

MAKING MOBILITY INTUITIVE

# 180mm



**R3** 

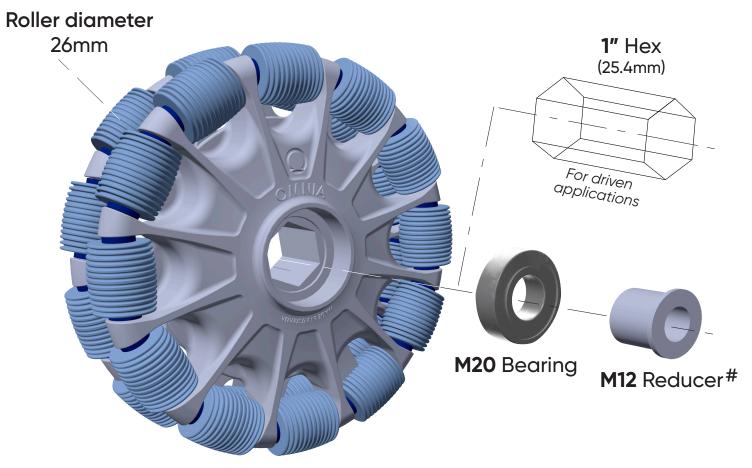


R<sub>2</sub>

A revolution in omni wheels BIGGER. TOUGHER. SMOOTHER



# **OMNIA WHEEL**



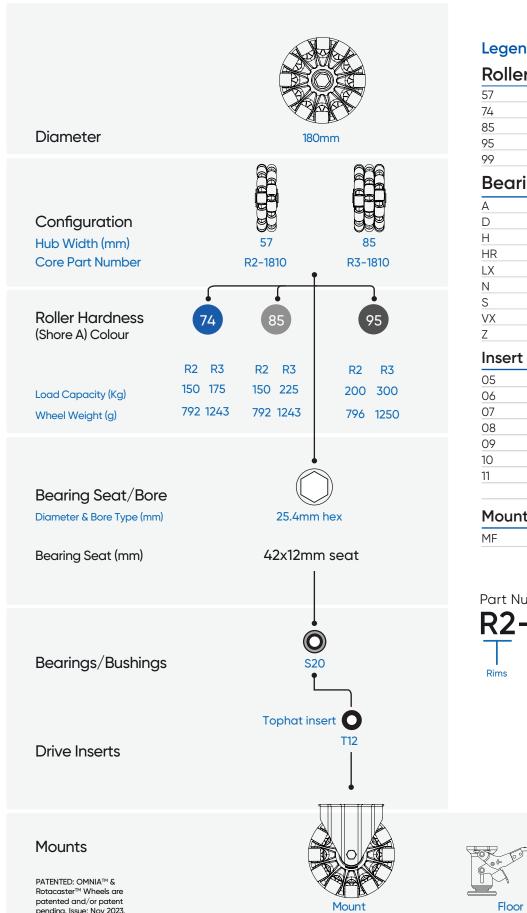
#Adds 6mm to hub width Larger range of inserts available on request

### Wheel specifications



Roller Hardness (PU)	MED		FIRM		HARD	
Standard Colour	Omnia Blue	Omnia Blue	Mid Grey	Mid Grey	Dark Grey	Dark Grey
Configuration	R2	R3	R2	R3	R2	R3
Load Capacity (kg)	150	175	150	225	200	300
Weight (kg)	0.8	1.25	0.8	1.25	0.8	1.25
PART NUMBER (base wheel)	R2-1801-74	R3-1801-74	R2-1801-85	R3-1801-85	R2-1801-95	R3-1801-95
M20 6004 2RS bearing (+0.13 kg)	R2-1801-74/S20	R3-1801-74/S20	R2-1801-85/S20	R3-1801-85/S20	R2-1801-95/S20	R3-1801-95/S20
M20 Bearing+M12 Reducer (+0.23kg)#	R2-1801-74/T12	R3-1801-74/T12	R2-1801-85/T12	R3-1801-85/T12	R2-1801-95/T12	R3-1801-95/T12
R2 Wheel+Mount (+1.1kg)	R2-1801-74/MF	R3-1801-74/MF	R2-1801-85/MF	N/A	R2-1801-95/MF	N/A

# 180mm omni wheel



### Legend:

### **Roller Material**

57	TPE	
74	PU	
85	PU	
95	PU	
99	PBT SOLID	

### Bearing/Bush Type

А	ABS
D	Acetal
Н	Hex
HR	Rotating hex
LX	LEGO
N	Nylon
S	Sealed bearing
VX	Vex
Z	Shielded bearing

### **Insert ID Sizing**

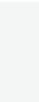
05	3 /16"	12	12mm
06	6mm	13	1/2"
07	1/4"	13+	1/2"+
08	8mm	14	14mm
09	3/8"	15	15mm
10	10mm	18	18mm
11	7/16"	19	3/4"
		20	20mm

