omnitrack®

omnidirectional movement



Effortless precision

SINCE 1909

omnitrack®
omnidirectional movement

Effortless precision
Since 1909



Call, email or chat online.
Free technical advice now.

No minimum order charges.
Buy what you need now.

Rapid production of
a custom solution to
meet your needs.

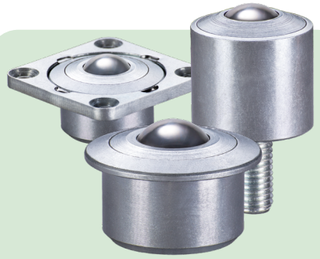
Immediate despatch from
stock & fast global delivery.

Original Patented design, tested &
manufactured in the UK since 1909.



HEAVY DUTY
Pages 4 - 7

- Low friction 0.005µ, highest loads
- Smooth & precise movement at any angle of orientation
- Material upgrade options for max life



MEDIUM DUTY
Pages 12 - 15

- Robust & precision machined
- MX, MV & MW 'Air-cargo' units
- Fixing clips & tolerance rings for rapid



LIGHT DUTY
Pages 16 - 17

- Pressed steel economy range
- Nylon, POM plastic & stainless range
- Cup & ball hemisphere design



omnicaster
PLASTIC CASTORS
Pages 18 - 19

- Suitable for delicate surfaces
- Fast directional change
- Self-cleaning in operation



omnifloat
GLASS HANDLING
Page 20

- Glass & sheet handling
- Hard-wearing/high-heat upgrade
- Stainless steel for wet areas



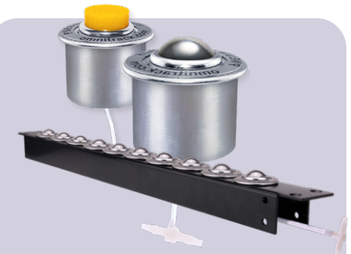
omniwheel
CONVEYOR ROLLERS
Pages 22 - 23

- Outdoor, dusty & washdown use
- Gravity, driven & bearing hubs
- Powered & driven conveying



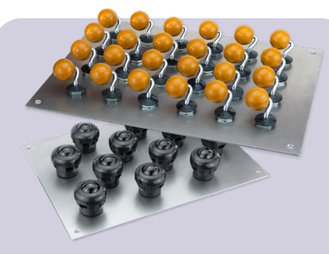
SPRING LOADED
Pages 8 - 9

- Low friction, highest shock remittance
- Inverted orientation operation
- Pre-loaded spring deflection & die lifters



PNEUMATIC
Pages 10 - 11

- Pop-up ball units, stops, wheels & rails
- Modular live/dead control flexibility
- Installation tubing, regulators & ancillaries



BALL TABLES & PLATFORMS
Page 24 - 25

- Configure your ideal conveying plane
- Standard sizes dispatched from stock
- Custom built tables & platforms



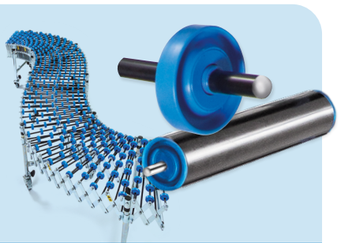
BALL RAILS
Page 26

- Chrome steel, stainless or POM ball units
- Bolt together or interlink with spacer tubes
- Adjustable 'bolt down' fixing brackets



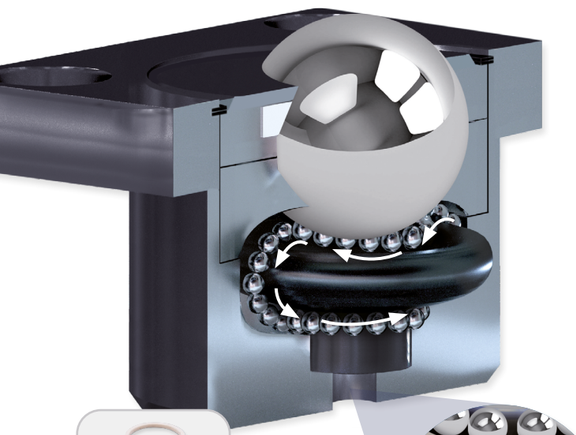
BALL SKATES
Page 27

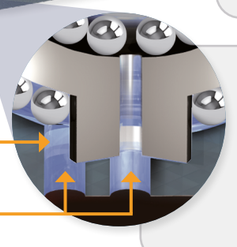
- Move equipment, shelving & machinery
- Low profile & fits standard shelf legs
- Parking brake & optional load plate



FLEXIBLE CONVEYORS
Page 21

- Negotiate bends-mobile expandable concertina
- Skatewheel & gravity roller conveyor options
- Adjustable working height





Felt seal
9000 Series only

Lubricant
Mobil Vactra 1 Oil

A & **Standard**
Single Drain Channel

Z & SS
2 x Drain Channels

18000 LBS
Maximum load rating unaffected at any orientation

Low friction
1 : 0,005

High Shock Resistance

Temperature
-22/320°F

Speed
6 ft/sec

Drain / Debris Channels
9000 Series only

User Serviceable
9000 Series only

Precision Machined Construction

STARDARD MATERIALS: AISI 52100 high chrome steel balls & internal load bearing components. "Anti-Oxide" electrophoretic coating (>350 hours IsO salt resistance) of precision machined steel housing.

Solve specific application requirements by upgrading standard materials.

Select option below by adding suffix:

	Corrosion	Contamination	Temperature		Radiation
A STAINLESS STEEL BALLS UPGRADE AISI 440C stainless steel balls, internal components as standard. "Anti-Oxide" housing. Load rating as standard & remains unaffected.	✓	✓	✓	✓	✓
Z ARDUOUS CONDITIONS UPGRADE AISI440C stainless steel balls & load-bearing internal components. "Anti-Oxide" outer housing. Load rating as standard & remains unaffected.	✓✓	✓✓	✓✓	✓	✓
SS ALL STAINLESS STEEL UPGRADE AISI440C stainless steel balls & load-bearing internal components. AISI 304 outer housing. Load rating as standard & remains unaffected.	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
PB PHENOLIC RESIN BALL OPTION Minimise marking of delicate surfaces. Friction, wear & temperature properties change - consult us if in doubt. Reduced load ratings indicated.					

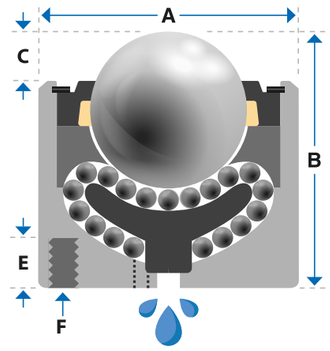
BALL Ø	0.5"	1"	1.5"+
PB LOAD (lbs)	22	65	75

omnitrack® Heavy Duty
TECHNICAL ADVICE · ORIGINAL MANUFACTURER SINCE 1909 · CUSTOM DESIGN

80 & 90 Series - *PLAIN FIT* A Z SS PB

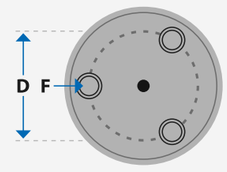


Fixing Options
Page 15



8020, 8030 & 8040 only

PART	D Ø (inch)	E (X3)	F X PITCH
8020	0.630	0.236	M4 x 0.7
8030	0.788	0.236	M5 x 0.8
8040	1.024	0.315	M6 x 1.0



PART	LOAD (lbs)	BALL Ø	A	B	C
8000	120	½"	0.787	0.787	0.156 ●
8001	120	½"	0.812	0.750 ✱	0.156 ●
8010	120	½"	0.875	0.87"	0.156 ●
8020	200	⅝"	0.944	1.141	0.197
8030	275	¾"	1.181	1.338	0.236
8040	400	1"	1.496	1.771	0.314
9020	500	1"	1.732	1.625	0.219
9021	500	1"	1.75"	1.625	0.219
9022	500	1"	1.75"	1.625	0.281
9030	850	1"	1.968	1.75"	0.25"
9031	850	1"	2"	1.75"	0.25"
9040	2500	1½"	2.362	2.421	0.5"
9041	2500	1½"	2.375	2.421	0.5"
9042	2500	1½"	2.375	2.375	0.5"
9050	5000	2"	3.937	3.74"	0.562
9051	5000	2"	4"	3.875	0.562
9060	10000	3"	6.297	5.703	0.825
9070	18000	4"	8.969	7.484	1.5"

✱ 9001 - spigot 0.125"" x 0.313"" Ø""
● Further 0.059"" @ 0.041"" Ø""

PART	LOAD (lbs)	BALL Ø	A	B	C	D	E	F
8100	120	½"	0.787	0.750	0.156 ✱	0.640	-	M8 x 1.25
8101	120	½"	0.812	0.750	0.156 ✱	1.125	-	M8 x 1.25
8102	120	½"	0.812	0.750	0.156 ✱	1.125	-	5/16"UNF
8112	120	½"	0.875	0.875	0.156 ✱	1.000	-	5/16"UNF
8120	200	⅝"	24AF⬡/27.7Ø	1.023	0.197	0.787	-	M12 x 1.75
8130	275	¾"	30AF⬡/34.9Ø	1.220	0.236	0.984	-	M16 x 2.0
8140	400	1"	38AF⬡/43.9Ø	1.653	0.315	1.181	-	M20 x 2.5
9120	500	1"	1.734	1.902	0.219	0.984	-	M12 x 1.75
9123	500	1"	1.734	1.859	0.219	0.984	0.236	M12 x 1.75
9124	500	1"	1.750	1.859	0.281	1.000	0.236	1/2"UNF
9130	850	1"	1.969	2.016	0.250	0.984	-	M12 x 1.75
9133	850	1"	1.969	1.984	0.250	0.984	0.236	M12 x 1.75
9134	850	1"	2.000	1.984	0.250	1.000	0.236	1/2"UNF
9135	850	1"	2.000	1.656	0.250	2.362	0.390	1"UNF
9140	2500	1½"	2.362	2.891	0.500	1.578	-	M20 x 2.5
9143	2500	1½"	2.362	2.813	0.500	1.578	0.390	M20 x 2.5
9144	2500	1½"	2.375	2.813	0.500	1.500	0.390	3/4"UNF
9145	2500	1½"	2.375	2.359	0.500	2.953	0.236	1"UNF
9150	5000	2"	3.937	4.134	0.562	2.126	-	M24 x 3.0
9153	5000	2"	3.937	4.296	0.562	1.969	0.421	M24 x 3.0
9154	5000	2"	4.000	4.296	0.562	2.000	0.421	1"UNF
9160	10000	3"	6.297	5.703	0.828	2.250	-	1"UNF
9163	10000	3"	6.297	5.703	0.828	3.937	0.590	M30 x 3.5

✱ Further 0.059"" @ 0.041"" Ø""
81 & 91 Series units omit drain/debris channel - contact us if required

