

ADOR WELDING ROTATORS



WR Models: 5T to 150T
RSCLA Models: 5T to 150T
SAR Models: 10T to 30T



ADOR WELDING ROTATORS

ON A NEW FOOTING IN WELDING AUTOMATION

The welding system presented in this technical bulletin is your step into Automation. Automation in welding will lead you to dramatic gains in precision, quality, speed, productivity and economy. It will place you on par with industries in advance countries of the world.

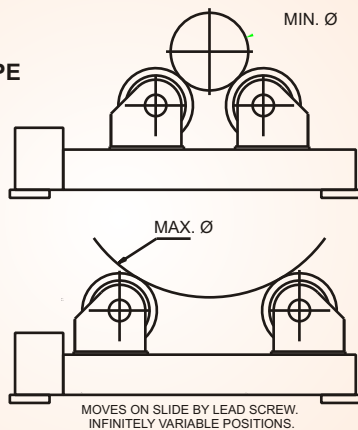
In order to provide you the most suitable solution, WAPS Engineers will build systems, based on the data collected from your shopfloor. We draw upon the enormous

information contained in our data bank, collated over five decades.

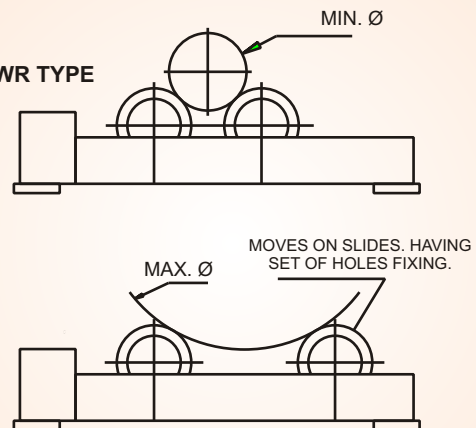
WAPS field experience enables it to source materials that are most reliable, ensuring quality at every stage of manufacture and installation. When you assign your welding automation project to WAPS, you have the unique opportunity to avail of advanced technology through its association with world leaders in welding.

ROTATORS

RSCLA TYPE



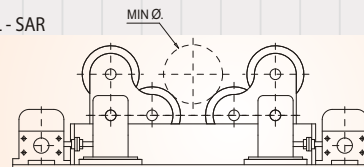
WR TYPE



Welding rotators are essential aids in the fabrication of tanks, barrels, pressure vessels etc. All models of welding rotators consist of a drive unit and an idler unit. In the drive section, rollers are motorized and regulated by a control panel. The idler section is identical to the drive unit in all respects except that there is no drive arrangement.

Three different models of rotators have been depicted here. Any other specific requirement other than our standard range can be custom-designed to suit the job.

MODEL - SAR



MODEL WR

(MANUAL INDEXING TYPE)

The design incorporates roller mounted on solid shaft which are in turn housed in bearings. The roller housings are mounted on an accurately machined bed and bolted in position. While one of the housings is fixed, the other is manually adjusted to suit specific job diameters, and bolted in position. The drive is provided to both the rollers independently & each drive set consists of an AC motor and suitable worm reduction gear boxes.

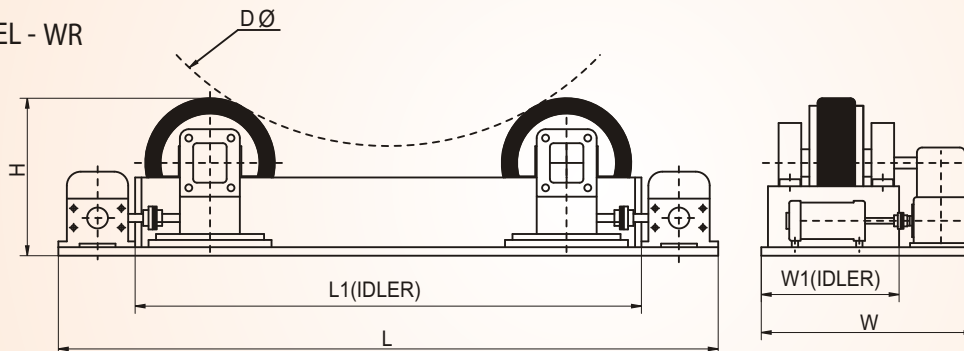
STANDARD FEATURES

- A set consists of one drive unit and one idler unit.
- Surface speed steplessly variable from 75 to 1500 mm/min.
- Speed regulation through AC Variable Frequency Drives.
- Forward and reverse rotation along with inching facility.
- Overload discs to protect from rupturing.
- Pendant control for forward, reverse and stop push button operation.
- Input power supply : 415V, 3ph, 50Hz.

