



WELDING &  
POSITIONING

# ***MD SERIES***

TILT/TURN /ROTATE WELDING POSITIONER



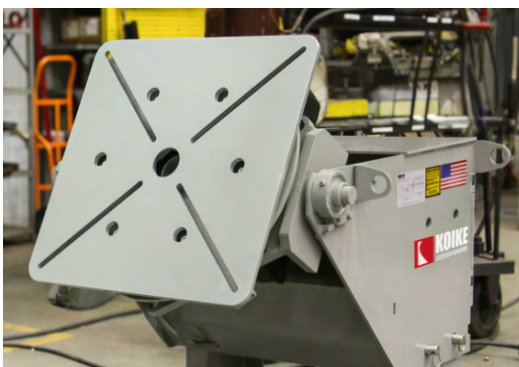
**SIMPLY BETTER BUILT.**





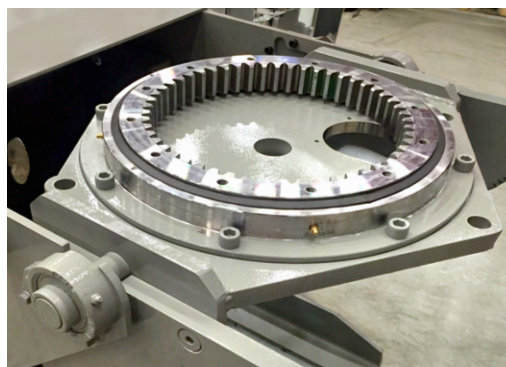
## Mid-Range Footprint. Large-Scale Performance.

Built with the same quality and workmanship as our larger HD line, the MD Series positioners deliver an ideal balance of performance and affordability, supporting a wide range of load capacities within a mid-range footprint. Fully engineered and manufactured in the U.S.A., the MD Series utilizes readily available components and incorporates intuitive features that enhance workflow efficiency such as thru-holes for purge access, a 550 amp sliding ground shoe, and a manual height-adjusting base.



### Versatile Powered Tilt

Features powered tilt capabilities up to 135° through the use of variable frequency drive controlled AC brake motors with built-in over-travel protection.



### Robust Internal Geared Slew Rings

Internal geared slew ring ensures smooth motion throughout the entire rotation axis, significantly enhancing performance with consistent and controlled rotation.



### NEMA-12 Electrical Enclosure

Fitted with a dust-tight NEMA-12 electrical enclosure to safeguard electronics from harsh factory environments.

**SIMPLY BETTER BUILT.**



## ADDITIONAL STANDARD EQUIPMENT:

### ▪ Manual Pin-Through Post System

Pin-through post adjustment enables easy and precise regulation of the workpiece height for various tasks.

### ▪ Low Voltage Hand Control Pendant

Dust-tight, low voltage hand control pendant delivers precise tilt, rotation, and variable speed drive operation. Remote comes standard with a built in E-STOP and 20' power cable.

### ▪ Purpose-Built Table Design

Solid square work table includes radial T-slots and a 2" thru-hole for purge routing; includes a 2-3/4" pilot for precise part location.



*Pin-Through Post System*



*Low Voltage Hand Pendant*

## OPTIONAL EQUIPMENT:

### ▪ Variable Diameter Tachometer HMI

Touchscreen HMI pendant communicates with VFD drives to display real-time RPM and linear rotational surface speed, with the ability to input exact speed targets. Improves accuracy, and operator convenience during setup and welding.

### ▪ Radio-Controlled Pendant

Wireless radio pendant provides real-time diagnostics and full tilt/rotation control without tethered cables, offering a greater range of operator movement and reduced trip hazards.



*Variable Diameter Tachometer HMI*

### ▪ Welding Chucks & Grippers

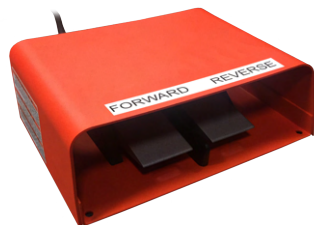
Durable welding chucks and grippers designed to streamline setups, improve secure weld alignment, and handle a wide range of part diameters.