81 & 91 Series
THREADED STUD A Z SS PB



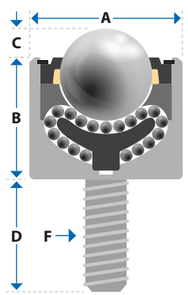
8120, 8130 & 8140
HEXAGON BODY



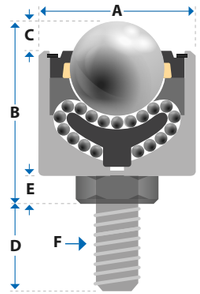
81 & 91 Series
ENDING 0, 1, 2 & 5



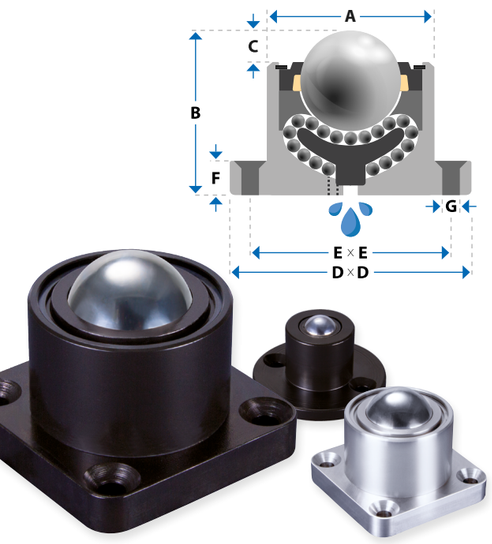
91 Series
ENDING 3 & 4



81 & 91 Series
ENDING 0, 1, 2 & 5 & HEXAGON BODY



91 Series
ENDING 3 & 4



82 & 92 Series - *FLANGE MOUNTED* A Z SS PB

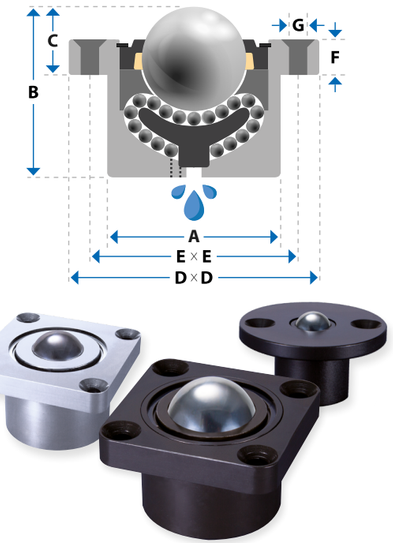
PART	LOAD (lbs)	BALL Ø	A	B	C	D X D Ø	E X E	F	G Ø
8200	120	½″	0.938	0.875	1.156 ✱	1.750 ●	1.375	0.125	2 x 0.141
8210	120	½″	0.938	0.875	1.156 ✱	1.875 x 1.250 +	1.375	0.078	2 x 0.156 ▶
8220	200	⅝″	24	39	5	40 ●	1.260	0.157	4 x 1.771 ▶
8230	275	¾″	30	34	6	50 ●	1.575	0.197	4 x 1.771 ▶
8240	400	1″	38	45	8	60 ●	1.929	0.236	4 x 1.771 ▶
9220	500	1″	1.734	1.625	0.219	2.250	1.750	0.188	4 x 0.240
9221	500	1″	1.750	1.625	0.281	2.250	1.750	0.188	4 x 0.240
9230	850	1″	1.969	1.750	0.250	3.000	2.281	0.250	4 x 0.319
9240	2500	1½″	2.362	2.422	0.500	3.000	2.281	0.500	4 x 0.319
9241	2500	1½″	2.375	2.375	0.500	3.000	2.281	0.500	4 x 0.319
9250	5000	2″	3.938	3.875	0.562	5.000	4.000	0.375	4 x 0.437 ▶
9260	10000	3″	6.297	5.709	0.825	6.891	5.709	0.590	4 x 0.516
9270	18000	4″	8.969	7.480	1.500	9.250	7.500	0.984	4 x 0.634

● Circular flange
+ **8210** - Elliptical flange
✱ Further 0.059"" @ 0.041"" Ø""
▶ Not countersunk

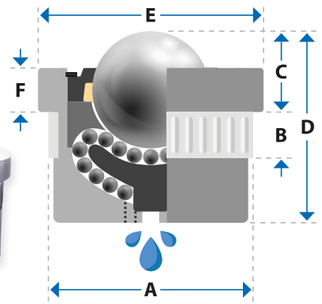
83 & 93 Series - *FLANGE SOCKET MOUNTED* A Z SS PB

PART	LOAD (lbs)	BALL Ø	A	B	C	D X D Ø	E X E	F	G Ø
8300	120	½″	0.937	0.875	0.438	1.750 ●	1.375	0.125	2 x 0.141
8310	120	½″	0.937	0.875	0.313	1.875 x 1.250 +	1.375	0.078	2 x 0.156 ▶
8320	200	⅝″	0.945	1.142	0.433	1.575 ●	1.260	0.236	2 x 0.177 ✱
8330	275	¾″	1.181	1.338	0.511	1.968 ●	1.575	0.275	2 x 0.177 ✱
8340	400	1″	1.496	1.771	0.630	2.362 ●	1.929	0.315	2 x 0.177 ✱
9320	500	1″	1.734	1.625	0.406	2.250	1.750	0.188	4 x 0.240
9321	500	1″	1.750	1.625	0.469	2.250	1.750	0.188	4 x 0.240
9330	850	1″	1.969	1.750	0.500	3.000	2.281	0.250	4 x 0.319
9341	1100	1½″	2.362	2.363	1.000	3.000	2.281	0.500	4 x 0.319
9350	2200	2″	3.937	3.740	1.313	5.000	4.000	0.750	4 x 0.437
9351	2200	2″	4.000	3.875	1.437	5.000	4.000	0.875	4 x 0.437
9352	2200	2″	4.313	3.875	1.313	5.000	4.000	0.750	4 x 0.406 ▶
9360	4550	3″	6.297	5.709	1.417	6.890	5.709	0.594	4 x 0.516

● Circular flange
+ **8310** - Elliptical flange
✱ Counterbore
▶ Not countersunk







88 & 98 Series - *TOLERANCE RING*

PART	LOAD (lbs)	BALL Ø	A	B	C	D	E	F
8810	120	½″	0.866	0.472	0.234	0.828	0.945	0.094
9820	500	1″	1.772 ✱	0.594	0.551	1.578	1.929	0.272
9830	850	1″	1.969 ✱	0.630	0.591	1.734	2.165	0.339
9840	2500	1½″	2.559 ✱	0.787	0.984	2.362	2.756	0.484
9850	5000	2″	3.937 ✱	0.945	1.181	3.750	4.331	0.618

✱ Bore Ø ISO H9 fit

Spares & Service Kits

Omnitrack Heavy Duty 9000 series ball transfers - In continuous production since 1954.

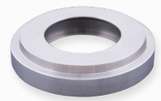
Rapidly restore performance within minutes by using Service Kits S1 & S2 offering 2 levels of components & full overhaul instructions.

Factory reconditioning service for spring loaded & custom units as these may require special tooling for safe disassembly.

To order state original part number, any identification mark & Service Kit required eg S1-9241. If in doubt, contact us & we'll keep you rolling!



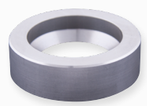

1 - Circlip S2


2 - Top Cap


3 - Felt Seal S1 S2 (Ball Ø > ½″)


4 - Main Ball S1 S2


5 - Recirculating Balls S1 S2


6 - Retainer S2

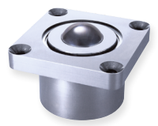

7 - Table S2

DISMANTLE **ASSEMBLE**



Anti-oxide Electrophoretic black finish

> 330 hours ISO salt resistance



Stainless Steel Units

- natural finish

Replacement felt seals

9000 Series only
S1 & S2 Kits

Lubricant

Mobil Vactra 1 Oil - except SS units

Component materials & corrosion resistance



SS	'All Stainless steel'	1	1	1	2	3	3
Z	'Arduous Conditions'	4	4	1	5	3	3
A	'Stainless steel balls, other materials as standard'	4	4	6	5	3	6
	Standard Materials	4	4	6	5	6	6

1 AISI 304 stainless steel
2 AISI 302 stainless steel
3 AISI 440 stainless steel
4 AISI 1050 'Anti-oxide' finish
5 AISI 1070 carbon steel
6 AISI 52100 chrome steel

omnitrack
Spring Loaded

Max Capacity: 18000 LBS
Maximum load rating unaffected at any orientation

Low friction 1 : 0,005

Speed 6 ft/sec

Temperature -22/+320°F

High Shock Resistance

Uneven Loads

Factory Refurbishment 9000 Series only

STARDARD MATERIALS: AISI 52100 high chrome steel balls & Anti-Oxide electrophoretic coated machined steel housing. Spring mechanism parts in carbon spring steel irrespective of material upgrade options below.

Solve specific application requirements by upgrading standard materials. **Select option below by adding suffix:**	Corrosion	Contamination	Temperature		Radiation
A **STAINLESS STEEL BALLS UPGRADE:** AISI 440C stainless steel balls, internal components as standard. "Anti-Oxide" housing. Load rating as standard & remains unaffected.	✓	✓	✓	✓	✓
Z **ARDUOUS CONDITIONS UPGRADE:** AISI440C stainless steel balls & load-bearing internal components. "Anti-Oxide" outer housing. Load ratings & spring values as standard & remain unaffected.	✓✓	✓✓	✓✓	✓	✓
SS **ALL STAINLESS STEEL UPGRADE:** AISI440C stainless steel balls & load-bearing internal components. AISI 304 outer housing. Load ratings & spring values as standard & remain unaffected.	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓

