The state of art since 1962

That's when PASSERINI designed and built the first rotator. Since then, it has been developed a complete range of products with such distinguished features as:
- construction top quality
- product long lasting duration
- wide choice of accessories and of custom built executions

We owe to a/m features our renown and the durable appreciation of the most important European and extra-European Customers for our rotators.

Ask them and they'll confirm you how reliable and trouble free are their PASSERINI rotators, some of which are still at work after 30 to 40 years of honourable performance.

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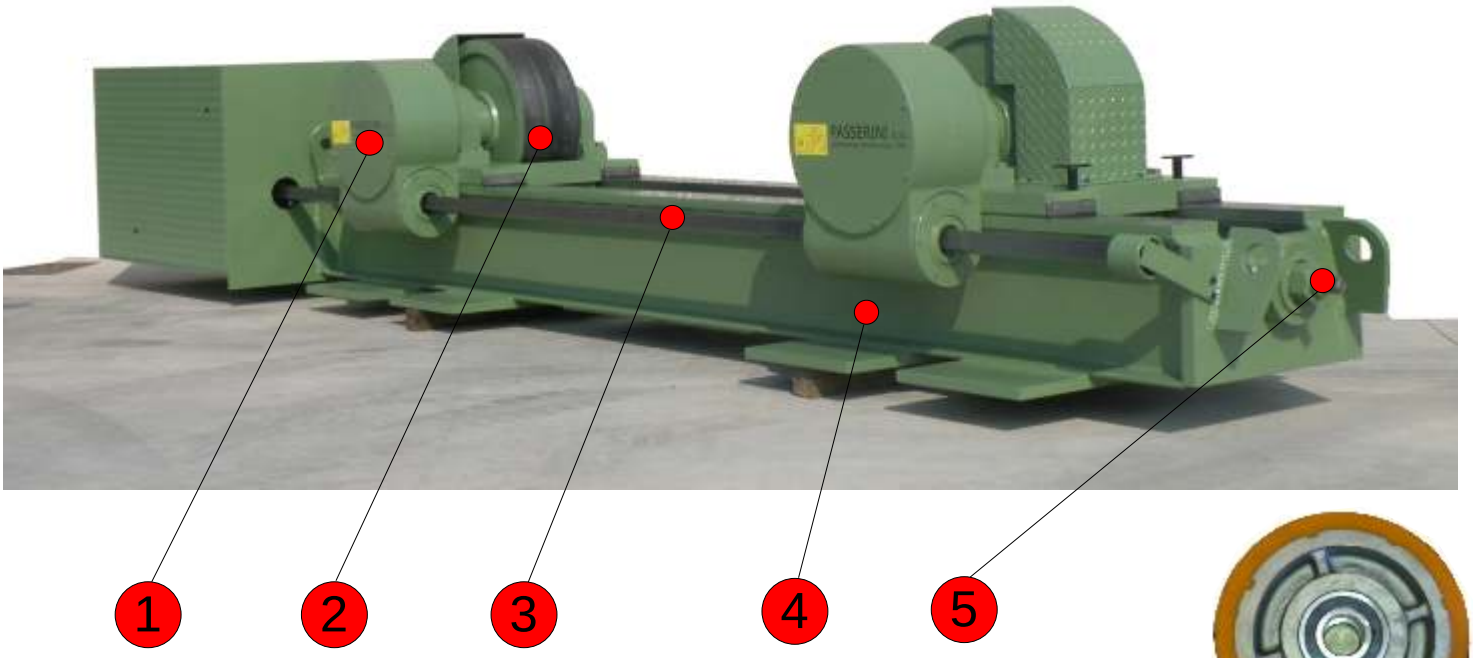
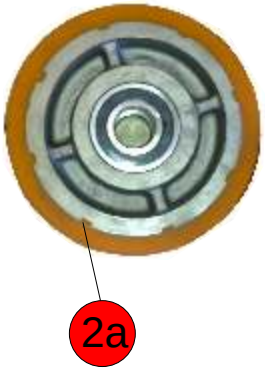
Why our rotators are the best choice