### **Mount Type**

MF	Formed	



pending. Issue: Nov 2023. ©2023 Rotacaster Pty Ltd

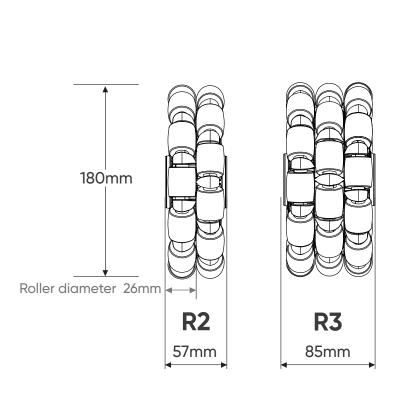




PATENTED: OMNIA™ and Rotacaster™ Wheels are patented and/or patent pending. ©2023 Rotacaster Pty Ltd. Version V5-2023-03-08

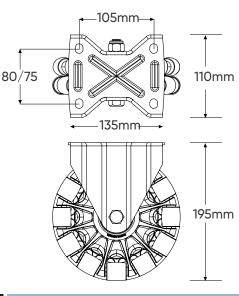
### Wheel Configurations

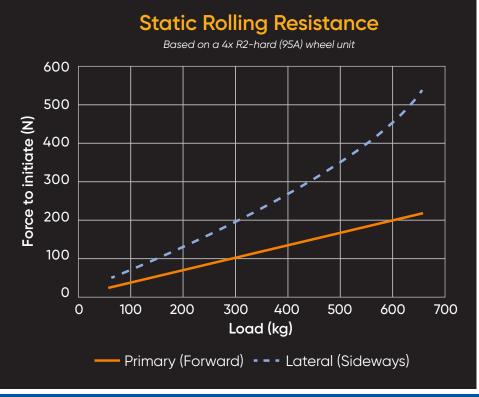
### rotacaster





**Fork Mount** 





# The toughest and smoothest ride in our range

Ideal for:

# Robotic mobility

(AMR/AGV)

# Ergonomic material handling

Conveyor transfers

### **OMNIA WHEEL**

## THE WORLD'S LEADING OMNI WHEEL



# When intuitive mobility and reliability matters

### **SIZES**

OMNIA omni wheels are available in a range of sizes: 35mm, 50mm, 90mm, 125mm, 150mm (coming soon) and 180mm.

### **APPLICATIONS**

Each wheel can be customised for manual and driven applications with a wide range of bearings, hub inserts and hexes.

### SURFACE SUITABILITY

Durometer (degree of hardness) influences the suitability of a wheel to different floor surfaces and applications. To ensure maximum performance and capability, OMNIA omni wheel are available in a range of durometers, from soft to solid.

## 180mm omni wheel

### THE OMNIA DIFFERENCE

OMNIA omni wheels respond immediately to the pressure applied to provide highly intuitive directional control, in any 360° horizontal vector. Highly stable, reliable and durable, there is no better omni wheel in the world.

### **BUILT TO LAST**

- · Innovative, patented omni wheel manufacturing process
- The most robust, impact and wear resistant omni wheels in the world
- Features heavy duty glass-filled polymer rollers across the main wheel (steel-free construction)
- · Non-corrosive and requires no lubricant
- Designed not to break or lose omni directional rollers
- Rigorously load capacity tested and backed by manufacturer's 12 month warranty
- Performs even in the harshest of industrial and weather conditions
- Proudly Australian designed and made

### HIGHLY ADAPTABLE

- Endless applications with the reliability needed for mission critical use
- · Compatible with multiple shaft sizes
- Suitable for use with steel bearings and accommodates a wide range of bearing sizes
- Suitable for driven and manual/rolling applications
- Suitable for use on all kinds of hard floors, without marking or scratching
- Can traverse gaps, grout lines, drains and uneven hard surfaces while continuing to provide a stable, smooth move for your application
- Ideal for use in confined spaces and where the ultimate in precise manoeuvrability is required



Intuitive robotic capability



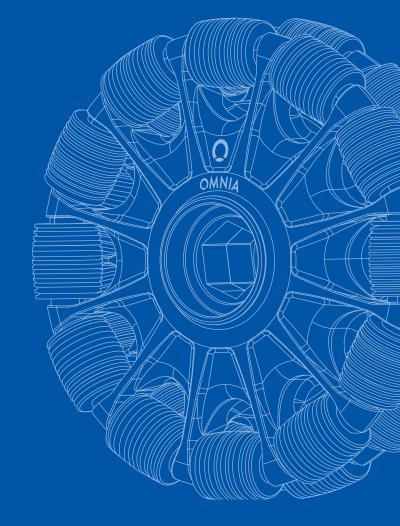
Superior ride quality



Confined space mobility



MAKING MOBILITY INTUITIVE



### **OMNIA Wheel Ltd**

7 Enterprise Drive Beresfield NSW 2322 Australia

omniawheel.com sales@omniawheel.com AU +61 2 4907 8100