84 & 94 Series
EXTERNAL SPRING LOADED

A Z SS

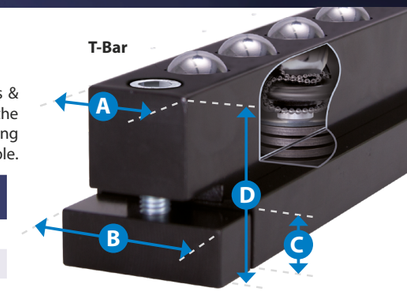


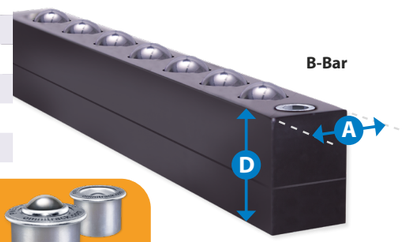
PART	BALL Ø	PRE-LOAD (lbs)	MAX DE-FLECTION ADVISED	LOAD AT MAX DEFLECTION (lbs)	A	B	C	D	E	FIXING HOLES (PCD)	G
8401	½"	15	0.080	70	0.812	1.266	1.859	0.581	0.787	-	0.156✱
8402	½"	30	0.080	77	0.812	1.250	1.859	0.581	0.787	-	0.156✱
8403	½"	50	0.080	84	0.812	1.266	1.859	0.581	0.787	-	0.156✱
8404	½"	50	0.080	84	0.787	1.266	1.859	0.581	0.787	-	0.156✱
8410	½"	15	0.080	70	0.875	1.535	1.859	0.581	0.787	-	0.156✱
8411	½"	30	0.080	77	0.875	1.516	1.859	0.581	0.787	-	0.156✱
8412	½"	30	0.080	84	0.875	1.531	1.859	0.581	0.787	-	0.156✱
9420	1"	15	0.213	300	1.750	2.437	3.031	0.750	1.250	3 x M5 (0.969)	0.219
9421	1"	50	0.197	300	1.750	2.422	3.031	0.750	1.250	3 x M5 (0.969)	0.219
9422	1"	100	0.172	300	1.750	2.398	3.031	0.750	1.250	3 x M5 (0.969)	0.219
9423	1"	150	0.209	300	1.750	2.433	3.031	0.750	1.250	3 x M5 (0.969)	0.219
9424	1"	200	0.109	450	1.750	2.422	3.031	0.750	1.250	3 x M5 (0.969)	0.219
9425	1"	240	0.102	450	1.734	2.484	3.031	0.750	1.250	3 x M5 (0.969)	0.219
9430	1"	200	0.303	730	2.000	3.181	3.750	0.750	1.500	3 x M6 (1.142)	0.250
9431	1"	300	0.250	730	2.000	3.134	3.750	0.750	1.500	3 x M6 (1.142)	0.250
9432	1"	400	0.228	730	2.000	3.169	3.750	0.750	1.500	3 x M6 (1.142)	0.250
9433	1"	500	0.181	730	2.000	3.188	3.750	0.750	1.500	3 x M6 (1.142)	0.250
9440	1½"	500	0.413	2116	2.375	4.528	6.382	1.375	2.339	3 x M6 (2.000)	0.500
9441	1½"	700	0.438	2116	2.375	4.766	6.382	1.375	2.339	3 x M6 (2.000)	0.500
9442	1½"	1000	0.438	2116	2.375	5.087	6.382	1.375	2.339	3 x M6 (2.000)	0.500
9443	1½"	1250	0.344	2116	2.375	5.000	6.382	1.375	2.339	3 x M6 (2.000)	0.500
9444	1½"	1500	0.359	2116	2.375	5.760	7.469	1.375	2.339	3 x M6 (2.000)	0.500
9445	1½"	1650	0.323	2116	2.375	6.156	7.469	1.375	2.339	3 x M6 (2.000)	0.500
9450	2"	1680	0.080	3086	4.000	5.476	6.312	2.000	4.000	4 x M8 (3.000)	0.563
9451	2"	1680	0.209	3086	4.000	6.891	7.906	2.244	4.000	4 x M8 (3.000)	0.563
9452	2"	2245	0.234	3086	4.000	6.984	7.906	2.244	4.000	4 x M8 (3.000)	0.563
9453	2"	2800	0.234	3968	4.000	6.875	7.906	2.244	4.000	4 x M8 (3.000)	0.563
9454	2"	3000	0.098	4409	4.000	5.390	6.234	2.000	4.000	4 x M8 (3.000)	0.563
9455	2"	3370	0.225	4488	4.000	6.750	7.906	2.244	4.000	4 x M8 (3.000)	0.563

✱ Further 0.059"" @ 0.041"" Ø""

T-Bars & B-Bars
A SS

T & B bars incorporate Heavy Duty spring-loaded ball units for accurate positioning & effortless conveying of tools & dies on press & machine beds. Once positioned, clamp the tool & the springs allow the ball units to retract beneath the bed. Unclamp & the ball units will raise the tool above the bed ready to convey again. T-Bars feature an integral locking mechanism. B-Bars are locked using recessed M8 cap screw (requires drilling & tapping of the bed). Custom sizes available.



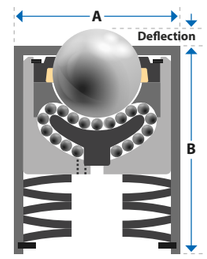


BAR	A	B	C	D	BAR LENGTH (inch)	SUPPORTS LOAD / BAR (lbs)	DEFLECTION (inch)	LOAD AT MAX DEFLECTION (lbs)	BALL / BAR
T-20	0.787	1.339	0.390	1.375	11.813	494	0.102	776	8
T-22	0.866	1.453	0.625	1.500	13.500	556	0.102	873	9
T-24	0.945	1.656	0.709	1.656	16.344	617	0.102	970	10
T-28	1.102	1.812	0.787	1.890	12.000	679	0.102	1067	11
T-36	1.417	2.205	0.984	2.406	13.593	556	0.102	873	9
B-21	0.812	-	-	1.000	9.844	370	0.102	582	6
B-22	0.875	-	-	1.184	15.562	494	0.102	776	8
B-25	1.000	-	-	1.500	13.781	672	0.102	1067	11

Spring Loaded Ball Transfers
A Z SS

Omnitrack Heavy Duty spring loaded units are ideal where uneven track conditions or shock loading occurs. Internal springs offer full retraction of the ball within the housing. We can tailor spring pre-loads, deflections & characteristics to your requirem.

Also consider: PNEUMATIC Page 10



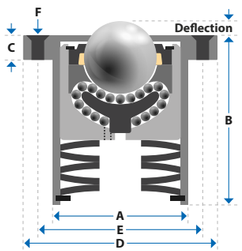
85 & 95 Series - *HOUSED SPRING LOADED*
A Z SS

PART	SUPPORTS LOAD (lbs)	DEFLECTION (inch)	LOAD AT MAX DEFLECTION (lbs)	BALL Ø	A	B
8500	50	0.087	84	½"	1.0✱	1.000
8501	26	0.125	101	½"	1.0✱	1.000
9520	200	0.188	414	1"	2.000	2.188
9530	500	0.094	809	1"	2.500	2.375
9540	992	0.391	2116	1½"	2.750	4.500
9550	2200	0.240	4409	2"	4.719	5.468

✱ 0.315"" wide (fine) knurl on outside Ø""



Fixing Options Page 15

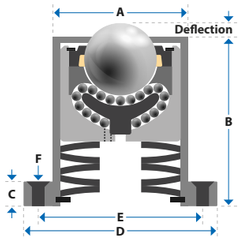


86 & 96 Series - *FLANGE SOCKET SPRING LOADED*
A Z SS

PART	SUPPORTS LOAD (lbs)	DEFLECTION (inch)	LOAD AT MAX DEFLECTION (lbs)	BALL Ø	A	B	C	D	E (PCD)	F Counter-sunk
8601	26	0.125	101	½"	1.000	1.000	0.197	1.969	1.422	2 x 0.203
9620	200	0.188	414	1"	2.000	2.188	0.234	3.150	2.563	3 x 0.234
9630	500	0.094	809	1"	2.500	2.375	0.234	3.938	3.156	3 x 0.313
9640	992	0.391	2116	1½"	2.750	4.500	0.391	4.531	3.625	3 x 0.398
9650	2200	0.240	4409	2"	4.719	5.468	0.472	6.500	5.516	3 x 0.398



87 & 97 Series - *FLANGE MOUNTED SPRING LOADED*
A Z SS



PART	SUPPORTS LOAD (lbs)	DEFLECTION (inch)	LOAD AT MAX DEFLECTION (lbs)	BALL Ø	A	B	C	D	E (PCD)	F Counter-sunk
8701	26	0.125	101	½"	1.000	1.000	0.197	1.969	1.422	2 x 0.203
9720	200	0.188	414	1"	2.000	2.188	0.234	3.150	2.563	3 x 0.234
9730	500	0.094	809	1"	2.500	2.375	0.234	3.938	3.156	3 x 0.313
9740	992	0.391	2116	1½"	2.752	4.500	0.391	4.531	3.622	3 x 0.398
9750	2200	0.240	4409	2"	4.719	5.468	0.472	6.500	5.516	3 x 0.398



Pneumatic Ball Transfers, Stops & Linear Rollers

Pneumatic Ball Units allow air-driven positioning of omnidirectional ball transfers & may be individually arranged for a flexible, modular conveying plane.

PS25 Positioning Stops are pneumatically activated to stop & hold the position of the conveyed item.



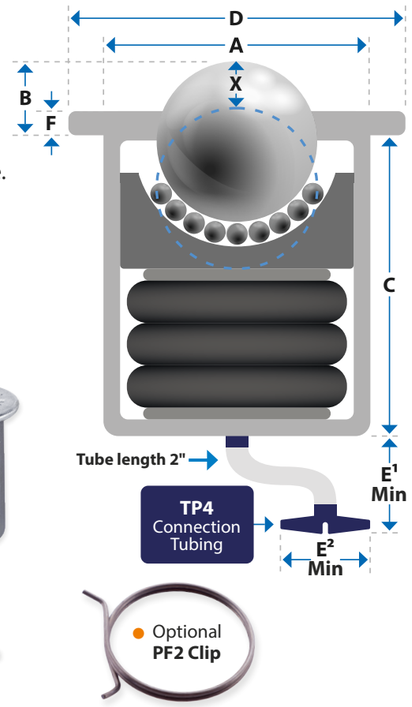
PB25
Ball ●



PS25
Stop ●



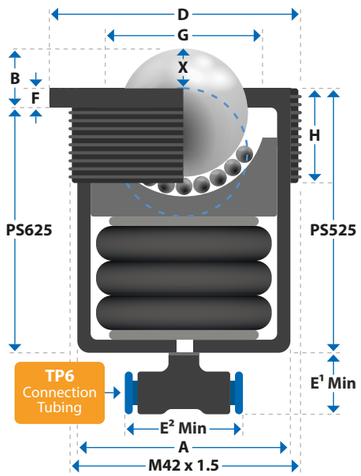
PW25
Roller



Units rated with a maximum air supply pressure of ≤3.4 bar support loads of up to 550 lbs/rail whilst those rated at ≤6 bar air supply support up to 5500 lbs/rail.

PART	LIFT (lbs)	BAR	A	B	C	D	E¹ MIN	E² MIN	F	G	H	X
PB25	25	3.4	1.563	0.475	1.253	1.85	15	37	0.1			0.375
PS25	9	3.4	1.563	0.54	1.253	1.85	15	37	0.1			0.44
PW25	30	3.4	1.78 x 1.2 ✱	0.475	1.253	2.10 x 1.53 ✱	15	37	0.1			0.375
PB625	35	6	40	12.1	58	50	39	46	2.5	2x4.2Ø @34PCD	18	9.6
PB525	35	6	40	-	58	42	39	46	-	2x4.2Ø @34PCD	20	9.6

✱ Oval Stainless steel balls - add suffix 'A' Delrin (POM) ball option - add suffix 'D'



PB525



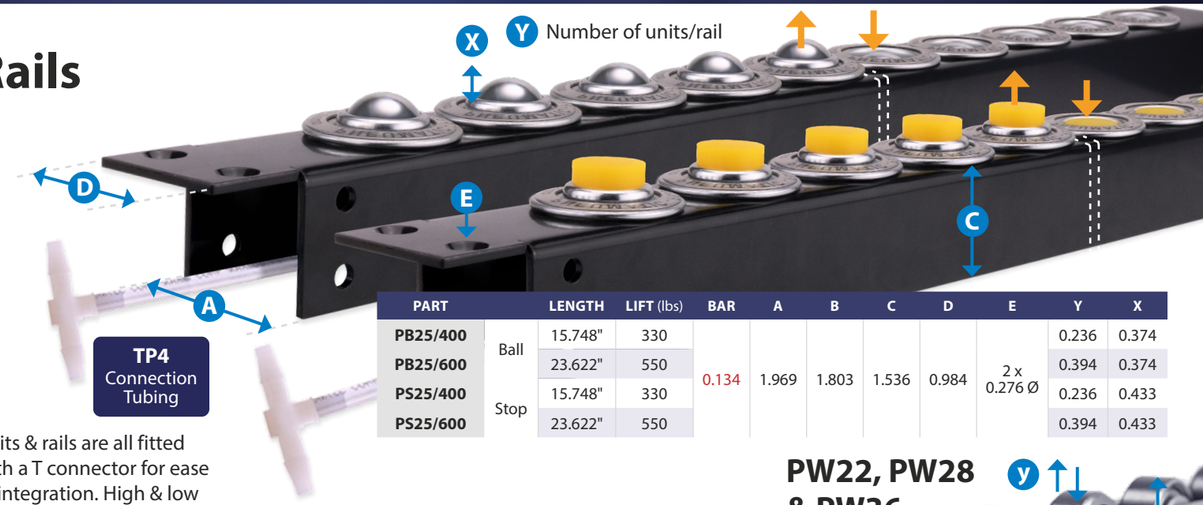
PB625





Optional PF4 - Fitting & adjustment collar

Rails



PART		LENGTH	LIFT (lbs)	BAR	A	B	C	D	E	Y	X
PB25/400	Ball	15.748"	330	0.134	1.969	1.803	1.536	0.984	2 x 0.276 Ø	0.236	0.374
PB25/600	Ball	23.622"	550	0.134	1.969	1.803	1.536	0.984	2 x 0.276 Ø	0.394	0.374
PS25/400	Stop	15.748"	330	0.134	1.969	1.803	1.536	0.984	2 x 0.276 Ø	0.236	0.433
PS25/600	Stop	23.622"	550	0.134	1.969	1.803	1.536	0.984	2 x 0.276 Ø	0.394	0.433

Units & rails are all fitted with a T connector for ease of integration. High & low pressure tubing, connectors & end-plugs. Configure together with switches & regulators to provide versatile control.