OPTIONALS (AT EXTRA COST)

- Standard models can be optionally trolley mounted for manual or motorized drive on rails.
- Hardened all-steel rollers.
- Foot control start/stop switch.
- Extra idlers for longer job lengths.
- Upto 500 Tons capacity on Special Request.
- Radio Remote Control

MODEL - WR



DR-UNIT = DRIVE UNIT
IR - UNIT = IDLER UNIT

150	75000	600-6000	1000	4500	4000	1300	800	5
100	50000	600-6000	1000	4500	4000	1300	800	5
80	40000	600-6000	885	3800	3300	1100	700	5
60	30000	450-5000	885	3800	3300	1100	700	5
50	25000	450-5000	885	3800	3300	1100	700	5
40	20000	450-5000	685	3800	3300	1100	700	5
30	15000	450-5000	685	3400	3000	900	500	5
20	10000	450-5000	685	3400	3000	900	500	4
15	7500	450-5000	600	2900	2550	860	450	4
10	5000	450-5000	600	2900	2550	860	450	4
5	2500	450-4000	600	2900	2550	700	380	4
Size Capacity Tons	Load/Unit Kg.	d-D (mm) Min.-Max. Job. Dia.	H (mm) Total Height	L (mm) DR-Unit Length	L1 (mm) ID-Unit Length	W (mm) DR-Unit width	W1 (mm) DR-Unit width	No. of Setting

Note: 1. In view of continuous development, we reserve the right to modify the design & dimensions without notice.

2. Any model not mention here can be designed manufactured & supplied as per the customer requirement.

MODEL RSC LA

(SELF-CENTERING LEAD SCREW ADJUSTMENT TYPE)

- Torque-free axle shaft implies easy maintenance and easy replacement of worn out wheels.
- As the wheel distance adjustment is infinitely variable, optimum position can be attained.
- Alignment of shells in the vertical plane is possible.
- Spur gear drive reduces friction losses.
- LH-RH lead screw arrangement allows the wheels to move simultaneously either towards or away from each other.

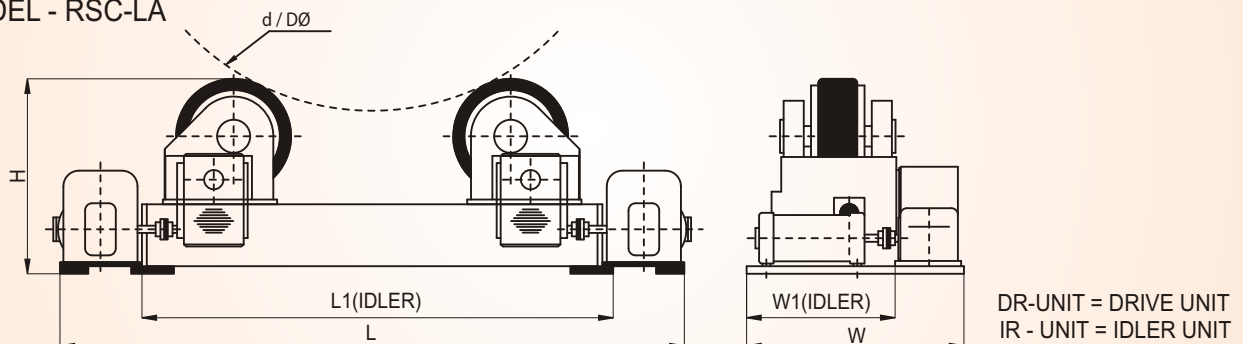
STANDARD FEATURES

- A set consists of one drive unit and one idler unit.
- Surface speed steplessly variable from 75 to 1500 mm/min.
- Speed regulation through AC Variable Frequency Drives.
- Forward and reverse rotation along with inching facility.
- Overload discs to protect from rupturing.
- Pendant control for forward, reverse and stop push button operation.
- Input power supply : 415V, 3ph, 50Hz

OPTIONALS (AT EXTRA COST)

- Standard models can be optionally trolley-mounted for manual or motorized drive on rails.
- Hardened all-steel rollers.
- Foot control start/stop switch.
- Extra idlers for longer job lengths.
- Upto 500 Tons capacity on special request.
- Radio Remote Control

MODEL - RSC-LA



150	75000	150000	750-600	950	4870	3970	1675	850
100	50000	100000	750-6000	950	4800	3970	1600	850
80	40000	80000	450-5000	900	4750	3970	1500	850
60	30000	60000	450-5000	840	4200	3800	1025	840
50	25000	50000	450-5000	840	4200	3800	1025	840
40	20000	40000	450-5000	800	4200	3800	1025	700
30	15000	30000	450-5000	715	4000	3700	985	600
20	10000	20000	450-5000	715	4000	3700	985	600
15	7500	15000	450-5000	600	2900	2550	860	450
10	5000	10000	450-5000	600	2900	2550	860	450
5	2500	5000	450-4000	600	2900	2550	700	380
Size Capacity tons	Load/Unit Kg.	Turning Capacity Kg.	d-D (MM) Min-Max Job. Dia.	H (MM) Total Height	L (mm) DR-Unit Length	L1 (mm) ID-Unit Length	W (mm) Dr-Unit Width	W1 (mm) ID-Unit Width

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MODEL SAR

(SELF-ALIGNING TYPE)

It consists of two units, each provided with two pairs of rollers. These rollers are mounted on pivoted brackets that swivel simultaneously to suit different jobs diameters. Self-aligning feature of these rotators considerably increases output and cuts shopfloor time. The arrangement permits the roller brackets to align themselves to the vessel on loading, without any preadjustment. It compensates for workpiece irregularities such as a ovality and diameter variations, etc.

