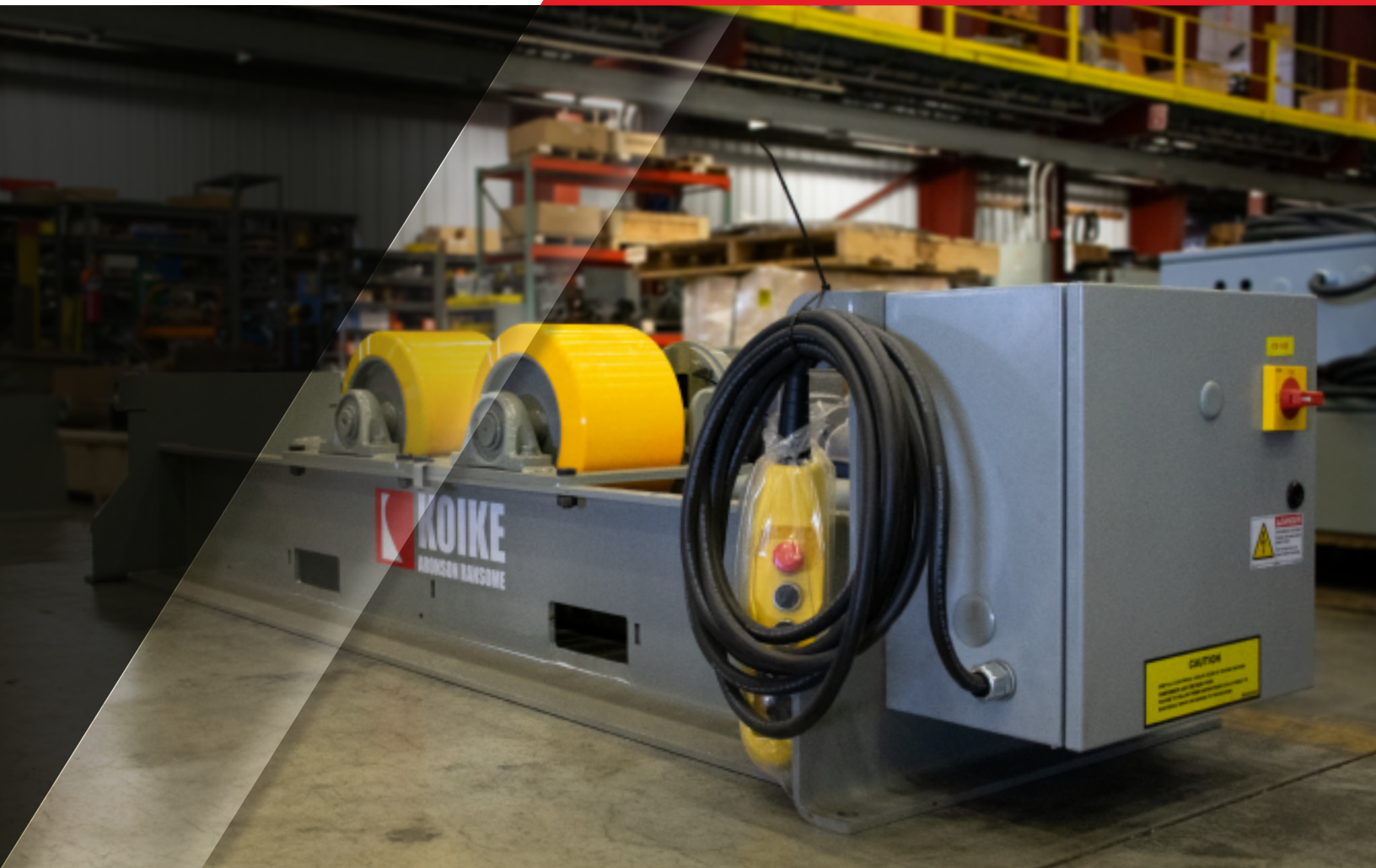




WELDING &  
POSITIONING

# ***MRD/MRI SERIES***

TURNING ROLLS

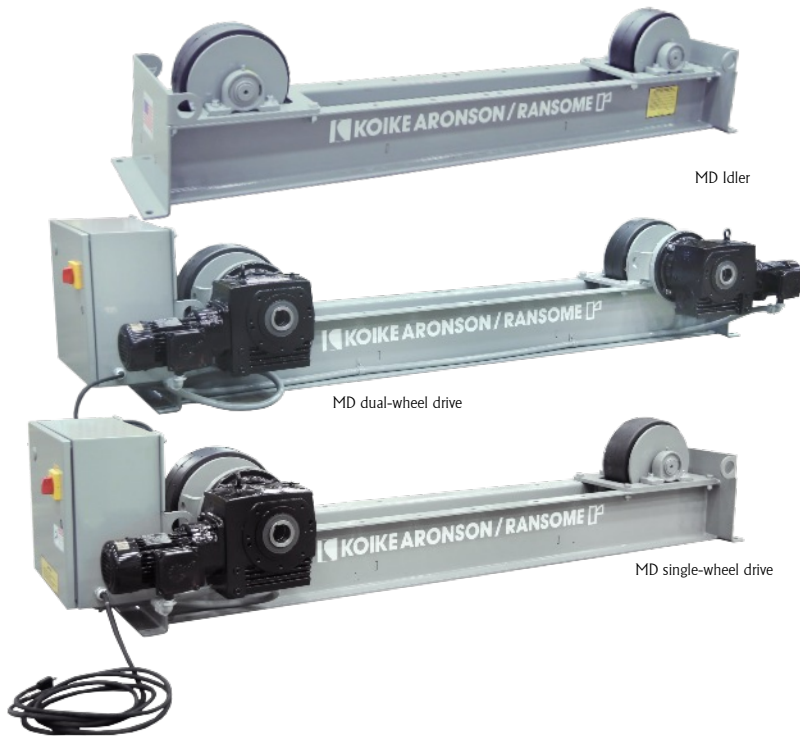


**SIMPLY BETTER BUILT.**



# MRD Series

## 5 Ton through 20 Ton Capacity



The MD series Turning Rolls have been designed with a budget in mind. The MD line comes standard in a constant centerline configuration and a single wheel drive. Optional dual wheel drive can be factory installed or added at a later date by the customer, doubling the tractive pull provided.

The entire series features rubber tires with overload discs on each wheel as in our standard turning roll lines. Individual gear motors eliminate the need for drive shafts and make centerline setting adjustment quick and easy. All models come standard with a 20 foot hand pendant for control and the availability of a wide variety of options.

