



PATENTED: Rotacaster Wheels are subject to patented and/or patent pending, globally.

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REF	Roller Materials	REF	Bearing Bush Type	REF	ID Sizing	REF	Mount Type
35	TPE	A	ABS	05	3/16"	CH	Channel Holed
60	PU	D	Acetal	06	6mm	MC	Cup
85	PU	H	Hex	07	1/4"	MF	Formed
95	PU	HR	Rotating Hex	08	8mm	MM2	Multi-mount 2x R4
99*	PBT	LX	Lego	09	3/8"	MM3	Multi-mount 3x R4
*solid		N	Nylon	10	10mm	MW	Welded
		S	Sealed	11	7/16"	MX	Formed
		VX	Vex	12	12mm	MXT	Formed
		Z	Shielded	13	1/2"		

Wheel Part/SKU Numbering							
Rims/Rows	-	Wheel Diameter (mm)	No. of Rollers/Rim	-	Rollers Hardness (Shore A)	/	Bearings/Insert
R	X	-	XXX	X	-	XX	/ XX
		-	035	4	-	35	/ D06

13+	1/2"+
14	14mm
15	15mm
17	17mm
18	18mm
19+	3/4" 19mm

Wheel Parameters		R2-0354	R2-0504	R2-0905	R2-1258	R3-1258	R4-1258
Primary Diameter		5mm	50mm	90mm	125mm	125mm	125mm
Hub Width		18.5mm	27.5mm	43mm	43mm	62mm	86mm
Wheel Rim/Rows		2 (dual)	2 (dual)	2 (dual)	2 (dual)	3 (Triple)	4 (2xR2) (Quad)
Number of Rollers/rim		4	4	5	8	8	8
Total number of Rollers		8	8	10	16	24	32
Roller Diameter							
Radial head Clearance		0.05mm	1.5mm				

Roller hardness	Material	Max. Load Capacity 1 Kg (Dynamic)					
35A	TPE	2kg	5kg				
60A	PU		15kg				
85A	PU				115kg	125kg	
95A	PU		25kg	125kg	130kg	160kg	
99 (Solid)	PBT	5kg	30kg				

Roller hardness	Material	Wheel Weights (grams)					
35A	TPE	12	34				
60A	PU		38				
85A	PU				308	470	616
95A	PU		38	200	308	470	616
99 (Solid)	TCP	13.5	43				

Roller hardness	Material	Co-efficient of traction Traction (sliding friction on steel)					
35A	TPE	0.691	1.139		0.831		
60A	PU		0.380		0.516		
85A	PU				0.231		
95A	PU		0.212	TBC	0.198		
99 (Solid)	TCP	0.114	0.086				

Roller hardness	Material	Co-efficient of Rolling Friction for secondary roller movement					
35A	TPE	0.154	0.116		0.073		
60A	PU		0.098		0.079		
85A	PU				0.067		
95A	PU		0.092	TBC	0.075		
99 (Solid)	TCP	0.094	0.062				

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 Load capacity may vary dependent on wheel, roller hardness, bearing and/or bushing selection. **PATENTED:** Rotacaster Wheels are subject to patented and/or patent pending, globally.

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