

# PORTABLE RAIL MILL

MACTECH OFFSHORE PORTABLE MACHINING SOLUTIONS

## Subsea or Topside Milling, Drilling and Boring

Mactech's line of Portable Rail Mills are suitable for pipe or vessel window cutting, base and motor pad milling and deck cutting in subsea or topside applications. Mactech's Portable Rail Mills come in a selection of lengths to provide you with uninterrupted axial cutting, or we can design a custom length for your application. The universal One Key Mill Head allows tooling to be easily interchanged with a Mactech drill or Roto-Mill. Our powerful rare earth magnet attachments make installation to flat, round or tapered surfaces quick and easy. The Portable Rail Mill is a versatile, dependable and powerful unit capable of close tolerance machining for your subsea or topside applications.



### Mactech Portable Rail Mill Models:

- 48 inch Manual and Hydraulic Feed
- 72 inch Manual and Hydraulic Feed
- 96 inch Manual and Hydraulic Feed

Custom lengths and configurations available by request.



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## GENERAL INFORMATION

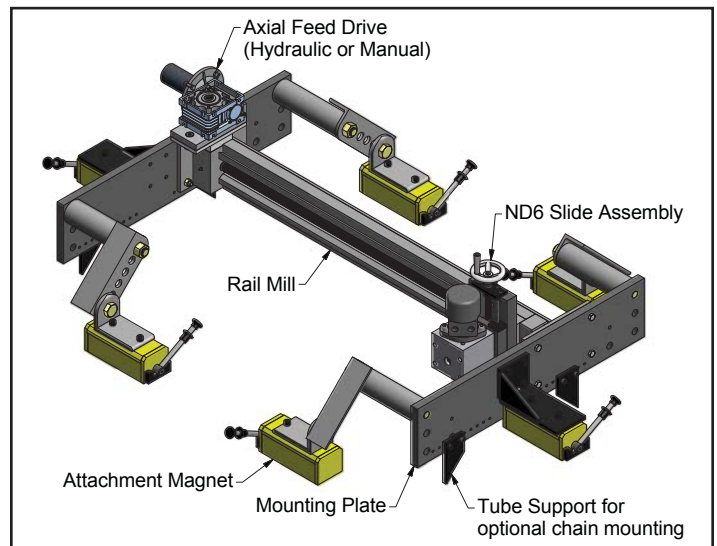
Each Mactech Portable Rail Mill comes complete with:

- Hydraulic or Manual drive
- All required hand tools
- Gang box for machine storage
- Operating manual with parts list

*Our Marine Services division in Lafayette, LA, on the Gulf of Mexico, provides factory-certified technicians and a fully stocked inventory of products and parts. Contact us at 337-839-3180.*