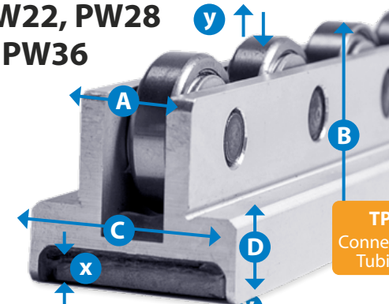
In low pressure systems, tubing length should be extended or altered using optional in-line connectors (TC4) as the tubing & fittings are not designed to be separated once assembled.

Appropriate blanking plugs are automatically supplied with each order.

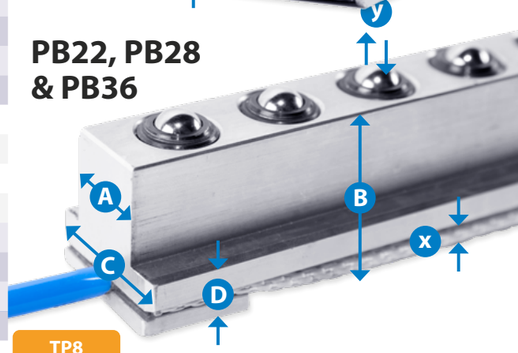
Alternative ball materials & sizes available.

PART	LENGTH	LIFT (lbs)	BAR	A	B	C	D	X	Y
PB22 & PW22/300	11.811	860	6	0.847	1.496	1.476	0.590	0.138	0.276
PB22 & PW22/600	23.622	1720	6	0.847	1.496	1.476	0.590	0.138	0.590
PB22 & PW22/800	31.496	1040	6	0.847	1.496	1.476	0.590	0.138	0.787
PB22 & PW22/1000	39.370	2290	6	0.847	1.496	1.476	0.590	0.138	0.984
PB28 & PW28/300	11.811	1120	6	1.063	1.850	1.772	0.630	0.157	0.276
PB28 & PW28/600	23.622	2250	6	1.063	1.850	1.772	0.630	0.157	0.590
PB28 & PW28/800	31.496	2300	6	1.063	1.850	1.772	0.630	0.157	0.787
PB28 & PW28/1000	39.370	3750	6	1.063	1.850	1.772	0.630	0.157	0.984
PB36 & PW36/300	11.811	1650	6	1.260	2.244	2.244	0.787	0.177	0.276
PB36 & PW36/600	23.622	3300	6	1.260	2.244	2.244	0.787	0.177	0.590
PB36 & PW36/800	31.496	4409	6	1.260	2.244	2.244	0.787	0.177	0.787
PB36 & PW36/1000	39.370	5510	6	1.260	2.244	2.244	0.787	0.177	0.984

PW22, PW28 & PB36



PB22, PB28 & PB36



TP8 Connection Tubing

Integral Fluid Trap

AV6





Connectors & Tubing

	PART	ITEM
4 bar Low Pressure	TP4	4 bar Tubing - 118"" roll""
	TB4	4 bar Blanking plug
	TC4	4 bar 3-way connector
6 bar High Pressure	TP6	6 bar Tubing - 118"" roll""
	TP8	6 bar Tubing - 118"" roll""
	TB6	6 bar Blanking plug
	TC6	6 bar 3-way connector

Switches

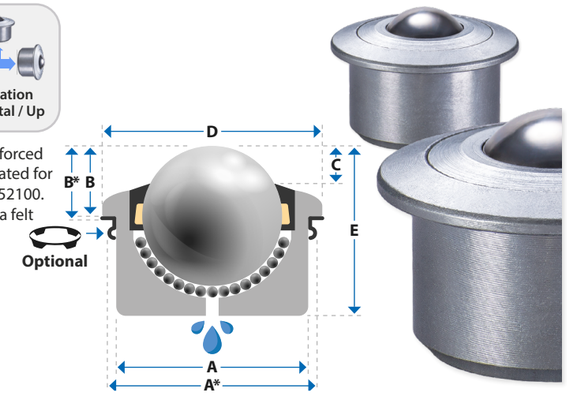
AS6 2-way



AS7 3-way

Low friction 1 : 0,02 · Speed 3 ft/sec · Temperature -22/+212°F · Shock Resistance · Orientation Horizontal / Up

Medium Duty ball units are machined from solid steel & case hardened for wear resistance. Reinforced machined steel top cap protect against impact from misalignment of the conveyed item. Lubricated for life & zinc plated for resistance to corrosion. Standard materials; Body & cap AISI 1015, Balls AISI 52100. Stainless steel upgrade A & 'SS' feature AISI420 balls & body. Main ball sizes ≥19mm incorporate a felt seal to minimise contamination. 'M', 'MF', 'MG' & 'MS' Series feature a single drain hole.



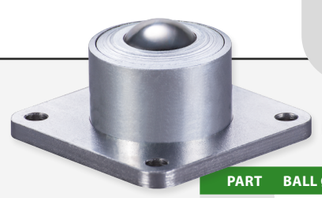
M Series - *PUSH FIT*

	MAXIMUM LOAD CAPACITY & NETT WEIGHT (lbs)															
	Standard – Chrome steel bearings, zinc plated body & cap		A – Stainless steel balls, zinc plated body & cap		D – Nylon load ball, zinc plated body & cap		SS – Stainless steel balls, body & cap									
PART	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	BALL Ø	A	A*	B	B*	C	D	E
M12 ✱	55	0.084	44	0.084	11	0.068	44	0.084	½"	0.866		0.315		0.126	1.063	0.657
M14	132	0.117	110	0.117	22	0.086	88	0.112	⅝"	0.945	0.984 - 1.004	0.319	0.331	0.197	1.181	0.787
M15 ✱	132	0.130	110	0.130	22	0.097	88	0.128	⅝"	0.945	0.984 - 1.004	0.374	0.386	0.157	1.220	0.827
M22	397	0.417	397	0.414	44	0.331	278	0.414	⅞"	1.417	1.457 - 1.465	0.386	0.398	0.150	1.772	1.201
M25 ✱	441	0.425	309	0.423	55	0.302	309	0.423	1"	1.496		0.512		0.236	1.811	1.201
M30	772	0.794	772	0.787	55	0.611	485	0.787	1 3/16"	1.772	1.823 - 1.839	0.543	0.552	0.228	2.165	1.449
M45	1323	2.227	1323	2.205	55	1.565	772	2.249	1¾"	2.441	2.480 - 2.500	0.748	0.760	0.354	2.953	2.106
M60	3307	8.180	2425	8.422	N/A	N/A	2315	8.444	2⅜"	3.937		1.181		0.591	4.606	3.051

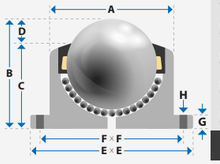
✱ Denotes pressed top cap · When using K clips dimensions A & B change to A* & B*

Fixing Options: Page 15.



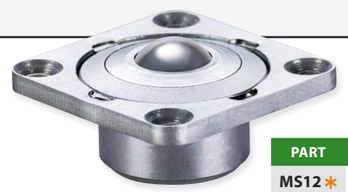


MF Series - *BOTTOM FLANGE*

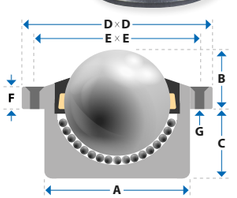


	MAXIMUM LOAD CAPACITY & NETT WEIGHT (lbs)												
	Standard		A		D								
PART	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	BALL Ø	A	B	C	D	E X E	F X F	G	H
MF12 ✱	55	0.227	44	0.227	11	0.220	½"	0.941	0.813	0.677	0.138	1.750 ●	1.375	0.125	2 x 0.141
MF15	132	0.108	110	0.106	22	0.196	⅝"	0.945	0.787	0.630	1.197	1.772	1.260	0.197	4 x 0.181
MF22	397	0.390	397	0.567	44	0.483	⅞"	1.417	1.201	1.023	0.177	2.250	1.750	0.197	4 x 0.219
MF30	772	1.105	772	1.111	55	0.917	1 3/16"	1.772	1.449	1.193	0.256	3.000	2.281	0.250	4 x 0.281
MF45	1323	2.509	1323	2.575	55	2.046	1¾"	2.441	2.106	1.772	0.335	3.346	2.717	0.250	4 x 0.281

✱ Denotes pressed top cap · ● MF12 has a 1.75"" circular flange with 2 fixing holes""



MS Series - *TOP FLANGE*



	MAXIMUM LOAD CAPACITY & NETT WEIGHT (lbs)												
	Standard		A		D								
PART	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	BALL Ø	A	B	C	D X D	E X E	F	G
MS12 ✱	55	0.227	44	0.220	11	0.220	½"	0.941	0.378	0.437	1.750 ●	1.375	1.125	2 x 0.141
MS15	132	0.130	110	0.130	22	0.097	⅝"	0.945	0.445	0.382	1.772	1.260	0.197	4 x 0.181
MS22	397	0.417	397	0.414	44	0.331	⅞"	1.417	0.465	0.736	2.250	1.750	0.197	4 x 0.219
MS30	772	0.794	772	0.787	55	0.611	1 3/16"	1.772	0.661	0.787	3.000	2.280	0.250	4 x 0.281
MS45	1323	2.227	1323	2.205	55	1.565	1¾"	2.441	0.866	1.240	3.346	2.717	0.375	4 x 0.281

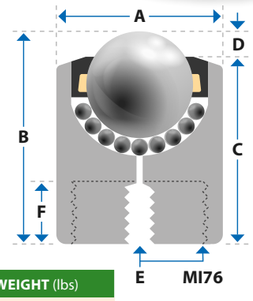
✱ Denotes pressed top cap · ● MF12 has a 1.75"" circular flange with 2 fixing holes""