All Koike Aronson Inc. Positioning equipment is completely manufactured and engineered in the U.S.A. utilizing all readily available components.

**Capacities from 10,000 to 60,000 pounds**



**KOIKE ARONSON, INC. / RANSOME**

## Features

- Rubber tires
- NEMA 12 Electricals
- Constant Center-line
- Wide diameter range
- Low voltage hand control pendants
- Variable speed drives
- Single or dual wheel drive\*
- 2 Year machine warranty
- 5 Year Variable Frequency Drive warranty



**Standard hand pendant provided with all models**

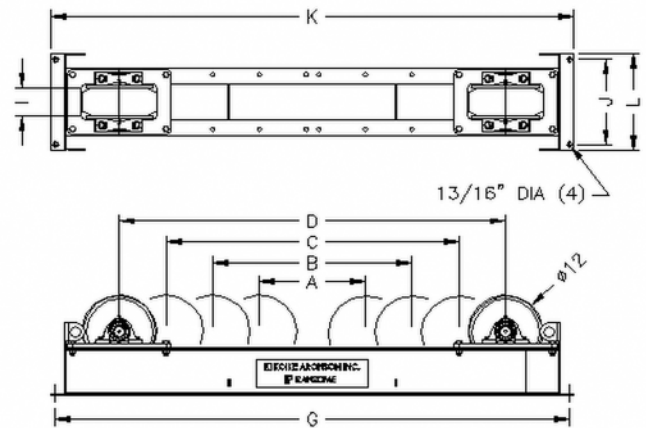
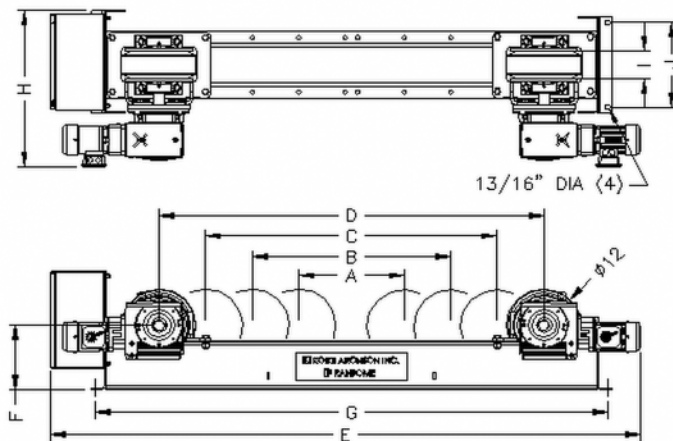
\* It is highly recommended to choose dual wheel drive (DWD). Please consult factory for further details.

