

OMNIA WHEEL

MAKING MOBILITY INTUITIVE



The world's most intuitive
omni directional wheels

No swivel mounts
Turns without turning



Diameter



35mm



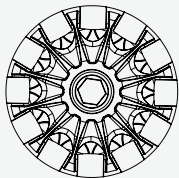
50mm



90mm



125mm



180mm

Configuration

Hub Width (mm)
Core part number



18.5

R2-0354



27.5

R2-0504



43

R2-0905



43

R2-1258



62

R3-1258



86

R4-1258



57

R2-1801



85

R3-1801

Roller Hardness
(Shore A) Colour

57

99

57

74

95

99

74

95

85

95

74

85

95

Load Capacity (Kg)
Wheel Weight (g)

2

5

5

15

25

30

75

115

R2

R3

R4

R2

R3

R4

R2

R3

R2

R3

R2

R3

12

13.5

34

38

38

43

190

195

115

125

200

130

160

220

308

470

616

150

175

150

225

792

1243

792

1243

796

1250

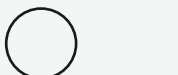
Bearing Seat/Bore

Diameter & bore type (mm)



8mm keyed

R2-0354-__-001



8mm plain

R2-0354-__-002



14mm Hex

R2-0504-__

w/16x5mm seat



19mm Hex

R20905

w/28x8mm seat



H19

R2-1258-__-H19



Standard

w/22x6mm seat



Modified Seat

(Seat size varies)



25.4mm hex

w/42x12mm seat

Bearing seat (mm)



A05

A06

A08



D06

S08

D08



HR11

D12

D13



S10

S12

S13

S15



S08

S10

Z09

Z10

N12

N13



S12

S13

S15



S20

Bearings/Bushings

Drive Inserts



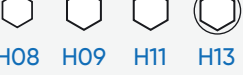
LX

VX



LX

VX



H08

H09

H11

H13



Adaptor

13-9613-01

14mm



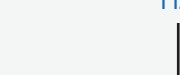
Mount

R2-1258-__-MF

Mount

R4-1258-__-MF

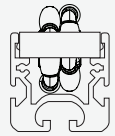
12-23SC-R_



Tophat insert

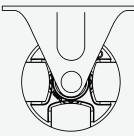
T12

Mounts



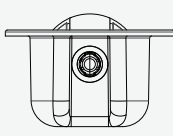
T-SlotInsert

R2-0354-__-TS



Mount

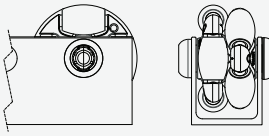
R2-0504-__-MF



Cup

R2-0504-__-MC06

R2-0504-__-MC12



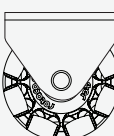
Channel

13-3008-13-H



Mount

R2-1258-__-MF



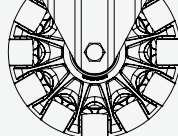
Mount

R4-1258-__-MF



Stair Climber

12-23SC-R_



Mount

R2-1801-__-MF

Legend:

Roller Material

57	TPE
74	PU
85	PU
95	PU
99	PBT SOLID

Bearing/Bush Type

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

Insert ID Sizing

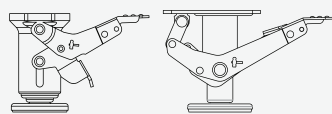
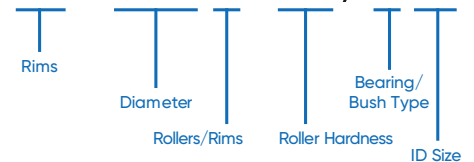
05	3 /16"	12	12mm
06	6mm	13	1/2"
07	1/4"	13+	1/2"+
08	8mm	14	14mm
09	3/8"	15	15mm
10	10mm	18	18mm
11	7/16"	19	3/4"
		20	20mm

MountType

CH	Channel,holed
MC	Cup
MF	Formed
MX	Formed no top plate

Part Numbers Explained

R2-0504-74/S08



Floor Locks

11-9003 11-9002

Conveyor transfers

Simple. Flexible. Scalable. Reliable.

OMNIA omni wheels are revolutionising conveyor transfers.

A single programmable omni wheel table caters to changing needs and offers endless diversion and sortation manipulations for large and small payloads.

No pop ups
No swivels
No pushers
No pneumatics



WATCH IT
IN ACTION



Ergonomic Materials Handling

Easier. Quicker. Safer.

OMNIA omni wheels are changing the way existing products are designed and used, delivering superior mobility, efficiency and safety for a wide range of floor wheel applications.

Space saving design
360° intuitive movement



Robotics (AGV and AMR)

Smooth. Precise. Fast.

OMNIA omni wheels enable movement within any vector from a standing position, making them the ideal choice for robotics applications.

No steel inserts or pins
Fully bushed rollers
Minimal roller play on axles
Fully injection moulded frame
Polyurethane or santoprene rollers



35mm



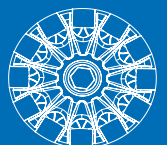
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