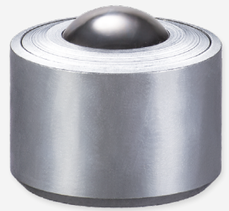
MI Series
INTERNAL THREAD FIXING

	MAXIMUM LOAD CAPACITY & NETT WEIGHT (lbs)															
	Standard		A		D											
PART	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	BALL Ø	A	B	C	D	E	F	LOAD	WEIGHT	LOAD	WEIGHT
MI12 ✱	55	0.110	44	0.110	11	0.095	½"	0.866	0.945	0.807	0.138	M8 x 1.25	0.197	55	0.110	44	0.110	11	0.095
MI15	132	0.163	110	0.163	22	0.134	⅝"	0.945	1.102	0.906	0.197	M8 x 1.25	0.315	132	0.163	110	0.163	22	0.134
MI22	397	0.560	397	0.564	44	0.463	⅞"	1.417	1.594	1.417	0.177	M8 x 1.25	0.394	397	0.560	397	0.564	44	0.463
MI30	772	1.014	772	0.992	55	0.794	1 3/16"	1.772	1.843	1.528	0.256	M8 x 1.25	0.394	772	1.014	772	0.992	55	0.794
MI45	1323	2.601	1323	2.579	55	2.094	1¾"	2.441	2.500	1.988	0.354	M8 x 1.25	0.394	1323	2.601	1323	2.579	55	2.094
MI76 ●	2200	13.36	2200	13.338	55	10.064	3"	5.000	3.992	3.075	0.917	3.5" x 8 TPI NPSM	1.467	2200	13.36	2200	13.338	55	10.064

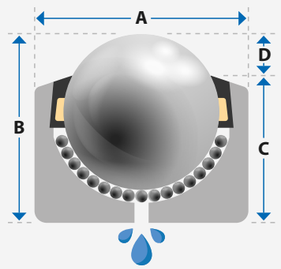
✱ Denotes pressed top cap · ● **MI76 only** - User Serviceable







MG Series
PLAIN FITTING



	MAXIMUM LOAD CAPACITY & NETT WEIGHT (lbs)											
	Standard		A		D							
PART	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	BALL Ø	A	B	C	D	
MG8 ✱	29	0.037	22	0.040	11	0.036	5/16"	0.709	0.472	0.394	0.079	
MG10	55	0.062	44	0.062	11	0.049	½"	0.787	0.650	0.531	0.118	
MG12 ✱	55	0.077	44	0.075	11	0.060	½"	0.866	0.689	0.551	0.118	
MG15	132	0.108	110	0.106	22	0.077	⅝"	0.945	0.787	0.591	0.197	
MG22	397	0.390	397	0.392	44	0.309	⅞"	1.417	1.201	1.023	0.177	
MG30	772	0.739	772	0.745	55	0.551	1 3/16"	1.772	1.449	1.193	0.256	
MG45	1323	2.072	1323	2.138	55	0.609	1¾"	2.441	2.106	1.772	0.354	
MG60	3307	8.047	2425	7.915	N/A	N/A	2⅜"	3.937	3.051	2.402	0.650	
MG76	5512	18.960	3748	18.960	N/A	N/A	3"	5.118	4.055	3.150	0.906	
MG90	7716	24.934	5291	24.934	N/A	N/A	3½"	5.709	4.528	3.543	0.984	

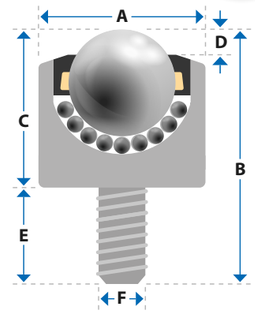
✱ Denotes pressed top cap · Dimension A changes when using fixing clips (Page 15)

MSP Series - *BOLT FITTING*

	MAXIMUM LOAD CAPACITY & NETT WEIGHT (lbs)											
	Standard		A		D							
PART	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	BALL Ø	A	B	C	D	E	F
MSP8 ✱	29	0.046	18	0.046	7	0.042	5/16"	0.709	1.063	0.472	0.079	0.591	M6 x 1.0
MSP10	55	0.079	44	0.079	11	0.068	½"	0.787	1.173	0.701	0.118	0.472	M8 x 1.25
MSP11	55	0.097	44	0.095	11	0.088	½"	0.787	1.890	0.787	0.118	1.102	M6 x 1.0
MSP12 ✱	55	0.086	44	0.086	11	0.086	½"	0.866	1.673	0.886	0.118	0.787	M8 x 1.25
MSP14	132	0.121	110	0.143	22	0.093	⅝"	0.945	1.260	0.788	0.197	0.472	M6 x 1.0
MSP15	132	0.183	110	0.183	22	0.152	⅝"	0.984	1.811	1.024	0.197	0.787	M8 x 1.25
MSP19	165	0.240	121	0.249	44	0.194	¾"	1.181	1.831	1.024	0.189	0.807	M8 x 1.25
MSP22	397	0.564	397	0.564	44	0.441	⅞"	1.417	2.476	1.476	0.177	1.000	M12 x 1.75
MSP30	772	0.970	772	0.948	55	0.763	1 3/16"	1.772	2.724	1.724	0.256	1.000	M12 x 1.75
MSP45	1323	2.998	1323	2.976	55	2.425	1¾"	2.441	4.224	2.598	0.335	1.626	M20 x 2.5

✱ Denotes pressed top cap









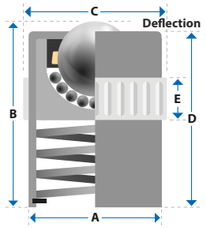
Low friction
1 : 0,02

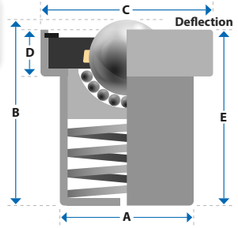
Speed
3 ft/sec

Temperature
-22/+212°C

Shock
Resistance

Orientation
Horizontal / Up





MN / MM Series - *HOUSED SPRING LOADED*

PART	SUPPORTS LOAD (lbs)	DEFLECTION (inch)	LOAD AT MAX DEFLECTION (lbs)	BALL Ø	A	B	C	D	E
MN12	88	0.060	198	½"	0.941	1.181	0.965	1.122	0.413
MN16	132	0.060	243	⅝"	1.177	1.417	1.201	1.358	0.413
MN25	220	0.060	386	1"	1.567	1.890	1.594	1.831	0.413
MN30	739	0.060	1290	1 3/16"	1.965	2.362	1.988	2.303	0.484
MM22	154	0.177	198	⅞"	1.535	2.283	1.969	0.551	2.106
MM30	298	0.276	375	1 3/16"	1.909	2.756	2.441	0.689	2.480
MM45	507	0.413	639	1¾"	2.618	3.957	3.346	1.004	3.543

A **STAINLESS STEEL BALLS UPGRADE:** Improved corrosion resistance with no change in load or spring values. Add suffix A

Alternative spring-loaded & pneumatic solutions:
Pages 8 - 11.



MV, MX & MW - *AIR CARGO BALL UNITS*



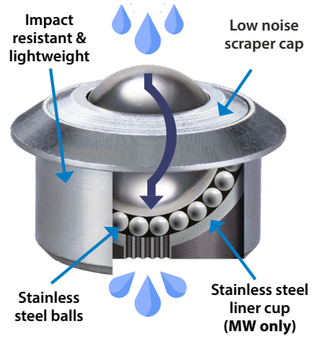
Compliant with ISO Air cargo industry standards these units utilise stainless steel (AISI 420) balls recirculating within a precision machined Steel (AISI 1015) housing. All models feature fluid drain & omit felt seal. Consult page 15 for C-type (stainless steel) & K-type (spring steel) optional fixing clips.

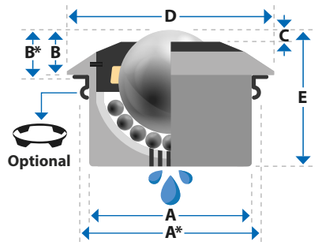
SERIES	HIGH TEMPERATURE	LOAD & SHOCK	LOW NOISE	CORROSION RESISTANCE	CONSTRUCTION FEATURES
MV	✓✓	✓✓✓	✓✓✓	✓✓	E Light weight construction
MX	✓✓✓	✓✓	✓✓	✓	SS Stainless Steel
MW	✓	✓	✓	✓✓✓	SL Stainless Liner Cup

MV Imperial Series: Moulded scraper cap reduces weight & noise levels during operation. Self-cleaning multiple drain slots. Compact inch series dimensions ideal for high-density ball cargo decks.

MX Cargo Series: Steel scraper cap protects against impact damage from misaligned loads. Multiple debris/drain channels rapidly eject contamination & fluid.

MW Washdown Series: Internal stainless steel liner cup provides a cost efficient alternative to all stainless steel construction. Effective corrosion resistance & fluid draining in washdown applications. Also available in all stainless steel.





PART	LOAD (lbs)	BALL Ø	WITHOUT CLIP A	WITHOUT CLIP B	WITH K-TYPE CLIP #	WITH K-TYPE CLIP A*	WITH K-TYPE CLIP B*	C	D	E	DRAIN CHANNELS	WEIGHT (lbs)
MV30	772	1 3/16"	1.772	0.543	K30	1.811 - 1.831	0.555	0.217	1.969	1.370	4 slots	0.639
MX30	772	1 3/16"	1.772	0.543	K30	1.811 - 1.831	0.555	0.217	2.165	1.449	7 holes	0.783
MW30	485	1 3/16"	1.772	0.543	K30	1.811 - 1.831	0.555	0.217	2.165	1.449	5 holes	0.743
MX45	1323	1¾"	2.441	0.748	K45	2.480 - 2.500	0.760	0.354	2.953	2.106	7 holes	2.227
MW45	992	1¾"	2.441	0.748	K45	2.480 - 2.500	0.760	0.354	2.953	2.106	1 hole	2.116

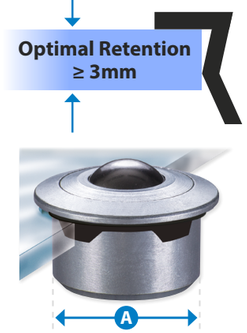
Fixing clips change A & B values to A* & B

K & C Type Clips

- Compensate for irregularities in bore & diameter.
- Ideal where only single-sided access of mounting surface is reachable.

MEDIUM DUTY	LIGHT DUTY	CLIP	A	BORE Ø MIN / MAX
M12		K12	22	23 - 23.5
M14 - M15 - MG15	L15 - LP15	K15	0.945	0.984-1.004
		C15	0.945	0.976-0.984
M22 - MG22	L22 - LP22	K22	1.417	1.457-1.476
		C22	1.417	1.457-1.465
M30 - MG30 - MV30 MX30 - MW30	L30 - LP30	K30	1.772	1.811-1.831
		C30	1.772	1.823-1.839
M45 - MG45 - MX45 - MW45	L45 - LP45	K45	2.441	2.480-2.500

Clips made from Spring Steel – 0.3mm thick. The projection is increased by 0.3mm when using the clips.



1 Fit clip to mounting bore.
2 Push ball unit though clip.
3 Peripheral tags expand & grip the ball unit.



K-clip Spring Steel



C-clip Stainless Steel



Other clips available.

Tolerance Rings

- Compensate for irregularities in bore & diameter.
- Ideal where only single-sided access of mounting surface is reachable.