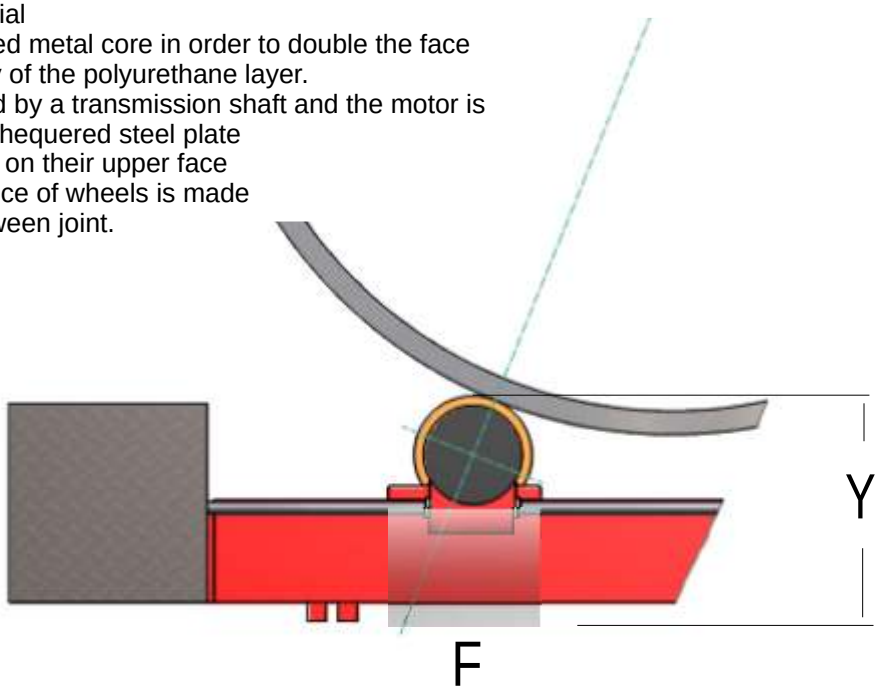


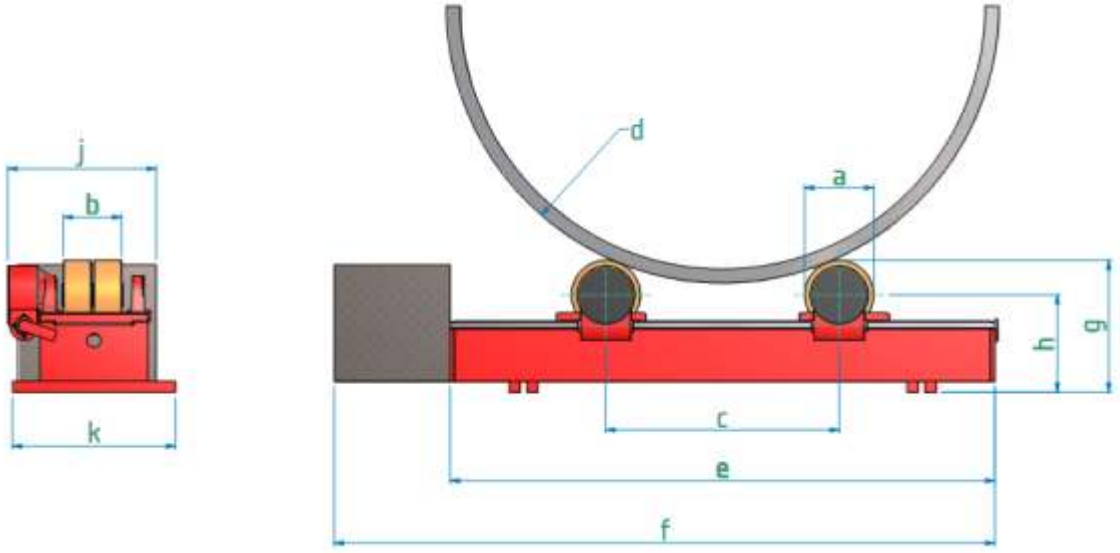


1. Worm screw gearings coaxial to wheels are specially designed and built by PASSERINI so t hat:
   - the diameter of the casing being smaller than the one of any commercial product, height Y results lower than any rotator of the same capacity built by competitors;
   - owing to the bronze crown and worm screw special executions, the torque is greater than the one quoted by most competitors;
   - the case is made of cast iron or steel and not of aluminium as the one of common g earings;
   - thanks to the small height Y, the projection of load F falls on the wheel's bracket and doesn't stress the screw that adjusts the wheels' centre-to-centre distance.
2. Wheels are available:
   - made of solid steel (superficially tempered upon request)
   - coated with rubber of with polyurethane
   - made of high density synthetic material

2a The polyurethane coating is laid on a toothed metal core in order to double the face contact and to prevent any breakaway of the polyurethane layer.

3. Drive wheels are mechanically synchronized by a transmission shaft and the motor is protected by a strong carter made of chequered steel plate
4. Frames are extremely robust and machined on their upper face
5. Lead screw to adjust centre-to-centre distance of wheels is made of one single piece without any in-between joint.





