

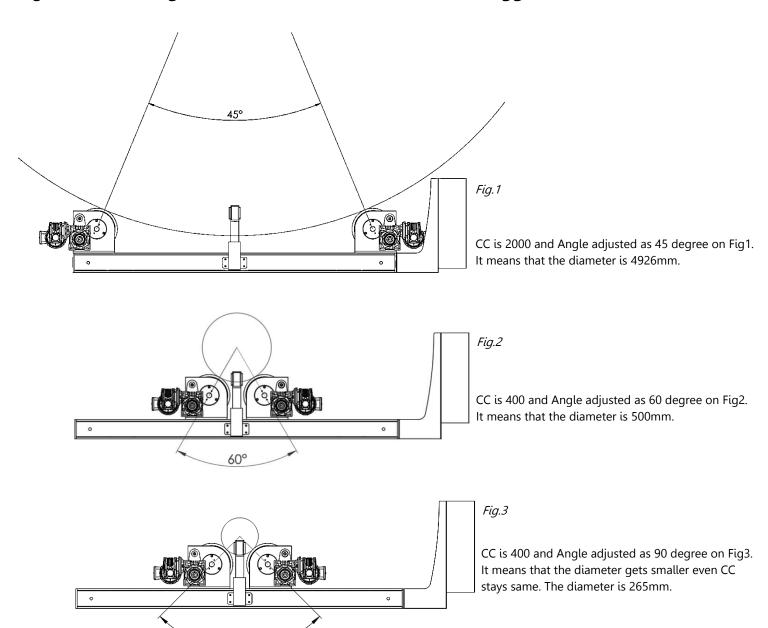
Important Note for End-Users Before We Get Started!

90°

Workpiece's center point is important to calculate and consider when you need to know how much diameter you can rotate at certain included angle and certain center to center dimension.



It is mentioned clearly that how big your vessel can be loaded on rotator set at a certain angle. The best angle for rotation that WESTERMANS suggests is 60°.

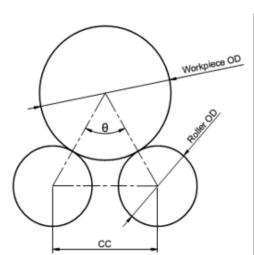




Diameter Data Plate

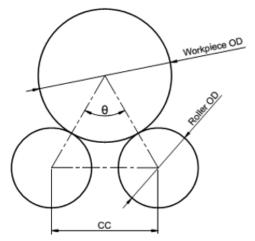
Wondering how big diameter you can rotate at certain Center to Center(CC) dimension and angle? WESTERMANS' data plates make your calculation and work easier.





		Angle (θ) - For 300 mm dia. Roller									
		45	50	55	60	65	70	75	80	85	90
	400	745	646	566	500	444	397	357	322	292	266
	500	1007	883	783	700	631	572	521	478	440	407
	600	1268	1120	999	900	817	746	686	633	588	549
	700	1529	1356	1216	1100	1003	920	850	789	736	690
eľ	800	1791	1593	1433	1300	1189	1095	1014	945	884	831
to Center)	900	2052	1830	1649	1500	1375	1269	1178	1100	1032	973
	1000	2313	2066	1866	1700	1561	1443	1343	1256	1180	1114
	1100	2574	2303	2082	1900	1747	1618	1507	1411	1328	1256
	1200	2836	2539	2299	2100	1933	1792	1671	1567	1476	1397
Center	1300	3097	2776	2515	2300	2120	1966	1835	1722	1624	1538
ē	1400	3358	3013	2732	2500	2306	2141	2000	1878	1772	1680
\sim	1500	3620	3249	2949	2700	2492	2315	2164	2034	1920	1821
CC	1600	3881	3486	3165	2900	2678	2490	2328	2189	2068	1963
0	1700	4142	3723	3382	3100	2864	2664	2493	2345	2216	2104
	1800	4404	3959	3598	3300	3050	2838	2657	2500	2364	2246
	1900	4665	4196	3815	3500	3236	3013	2821	2656	2512	2387
	2000	4926	4432	4031	3700	3422	3187	2985	2811	2660	2528

NOTE: Cross section of CC and Angle gives you the diameter(OD) of the workpiece. * Suggested angle is 60°