HEAVY DUTY	MEDIUM DUTY	LIGHT DUTY	PART	A	BORE Ø MIN / MAX	B
	MG8		TR18	0.709	0.760 - 0.770	0.236
8000 | 8001 *	MG10		TR20	0.787	0.858 - 0.868	0.472
8010 *	M12 | MG12		TR20	0.866	0.937 - 0.947	0.472
8300 * | 8310 *	M14 | M15 | MG15	L15 | LP15	TR24	0.945	1.010 - 1.020	0.591
8500 * | 8501 * | 8601 *			TR25	0.984	1.071 - 1.081	0.315
	M22 | MG22	L22 | LP22	TR36	1.417	1.488 - 1.496	0.472
9020 * | 9021 * | 9022 * 9320 * | 9321 *	M30 | MG30 | MV30 MX30 | MW30	L30 | LP30	TR45	1.772	1.843 - 1.850	0.591
9030 | 9031 * | 9330 | 9520 *			TR50	1.969	2.043 - 2.051	0.591
9040 | 9041 * | 9042 * | 9341			TR60	2.362	2.445 - 2.453	0.787
9530 *	M45 | MG45 MX45 | MW45	L45 | LP45	TR60	2.362	2.531 - 2.539	0.787
9540 * | 9640 *			TR60	2.756	2.836 - 2.841	0.787
9050 | 9350 | 9051 *	M60 | MG60		TR100	3.937	4.085 - 4.096	0.866

Bore Ø specifications change when using Tolerance Rings. Contact us if in doubt
* Ø Min / Max tolerance varies







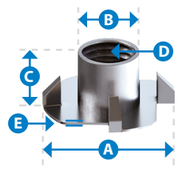
98 Series - Page 6.

Nyloc Nut & Washer + 'T' Wood Insert Kits

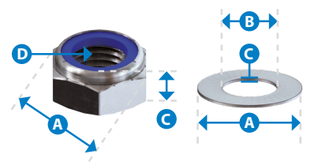
Use with Heavy Duty 81 & 91 series, Medium Duty MSP series & Omnicaster Ball Casters.



Wood Insert Fixing



Nut & Washer Fixing



MODEL	8100 | 8101 MSP10 | MSP12 MSP15 | MSP19 OC30 | OC30F			OC35 | OC50 OC55 | OC55B			9120 | 9123 9130 | 9133 MSP22 | MSP30 OC100 | OC100B		
FIXING	T8	N8		T10	N10		T12	N12	
A	0.875	0.567	0.630	0.984	0.744	0.787	1.063	0.831	0.945
B	0.358	0.512	0.315	0.441	0.669	0.394	0.551	0.748	0.472
C	0.433	0.315	0.063	0.516	0.394	0.079	0.551	0.472	0.098
D	M8 x 1.25	M8 x 1.25		M10 x 1.5	M10 x 1.5		M12 x 1.75	M12 x 1.75	
E	0.051	-	-	0.055	-	-	0.071	-	-

Other thread types & sizes available on request



Low friction 1 : 0,03

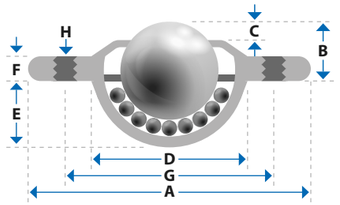
Speed 3 ft/sec

Temperature -4/+176°F

Orientation Horizontal / Up

Economy & Value

LD - *SATURN TYPE*



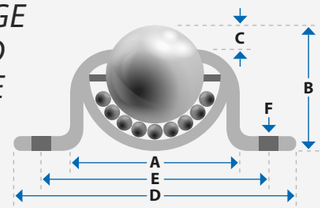
Pressed steel Saturn units are easily secured or riveted using integral fixing holes & are ideal for many light duty, low profile conveying applications. Models feature single drain hole & felt seal except LD16. LD32-SS & LD32/3-SS omit felt seal, other variants feature 7 rapid drain holes.

										MAXIMUM LOAD CAPACITY & NETT WEIGHT (kg)							
										Standard — Carbon steel balls, zinc plated pressings		A — Stainless steel balls, zinc plated pressings		D — Nylon load ball, zinc plated pressings		SS — Stainless steel balls & pressings	
PART	BALL Ø	A	B	C	D	E	F	G	H	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT
LD16	⅝"	1.614	0.422	0.197	0.945	0.335	0.125	1.181	2 x 0.134	33	0.098	22	0.098	22	0.066	N/A	0.031
LD19	¾"	2.406	0.394	0.125	1.145	0.472	0.125	1.750	2 x 0.201	55	0.197	55	0.195	44	0.139	55	0.190
LD19/3	¾"	2.406	0.394	0.125	1.145	0.472	0.125	1.750	3 x 0.201	55	0.195	55	0.193	44	0.139	55	0.190
LD23	⅞"	1.772	0.391	0.244	1.297	0.703	0.141	1.535	3 x 0.138	265	0.211	198	0.212	50	0.130	N/A	N/A
LD25	1"	2.875	0.563	0.250	1.469	0.625	0.141	2.188	2 x 0.201	120	0.374	120	0.366	55	0.242	120	0.379
LD25/3	1"	2.875	0.563	0.250	1.469	0.625	0.141	2.188	3 x 0.201	120	0.371	120	0.367	55	0.243	120	0.377
LD26	1"	2.203	0.578	0.307	1.417	0.609	0.130	1.772	2 x 0.157	132	0.276	88	0.277	50	0.154	N/A	N/A
LD32	1¼"	2.906	0.641	0.313	1.796	0.781	0.165	2.313	2 x 0.201	275	0.593	275	0.593	N/A	N/A	275	0.564
LD32/3	1¼"	2.906	0.641	0.313	1.796	0.781	0.165	2.313	3 x 0.201	275	0.592	275	0.588	N/A	N/A	275	0.561

ID32-SS & LD32/3-SS units feature 7 fluid drain holes & omit felt seal

LF - *FLANGE MOUNTED 2 & 4 HOLE*





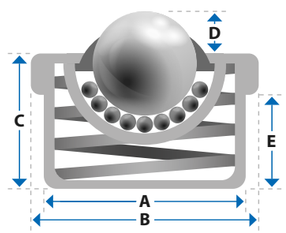
High profile, surface mounted units with fixing flange. Pressed steel construction with either 2 or 4 fixing points. LF26 units incorporate 2 slots rather than holes to accommodate varying fixing centres (55.9mm - 60.3mm). LF units feature debris drain hole. Models LF25 & LF38 omit felt seal.

								MAXIMUM LOAD CAPACITY & NETT WEIGHT (kg)							
								Standard — Carbon steel balls, zinc plated pressings		A — Stainless steel balls, zinc plated pressings		D — Nylon load ball, zinc plated pressings		SS — Stainless steel balls & pressings	
PART	BALL Ø	A	B	C	D	E	F	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT
LF25	1"	1.656	1.188	0.312	2.750 x 2.0	2.189	2 x 0.221 Ø	125	0.311	N/A	N/A	N/A	N/A	N/A	N/A
LF26	1"	1.781	1.234	0.250	2.718 x 2.0	2.203 x 2.375	2 x 0.217 x 0.303 slot	125	0.342	125	0.340	60	0.214	125	0.333
LF38	1½"	2.625	1.813	0.375	3.000 x 3.0	2.468 x 2.468	4 x 0.281 Ø	250	1.146	N/A	N/A	N/A	N/A	N/A	N/A

LM - *CASED SPRING LOADED*

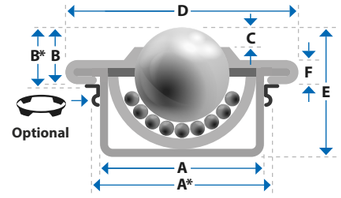


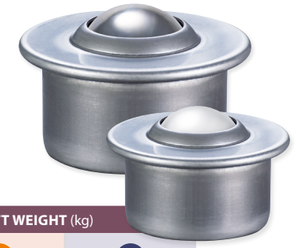
Load equalising spring loaded unit with integral moulded nylon seal. Internal coil spring deflects for biased loads or to compensate for surface irregularities. Carbon chrome balls & zinc plated pressings.



PART	SUPPORTS LOAD (lbs)	DEFLECTION (inch)	LOAD AT MAX DEFLECTION	BALL Ø	A	B	C	D	E	NETT WEIGHT (lbs)
LM25	45	0.172	120	1"	1.713	1.938	1"	0.406	0.625	0.384

L - *PUSH FIT & CLIP FIXING RANGE*





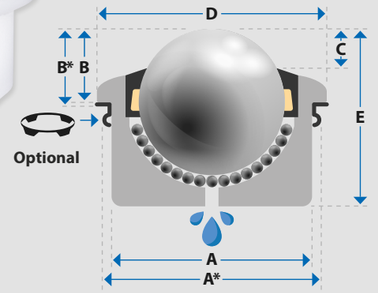
Push fit retention for rapid installation & replacement where only single-sided access of mounting surface is reachable. Compensate for irregularities in seating bore diameter using optional (spring steel) K-clips, or (stainless steel) C-clips. When using optional clips dimensions 'A' & 'B' become 'A*' & 'B*'. K-clip seating bore values are shown below. See page 15 for all fixing clips & tolerance ring details.

								MAXIMUM LOAD CAPACITY & NETT WEIGHT (kg)							
								Standard — Carbon steel balls, zinc plated pressings		A — Stainless steel balls, zinc plated pressings		D — Nylon load ball, zinc plated pressings		SS — Stainless steel balls & pressings	
PART	BALL Ø	A & A*	B & B*	C	D	E	F	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT	LOAD	WEIGHT
L15	⅝"	0.945	0.375	0.181	1.219	0.828	0.109	135	0.089	135	0.087	22	0.058	85	0.086
L15-K	⅝"	0.984 - 1.004	0.386	0.181	1.219	0.828	0.109	135	0.089	135	0.087	22	0.058	85	0.086
L22	⅞"	1.417	0.386	0.154	1.772	1.161	0.114	350	0.282	350	0.276	44	0.194	200	0.276
L22-K	⅞"	1.457 - 1.476	0.398	0.154	1.772	1.161	0.114	350	0.282	350	0.276	44	0.194	200	0.276
L30	1 3/16"	1.772	0.543	0.268	2.165	1.457	0.141	600	0.557	600	0.548	55	0.339	450	0.597
L30-K	1 3/16"	1.812 - 1.831	0.555	0.268	2.165	1.457	0.141	600	0.557	600	0.548	55	0.339	450	0.597
L45	1¾"	2.441	0.748	0.354	2.953	2.106	0.156	1200	1.587	1200	1.565	N/A	N/A	575	1.565
L45-K	1¾"	2.480 - 2.50	0.760	0.354	2.953	2.106	0.156	1200	1.587	1200	1.565	N/A	N/A	575	1.565

All variants with 0.866"" & 1.181"" main balls feature a felt seal""
Values A & B change to A* & B* when using K-clips



LP - *ALL PLASTIC & CLIP FIXING RANGE*



machined Acetal (POM) plastic housing fitted with either Acetal (POM) balls or AISI 316 stainless steel balls (add suffix A).

- Resists salt water & chemical attack.
- Non conductive & non magnetic.
- Suited to antimicrobial applications.

Optional fixing clips & rings - Page 15.
Spring steel K-clips & C-clips / tolerance rings in stainless steel.