D Drive Unit	R055_F	R060_A	R110_F	R120_A	R125_G	R150_M	R200_F	R300_F	R500_M
_ E1 mm/min	90-1480	90-1480	70-1100	70-1100	60-945	60-945	80-1000	50-1000	50-1000
_ E2 mm/min			120-2400	120-2400	85-1700	85-1700	65-1300	85-1700	65-1300
_ E3 mm/min							100-2000		
CTR Ton	9	10	18	20	18	22,5	30	45	90
C Idler	R055N-F	R060N-A	R110N-F	R120N-A	R125N-G	R150N-M	R200N-F	R300N-F	R500N-M
P (1D+1C) Ton	5,5	6	11	12	12,5	15	20	30	50
P (1D+2C) Ton	8,25	9	16,5	18	18	22,5	30	45	70
P (1D+3C) Ton	9	10	18	20					90
Øa x b mm	200x80	198x80	250x100	248x100	250x320	250x330	250x210	350x210	350x335
c min/max mm	210/1500	210/1500	290/1550	290/1550	290/1540	290/1540	290/1540	380/1550	412/1986
d min/max mm	200/3850	170/3850	250/4000	200/4000	180/4000	180/4000	180/4000	600/4700	700/5000
e mm	1740	1740	1970	1970	1970	1970	1970	2490	2640
f mm	2240	2240	2790	2790	2690	2690	2690	3360	3680
g mm	315	315	375	374	437	437	437	488	512
h mm	265	265	315	315	352	352	352	338	367
j mm	500	500	520	520	500	500	755	950	1050
k mm	426	426	476	476	700	700	590	620	750
W D Kg	250	270	330	370	520	550	550	1000	1300
W C Kg	125	145	170	210	350	380	380	700	900

KEY OF READING

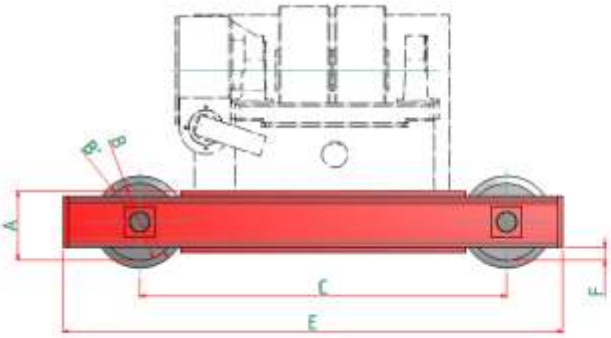
Material of rolls:
F = Polyurethane
A = Steel
G = Rubber
M = Mixed rubber/steel
CTR = Max. drive capacity (concentric tons)
P = Weight capacity
E1, E2, E3 = Minimum /maximum speed
W = Net weight

