



# TSUDAKOMA

## RNE Series

Superior Quality **ECONOMIC PRICING**



**DM QP**

DMG MORI QUALIFIED PRODUCT

DuraVertical 635 ECOLINE

DuraVertical 1035 ECOLINE

**KOMA**  
KOMAPRECISION.COM

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DuraVertical 635 ECOLINE

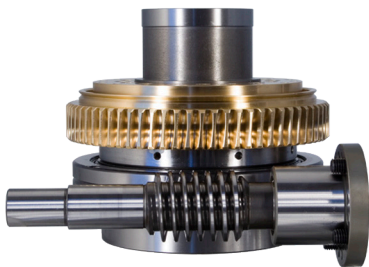


DuraVertical 1035 ECOLINE

		RNE-160R	RNE-200R
TSUDAKOMA	Table diameter (optional)   mm	(160, 200)	(200, 250)
	Maximum Table Speed   RPM	44.4	44.4
	Indexing Accuracy   Repeatability	±12   ±3.5	±10   ±3.5
	Clamp System	Pneumatic	
	Clamp torque @72psi Nm (ft. lbs.)	250 (180)	400 (295)
Machine	Travel Size X Y Z	RNE-160R	RNE-200R
DuraVertical 635 ECOLINE	25" x 20.1" x 18.1"	■	■
DuraVertical 1035 ECOLINE	40.7" x 22" x 20.1"	■	■

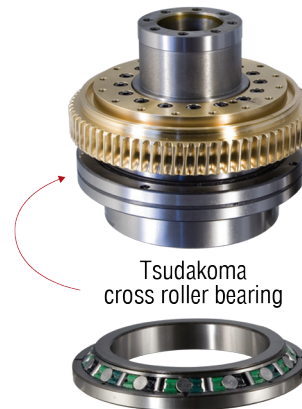
The RNE Series Rotary Table from Koma Precision, Inc. performs with high accuracy and fast indexing speed. Constructed with Tsudakoma's patented dual lead gearing system guarantees wear resistance, rigidity and the rapid speeds of this rotary table.

Tsudakoma utilizes full tooth depth engagement along with a larger gear module. The results are a larger surface contact area yielding a substantially stronger worm gear system. The Tsudakoma worm wheel uses an oversize diameter pitch circle resulting in reduced pressure on the contact surface compared to a conventional gearing system. These properties, as well as ultra precision cross over roller bearings, all work to enhance system rigidity and longevity.



### TORQUE TRANSFER EFFICIENCY

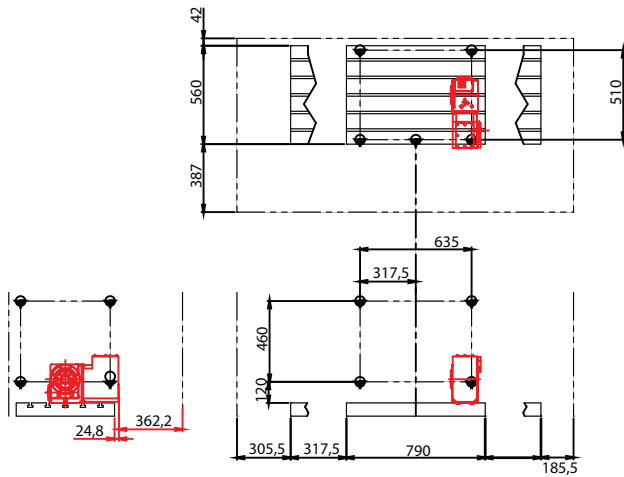
The Tsudakoma dual lead gearing system features the largest tooth engagement of any rotary table manufacturer. **This system generates up to 85% torque transfer efficiency.** Tsudakoma's dual lead gearing system features exceptionally smooth cutting due to the inherent lubricating properties of the gear materials.



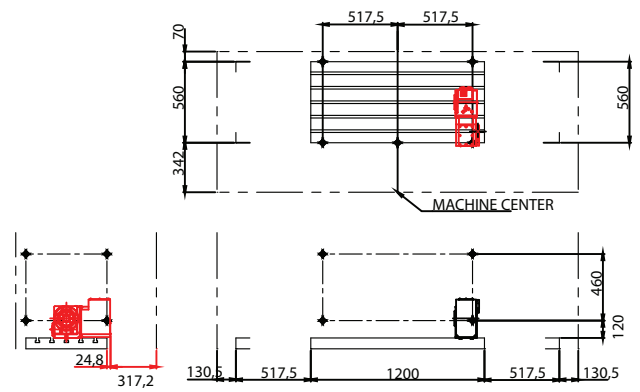
### CROSS ROLLER BEARINGS

Ultra precision cross roller bearings support radial, axial, and moment loads providing four times the level of stiffness as angular contact bearings. Cross roller bearings are constructed with a sequence of cylindrical rollers arranged at right angles to each other within a sealed 90° V-groove. All Tsudakoma rotary tables and indexers use ultra precision cross roller bearings.