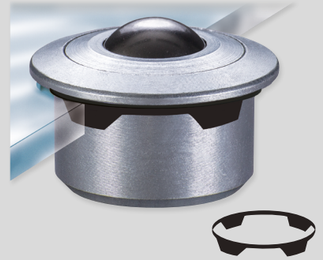
							MAXIMUM LOAD CAPACITY & NETT WEIGHT (kg)			
							Standard — Acetal (POM) housing & bearings		A — Acetal (POM) housing & AISI 316 Stainless steel bearings	
PART	BALL Ø	A & A*	B & B*	C	D	E	LOAD	WEIGHT	LOAD	WEIGHT
LP15	⅝"	0.945	0.315	0.188	1.181	0.787	15	0.021	15	0.059
LP15-K	⅝"	0.984 - 1.004	0.326	0.188	1.181	0.787	15	0.021	15	0.059
LP22	⅞"	1.417	0.386	0.177	1.772	1.203	22	0.078	22	0.110
LP22-K	⅞"	1.457 - 1.476	0.398	0.177	1.772	1.203	22	0.078	22	0.115
LP30	1 3/16"	1.772	0.543	0.228	2.165	1.457	33	0.144	33	0.384
LP30-K	1 3/16"	1.812 - 1.831	0.555	0.228	2.165	1.457	33	0.144	33	0.384
LP45	1¾"	2.441	0.748	0.335	2.953	2.106	45	0.402	45	1.102
LP45-K	1¾"	2.480 - 2.50	0.760	0.335	2.953	2.106	45	0.402	45	1.113

Values A & B become A* & B* when using K-clips
All LP series omit felt seal

Fixing Clips

K-clips spring steel
C-clips stainless steel

- Compensate for irregularities in bore & diameter.
- Ideal where only single-sided access of mounting surface is reachable.



Adding suffix K or C to ball unit part number will specify supply of the optional clip (eg L22K or L22C).

When using clips, fit the clip to the bore & then push the ball unit through the clip. Peripheral tags expand & securely retain the ball unit.

Dimensions A & B change to A* & B* when using clips. Tolerance ring & full clip options shown on page 15.



Brake Option

Rapid Drain

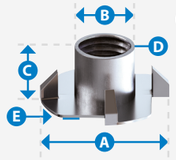
Delicate Contact

Speed 3 ft/sec

Temperature -4/+140°F

- Fast directional change - Easier steering than traditional casters.
- Glide smoothly over carpet, wood & marble floors.
- Multiple drain channels expel debris & fluids.
- Effortlessly convey delicate materials with minimal damage.

Optional Fixing Kits



Wood Insert Fixing



Nut & Washer Fixing

MODEL	OC30 | OC30F			OC35 | OC50 OC55 | OC55B			OC100 | OC100B		
FIXING	T8	N8		T10	N10		T12	N12	
A	0.875	1.567	0.630	1.0	0.744	0.787	1.063	0.831	0.945
B	0.359	0.512	0.316	0.441	0.669	0.394	0.551	0.748	0.472
C	0.438	0.316	0.063	0.516	0.394	0.078	0.551	0.472	0.098
D	M8 x 1.25	M8 x 1.25		M10 x 1.5	M10 x 1.5		M12 x 1.75	M12 x 1.75	
E	0.051	-	-	0.056	-	-	0.078	-	-

Metric dimensions subject to general tolerance of +/- 0.012"""""

OC30 & OC30F





Fixing Options



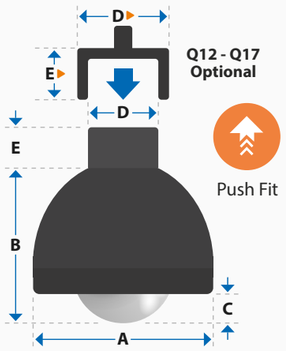
N8 & N10 | T8 & T10

Push Fit

PART	OC30 & OC30F *
MAX LOAD	66 lbs
BALL Ø	1 3/16"
A	2.512
B / B	2.106 / 2.047 *
C / C	0.354 / 0.295 *
D / D Ø	0.984 / 1.260 ▶
E / E	0.512 / 0.709 ▶

▶ Values using Quick Fit adaptors
* Fixed / Non rolling caster





Q12 - Q17 Optional

Push Fit

Quick Fit Adaptors

OC35

Fixing Options



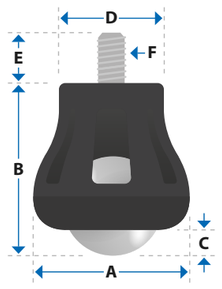
N10 | T10





Debris Exit

PART	OC35
MAX LOAD	66 lbs
BALL Ø	1 3/16"
A	2.362
B	2.362
C	0.378
D Ø	1.732
E	0.984
F	M10 x 1.5



OC50

Fixing Options

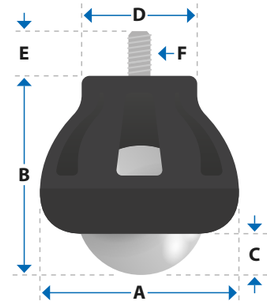


N10 | T10



Debris Exit

PART	OC50
MAX LOAD	130 lbs
BALL Ø	2"
A	2.953
B	3.031
C	0.701
D	1.732
E	0.984
F	M10 x 1.5



OC55 & OC55B



Fixing Options

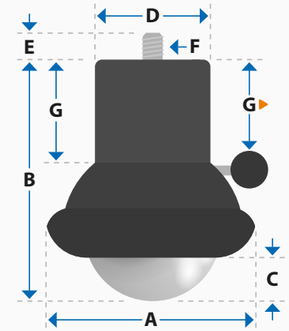


N10 | T10



Brake Option

PART	OC55 & OC55B
MAX LOAD	130 lbs
BALL Ø	2"
A	2.992
B	3.307
C	0.531
D Ø	1.623
E	0.591
F	M10 x 1.5
G	1.358" (OC55)
G ▶	1.024" (OC55B)



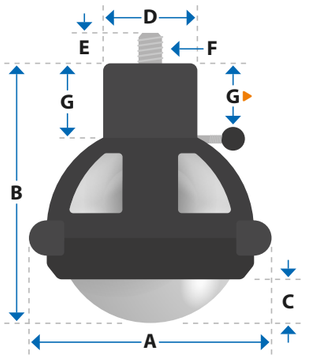
OC100 & OC100B





PART	OC100 & OC100B
MAX LOAD	175 lbs
BALL Ø	4"
A	5.630
B	5.965
C	1.142
D Ø	2.283
E	0.984
F	M12 x 1.75
G	1.812" (OC100)
G ▶	1.339" (OC100B)

Metric dimensions subject to general tolerance of +/- 0.012"""""



Debris Exit

Brake Option

Fixing Options



N12 | T12



Omnifloat castors allow smooth conveying & directional change with minimal damage to delicate surfaces. Specified throughout the glass handling industry for conveying glass through wet, corrosive, dusty & high temperature processes.

Omnifloats are typically supplied with a 50% mix of 'left hand' & 'right hand' swivel trail. We recommend fitting the casters in a regular, alternate pattern to minimise bias & provide a neutral conveying plane.

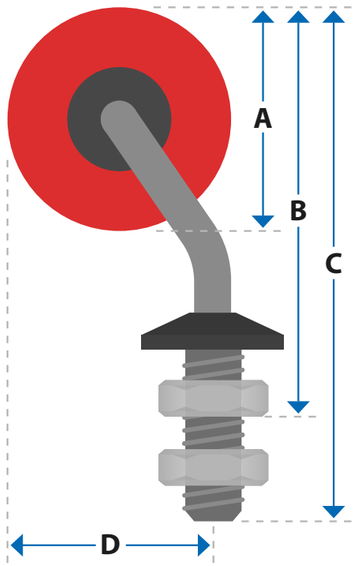
Replacement balls available as spares. Alternative materials can be retro-fitted for extended durability & service.

Contaminated environments

Temperature -4/+300°F

Replacement parts

PART	MAX LOAD (lbs)	A BALL Ø	B MIN - MAX	C	D	THREAD
OF 35-55	40	1⅜"	2.125 - 2.992	3.622	1.083	M14 x 1.5
OF 35-75	40	1⅜"	2.125 - 2.795	3.425	1.476	M14 x 1.5
OF 50-100	50	2"	2.717 - 3.583	4.213	1.969	M14 x 1.5



TO ORDER:

1. Select model OF35-55 / OF35-75 / OF50-100.
2. Specify Ball material: R = Rubber, P = Polyurethane & HT = High Temperature (i.e. OF35-75HT).
3. Stainless Steel Arm required? Add suffix SS (otherwise zinc plated steel arm).

Replacement balls available as spares. Alternative materials can be retro-fitted for extended durability & service.

SUFFIX	SPECIFY MATERIAL	REPLACEMENT BALL # 1⅜"	2"
R	**Rubber Ball** Better grip (Black). 70 Shore A -4°F to +175°F	S35R	S50R
P	**Polyurethane Ball** Wear resistant (Caramel). 92 Shore A -4°F to +175°F	S35P	S50P
HT	**High Temperature** Heat resistant (Red). 80 Shore A -4°F to +300°F	S35HT	S50HT
SS	**Corrosion / Chemical attack** Specify Stainless Steel Arm (AISI 304). Standard arm is zinc plated steel (AISI 1113).		



Remove



Snap Fitting

Omnitrack Flexible Conveyors - Versatile & mobile conveyor modules. Compact conveyors extend up to 3.6 times their retracted length & sturdy castors are then locked once positioned. All models are height adjustable & assembled with either Skatewheels for flat based items & tighter turns, or Conveyor Rollers for Increased support of irregular/deformable items. Rollers & wheels are produced from low-inertia, high-impact PVC.

- 55 lbs/foot load rating.
- Adjustable working height (25.5"" - 43"").""
- Maximum axle pitch 4.921"" (extended).""
- 15.750"" or 23.625"" standard conveyor width.""
- Other models & materials available.

FLEXIBLE CONVEYORS WITH SKATEWHEELS

– for flat-based items & for tighter turns.

15.750" WIDTH	23.625" WIDTH	EXTENDED LENGTH	RETRACTED LENGTH
S400/2000	S600/2000	78.7	24.8
S400/3500	S600/3500	137.8	40.2
S400/5000	S600/5000	196.9	55.5
S400/6500	S600/6500	255.9	70.9
S400/8000	S600/8000	315.0	86.2
S400/9500	S600/9500	374.0	101.6

Dimensions in inches



55lbs per foot

Working height adjusts 25.5"" to 43""

x3.6

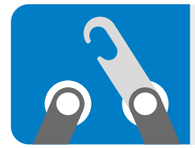
FLEXIBLE CONVEYORS WITH ROLLERS

– for increased support of irregular/deformable items.

15.750" WIDTH	23.625" WIDTH	EXTENDED LENGTH	RETRACTED LENGTH
R400/2000	R600/2000	78.7	37.0
R400/3500	R600/3500	137.8	61.4
R400/5000	R600/5000	196.9	85.8
R400/6500	R600/6500	255.9	110.2
R400/8000	R600/8000	315.0	134.6
R400/9500	R600/9500	374.0	159.1

Dimensions in inches



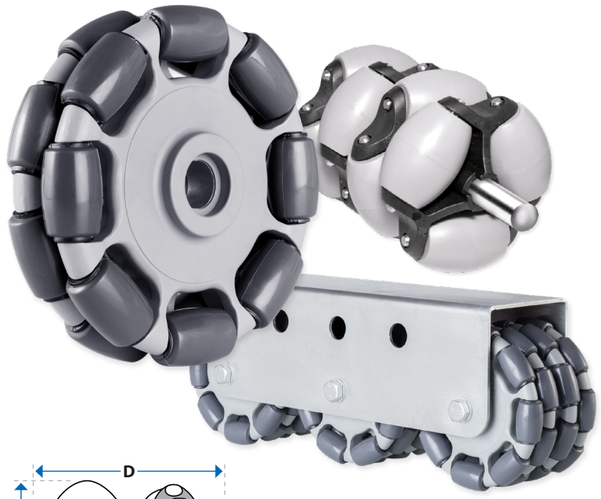


Optional CONNECTING HOOKS link multiple conveyors together (CH1).