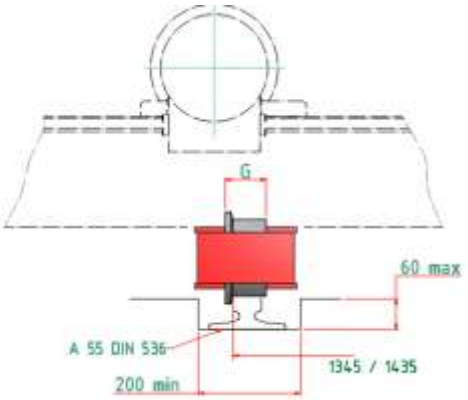
STANDARD FEATURES
- DC or AC drives depending from the model
- Interface to automatic welder
- Remote control (24V) of all functions on portable pendant
- Centre-to-centre distance of wheels adjustable by screw
- Transmission statically and dynamically irreversible provided by worm screw gearings manufactured by us
- Feeding 230/400V 50 Hz

OPTIONS
- Different speed ranges
- Weight capacity up to 800 Ton/set
- Synchronization of 2 or more drive units
- Anti-drift systems
- Wheels made of solid HDN/T resistant to very high specific pressure
- Brushless motor with encoder and interface to PLC for plants highly automated
- Different feedings
- Lorries for traversing on rails with idle flanged wheels (with/without brakes) or motorized

