP 23
Operation and storage conditions	According to current standards
Dimensions L x W x H	25.6ö x 22ö x 50.8ö (650 x 560 x 1290 mm) without handle
Weight	352.7 lbs (160 kg)
Order No.	93-66-3211 (1 Gun connection)
Features	
<ul style="list-style-type: none"> • Microcontroller – for precise process times, optimal functional reliability and maximum operating convenience • Function monitoring – automatic function test following power-up; monitoring of all internal system functions • Lift test – for gap welding guns and stud welding heads • Library function – automatic specification of welding current and welding time through selection of stud diameter according to welding range (with and without shielded gas); fine adjustment via arrow keys 	
Suitable stud welding guns	
<ul style="list-style-type: none"> • A 12 • A 16 • A 22 • A 25 • AI 06 	

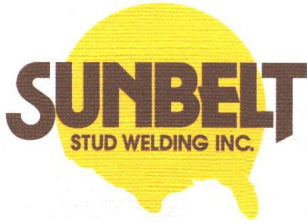
www.sunbeltstudwelding.com

Sunbelt Stud Welding, Inc.
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Houston, Texas 77040-4915



14-18

1-800-462-9353
713-939-8903
fax 713-939-9013



TECHNICAL DATA SHEET

ARC WELDERS: IT 3002

General Information

Application

- Especially suitable for thicker sheets of about .093 inches (2 mm) or higher
- Especially suitable for welding of concrete anchors/shear connectors for job site applications
- Suitable for through deck welding

Process Variants

- Short cycle drawn arc welding
- Drawn arc welding

Equipment

- Welding with ceramic ferrule (series)

Advantages

Structure

- **Extremely easy to operate**
- **Compact**
- **Mobile** ó highly mobile thanks to compact dimensions and low weight (50% less weight compared to conventional stud welding units)
- **Robust** ó metal housing withstands rough treatment in shop and on site

Safety

- With integrated **mains filter** (protection against voltage peaks)
- **Optimal for construction sites with large mains voltage fluctuations**óuse even with critical voltage supply $\pm 10\%$
- **EMC test**
- **High-voltage test with log**
- **Retriggering lock-out** – prevents welding on a welding element that has already been set
- **Thermal monitoring of transformer** – automatic shutdown in case of overheating
- **Temperature-regulated ventilator** – reduces noise and dust in the stud welding unit (greater reliability)
- **Control unit galvanically separated from welding lines** – high degree of functional safety
- **Optimal protection against external interferences**
- **Protection class IP 23**
- Also permits operation outdoors

Welding

- **Display** – Infinitely adjustable power setting; easy monitoring of all functions via LED displays; easy operation via membrane keyboard and digital display; setting of welding parameters, programs, shielding gas (optional); digital display of current, welding and gas-preflow time; separate settings for welding current and welding time
- **Powerful** – built-in power reserves
- **Trouble-free changing** of welding voltage polarity possible by reconnecting welding current and ground cables
- **Outstanding welding quality** – very high arc stability even at weak welding currents
- **High process flexibility** – high clock frequency (30 kHz) of stud welding unit allows highly dynamic regulation of welding process

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