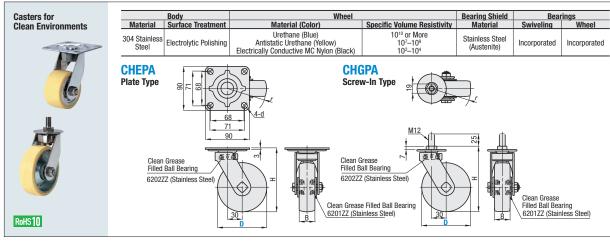
Vibration Damping Casters

Casters	g	02	S Seco		Body	1	Wheel	l l	Bearings	
0031013	Contraction of the second seco			Material	Surface Treatment	Material	Specific Vol			heel
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		V		Steel	Barror annung	Urethane	100 100 11	incorpo		
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Body Par Type Type	t Number Wheel D Material	H Stroke H ₁ (max.) H ₂ (mir	d E ₁ E ₂	2 ľ1	r ₂ Y ₁	Y ₂	K1 1	K ₂ B	*Nomina Load (N	
Swivel CMPI	R 100 S	162 148 180 166	8.8 20 34		85 71 103 77	78 83		46 <u>28</u> 52 32	300	110
Swivel + Stopper CMPR	Antistatic	162 148 180 166	8.8 20 34	4 95	<u>94</u> 71 110 77	78 83	61 4	46 <u>28</u> 62 32	300	12
Iominal load should be or use of 4 pcs.: Applic	selected within the range of able Load=Nominal Load x	an applicable load (ca 4 pcs. x Safety Ratio (b	rriages + load) appropriate to the etween 0.5 and 1.0)	allowable load rating	gs.					
bouy	t Number Wheel	H Stroke	E1 E2	r ₁ r ₂	Y ₁	1 ₂	K ₁ K ₂	В	*Nominal	Ma
Type Type Swivel CMP	100	H ₁ (max.) H ₂ (m 160 146	in)	71 85			1 46	28	Load (N)	(g) 106
Screw-In Swivel Screw- CMPG	Antistatic	178 164 160 146	25 39	89 103 95 94		3 <u>3</u> 7 786	7 <u>62</u> 146	32 28	300 300	121
In+Stopper	125 Orealiance	178 164	25 39	110 110	77 8	33 7	7 62	32	000	134
			_	110 110		<u>, , , , , , , , , , , , , , , , , , , </u>				1 104
Part Num Example		- Wheel Material		110 1 110		<u>, , , , , , , , , , , , , , , , , , , </u>				1 134
Example	CMPR100	- S						Vibration	h Absorption	
Example ield Problems Expe	CMPR100 ected with the Convent a conveyor machine due to	- S ional Wheels Vibration Transmission		Feature of C	aster with Vibrati ported equipment by at	on Damper	s	Vibration	h Absorption	
Example ield Problems Expe) Particles generated by When work is being com over steps or gratting su	CMPR100 ected with the Convent a conveyor machine due to veyed into a clean room, caste faces and vibrations from the	- S ional Wheels Vibration Transmission rs are travelling floor are transmitted		Feature of C – Protects transj damping vibra		on Damper osorbing and		Vibration	h Absorption	
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Example ield Problems Expp Particles generated by When work is being con over steps or grating su to the cart. Vibrations ca on important work.) eneration of Particles The vibrations from the and into the air, which c Dust sticks to the rubbe accumulate static electric the floor, and may cause asic Structure of V escelastic member. Shoos stepped terrain are about accleastic member. Shoos stepped terrain are about accelastic member. Shoos stepped terrain are about add casters on insufficie to urethane type on degris ovides excellence in saft effect of Vibration A	CMPR100 acted with the Convent a conveyor machine due to veyed into a clean room, caste fraces and vibrations from the in a los cause possible transmit s due to Vibrations casters movement may lift dus annot be avoided. asures vitrathane wheels of convention icity from the friction between a s apark. ibration Damper layer structure of a spring will ks received by a caster when ched by a spring, then dampen ched by a spring, and so adation-inducing durability los sty with no damping gas leaks bsorption	- S ional Wheels Whation Transmission Transmission floor are transmitted ting impacts t from the floor nal casters, which the wheels and thin a going over ned by a pring- magnetic sets. It also	Viscoelastic Medi	Feature of C. - Protects transp damping vibra - Controls partic and improves - Prevents static with antistatic Particulate C Particulate O Solution Solution Particle of Solution Soluti	ported equipment by at titons from the floor. sulate generation cause production yields. c electricity generated t wheels. Seneration Compa volume is reduced to or ulating Casters Normal C ume Resistivity of	on Damper sorbing and d by vibration: ny the floor rison ne-fourth 1/4.	s, Antistatic Wh Dust Size 5.0[µm] 2.0[µm] 0.7[µm] 0.5[µm]	veels	h Absorption	197
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Casters for Clean Environments

