



MAJESTIC MACHINERY INC.

13731 Proctor Avenue, City of Industry, CA 91746

Phone: 626-336-2350 Fax: 626-336-2890



The RIGHT machine at the RIGHT price

CNC Knee Mill Retrofit Kits

The Majestic Machinery CNC Knee mill retrofit kits are designed to fit Bridgeport and import mills alike. Some minor modifications are occasionally required and assembly takes about 7 hours. Please feel free to call and have us customize a kit for your machine.



4 Axis kit shown



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Aluminum castings, thrust bearings, belts, pulleys and hardware included.



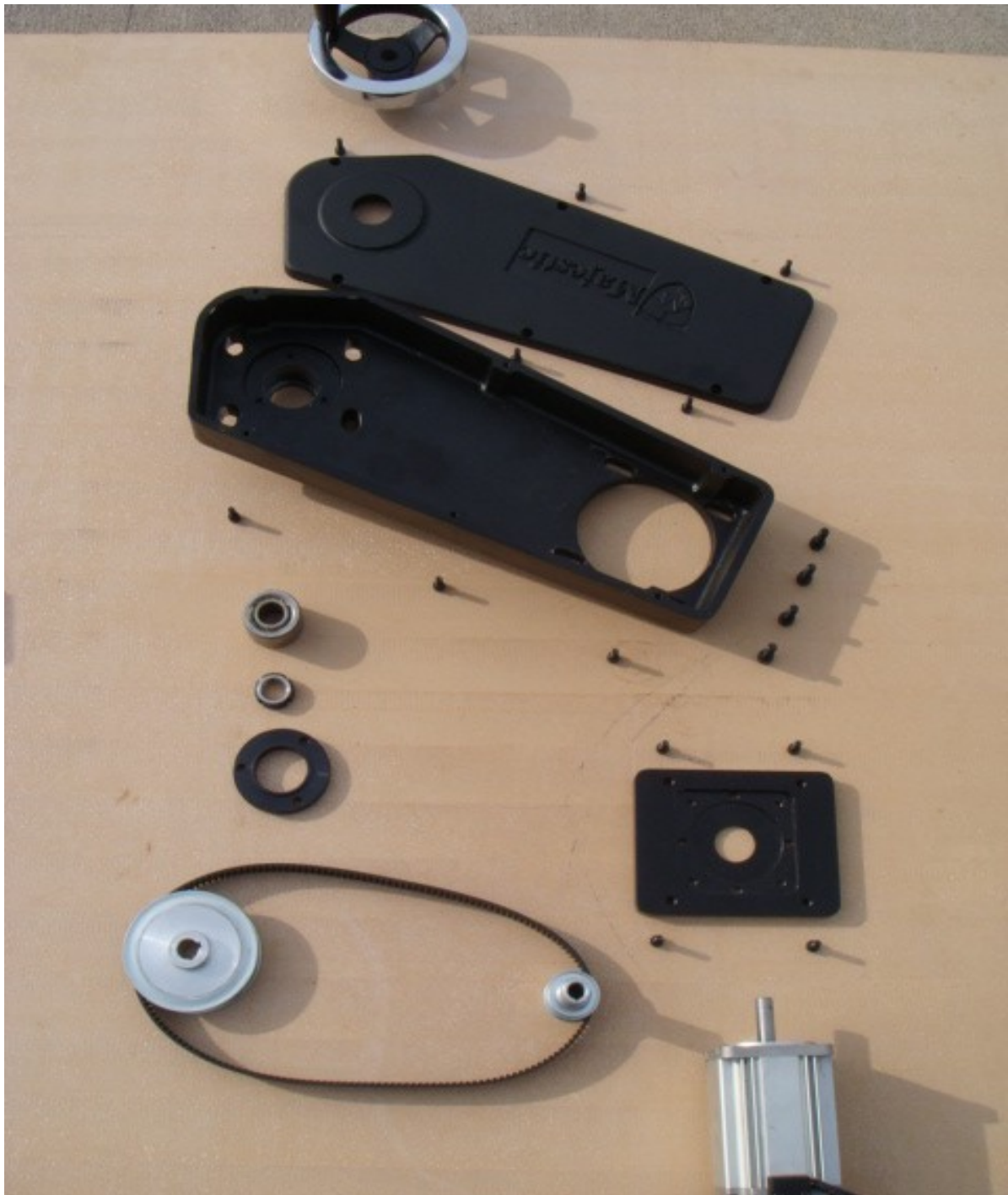
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Y axis Bracketry



