



WELDING &  
POSITIONING

# ***MD-HTS-PE***

POWER ELEVATING HEAD AND TAILSTOCK



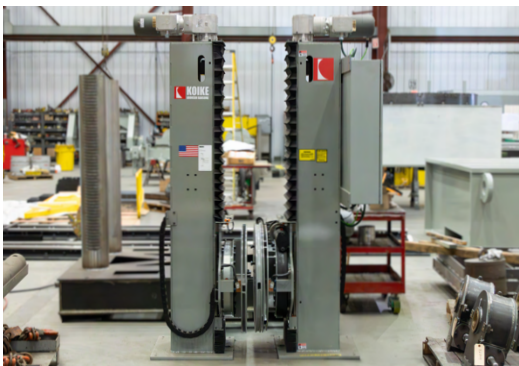
SIMPLY BETTER BUILT.





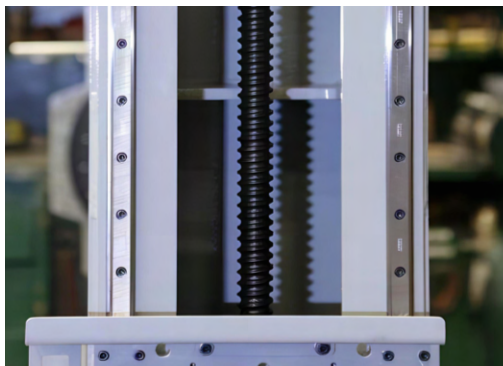
## THE ULTIMATE COMPACT, HIGH-CAPACITY HEAD & TAILSTOCK

Made in the USA, the MD series Power Elevating Head and Tailstock provides the same premium features found in all Koike Aronson positioners in a compact package ideal for limited spaces. It features a robust single-post design that optimizes floor utilization, precision linear way guidance, electrically driven rotation and elevation axes with precise AC VFD controls, PLC fault monitoring, synchronized closed-loop encoded elevation, integrated mounting table, and a 500 Amp sliding weld ground shoe.



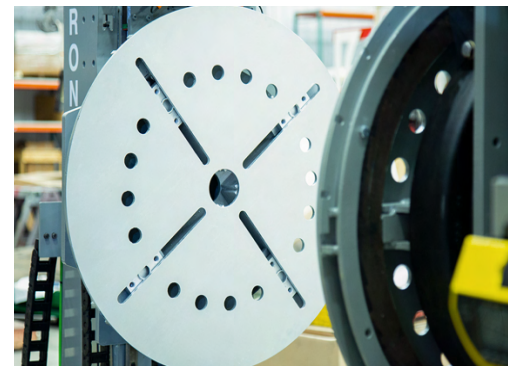
### Compact Single-Post Design

Compact Single-Post Head and Tailstock design optimizes floor space utilization, making it suitable for all shop environments without compromising functionality.



### Linear Way Precision Guidance

High-capacity linear way guidance ensures precision throughout the entire elevation range, significantly enhancing performance consistency and reliability.



### Fabricated Mounting Table

Features integrated mounting slots and a robust 500 Amp sliding weld ground shoe on both Head and Tailstock for versatile and reliable operation.

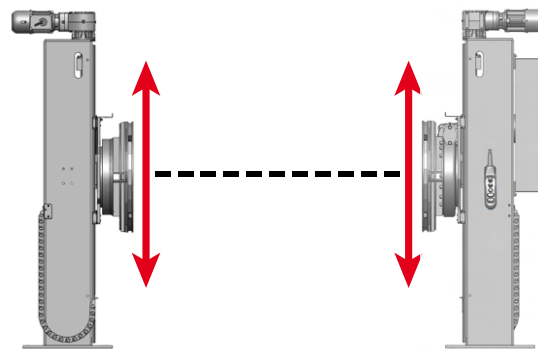
## SIMPLY BETTER BUILT.



## ADDITIONAL STANDARD EQUIPMENT:

### ▪ Synchronized Electrically Driven Elevation Axes

Electrically driven rotation and elevation axes feature AC VFD control, encoders, PLC-monitored fault protection, and closed-loop synchronized elevation with  $\pm 0.05$ " accuracy per 1,000 inches.