Lorries for traversing on rails for rotators 5.5 to 70 Ton

Idle wheels lorries



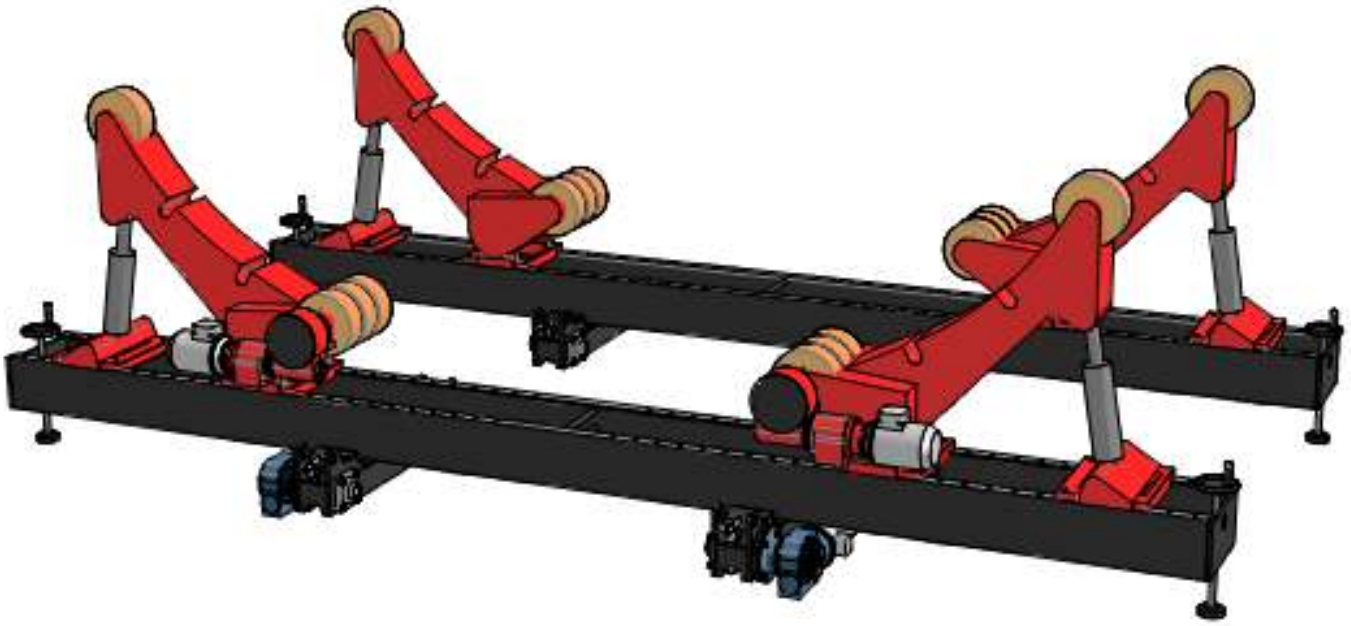


For Model	R055	R060	R110	R120	R125	R150	R200	R300	R500	R07C
Lorry type	CR094U	CR094U	CR136U	CR136U	CR240U	CR240U	CR488U	CR488U	CR488U	CR750U
A	70	70	87	87	135	135	135	135	135	135
B	90	90	110	110	150	150	150	150	150	150
B'	110	110	130	130	180	180	180	180	180	180
C	342	342	386	386	720	720	720	720	720	720
D	115	115	130	130	170	170	170	170	1250	1250
E	540	540	605	605	980	980	980	980	980	1250
F	20	20	22	22	25	25	15	15	15	135
G	56	56	56	56	80	80	80	80	80	1250
Weight Kg	18	18	24	24	70	70	120	120	120	160

Options

- Shoe brakes on 2 wheels
- Jaw brakes on 2 wheels
- Motorized lorries (2WD and 4WD)
- Lorries for rotators with capacity greater than 70 Ton/set

FIT-UP Rotator Models



Available for any set weight capacity and for any vessel diameter, besides allowing a better sharing of the load, their upper wheels can be handled by hydraulic jacks in order to perform butt to butt alignment of the vessel edges for tack welding.

R055

R200 on lorries CR488U

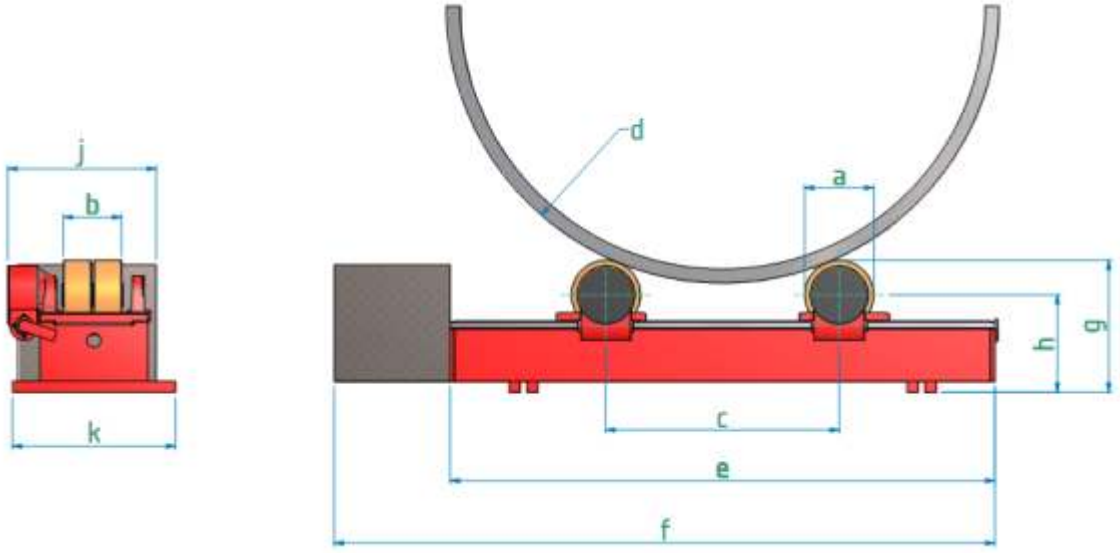
R120: steel wheels

R110: height adjustable by hydraulic jack on idle lorries

R200: handling the frame of 2-stages railway cars

R500 on lorries CR488U

R200_F + R110N-F: special execution to adjust the height to polygonal poles taper