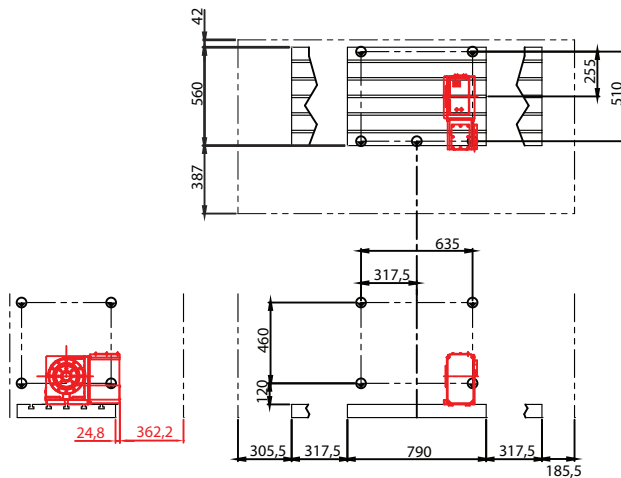
## INTERFERENCE DRAWINGS FOR DURAVERTICAL ECOLINE SERIES



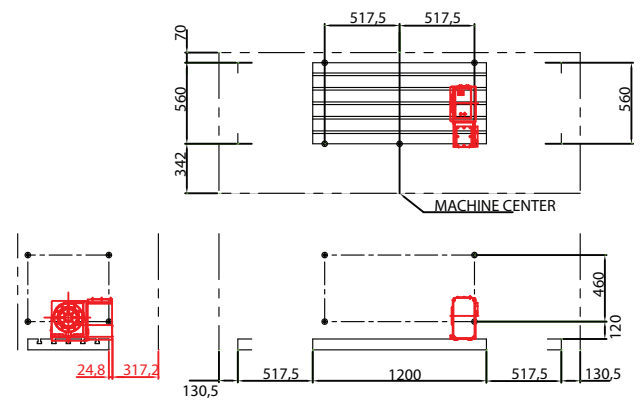
**RNE-160R FOR 635 ECOLINE**



**RNE-160R FOR 1035 ECOLINE**



**RNE-200R FOR 635 ECOLINE**



**RNE-200R FOR 1035 ECOLINE**

# TSUDAKOMA RNE Series 4 AXIS ROTARY TABLES

**Best value in its class**  
**Economical. Compact. High Accuracy.**

## Specifications

Table Model		RNE-160	RNE-200
Versions available		R	R
Spindle outer diameter		100h7	120h7
Table diameter (optional)		(160, 200)	(200, 250)
Center height		135	160
Center bore	Nose Diameter	55H7	65H7
	Thru Diameter	40	45
Table T-slot width (with faceplate)		(12H8)	(12H8)
Guide block width		18h7	18h7
Servo motor*		HF154T-A48	HF154T-A48
Maximum motor speed	rpm	4,000	4,000
Speed reduction ratio		1/90	1/90
Maximum table speed	rpm	44.4	44.4
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	.09	.17
Clamp system		Pneumatic Disc Clamp	Pneumatic Disc Clamp
Clamp torque @72psi	Nm (ft. lbs.)	250 (180)	400 (295)
Indexing accuracy	arc sec.	$\pm 12.5$	$\pm 10$
Repeatability	arc sec.	$\pm 3.5$	$\pm 3.5$
Net Weight	kg (lbs.)	44 (97)	62 (136)
Allowable wheel torque	Nm (ft. lbs.)	206 (152)	288 (212)
Allowable work inertia	$\text{kg} \cdot \text{m}^2$	.48	1.25
Allowable work weight [with tailstock]	kg (lbs)	75 (165) [150 (330)]	100 (220) [250 (550)]

Dimensions = mm  
 Specifications subject to change without

## Options & Accessories

Additional Accessories Available



T-Slotted Faceplates



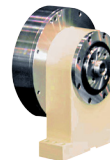
3-Jaw Scroll Chucks



Manual Tailstock w/ MT2 Center



Support Spindle



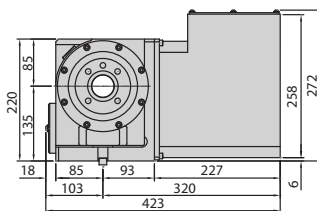
Support Spindle w/  
Pneumatic Clamp



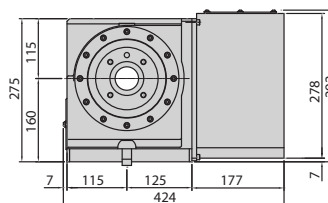
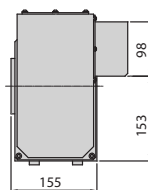
Pneumatic 5C Collet Chuck

## Rotary Table Dimensions

Reference Only • Detailed drawings available upon request



RNE-160



RNE-200