*Synchronized Elevation Axes*

## OPTIONAL EQUIPMENT:

### ▪ Tailstock Mobile Sub-Base

Provides quick table to table adjustments to easily accommodate parts of varying lengths. Manual and powered versions available.

### ▪ Flex Plate Fixturing Table

Offers flexible machine connection to protect against misalignment and thermal expansion alignment issues.

### ▪ Linear Way Covers

Composed of technical textile fibers, these Accordion-Style Linear Way Covers provide ample protection for linear ways and ball screws to protect from dust, debris, and harsh contaminants for optimal performance and longevity.

### ▪ Safety Laser Scanner

Optional Safety Laser Scanner delivers advanced personnel protection and area monitoring. Featuring a wide 8.4-meter detection range, 275° detection angle, and user-configurable safety zones, it enhances shop floor safety without compromising workflow. Its intuitive interface and robust IP65/IP67-rated housing make it ideal for any harsh industrial environments where maximizing protection and uptime is critical.



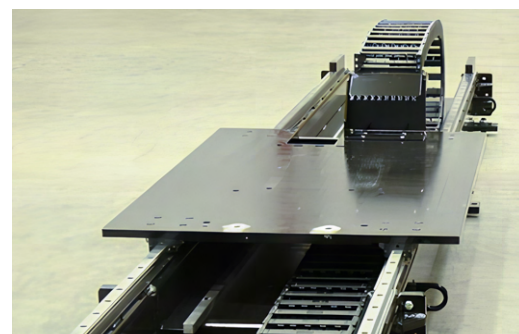
*Optional Safety Laser Scanner*



*Optional Flex Plate Fixturing Table*



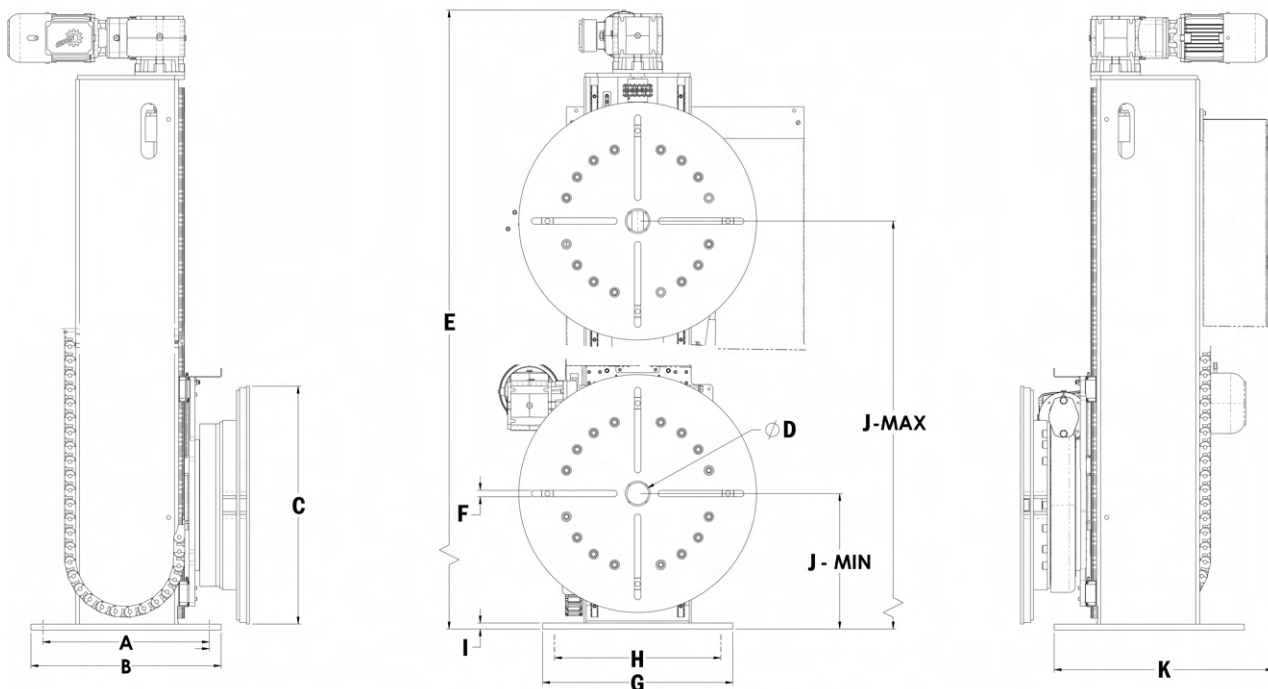
*Optional Linear Way Covers*



*Optional Mobile Sub-Base*

SIMPLY BETTER BUILT.