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X axis Bracketry



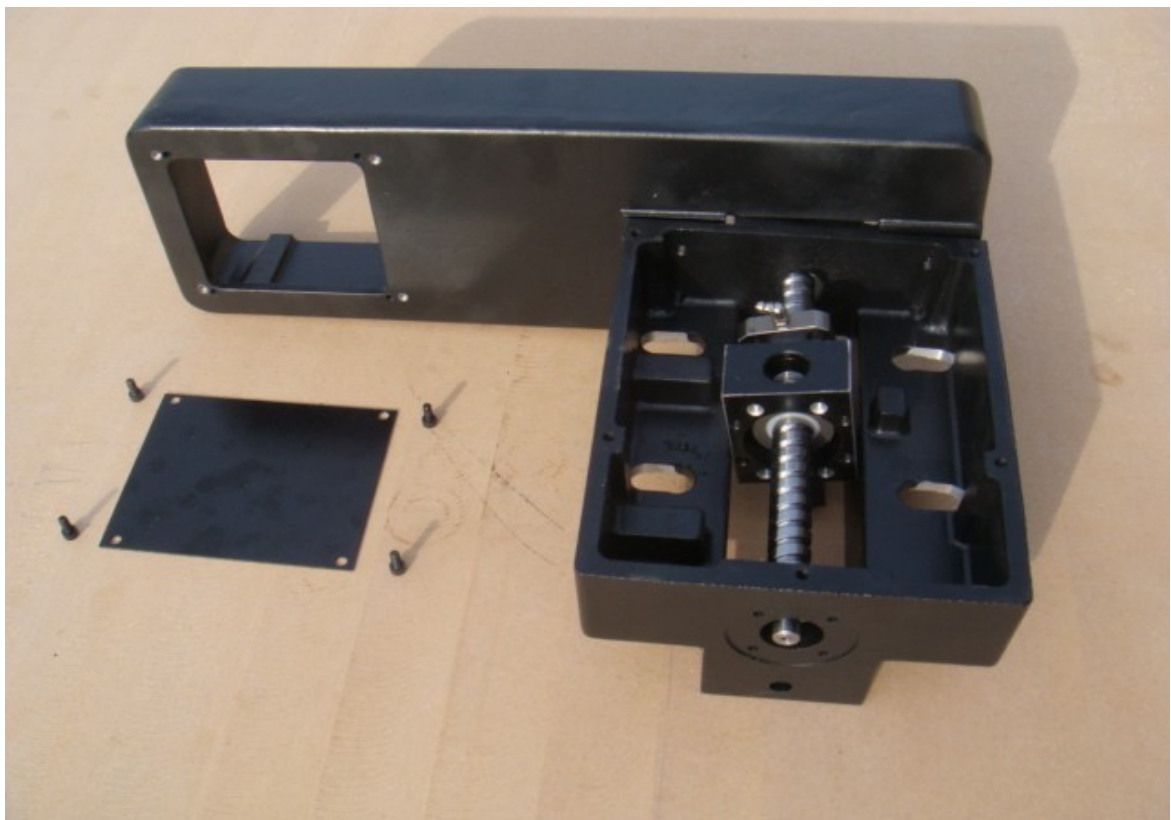
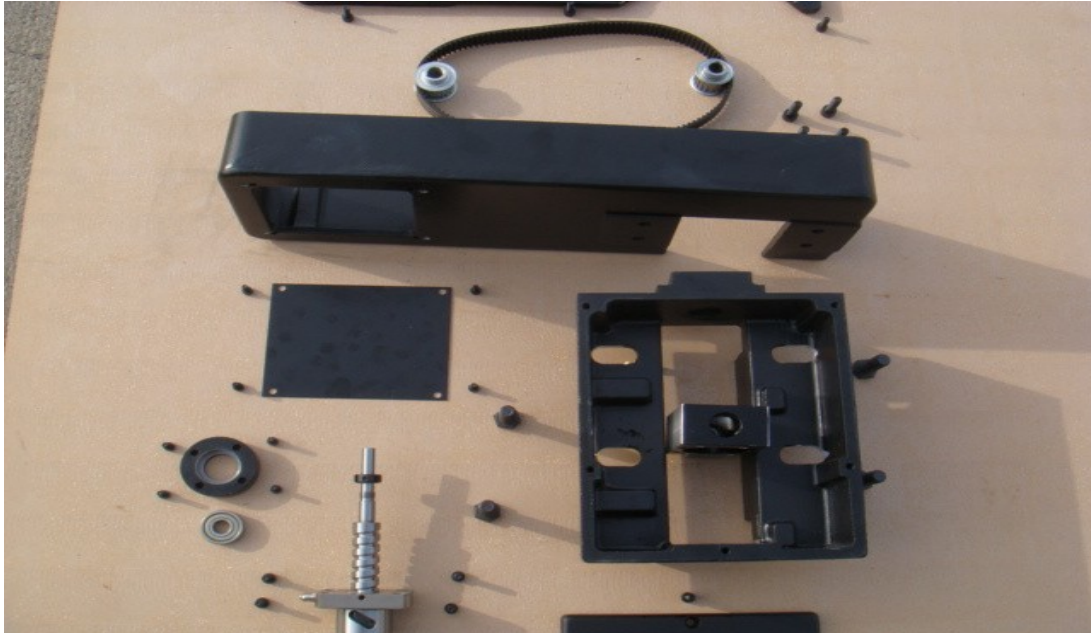
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Z Axis Bracketry



