



Choon Huat Engineering Pte Ltd
春發機械(私人)有限公司

DIGIPULSE 500



DigiPulse 500 is the latest addition to the family of CH-WELD welding machines. It is a welding machine that is capable of 8 different welding processes (MMA, MIG, TIG, Spot TIG, Pulse TIG, Pulse MIG, Double Pulse MIG and Gouging). Each different process has up to 30 preset or user set parameters memory capability. It can weld not only from as thin as 1.5mm but as low as 3 amperes and at the same time produce a quality weld with little spatter. Such high accuracy can be met due to its digitalized control panel and improved IGBT Inverter Technology. The other key feature on DigiPulse 500 is its water and dust resistance feature. Not only does it automatically cut off the power supply to the machine when at a moist environment but will also remind you to have the machine cleaned when dusty.

It is suitable to weld on material like cast iron, copper, aluminum, Al. Mg alloy, carbon steel, stainless steel, duplex stainless steel, etc.

Associate Brands



DIGIPULSE 500

FEATURES

1. 8 different welding processes (MMA, MIG, TIG, Spot TIG, Pulse TIG, Pulse MIG, Double Pulse MIG and Gouging)
2. New Improved IGBT Inverter Technology
3. Wide range of welding current/parameters
4. Good arc stiffness even when welding at a low ampere of 3A
5. Using of either HF (High Frequency) or Lift when in an Arc-Striking Mode
6. Able to perform Pulse-GMAW welding process on thin metal with low spatter
7. Programmable memory of up to 30 preset or user set parameter for each of the 8 processes
8. Water and Dust resistance
9. User Friendly interface

TECHNICAL SPECIFICATION

DIGIPULSE 500

Parameters for Welding

Rated Input Voltage	3-phase, AC 415V 50/60Hz
Input Voltage Range	260 - 460 (V)
Rated Output Capacity	500A, 40V
Rated No-load Voltage	55 - 80 (V)
Duty Cycle	60 (%)
Power Factor COS	≥0.85 (φ)
Efficiency	≥85% (η)
Insulation Grade	H
Case Protection Grade	IP21
Dimensions	610x320x600(mm)
Net Weight	38 (kg)
Parameter Memory Block	30

Parameters for DC.TIG Welding

Current	5-500 (A)
Slop Up	1-501 (A/s)
Slop Down	1-501 (A/s)
Start Current	40-500 (A)
Pilot Current	5-500 (A)
Gas Pre-flow	0.1-12 (s)
Gas Post-flow	0.1-50 (s)
Operation Ways	0-6

Parameters for Pulse TIG Welding

Peak Current	5-500 (A)
Slop Up	1-501 (A/s)
Slop Down	1-501 (A/s)
Start Current	40-500 (A)
Pilot Current	5-500 (A)
Gas Pre-flow	0.1-12 (s)
Gas Post-flow	0.1-50 (s)
Operations Ways	0-6
Base Current	5-500 (A)
Base Time	1-500 (ms)
Peak Time	1-500 (ms)

Parameters for TIG Spot Welding

Spot Welding Current	5-500 (A)
Gas Pre-flow	0.1-12 (s)
Gas Post-flow	0.1-50 (s)
Spot Welding Time	0.01-5 (s)
Slop Down	1-501 (A/s)

Parameters for MMA Welding

Current	10-500 (A)
Arc Force	0-10
Start Current	10-500 (A)
Start Time	0.01-1 (s)
Arc Break Adjust	20 - 80 (V)

Parameters for GMAW Welding

Current	15-500 (A)
Voltage	10-42 (V)
Arc Force	1-10
Welding Type	0-11
Operations Ways	2T, 4T
Final Current	15-500 (A)
Final Voltage	10-42 (V)
Start Current	15-500 (A)
Start Voltage	10-50 (V)
Burn Back Time	1-300 (s)

Parameters for Pulse GMAW Welding

Current	15-500 (A)
Voltage	10-42 (V)
Arc Force	1-10
Welding Type	0-11
Operations Ways	2T, 4T
Final Current	15-500 (A)
Final Voltage	10-42 (V)
Start Current	15-500 (A)
Start Voltage	10-50 (V)
Burn Back Time	1-300 (s)

Parameters for Double Pulse GMAW Welding

1st Current	10-500 (A)
1st Voltage	10-50 (V)
1st Time	0.01-2.5 (s)
Wire Type	17
Operations Ways	2T, 4T
Synergy	ON/OFF
2nd Current	10-500 (A)
2nd Voltage	10-50 (V)
2nd Time	0.01-2.5 (s)
Final Current	10-500 (A)
Final Voltage	10-50 (V)
Start Current	10-500 (A)
Start Voltage	10-50 (V)
Burn Back Time	1-300 (s)

Parameters for Carbon Arc Air Gouging Welding

Current	100-500 (A)
Arc force	0-10

Other models are also available. For more information, please feel free to contact us at
Tel: (65) 6862 2222 or Email: sales@choonhuat.com.sg