| MODEL                                                                                                                                       | MD-HTS5-PE                                            | MD-HTS10-PE                                                 | MD-HTS15-PE                                              | MD-HTS20-PE                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|
| Load Capacity, lb<br>(Max. Between Head & Tailstock)                                                                                        | 5,000 lb                                              | 10,000 lb                                                   | 15,000 lb                                                | 20,000 lb                                                    |
| Overhung Load<br>6" CG Height<br>on either or both<br>12" CG Height<br>Head or Tailstock<br>18" CG Height<br>24" CG Height<br>30" CG Height | 2,500 lb<br>1,250 lb<br>833.33 lb<br>625 lb<br>500 lb | 5,000 lb<br>2,500 lb<br>1,667.66 lb<br>1,250 lb<br>1,000 lb | 7,500 lb<br>3,750 lb<br>2,500 lb<br>1,875 lb<br>1,500 lb | 10,000 lb<br>5,000 lb<br>3,333.33 lb<br>2,500 lb<br>2,000 lb |
| Rotation: Torque, in-lb                                                                                                                     | 30,000                                                | 60,000                                                      | 90,000                                                   | 120,000                                                      |
| Rotation Speed, rpm                                                                                                                         | .1-1.0                                                | .1-1.0                                                      | .1-1.0                                                   | .1-1.0                                                       |
| Pendant Cable Length                                                                                                                        | 20'                                                   | 20'                                                         | 20'                                                      | 20'                                                          |
| Ground Cable (amps)                                                                                                                         | 500                                                   | 500                                                         | 500                                                      | 500                                                          |
| A: Mounting Holes                                                                                                                           | 19"                                                   | 21"                                                         | 21"                                                      | 27"                                                          |
| B: Base Plate                                                                                                                               | 22"                                                   | 24"                                                         | 24"                                                      | 30"                                                          |
| C: Table Size                                                                                                                               | 30" DIA                                               | 30" DIA                                                     | 48" DIA                                                  | 48" DIA                                                      |
| D: Through Hole                                                                                                                             | 2.75"                                                 | 2.75"                                                       | 5"                                                       | 5"                                                           |
| E: Overall Height                                                                                                                           | 91(1/2)"                                              | 91(1/2)"                                                    | 106"                                                     | 109"                                                         |
| F: Number of Slots and Width                                                                                                                | 4 (13/16)"                                            | 4 (13/16)"                                                  | 4 (1-1/8)"                                               | 4 (1-1/8)"                                                   |
| G: Base Plate                                                                                                                               | 23"                                                   | 24"                                                         | 24"                                                      | 30"                                                          |
| H: Mounting Holes                                                                                                                           | 19"                                                   | 21"                                                         | 21"                                                      | 27"                                                          |
| I: Base Plate Thickness                                                                                                                     | 1 1/2"                                                | 1 1/2"                                                      | 1 1/2"                                                   | 1 1/2"                                                       |
| J: CL Height Range<br>IPM Elevation                                                                                                         | 15.75"-63.75"<br>(32 IPM Elevation)                   | 15.5"-63.5"<br>(30 IPM Elevation)                           | 26"-74"<br>(30 IPM Elevation)                            | 27"-75"<br>(30 IPM Elevation)                                |
| K: Overall Length                                                                                                                           | 27(1/2)"                                              | 29(5/8)"                                                    | 29(5/8)"                                                 | 34 (1/4)"                                                    |
| Approx. Weight (Headstock) lbs                                                                                                              | 1800 lb                                               | 1800 lb                                                     | 2600 lb                                                  | 2600 lb                                                      |
| Approx. Weight (Tailstock) lbs                                                                                                              | 1260 lb                                               | 1260 lb                                                     | 2000 lb                                                  | 2000 lb                                                      |
| Standard Voltage                                                                                                                            | 480/3/60                                              | 480/3/60                                                    | 480/3/60                                                 | 480/3/60                                                     |



**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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