The workpiece remains centre to the frames and is not influenced by variations in diameters. Hence the welding plant and ancillary equipments can be conveniently placed and positioned without frequent adjustments.

Details specifications for models can be made available on request.

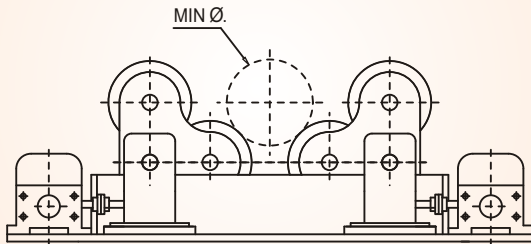
STANDARD FEATURES

- A set consists of one drive unit and one idler unit.
- Surface speed steplessly variable from 75 to 1500 mm/min.
- Speed regulation through AC Variable Frequency Drives.
- Forward and reverse rotation along with inching facility.
- Overload doscs to protect from rupturing.
- Pendant control for forward, reverse and stop push button operation.
- Input power supply: 415V, 3ph, 50Hz

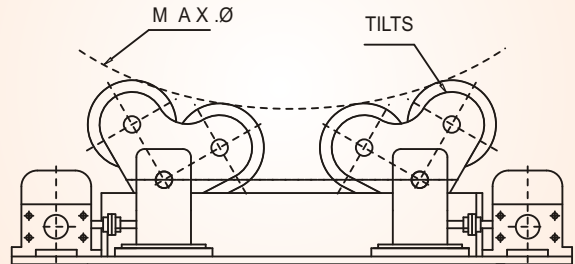
OPTIONALS (AT EXTRA COST)

- Standard models can be optionally trolley mounted for manual or motorized drive on rails.
- Hardened all-steel rollers.
- Foot control start/stop switch.
- Extra idlers for longer job lengths.
- Size upto 60 tons can be made available on request.
- Radio Remote Control

MODEL - SAR



MODEL - SAR




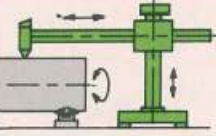
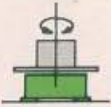



30	15000	450-5000	940	2900	2500	980	580
20	10000	450-5000	940	2900	2500	980	580
10	5000	450-5000	770	2110	1760	826	476
Size Capacity Tons	Load/Unit Kg.	d-D (mm) Min-Max Job. Dia	H (mm) Total Height	L (mm) Dr-Unit Length	L1 (mm) ID-Unit Length	W (mm) Dr-Unit Width	W1 (mm) Dr-Unit Width

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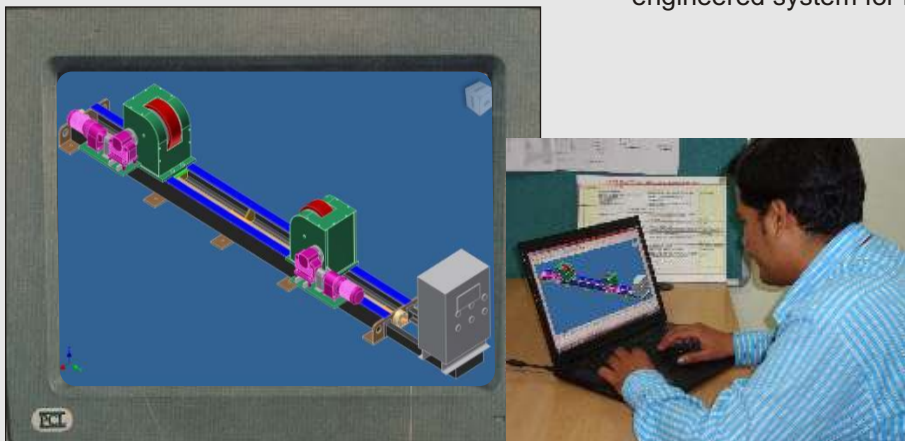
2. Any model not mention here can be designed manufactured & supplied as per the customer requirement.

Identify your needs with this ready reckoner of ador welding systems

 <p>WELDING POSITIONER</p>	 <p>WELDING ROTATOR</p>
 <p>HEADSTOCK & TAILSTOCK POSITIONER</p>	 <p>COLUMN & BOOM</p>
 <p>TURN TABLE</p>	 <p>WIRE FEEDER HOLDING BOOM</p>

Where WAPS Scores

- In-house manufacturing facility for welding machines, consumables, drive control panel, etc.
- Experience of having designed, developed and executed over 1000 various systems.
- Far-reaching network to ensure quick response to pre and post order sales and services.
- Widespread offices at your disposal to elaborate any type of welding turnkey project you may be interested in.
- Our clients, both big and small, stand testimony to our skills.
- Design using latest AUTO CAD Inventor 2010 including stress analysis leading to a well engineered system for long trouble free service.



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WELDERS TO THE NATION
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