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Standard Mechanical Hardware

What is included :

1. X axis – (2) cast aluminium housings, (1) set of angular contact thrust bearings, (1) Timing Belt, (2) Pulleys, Motor plate (machined to your choice of motor mounts), Bearing nut and lock plate.
2. Y axis - (2) cast aluminium housings, (1) set of angular contact thrust bearings, (1) Timing Belt, (2) Pulleys, Motor plate (machined to your choice of motor mounts), Bearing nut and lock plate.
3. Z Axis - (4) cast aluminium housings, (1) set of angular contact thrust bearings, (1) ball bearing for lower end of ball screw.(1) Timing Belt, (2) Pulleys, Motor plate (machined to your choice of motor mounts), Bearing nut and lock plate.**(1) Ball screw** and ball screw yoke.

Price for a 2 axis kit including items 1 and 2	\$1,850.00
Price for a 3 axis kit including items 1,2 and 3.....	\$2,700.00

Ball Screws

Your choice of double nut, single nut, rolled or ground ballscrews. The Z axis Ball screw is included in the hardware section.

Sizes are determined by mill size. Please call for current pricing.

Example of a 10" x 54" X and Y ball screw (ground) is \$2,100.00 at todays prices (Feb 2012)
 (Rolled) Double nut....." ".....\$1,250.00

Axis Motors

Option "A"

AC Servo Motor Set – Majestic Machinery 1 HP (750W)Price each set.....\$849.00
 Set includes AC Servo Module (Drive), AC Servo motor, 2,500 line count encoder with quadrature = 10,000 pulse count per revolution, Power and encoder cables from module to servfo motor. Also included is AC servo tuning software.

Option "B"

1,100 oz/in Torque Stepper motor sets – Majestic Machinery 3TP Nema 34.....\$390.00
 Set includes AC input Stepper Driver with Nema 34 Stepper Motor and power cable from Drive to motor.

Opion "C"

Use your existing motors. They must be able to use pulse (step) and direction inputs. CW and CCW format is not supported.



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CNC Motion Control Hardware

We exclusively use Industry Controls CNC software and motion control hardware.



MCB Encoder Feed Back Control Board



Scorpion Ethernet Motion Control Board

Your choice of hardware to run - Hardware comes with a licensed copy of Industry Controls professionally Software installed.

MCB-1 USB to RJ485 motion control with encoder feed back for Servo Motors up to 4 axis and analog spindle control. Encoder feed back for 4 motors plus spindle encoder.....**\$1,495.00**

Scorpion Ethernet motion control up to 6 axis including a spindle.....**\$ 880.00**



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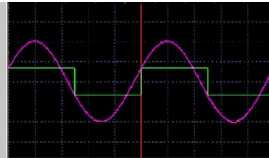
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Complete
Motion Control
Solutions



www.industrycontrols.com

Industry Controls® CNC Control Specifications

Simple to use
User friendly

6 axis plus spindle capable
Windows operating system

PC Based
Tool Path Graphics

Conversational Style
Programming

limited

Allows “fill in the blank” on board
programming

EIA (standard G and M code)
Programming

unlimited

Accepts G and M code
programming

Standard Functions:

But not limited to

(250) Work coordinate offsets

(250) Tool Length Offsets

Tool Cutter Compensation

G01 Linear Interpolation

G02 Clockwise & Helical
Interpolation

G03 Counter Clockwise & Helical
Interpolation

G04 - Dwell

3D Plane Select G17, G18, G19

G20 - G21 Inch / Millimeter

G28 - Reference Home

G31 Probing

G40 – G42 Tool Compensation

G43 Height Offset

G50 – Scale factor reset

G53 Machine Coordinates

G61 – High Speed Machining

G64 – Exact stop / Precision
Machining

G68 Coordinate System Rotation

BONUS

A licensed seat of BobCad V21 for cad drawing and posting G code comes standard with a retrofit kit.
A \$1,400 value is NO CHARGE !!





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All in 1 PC and mounting arm

All in 1 PC includes windows 7, 17" touch screen, dual core Intel processors, 300G HDD, mouse, keyboard, RJ485, RS232, 5 USB-2 ports, speakers and all software completely installed.

Mounting arm – available for bed mill or knee mill with adjustable height.

Optional Accessories

All in one PC	\$850.00
Adjustable PC mounting arm	\$120.00
Limit Switches	\$80.00
Electrical Cabinet, Pre wired to house MCB-1 and 3 Servo drives and I/O terminal block	\$325.00
Electrical Cabinet, Pre wired to house Scorpion and 3 Servo drives and I/O terminal block	\$275.00
Touch probe for Automatic tool length measurement	\$400.00
Removable MPG (Manual Pulse Generator) USB type	\$200.00
On site installation service on your machine available on a case by case basis.	\$