HS3

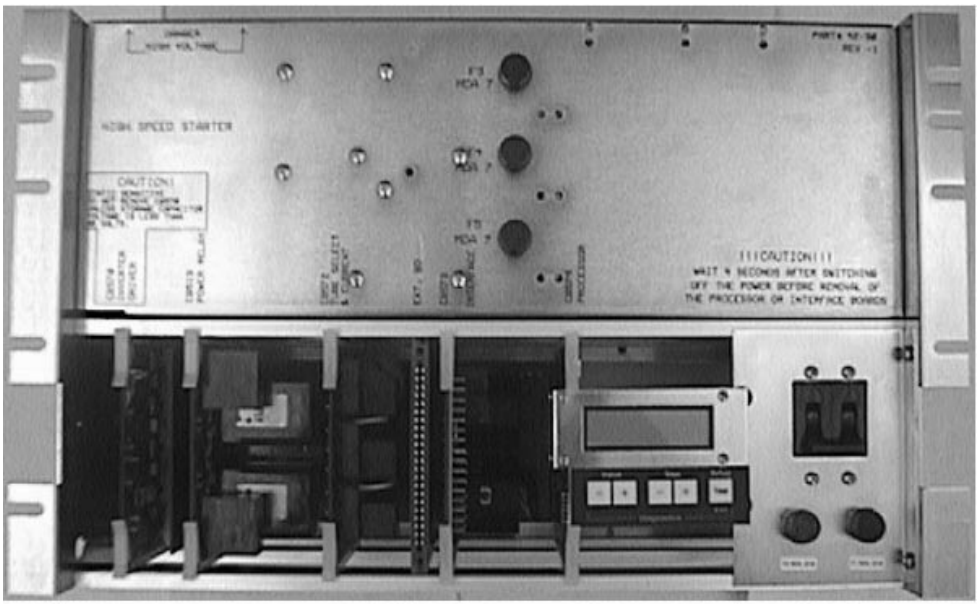
Anode Rotator

Application:

For increased power requirements, the HS3-MPX is designed for normal and high speed rotation of x-ray tube anodes.

Features:

- Modular construction
- 1 to 3 Tube operation
- High efficiency IGBT drive
- Easy 5, 12, 24 Volt D.C. interface
- LED's which reflect all external inputs
- Adjustible time delays (for all modes)
- Very quiet acoustically & electrically
- Microprocessor control for logic reliability
- EEPROM for storing Programming information
- Modular construction for quick and easy servicing
- LCD Display for Status, Programming, Servicing & Diagnostics



HMS *Electronics, Inc.*

5935 Labath Avenue, Rohnert Park, California 94928 Telephone: (707) 584-8760 FAX: (707) 584-7052

HS3-MPX

Anode Rotator

Technical Specifications:

Weight: 45 lbs. **Cabinet Weight:** 26 lbs. **Total Weight:** 71 lbs (starter and cabinet) **Shipping Weight:** 72 lbs.

Power Supply:

208/240 VAC single phase 20 amp "R" stator -or- 30 amp "Q" stator - UL approved, CE registered

-or- 277 VAC single phase 12 amp "R" stator -or- 20 amp "Q" stator - UL approved

Stator Power and Operation:

	Low Speed - 60Hz		High Speed - 180Hz			
	Start	Run	Start	Run	AC Brake	DC Brake
R	220V	54V	440V/500V	100V	220V	60VDC
Q	220V	52V	350V	60V	220V	50VDC

Stator connections made directly to a terminal strip in the unit

440V/500V is selectable at time of installation

Brake Sequence:

High speed to low speed = AC brake

Low speed to stop = DC brake (optional/programmable to duration)

*Starter will not change tube selection until the spinning tube is braked as programmed

Logic Inputs:

Input opto-isolators require 5 - 24Volts DC from generator

8 Command Inputs:

1. 'T1', Tube 1 select
2. 'T2', Tube 2 select
3. 'T3', Tube 3 select

*1 4. 'CO', Coast (useful for digital radiography applications)

*1 5. 'SF', Spot film transfer - usually "RL" from the spot filmer

*1 6. 'HS', High speed select - usually from the tube protector

*1 7. Fluoro - usually from the footswitch circuits

*1 8. Rad Prep - usually from the handswitch circuits

Note 1: These inputs are programmable as to functionality. The user program is held in EEPROM

Logic Outputs:

1. Standard X-ray inhibit interlock - N.O. contacts close during run
2. Auxiliary relay - N.O. & N.C. contacts, programmable as to functionality

(Both output relay contacts: 3 amps max at 30V DC or 250V AC)

Acceleration, AC-Brake,DC-Brake,X-ray Delay:

All adjustable in .1 second increments.

Hold Times (hangover)

All adjustable in .1 second/1 minute increments.

Documentation:

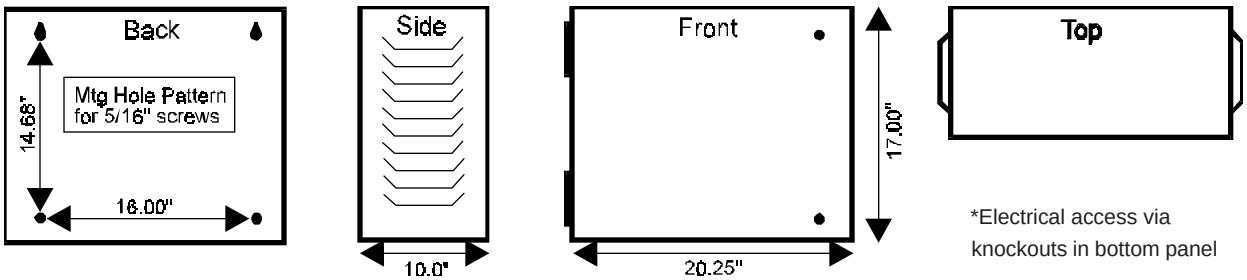
Manual supplied with complete installation instructions, theory of operation, troubleshooting guide, complete schematics, and detailed parts list.

LCD Display:

Displays program information, starter status, fault indications, and diagnostics.

Chassis Dimensions:

19" Rack mount (18.75"Wx11.25Hx8.5D) Weight=41 lbs



*Electrical access via knockouts in bottom panel

Cabinet Dimensions and Mounting Hole Pattern: Weight=25 lbs