

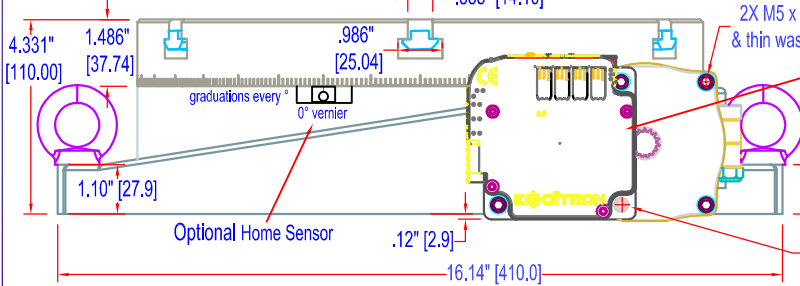
Rotary Table is pre-packed with Sinopec NLGI-2 Moly-Lithium high pressure grease, ok to use Harbor Freight Sta-lube CRC SL3330 grease. Do not add oil which contaminates the grease.

Suggest repacking Eccentric Collar Gear Assembly with grease every 1,000 run hours. Remove worm gear drive assembly, squirt grease into small hole until excess comes out.

Optional Gear Kit p/n G86-486-90 allows you to "shift gears" from 486:1 to 90:1 and back, gives you 2 torque and speed choices. Use 486:1 for maximum resolution and torque for machining. Use 90:1 for higher speed.

Optional Pendant and DRO with touch panel

2 Joysticks for handy CW & CCW motion



See Rotary Tables product page and Documentation link for Controller Manual, X86 Series drawing for motor and controller details.

Ordering information: select **MRT12-86-118** and specify the gear ratio you need—486 or 90. The basic MRT12-86-118 gives you one speed not both. For both 486:1 and 90:1 ratios, order the Optional Dual Gear Kit p/n G486-90.

MRT12-86-118 Motorized Rotary Table Key Features

- Precision ground heavy-duty worm gears with virtually zero backlash
- Perfect indexing to any degree with very high accuracy and repeatability
- Control speed, direction, angle, repeat action, and more
- 2 TTL serial ports, 4 Input Pins, and Step/Direction input pins
- Automatic repetitive motion possible, with time delays
- Ball bearings & Needle Roller Bearings
- Torque tested with 2 men standing on Table
- Table self-locks when motor is stopped, 2 locking levers included, but leave unlocked
- Complete ready-to-run kit

Items included but not shown:

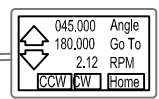
- USB micro cable for control by smart phone!
- USB-TTL-3pin Adapter cable for smart phone or PC
- PS24-72W power supply, connector, AC cable, works anywhere in the world—100-240vac 50/60 hz
- Silicone clear splash guard, .02" x 12" x 18"
- 3X 4" Input cable 3 pin, open 1 end
- Table base mounting hardware
- 6 M10 Slot nuts
- Hex key ring with 1.5 to 10mm keys

Center rotation bearing is machined to ±.0002", and HP grease reduces that gap. This gives you ultra ultra round concentric machining and angle accuracy.

Lock to adjust Eccentric Sleever worm gear play, and to engage/disengage

486:1 gear ratio
Motor Plate SS304

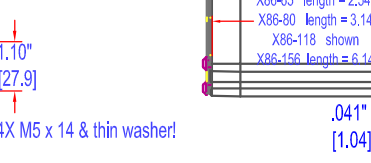
DRO digital readout shows all values



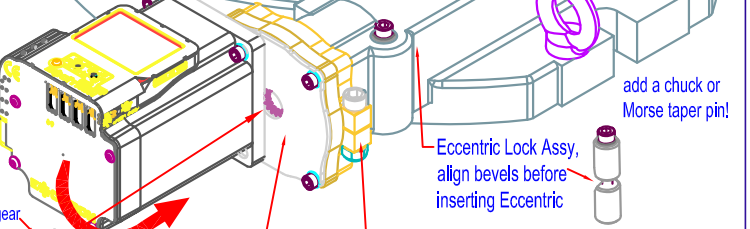
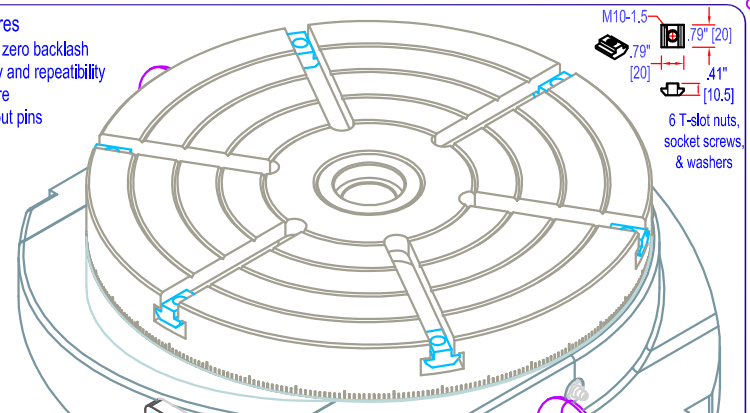
Optional Pendant and DRO with touch panel

X86 Controller and power driver

Optional Absolute Encoder for feedback



Warning--motors can cause severe injury or death. Visit www.excitron.com for manuals, torque graphs, and other docs. Specifications subject to change without notice.



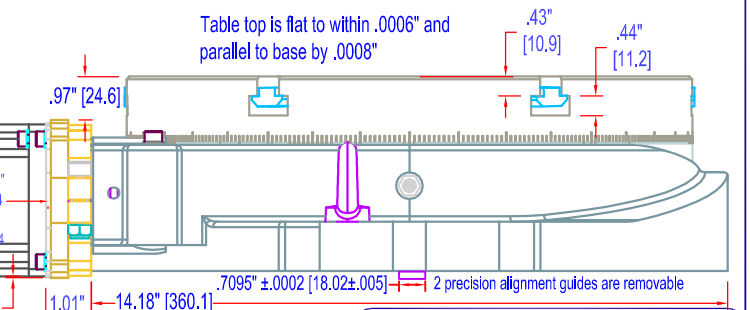
add a chuck or Morse taper pin!

Eccentric Lock Assy, align bevels before inserting Eccentric

C Collar Clamp allows rotating Motor and gearbox to any angle by loosening M8 screw. Important--always maintain light pressure towards motor, to reduce worm shaft play and to keep internal needle bearings in place.

Ratio	RPM	Steps/rev	Resolution	Ideal torque	Typ torque
90:1	0 to 8	36,000	.01000"	3,600 in-lb	1,800 in-lb
Best 486:1	0 to 2	194,400	.00185"	18,000 in-lb	6,000 in-lb

Torque is more than enough to mill steel with a Ø1.000 cutter. Top speed of 6,000 motor half-steps/sec used in table, speed may be higher. Weight is 145 pounds, ships in 2-3 boxes.



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MRT12 Rotary Table