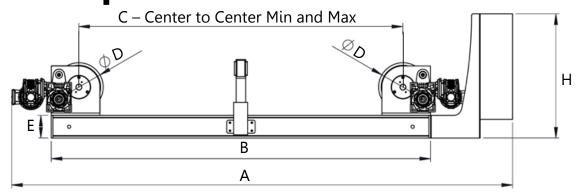
		Angle (θ) - For 380 mm dia. Roller									
		45	50	55	60	65	70	75	80	85	90
	640	1292	1134	1006	900	811	736	671	616	567	525
(F)	790	1684	1489	1331	1200	1090	997	918	849	789	737
enter)	940	2076	1844	1656	1500	1369	1259	1164	1082	1011	949
r to C	1090	2468	2199	1981	1800	1649	1520	1411	1316	1233	1161
	1240	2860	2554	2305	2100	1928	1782	1657	1549	1455	1374
	1390	3252	2909	2630	2400	2207	2043	1903	1782	1677	1586
	1540	3644	3264	2955	2700	2486	2305	2150	2016	1899	1798
ا ب دا	1690	4036	3619	3280	3000	2765	2566	2396	2249	2122	2010
C (Cente	1840	4428	3974	3605	3300	3045	2828	2643	2483	2344	2222
	1990	4820	4329	3930	3600	3324	3089	2889	2716	2566	2434
	2140	5212	4684	4255	3900	3603	3351	3135	2949	2788	2646
Ŭ	2290	5604	5039	4579	4200	3882	3612	3382	3183	3010	2859
	2440	5996	5394	4904	4500	4161	3874	3628	3416	3232	3071

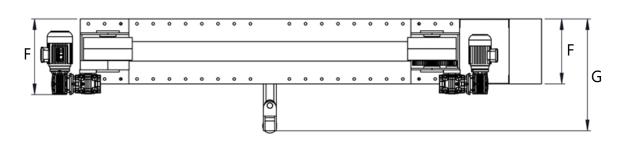
NOTE: Cross section of CC and Angle gives you the diameter(OD) of the workpiece.

^{*} Suggested angle is 60°



Technical Specifications - DRIVE



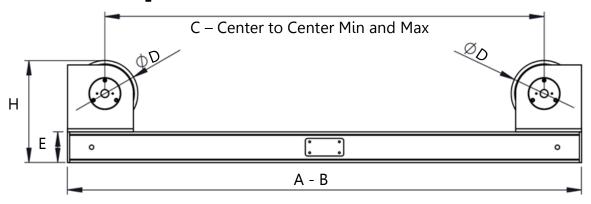


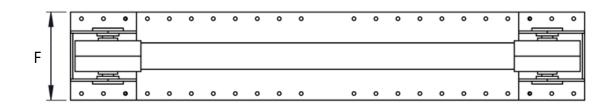
	5 TON	10 TON	20 TON	30 TON	60 TON				
Rotation Capacity (kg)	5000	10000	20000	30000	60000				
Loading Capacity (kg)	2500	5000	10000	15000	30000				
Min Vessel Dia @90 degree (mm)	265 @ 400mm CC		525 @ 64	0mm CC	240 @ 560mm CC				
Max Vessel Dia @45 degree (mm)	4925 @2000mm CC		6000 @ 2440mm CC		7500 @ 3080mm CC				
Roller Dia. and Width (mm)	300x70 – 2pcs		380x160 – 1 pcs		550x160 – 1 pcs				
Roller Coating	Polyurethan Coating								
Rot. Speed Min – Max (mm/min)	125 @ 5 Hz – 1250 @ 50 Hz								
Rotation Drive Motor - AC	0,37 kW x 2	0,55 kW x2	0,75 kW x 2	1,1 kW x 2	1,5 kW x 2				
Rotation Drive Inverter - AC	0,75 kW	1,1 kW	1,5 kW	2,2 kW	3 kW				
Travel Car		Optional							
Travel Car Speed	N/A								
Travel Car Drive	N/A								
Electrical Panel	Yes								
Power Supply	380V/400V – 3 Ph – 50 Hz/60 Hz								
Control Unit					ed in flexible steel hose				
Standard Colour	RA	L 5005 – BLUI	E & RAL 7032 -	- BEIGE / Text	ure Painting				
Anti Creep					No				
A – Outside to Outside Length	3090		3642		4680				
B – Chassis Length	2340		2900		3890				
C – Center to Center Min Max	400 – 2000		640 - 2440		560 - 3080				
D – Roller Diameter	300		380		550				
E – Height of Chassis	140		140		180				
F – Width of Chassis (OO Width)	400 (466)		450 (550)		575 (685)				
G – Width with Anti Creep	690		738 -		-				
H – Total Height	765		765		785				
Weight of 1 set (1 drive + 1 idler)	850 Kg		1100 Kg		1750 Kg				
Shipping Dimensions WxLxH - mm	730x3280x1070		780x3780x1070		915x4850x1090				

^{*}Machine dimensions, shipping dimensions and gross weights can be changed +/- %5