**Portable Rail Mill with Strap Attachment**



**Portable Rail Mill Components**



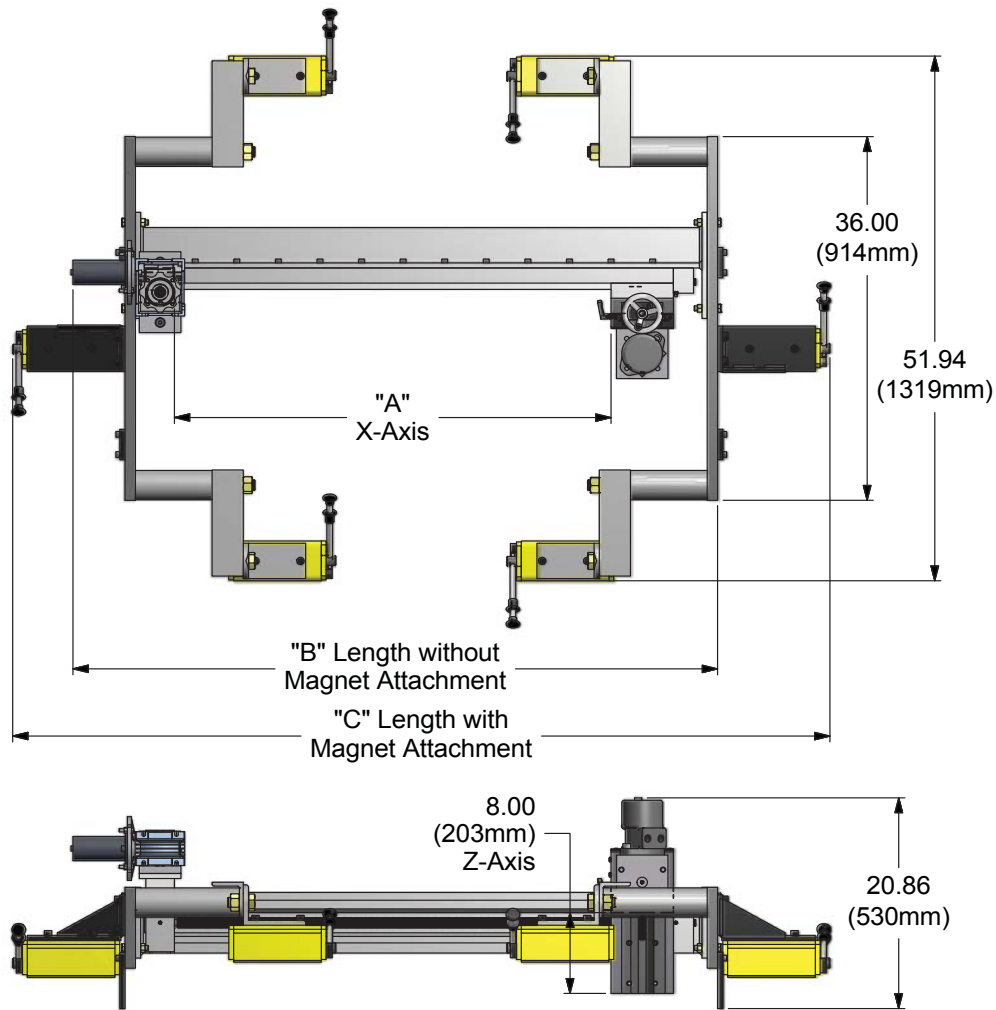
**Options:**

- Strap attachment with pipe saddles



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## PORTABLE RAIL MILL DIMENSIONS

Model	Dimension "A" X-Axis	Dimension "B" Length without Magnet Attachment	Dimension "C" Length with Magnet Attachment	Operating Weight	Palletized Shipping Weight
48 inch Hydraulic Drive	42 inches (1067mm)	62 inches (1575mm)	78.62 inches (1997mm)	792 lbs (359kg)	867 lbs (393 kg)
72 inch Hydraulic Drive	66 inches (1676mm)	86 inches (2184mm)	102.62 inches (2607mm)	889 lbs (403kg)	964 lbs (437kg)
96 inch Hydraulic Drive	90 inches (2286mm)	110 inches (2794mm)	126.62 inches (3216mm)	978 lbs (444kg)	1053 lbs (478kg)



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## SPECIFICATIONS

**X-Axis Feed Slide:** Precision machined lead screw, dovetail ways, adjustable gibs, 6x6 (152x152mm) saddle, fixed stops.

**Z-Axis Feed Slide:** Precision machined lead screw, dovetail ways, adjustable gibs, balanced handwheel, micrometer dial, 6x6 (152x152mm) saddle.

**Feed Rate, Z-Axis:** 0 to 2.6 inches/min (0 to 66mm/min) with hydraulic drive.

### **Axial Feed Hydraulic Motor:**

**Max Speed:** 393 RPM at Continuous Flow

**Flow:** 5.5 GPM (21 lpm) Continuous

**Displacement:** 3.00 in<sup>3</sup> (50cc)

**Torque:** 549 lb-in (62Nm) Continuous

**Pressure - Continuous:** 1400 PSI (97 bar)

**Pressure - Peak:** 2175 PSI (150 bar)

**Milling Head Assembly:** The milling head assembly is mounted on a vertical feed slide saddle (Z-Axis) with a high-strength block. The milling head feeds toward the workpiece and accepts a range of standard tooling components.

### **Mill Head Drive Motor:**

**Max Speed:** 475 RPM at Continuous Flow

**Flow:** 15.9 GPM (60 lpm) Continuous

**Displacement:** 9.51 in<sup>3</sup> (155.4cc)

**Torque:** 2780 lb-in (314Nm) Continuous

**Frame:** Steel frame with adjustable magnet attachment mounts and adjustable pipe saddles.

**Attachment Magnets:** Lever actuation with safety latch. Up to 1,100 lbs (499kg) holding capacity on flat surface, 550 lbs (249kg) on round surface, 3x safety coefficient.