*Radio-Controlled Pendant*

### ▪ Diverse Foot Switch Options

A wide range of foot-operated control offerings including **wireless**, **variable-speed**, and **directional pedals** provide hands-free operation and improved mobility tailored to your workflow.



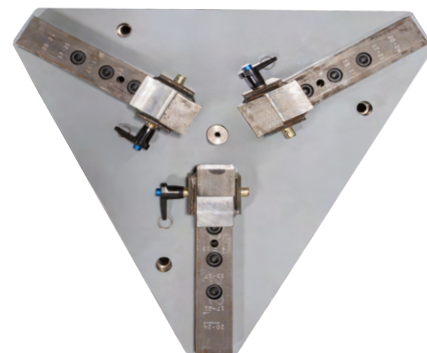
*FWD/REV Foot Switch*



*Foot Speed Control (FSC) Switch*



*Wireless Foot Switch*

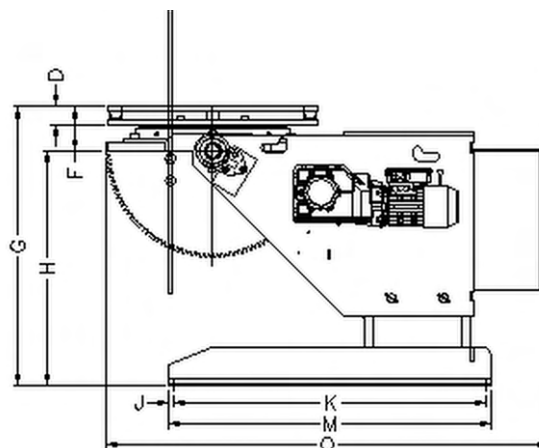
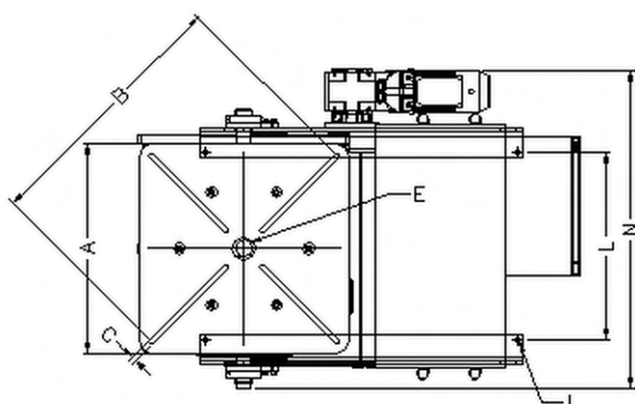


*Welding Chuck With Grippers*

SIMPLY BETTER BUILT.

