

# Cutlass "ARC-410"

## Drawn Arc & Short Cycle Stud Welding System



PHM-12 for drawn arc welding with ferrule.



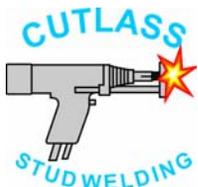
PHM-10 for short cycle welding.

The ARC-410 stud welding system is an ideal portable welder for welding steel and stainless steel studs on site, on board ship or as a compact job shop system for welding structural applications in drawn arc mode with the standard PHM-12 weld gun. The versatility is further enhanced with the ability to weld in Short Cycle mode with the optional PHM-10 weld gun...this is particularly advantageous for ship board insulation applications or thinner sheet metal applications. Operation is simplicity itself, with only one parameter on the controller (time), to change for different stud diameters. The controllers are self contained, reliable and using three phase power provide stable, regulated output current control.

The system includes:

- ◆ **ARC-410** controller capable of operating in Arc or Short Cycle Mode
- ◆ PHM-12 (or PHM-10) weld gun complete with 16ft. weld/control cable assembly.
- ◆ Twin 16ft. ground cable and clamp assembly.
- ◆ Stepless time control from 5 to 350 milliseconds.
- ◆ Accessory pack to include adjustable legs, small footpiece, allen keys and chuck drift.
- ◆ Operation and maintenance manual.
- ◆ Two weld chucks (and ferrule grips).
- ◆ Thermostatically controlled fan.
- ◆ Digital time display, system monitoring and diagnostic LED indicators of all weld functions.

*....As you can see the system comes to you ready to perform, complete with the accessories for immediate welding...just hook it up to your power supply and away you go.*



**Cutlass Fasteners, Inc.** 83 Vermont Ave., Unit 6, Warwick, RI 02888

www.cutlass-studwelding.com tel: (401) 732-6333 fax: (401) 732-6336

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### TECHNICAL DATA

| <b>ARC-410</b>              |  |
|-----------------------------|--|
| Stud Capacity ....Drawn Arc | 5/16 (8mm) 3/8" RB   |
| .....Short Cycle            | 1/4 (6mm)  |
| Weld Gun ....Drawn Arc      | PHM-12   |
| .....Short Cycle            | PHM-10   |
| Weld/Control Cable          | 16 ft.(5 mtrs.)  |
| Ground Cable (Twin)         | 16 ft.(5 mtrs.)  |
| Max. Output                 | 400 Amps   |
| Time Control                | 5 – 350 milliseconds   |
| Controller Weight           | 59 lbs (27 kgs.)   |
| Max. Weld Rate              | Up to 20 studs per minute depending on stud diameter and application |
| Controller Size             | 16" (400mm) L x 8" (195mm) W x 10.5" (265mm) H                       |
| Power Requirements          | 230/460 Volt, 60/30 Amp, 50/60 Hz                                    |

Cutlass Fasteners have been making stud welding systems for over 25 years. We strive to produce the **most reliable** and **best value** stud welders. With our commitment to continuous research and development in the stud welding field we are now able to offer our most versatile line of welders to date.

The PHM-12 Drawn Arc weld gun and the PHM-10 Short Cycle weld gun are the newest additions to the range of Cutlass weld guns. The weld guns are smaller and lighter, but strong, reliable and ergonomically designed. They use the standard adjustable weld chucks and the small, compact footprint allows close stud/stud positioning.

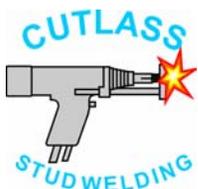
All the advantages of ARC and SHORT CYCLE stud welding are available with the **ARC-410**: ♦ Up to 20 in place studs per minute...one man...one gun (dependent on application and dexterity of operator). ♦ Faster and cleaner than drilling and tapping. ♦ Leak proof...no holes to drill or punch...or seal. ♦ Vibration proof...will not shake or vibrate loose. ♦ Weld studs to Carbon steel, Stainless steel, Aluminum, and more. ♦ Full cross sectional weld across head of fastener...weld is stronger than base material or fastener. ♦ Compact, portable equipment...runs off 230 or 460 volt . ♦ Fully automatic, high volume production systems available.

### STUD WELDING is our BUSINESS.

We manufacture and stock over **8 million** weld studs and distribute a complete range of CAPACITOR DISCHARGE, SHORT CYCLE and DRAWN ARC stud welding products.

For additional information call Cutlass toll free on **1-800-536-6333**

Cutlass reserve the right to improve designs and/or change technical specifications without prior notice.



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