



HD500

Solid State SCR Controlled
Arc Welding Machine



Heavy Duty Output - Great Value



The HD500 is an economical solution for the most demanding GMAW and Flux Cored arc welding applications.

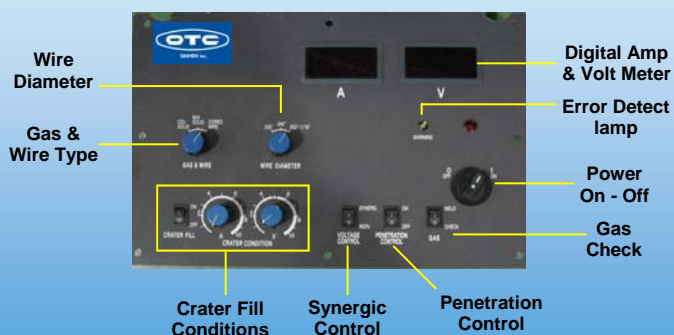
Rated 500 Amp at 50% duty cycle (363 Amp at 100%) the "Heavy Duty" HD500 provides high quality welding performance from thin sheet metal to thick plate.

Versatility

- Ideal for use with mild steel and stainless steel wires - solid or flux cored
- Very stable arc with 100% CO₂ or Argon / CO₂ mixtures on mild steel
- Positive output terminals for high and low inductance helps minimize spatter in any output range
- Standard 15 ft. remote pendant provides wire feed speed, arc voltage, and wire inching control at the work area
- Optional extension cables up to 66 feet available for remote pendant and wire feeder
- Built-in running gear with cylinder rack and steering handle
- 115V - 6 amp auxiliary power receptacle
- Pre-wired 7 ft. primary input power cable
- Wire slow-down on / off switch for improved arc starts
- On / off switch for Fan-on-demand for power saving or extended cooling
- Light weight wire feeder with control circuits built-in the power source for durability (See details on back page)



Simple Control Panel provides Advanced Functionality



- **Wire Diameter - Gas & Wire Type Switch**
- Presets ideal fixed conditions to ensure a good arc start, arc end, and spatter control
- **Digital Amperage & Voltage Meters**

- **Crater Fill Function**
- Adjust output to easily fill the crater at the weld end
- Controls initial condition when selected (internal dip switch)
- Provides cruise control
- **Synergic (One-Knob) Control**
- Combines wire feed speed (Amperage) and arc voltage to easily go from thin sheet to thick plate welding by adjusting only one knob - Ideal for less experienced operators
- **Penetration Control**
- Delivers uniform penetration even when tip-to-work distance varies
- **Gas Check Switch**
- Activates gas flow to pre-set flow rate with no machine output to avoid wasting welding wire
- **Warning Lamp (Error Detection)**
- Fully illuminates or flickers depending upon error type
- Trouble shooting guide identifies errors

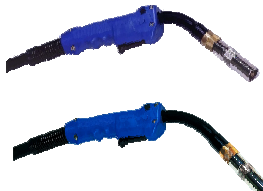
Specifications - Power Source, Wire Feeder, and Torches

Power Sources Specifications

Model	CPHD-500 (C0207)	CPHD-500 (C0208)
Rated input voltage	AC 230V 3Phase	AC 460V 3Phase
Input voltage range	207V – 253V	414V – 506V
Rated input power	31.5 kVA (28kW)	
Rated input current	79.1A	39.5A
Rated output current	500A	
Rated load voltage	45V	
Output current range	50 – 500A	
Output voltage range	15 – 45V	
Max. no-load voltage	65V	
Rated duty cycle	50%	
Temperature rise	320° F	
Temperature range	14 - 104° F	
Mass	364 lbs (165kg)	
Dimensions (in)	W : 16.1 X D: 26.0 X H: 37.2	

OTC Air Cooled Steel Torches


Tweco #4 Style Power Pin



WT3510-S(M,L)UT
• 350 Amp

WT4000-S(M,L)UT
• 400 Amp

Tweco #5 Style Power Pin



WT5000-S(M,L)UT
• 500 Amp

- Available Lengths: S - 10 ft.
M - 15 ft.
L - 20 ft.
- Torches shown are rated 60% duty cycle with 100% CO₂ shielding gas


Wire Feeders Specifications

Model	CMXL-231U
Style	2 Drive Roll - Semiautomatic
Wire Feed Speed	708 in./min. (18 m/min.)
*Wire Size	.030", .035", .045", .052", 1/16"
Wire Type	Solid, Flux Cored
Weight	30.9 lbs. (14 kg)
Dimensions	W: 7.9 x D: 19.0 x H: 11.5 inches

*Notes:

- Factory installed .035"/.045" dual sided drive rolls
- .052", 1/16" dual sided drive rolls provided as standard accessory
- .030" drive roll available as an option

Wire Feeder Standard Features




15 ft. Gas Hose, Control Cable, Remote Control Cable, and Positive Side Welding Cable with Dinse Connector

Built-In Wire Straightener

Equipped with .035" - .045" Drive Rolls

Wire feeder accepts virtually any brand torch

New wire feeder is designed to use any brand of torch with a Tweco #4 style power pin, including OTC - DAIHEN torches (Tweco #5 connection available as an option)



Wire Pressure Adjustment Handle

Tweco #4 Power Pin Connection

Torch Trigger Lead Connection

Fasteners for Remote Pendant

For more information on OTC brand products from DAIHEN Inc. please visit our web site at www.daihen-usa.com.



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