Load Rating /ibration Dam



	Body	Part Num	ber	Wheel Material	н	в	d		Allowable Load	Mass		Body	Part Num	nber	Wheel Material	u	D		Allowable Load	Mass
	Туре	Туре	D	wheel waterial	п	D	u		(N)	(g)		Туре	Туре	D	Wileer Material	п	D		(N)	(g)
	Quality	СНЕРА	S Antistatio	U Urethane	118	38	10.5	70	1000	1200	Swivel		0110004	75	U Urethane	122	38	70	000	1100
Swive	Swivei			S Antistatic Urethane D Conductive MC Nylon	130	32	10.5	83	1000	1350		+ Screw Fitting	GHGPA	100	S Antistatic Urethane D Conductive MC Nylon	134	32	83	800	1250

Antistatic Urethane (OCTRON) Wheel Properties

- Because of the antistatic effect, sparks and high-frequency noises are prevented.
- Conventional anti-static caster wheels may exhibit varying electrical resistivity depending on measured location on wheels, but the OCTRON urethane wheels have uniform resistivity regardless of the measured location, being effective in a wide voltage range.
- Due to lower hardness than ordinary urethane wheels (shore A67), vibration and noise on grating floor decreases.
- Because carbon black is not used, there is no contamination to the floor or dispersion of carbon to products.

Evaluation Condit Casters Running Time Ambience Temperature Humidity Particle Counter

Grease Performance Table

	Item	Conditions	Unit	Measurement Method	Low Particulate Generation Type		
				Methou	G Type		
	Thickener	—	—	—	Lithium Type		
	Base Oil	—	_	—	Mineral Oil + Synthetic Hydrocarbon Oil		
nce	Base Oil Kinetic	40°C	mm²/s	JIS K2220 5.19	30		
rma	Viscosity	100°C	11111-/5	JIS K2220 5.19	_		
Performance	Worked Penetration	—	—	JIS K2220 5.3	207		
Grease F	Dropping Point	_	°C	JIS K2220 5.4	200		
Grea	Evaporation Amount	99°C x 22hr	wt%	_	1.40%		
	Oil Separation	100°C x 24hr	wt%	JIS K2220 514	0.8%		
	Operating Temperature	In Air	°C	_	-1080		



	9		
	e/cf	1000	\vdash
	artic	800	\vdash
	se (P	600	\vdash
	t Rai	400	Η—
	Dus	200	⊬
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		0.	0
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	-		

Damper Type	Absorption	Transmission Time	Load	Safety	Life
No Damper (Normal Caster)	Poor	Poor	Excellent	Good	Good
Spring	Good	Poor	Acceptable	Good	Acceptable
Urethane Cushioned	Good	Acceptable	Acceptable	Acceptable	Poor
Shock Absorber	Good	Good	Acceptable	Poor	Acceptable
Casters with Vibration Dampers	Good	Excellent	Good	Good	Good

There's more on the web: misumiusa.com

Casters

Protrusion

Load

Testing Instrument

Protrusion Intervals

Running Speed

CMPG100-S (Vibrations Insulating Caster) Urethane Wheel Diameter Ø100 (Normal Casters)

Semicircle R = 2.5 mm

per 1m

201N

4 km/h 📌 MiSUMi

JIS B 8923 Compliant with Casters for Industrial Use



	Bearing Shield	Bear	ings	
ic Volume Resistivity	Material	Swiveling	Wheel	
10^{10} or More 10^{7} - 10^{9} 10^{2} - 10^{4}	Stainless Steel (Austenite)	Incorporated	Incorporated	

B	Part Number	Part Number] - [Wheel Material
	Example	CHEPA75	-	U

itions CMGN75-R(General Caster + Rubber Wheel Type)	Clean Room	
CHEPA75-S(Clean Caster + Antistatic Wheel Type) 2km/hr Inside Clean Booths (Class10) 23°C	Clean Booth	— HEPA Filter (P.2966)
40% Made by Rion Co. Ltd. 237B (Laser Type)	Particle Counter	— Test Caster — Rotary Drum

Particle Generation Comparison (0.3µm or More)