Technical Specifications - IDLER





	5 TON	10 TON	20 TON	30 TON	60 TON		
Rotation Capacity (kg)							
Loading Capacity (kg)	2500	5000	10000	15000	30000		
Min Vessel Dia @90 degree (mm)	265 @ 400mm CC		525 @ 6	540mm CC	240 @ 560mm CC		
Max Vessel Dia @45 degree (mm)	4925 @2000mm CC		6000 @ 2	2440mm CC	7500 @ 3080mm CC		
Roller Dia and Width (mm)	300x70 – 2pcs		380x16	50 – 1 pcs	550x160 – 1 pcs		
Roller Coating		F	Polyurethan	Coating			
Rotation Speed Min – Max (mm/min)			N/A				
Rotation Drive Motor - AC			N/A				
Rotation Drive Control - AC			N/A				
Travel Car	Optional						
Travel Car Speed	N/A						
Travel Car Drive	N/A						
Electrical Panel	No						
Power Supply			N/A				
Control Unit	N/A						
Standard Colour	RAL 5005 – BLUE & RAL 7032 – BEIGE / Texture Painting						
Anti Creep	1 unit – Ex	changable wit	h DRIVE	No	No		
Dimensions;							
A – Outside to Outside Length B – Chassis Length	2340		2900		3890		
C – Center to Center Min Max	400 - 2000		640 – 2440		560 – 3080		
D – Roller Diameter	300		380		550		
E – Height of Chassis	140		140		180		
F – Width of Chassis	4	400		450	575		
G – Width with Anti Creep	6	90	738 -		-		
H – Total Height	465			560	785		



Optional Items

There are some additional technical options that **WESTERMANS** can offer on your conventional rotator. It totally depends on your choice, production, welding system and how you want your equipment. **Please contact our sales team for optional price information.**

1. Worm Screw* (Threaded Rod) for In & Out Movement

*Worm screw option can be applied up to 20 ton capacity.

1a. Worm Screw (Threaded Rod) - Motorized









- Operator can control roller heads' in & out movement from the buttons on hand pendant as motorized.
- Roller heads move simultaneously to both sides in and out.
- In & Out movement is motorized and does not have speed regulator. It has fixed speed.
- By looking at the scale on the rotator, operator will adjust and control CC dimension.

1b. Worm Screw (Threaded Rod) – Handwheel / Unmotorized



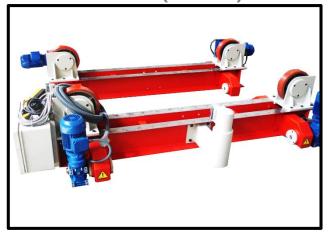


- Operator controls in & out movement by using the handwheel connected to worm screw.
- By looking at the scale on the rotator, operator will adjust CC dimension.
- Operator needs to check and control the movement by himself.



2. Travel Cart (Rail Car) for Movement on the Rail

2a. Travel Cart (Rail Car) - Motorized



- Operator can control forward and backward movement of **drive unit** from the buttons on hand pendant.
- Drive unit's travel cart is eqipped as motorized only.
- Idler unit has travel cart but unmotorized because of the required distance according to length of workpiece.
- It has **fixed speed** and is not variable.

OPTION: If you would like to move both of them motorized from hand pendant, please mind that certain length of a connection cable(bridge) will be connected between drive and idler unit.

2b. Travel Cart (Rail Car) - Unmotorized



- Operator moves both of the rotator units forward and backward by pushing.

3. Vulkollan Coated Wheels, Steel Wheels & Rubber Wheels for special applications







4. Additional Manuel Anti Creep (This item is available for 5t - 10t - 20t capacities only)



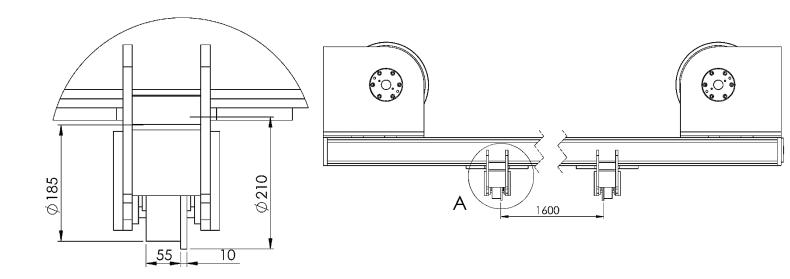




Anti – Creep with Sensor (ask for details)

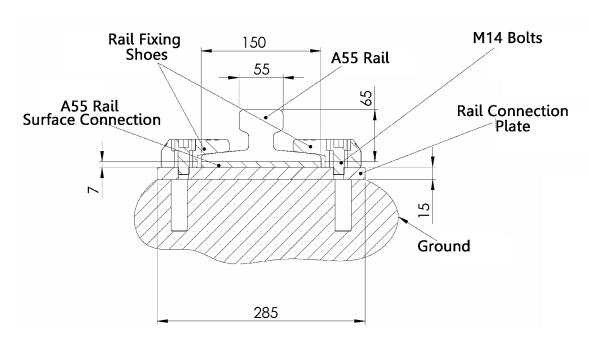


Travel Base Specifications



1600mm Guide to Guide (GG) distance is standard up to 60 ton capacity conventional rotators.

Assembling A55 Crane Rail for Travel Base



Given dimensions above are for A55 Crane Rail.

According to capacity, you may need A65 Crane Rail or other type of rails.