# STUD WELDING PRODUCTS, INC.



# STUD WELDING UNIT

Model: IT-3002

## **APPLICATION**

- Especially suitable for thicker sheets of about 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

# **EOUIPMENT**

• Welding with ceramic ferrule (series)

## **FEATURES**

- 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

FEATURES	WELDING UNIT IT-3002		
SIZE	25.6" length, 22" width, 50.8" height (640 x 560 x 1290 mm) without handle		
WEIGHT	352.7 lbs. (160 kg)		
WELD RANGE	#4 to 1" dia. 14 ga to 1" (M3 to M24, dia. 2 to 25 mm)		
WELD MATERIALS	Mild steel, stainless steel, aluminum		
WELDING RATE	Dia. 1" = 6 studs/min (dia. 25 mm = 6 studs/min) Through deck welding 3/4" = 12 studs/min (300 feet, AWG 4/0) Industrial application 3/4" = 14 to 15 studs/min		
WELDING CURRENT	2,600 A (max.)		
CURRENT ADJUSTMENT RANGE	300 TO 2,600 A (stepless)		
WELDING TIME	5 to 1,500 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		
OPERATIONAL & STORAGE CONDITIONS	According to current standards		
GAS	Option		
ORDER NUMBER	93-66-3211 (1 Gun connection)		

#### **STRUCTURE**

- Extremely easy to operate
- Compact
- Mobile highly mobile thanks to compact dimensions and low weight (50% weight savings vis-à-vis conventional stud welding units)
- Robust 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 use even with critical voltage supply (- 10% + 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 system 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

#### Suitable stud welding guns

• A 12	• A 22	• AI 06
• A 16	• A 25	

# Check us out on the internet www.studweldprod.com or email info@studweldprod.com

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