MODEL	MD15	MD30	MD50
Tilt: Load Torque lb-in (N.m)	13,500 (1,525)	34,500 (3,897)	67,500 (7,626)
Rating lb (kg) @ 4 in (101mm) CG Height	1,500 (680)	3,000 (1,361)	5,000 (2,268)
Rating lb (kg) @ 6 in (152mm) CG Height	1,230 (558)	3,000 (1,361)	5,000 (2,268)
Rating lb (kg) @ 12 in (304mm) CG Height	795 (360)	1,970 (894)	3,860 (1,750)
Rating lb (kg) @ 18 in (457mm) CG Height	590 (267)	1,470 (667)	2,870 (1,302)
Rating lb (kg) @ 24 in (609mm) CG Height	465 (211)	1,170 (531)	2,290 (1,039)
Rating lb (kg) @ 30 in (762mm) CG Height	385 (175)	970 (440)	1,900 (862)
Rating lb (kg) @ 36 in (914mm) CG Height	330 (149)	830 (377)	1,630 (739)
Rotation: Load Torque lb-in (N.m)	6,000 (677)	15,750 (1,780)	40,000 (4,519)
Rating lb (kg) @ 4 in (101.6mm) Eccentric	1,500 (680)	3,000 (1,361)	5,000 (2,268)
Rating lb (kg) @ 6 in (152mm) Eccentric	1,000 (454)	2,625 (1,193)	5,000 (2,268)
Rating lb (kg) @ 8 in (203mm) Eccentric	750 (340)	1,968 (893)	5,000 (2,268)
Tilt Speed: Time Frame to Reach 135°	22 Sec.	50 Sec.	40 Sec.
Tilt Motor Horse Power	1/4 HP	0.5 HP	1 HP
Rotation: Speed Range AC Drive	.23 - 2.3 RPM	.20 - 2.0 RPM	0.20 - 2.0 RPM
Rotation Motor Horse Power	1/4 HP	1 HP	1.5 HP
Pendant Cable Length	20 ft	20 ft	20 ft
A: Table Size (mm)	24 in x 24 in. (609 x 609)	30 in. x 30 in. (762x 762)	36 in x 36 in. (914 x 914)
B: Maximum Clamping Diameter (mm)	30 in. (762)	38 in. (965)	47 in. (1,194)
C: Number of Slots and Width (mm)	(4) 9/16 in. (14)	(4) 9/16 in. (14)	(4) 13/16 in. (21)
Number of Table Nuts and Thread	(4) ½ -13	(4) ½ - 13	(4)-¾ - 10
D: Table Thickness (mm)	1-½ in. (38)	1-¾ in. (44)	1-¾ in. (44)
E: Pilot Hole and Depth (mm)	2-¾ in. x ½ in. (70 x 13)	2-¾ in x ½ in. (70 x 13)	2-¾ in. x ½ in. (70 x 13)
F: Inherent Overhang (mm)	5 in. (127)	5-½ in. (140)	5-½ in. (140)
Slew Ring Diameter (mm)	13-¾ in. (337)	13-¾ in. (337)	18 in. (457)
Through-hole Diameter (mm)	2 in. (51)	1-3/8 in. (35)	2 in. (51)
Weld Current Conduction - Single Ground Shoe	550 Amps	550 Amps	550 Amps
G: Table Flat, Minimum Height (mm)	32 in. (813)	32-½ in (826)	32-½ in. (826)
Lift Stroke in 4in. Increments (mm)	12 in. (305)	12 in. (305)	12 in. (305)
Table Flat, Maximum Height (mm)	44 in. (1118)	44-½ in. (1130)	44-½ in. (1130)
H: Rotation Axis, Minimum Height (mm)	27 in. (686)	27 in. (686)	27 in. (686)
Rotation Axis, Maximum Height (mm)	39 in. (991)	39 in. (991)	39 in. (991)
I: Tie Down Hole Size (mm)	(4) 9/16 in. (14)	(4) 13/16 in. (21)	(4) 13/16 in. (21)
J: Front Mounting hole location (mm)	¾ in. (19)	¾ in. (19)	1 in. (25)
K: Rear mounting hole location (mm)	34-½ in. (876)	39-½ in. (1003)	45-¾ in. (1,162)
L: Mounting hole width (mm)	21-¾ in. (552)	23-¾ in. (603)	28-¾ in. (730)
M: Overall base length (mm)	36 in. (940)	41 in. (1041)	47 ¾ in. (1,213)
N: Overall machine width (mm)	36-½ in. (927)	43 in. (1092)	52 in. (1,321)
O: Overall machine length (mm)	50-½ in. (1283)	58-¾ in. (1480)	68 in. (1,727)
Approximate weight lbs. (kg)	865 lb. (392)	1440 lb. (653)	3170 lb. (1438)
Standard Primary Voltage	115/1/60	115/1/60	460/3/60
Shipping Weight (kg)	1,000 lb (454)	1,700 lb (771)	5,000 lb (1,360)

\*Specifications are subject to change without notice. All dimensions are for reference only.



**SIMPLY BETTER BUILT – FOR OVER 100 YEARS.**

OUR STRICTLY CONTROLLED MANUFACTURING AND PRODUCTION PROCESSES ENSURE WE HAVE THE HIGHEST-QUALITY MACHINES WITH THE MOST RELIABLE PERFORMANCE. WE COLLABORATE WITH OUR CUSTOMERS TO PRODUCE THE RIGHT MACHINE FOR THEIR NEEDS WITHIN A RANGE OF BUDGETS.



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