D Drive Unit	R07C_A	R07C_M	R14C_A	R14C_M	R20C_M	R23C_A	R35C_A	R46C_A
_ **E1** mm/min	43/850	43/850	30/600	30/600	35/700	35/700	35/700	35/700
_ **E2** mm/min	65/1300	65/1300	40/780	40/780	43/850	43/850	43/850	60/1200
_ **E3** mm/min			60/1200	60/1200	60/1200	60/1200	60/1200	
CTR Ton	100	100	200	200	280	330	500	650
C Idler	R07CN-**A**	R07CN-**M**	R14CN-**A**	R14CN-**M**	R20CN-**M**	R23CN-**A**	R35CN-**A**	R46CN-**A**
P (1**D**+1**C**) Ton	70	70	140	140	200	230	350	460
P (1**D**+2**C**) Ton	100	100	200	200	280	330	500	650
Ø a x **b** mm	350x150	350x450	500x200	515x520	710x555	690x250	690x250	690x250
c min/max mm	425/2167	425/2167	610/2710	610/2710	810/2760	790/2740	790/2740	790/2740
d min/max mm	700/5000	700/5000	900/6000	900/6000	1300/6000	1300/6000	1300/6000	1300/6000
e mm	2780	2780	3490	3490	4040	4040	4040	4040
f mm	3810	3810	4520	4520	5315	5315	5315	5315
g mm	580	580	720	730	985	1004	1045	1100
h mm	430	430	495	495	649	689	735	795
i mm	1050	1050	1200	1200	1370	1275	1380	1420
j mm	750	1000	900	1000	1000	1200	1200	1200
k mm	1000	1000	900	900	1000	1200	1200	1200
W D Kg	2000	2200	2900	3400	7300	6700	8600	10400
W C Kg	1400	1600	2200	2700	5700	5200	6600	8100

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R35C

R07C: wheel made of HDN/T for rotors

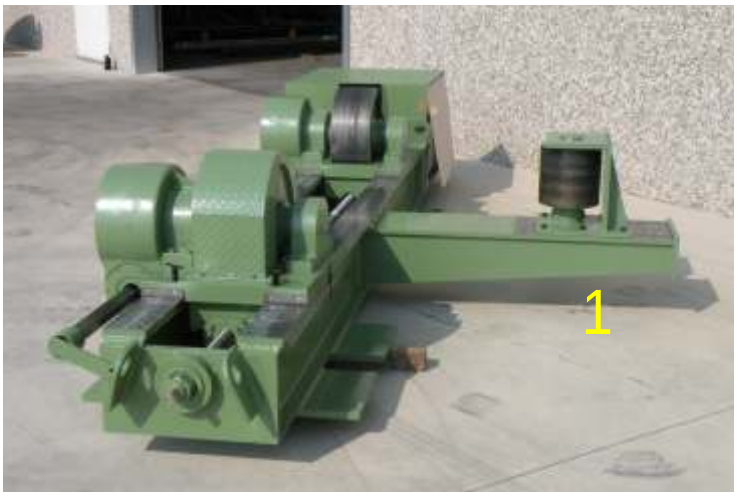
R07C: with rubber wheels

R07C: wheel made of HDN/T for rotors

R14C: special execution with lorries

Anti-drift systems

Anti-drift Bumpers
A wheel fixed to either or both drive and idle units prevents the vessel from drifting, as per picture 1



Anti-drift steering idle unit (manual or automatic)
Idle unit steering can be operated manually (as per picture 3) or (as per picture 4) automatically by means of an hydraulic jack controlled by tactile inductive or proximity laser sensor.