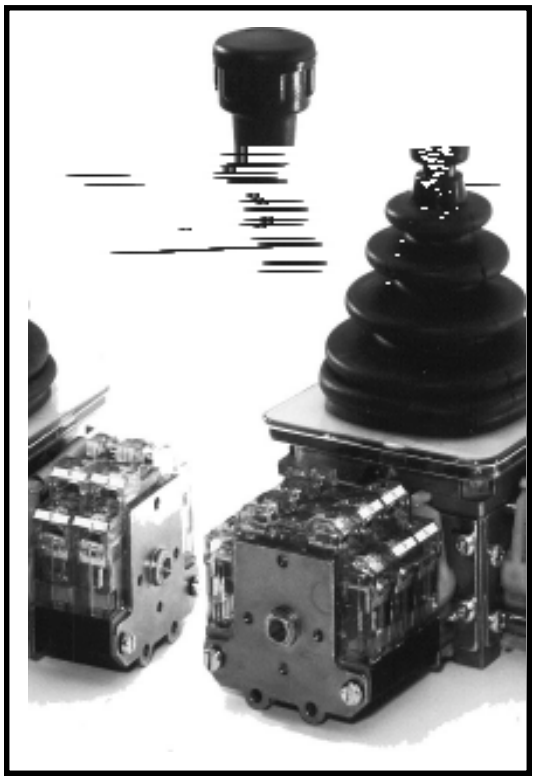
# RMS Master Switches

## Application

The RMS series of master switch controllers are characterized by their unmatched versatility and rugged construction. They are currently used for providing directional and speed control of AC/DC Drives, Electro-Hydraulics, or any other devices requiring a manually operated proportional output. Some applications include: Cranes, Lifts, Hoists, Mobile Transporters, Mining Vehicles, Excavating and Logging Equipment. The RMS master switch is ideally suited for mill duty environments.

## Features



Rugged Construction: Forged bronze gimbal mechanism, case hardened bearings, polished steel shaft guides.

Mechanical life: 10 million cycles

Design flexibility: Contact and potentiometer drive locations can be selected to accommodate available panel space. Tandem drive arrangement available for mounting at end or at base of controller.

Multi axis control: 1, 2 and 3 axis control with separate or simultaneous operation. Both standard and custom switching patterns available.

Handle: Variety of handle styles and handle operated deadman functions available.

Precise step control: Up to 7-0-7 individually detented steps in each axis, 4-0-4 detented positions for 3rd axis twist handle function.

Contacts: (10) snap in 16A 240VAC double pole field replaceable contacts. (Type V3 form C, DC, and gold low voltage type contacts available.)

Potentiometers: Maximum of (4) 3 watt potentiometers each axis directly driven.

Electronics: P.F.C. Proportional Feathering Control electronic amplifiers for operation of electronic variable speed drives.

Enclosures: Variety of standard steel and fiberglass fixed or portable control consoles available; NEMA1, 3R, 4 and 12.

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## RMS Ordering Information

- Basic assembly: 7 1/8" long shaft, (2) piece handle, boot and mounting plate supplied standard.
- Handle: Handle options are as follows: (H) pushbutton, (Z) neutral interlock, (TR) twist to right, (TL) twist to left.
- Contacts: Each contact block supplied with 2 poles. 7 maximum in X and Y axis, 4 maximum in twist.
- Detents: Reference RMS Dimensions for types available and applicable handle angle.
- Potentiometers: 2 watt 1 million operations standard. Specify resistance and type required. (Consult factory for custom requirements).
- Electronics: (P.F.C.) Proportional Feathering Control electronics.

## Ordering Example

| | | | | | | | A-B | | C-D | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 978 | RMS | 2 | 3 | F | U | V | (R) | x | x | (B) | HU |

Series number
Type of controller
In direction of view
Number of double pole contact blocks
In cross direction
Front mounting:
Arrangement:
Drive Arrangement ((V) vertical (H) horizontal (D) dual)
Spring return: Specify (R) in each axis
Potentiometer: Specify (X) in each axis (value)
Friction brake: Specify (B) in each axis
Options: (H) horn switch, (C) center contact, (L) latch

## RMS Technical Data

- Operating Temperature: -25° to +70°C
- Detented Positions: Up to 7-0-7 steps.
- Gear ratio: 3.5:1 (Handle travel ± 40°, cam & potentiometer rotation ± 140°)
- Mechanical life: Friction brake: 10 million plus operations.

## Electrical:

- Contacts: Double pole contact blocks 20 circuits per axis
- Terminals: M3.5 x 0.5 screw with saddle clamp
- Wire size: 18 AWG min. 12 AWG max.
- Switch rating:
  a) AC continuous 16 amps @ 240 volts
  b) AC resistive 8 amps @ 240 volts
  c) AC inductive 6 amps @ 240 volts
  d) 1 HP 120VAC 1 phase
  e) 2 HP 240VAC 1 phase
- Max. switching capacity: Making - 100 amps Breaking 80 amps (0.7PF) 240V
- Electro mechanical life: Breaking AC current
  a) Resistive: 1 million operations @ 8 amps 240V
  10 million operations @ 2 amps 240V
  b) Inductive: 1 million operations @ 6 amps 240V
  10 million operations @ 2 amps 240V

Consult factory for low voltage gold and DC rated contacts.