# SPECIFICATIONS

## MRD5-CCL / MRD10-CCL / MRD20-CCL

	MRD5-CCL / MRI5-CCL	MRD10-CCL / MRI10-CCL	MRD20-CCL / MRI20-CCL
Capacity Per Unit	5,000 lb (2-½ Ton)	10,000 lb (5 Ton)	20,000 lb (10 Ton)
Capacity Driver/1 Idler	10,000 lb (5 Ton)	20,000 lb (10 Ton)	40,000 lb (20 Ton)
Capacity Driver/2 Idler	15,000 lb (7-½ Ton)	30,000 lb (15 Ton)	60,000 lb (30 Ton)
Standard Diameter Range	6 in - 13 ft	6 in - 13 ft	6 in - 13 ft
Speed Range, IPM	1 - 40 IPM	1 - 40 IPM	1 - 40 IPM
Horse Power	(2) .125 Hp	(2) .25 Hp	(2) .33 Hp
Tractive Pull (lb) (Single Wheel Drive)	500 lb	800 lb	1,000 lb
Tractive Pull (lb) Optional (Dual Wheel Drive)	1,000 lb	1,600 lb	2,000 lb
Wheel Diameter	12 in	12 in	12 in
Dim 'A' Center Distance Diameter Range	17 in 6 - 36 in Dia. Range	17 in 6 - 36 in Dia. Range	17 in 6 - 36 in Dia. Range
Dim 'B' Center Distance Diameter Range	32 in 36 - 72 in Dia. Range	32 in 36 - 72 in Dia. Range	32 in 36 - 72 in Dia. Range
Dim 'C' Center Distance Diameter Range	47 in 72 - 120 in Dia. Range	47 in 72 - 120 in Dia. Range	47 in 72 - 120 in Dia. Range
Dim 'D' Center Distance Diameter Range	62 in 120 - 156 in Dia. Range	62 in 120 - 156 in Dia. Range	62 in 120 - 156 in Dia. Range
Dim E	106-½ in	106-½ in	111-½ in
Dim F	10-¾ in	10-¾ in	12-¾ in
Dim G	82-½ in	82-½ in	82-¾ in
Dim H	27 in	27 in	34-¾ in
Dim I (Rubber Width) Number of tires/axle	4-½ in 1	4-½ in 1	14-¾ in 3
Dim J	16 in	16 in	25 in
Dim K	84 in	84 in	84-½ in
Dim L	18 in	18 in	27 in
Approximate Weight Driver	950 lb	950 lb	1,600 lb
Approximate Weight Idler	450 lb	450 lb	1100 lb
Standard Voltage	115/1/60	115/1/60	115/1/60

\*\*\*All dimensions are for reference only and subject to change without notice  
CCL (Constant Center-line)



MADE IN



U. S. A.

# OPTIONS

By the nature of design and function, the majority of optional equipment for Koike Aronson / Ransome Positioners should be installed at the time of manufacture. When ordering Positioners, it is therefore important to consider all optional features and equipment.



## Radio Remote Controlled Pendant

Includes high resolution display to keep the operator informed of system status and diagnostics at all times, including battery life and signal strength. Pushbuttons feature gold-plated contacts and are rated for more than one million press cycles. The defined pushbuttons provide positive tactile feedback even while wearing gloves. Rugged, super tough nylon housing is made to withstand shock, water, heat, and harsh environments. Designed to minimize power consumption, providing one of the longest battery lives in the industry today. Ergonomically designed contoured case makes it comfortable for the user. Compact and lightweight to prevent operator fatigue, one-handed operation frees the operator to assist in other tasks. Controls include directional pushbuttons momentary or latched, proportional speed pushbuttons, rapid traverse and E-stop.



## Variable Diameter Tachometer

The independent hand held touch screen Human Machine Interface (HMI) communicates with VFD drive on the positioner, and provides real-time display of Revolutions Per Minute (RPM) and linear surface speed for the rotational axis.

Additionally, the HMI can command the rotational speed target.

The user can set the target speed as either 'work-piece' surface speed or RPM.

On the fly Speed adjustment is included.

Pressing the arrow button once will increment or decrement the current speed target by a fixed step size. Pressing and holding one of these buttons continuously will ramp the speed target up or down.

The up / down buttons will modify the speed target immediately, either when the axis is running or stopped. The speed increment step size can be adjusted to provide faster or slower speed target changes when using the up / down arrows.



FWD/ REV Switch



FSC & FPC Switch

## Foot Switch Control

With three styles of foot switches available Koike Aronson can adapt your positioner to be used in the most efficient way.

- FSC-Foot Speed control, provides variable speed control through the use of a foot switch.
- FPC-Provides On/Off foot control of the rotational axis.
- FWD/REV-Provides forward and reverse foot control of the rotational axis. (pictured above)



## Dual Wheel Drive

Optional second driven wheel provides increased tractive pull for eccentric loads. Increased turning traction for vessels with external long seam welds and uneven contact surfaces.

Option can be added direct from the factory or by the customer at a later date.



## Wireless Foot Switch

Wireless foot switch includes both variable speed and directional control with one foot. Variable speed is controlled with the main foot pedal, while a micro-switch on the side wall controls direction. Foot pedal has approximately a 60 ft range and up to 5 systems can work in the same work area without fear of interference. Battery life is estimated at 4,000 hr based on a 50% duty cycle.