PART	OPTIONAL PARTS
CH1	Connecting Hooks (1 Pair)
ES400	End Stop (15.750"" width)""
ES600	End Stop (23.625"" width)""

Optional END STOPS (ES400/ES600) or Ball Platforms & Tables (page 26).





Delicate Handling

Speed 3 ft/sec

Temperature -4/+212°F

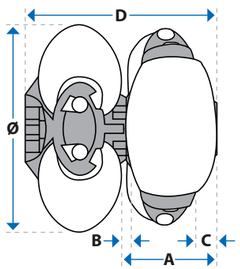
Non-magnetic Construction

Irregular & Deformable Objects

Washdown Conditions / Dirt Debris

Omniwheels feature peripheral rollers which provide 360 degree movement & support of irregular shaped items. Ideal for assembly & inspection lines, machine feed & packing areas.

Driven & Automatic Sorting systems available - contact us.





OW48-1-(x)-(y)
OW80-1-(x)-(y)

OW35-2-(x)-(y)
OW50-2-(x)-(y)

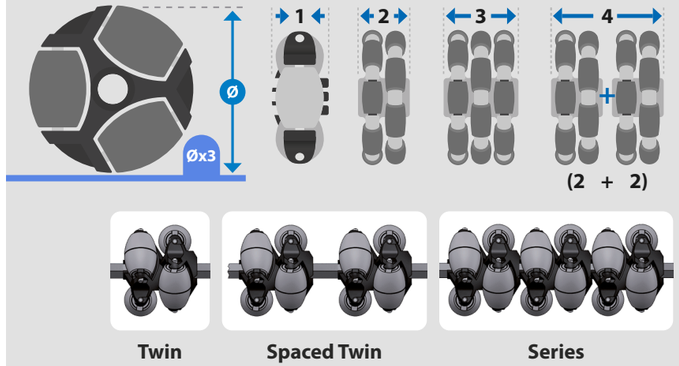
OW90-3-(x)-(y)

OW125-4-(x)-(y)
OW180-4-(x)-(y)

PART	A	B	C	D
OW48-1-(x)-(y)	1.575	0.118	0.118	1.575
OW80-1-(x)-(y)	1.339	0.158	0.158	2.560

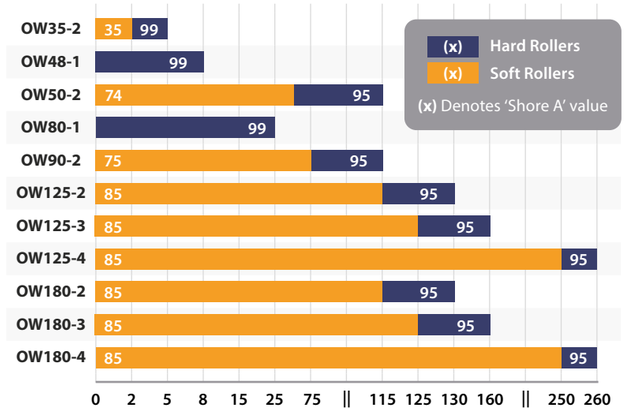
DIAMETER & CONSTRUCTION		PART CONFIGURE VALUES: (X) & (Y)	(X) CONFIGURE HARDNESS SHORE A				(Y) CONFIGURE HUB CENTRE OPTIONS (MM)					
			HARD MATERIAL = HIGH LOAD		SOFT MATERIAL = LOW LOAD		(Y) = P PLAIN BUSH		(Y) = H HEX DRIVE		(Y) = B SEALED BEARING	
Ø	CONSTRUCTION		(X)	LBS	(X)	LBS	D	(Y) = P	D	(Y) = H	D	(Y) = B
35		OW35-2-(x)-(y)	99	11	35	4.5	0.728	P1 | P2 | P3 | P4	0.728	-	0.728	-
48		OW48-1-(x)-(y)	99	18	-	-	0.846	P4	0.866	H1	-	-
50		OW50-2-(x)-(y)	95	55	74	33	1.083	P2 | P3 | P6 P8 | P9	1.083	H2 | H3 H5 | H6	1.083	B2 | B3
80		OW80-1-(x)-(y)	99	55	-	-	2.559	P7	2.559	H4	-	-
90		OW90-2-(x)-(y)	95	276	75	165	1.693	P2 | P3 | P5 | P6 P8 | P9	1.693	H2 | H3 | H5 H6 | H7	1.693	B2 | B3 | B4 | B5 | B6 | B7
125		OW125-2-(x)-(y)	95	287	85	254	1.693	P2 | P3 | P6 P8 | P9 | P16	1.693	H2 | H3 | H5 H6 | H7	1.693	B3 | B5 | B6 B7 | B9
125		OW125-3-(x)-(y)	95	353	85	276	2.440		2.440		2.440	
125		OW125-4-(x)-(y)	95	573	85	551	3.386		3.386		3.386	
180		OW180-2-(x)-(y)	95	287	85	256	2.245	P2 | P3 | P6 P8 | P9	2.245	H2 | H3 | H5 H6 | H7	2.245	B5 | B6 B7 | B9 | B20
180		OW180-3-(x)-(y)	95	353	85	276	3.347		3.347		3.347	
180		OW180-4-(x)-(y)	95	573	85	551	4.488		4.488		4.488	

omniwheel
Omniwheel



Diameter, Construction & Spacing

- Castor applications - ensure diameter is x3 minimum Ø of any step/obstacle in primary direction of travel.
- Synchronise rollers to achieve rapid directional change.
- Omniwheel OW48-1 & OW80-1 are singular but configure & synchronise by locking together in series.
- Other models pre-synchronised in x2, x3 & x4 construction for modular flexibility & support.



(x) Load & Roller materials

- Heavy loads require higher Shore A roller hardness; softer, cushioning materials compromise load capacity.
- OW48 & OW80 feature stainless steel axles, other models of non-magnetic, all-plastic construction except when specifying bearing centre hub option.

HARDNESS SHORE A	35	85	95	99
EXAMPLE ITEM	Pencil Eraser	Shoe Heel	Skateboard Wheel	Shopping Cart Wheel

PLAIN Ø	P1	P2	P3	P4	P5	P6	P7	P8	P9	P16
Internal Ø mm /inch	3/16"	6	8	8.2	10	12	12.2	1/2"	7/16"	16

HEX DRIVE ⬡	H1	H2	H3	H4	H5	H6	H7
AF mm /inch	8.1	3/8"	7/16"	11.2	1/2"	14	19

SEALED BEARING #	B1	B2	B3	B4	B5	B6	B7	B8	B9	B20
Internal Ø mm /inch	3/16"	6	8	3/8"	10	12	1/2"	5/8"	15	20

(y) Hub Centre & Inserts

- Plain bush – suffix P – for gravity conveyor applications.
- Hexagon drive - suffix H – for driven conveying.
- Sealed bearings – suffix B – for caster & trolley applications.



Accessories

- Castor brackets & fixing flanges.
- 'Live-storage' section channels & axles.
- Specify pre-cut or custom spacer tubes to reduce density for larger rigid items.

Driven systems
Contact us

Heavy Duty Tables & Platforms

We'll design & build your custom solution – just send us your application criteria:

UNIT SPACING
Shortest dimension
3.5



Table / Platform Dimensions
Sides & end stops?

Conveyed Item(s)
Maximum/minimum dimensions & weights.

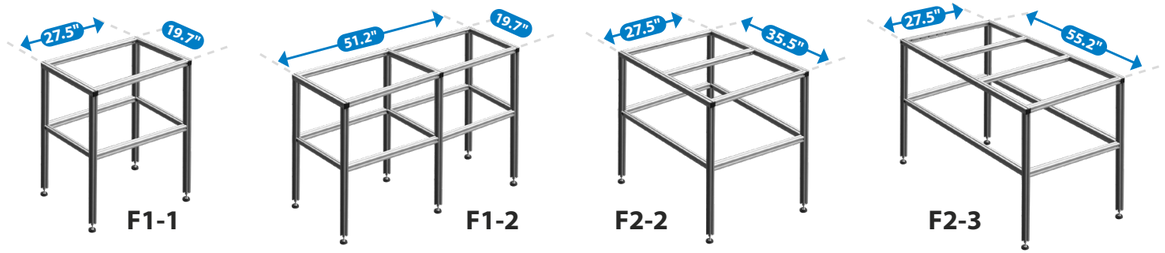
Conveyed Item(s)
Material & finish, deformability & flatness.

Special Operations
Shock loads, speed, assembly procedures.

Operating Environment
Outdoors, refrigerated conditions, hygienic & washdown areas.

Ball Tables & Conveying Platform - 660lbs Capacity

Configure your ideal 'off the shelf' conveying solution for loads of up to 660 lbs. Aluminium frames shipped with detachable legs for easy transit & storage. Full assembly instructions included. Frame layouts F1-1, F1-2, F2-2 & F2-3 can be joined to increase the conveying plane.



Ball transfers, Pneumatic & Omnicaster conveyor platforms arranged within standard 650 x 450 stainless-steel platforms. Omniwheels are assembled on 5 shafts & Pneumatic rails (x5) slot within standard aluminium frames (F1-1, F1-2 etc). Pneumatic 'live/dead' conveying planes require 3.4 bar compressed air supply (lubricated).

Legs assemble & disassemble for transport & storage.



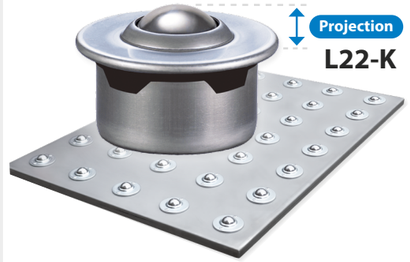
Standard pitch & sizes (shown below) available for immediate shipping from stock. Custom platforms with alternative units &/or pitch manufactured in-house for rapid despatch.

To order, quote frame type & conveying platform, for example 'OF35-75R'. If your application requires alternative pitch &/or conveying media, contact us.

	CONVEYING MEDIA	QTY.	LOAD / UNIT	PITCH	Σ SUPPORTED AREA	PROJECTION	FRAME
Ball Units	L22-K	35	264	90 x 90	350 x 560	10.1	F1-1
Pneumatic Ball	PB25	30	55	60 x 135	240 x 510	3.6-12.2	F1-2
Omniwheel	OW48-1	100	17	20 x 135	400 x 600	17.6	F1-2
Omnicaster	OC35	35	66	90 x 90	350 x 560	60	
Omnifloat	OF35-75R	35	39	90 x 90	350 x 560	54-76	F1-3

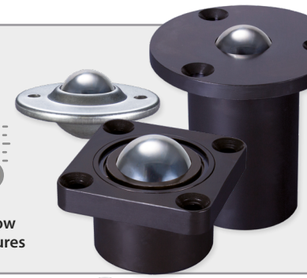
Standard (adjustable) legs 31.1"" – 33.4"" ""





Ball Transfer Units

Heavy & shock loads
Low friction
Instant direction change
High & low temperatures

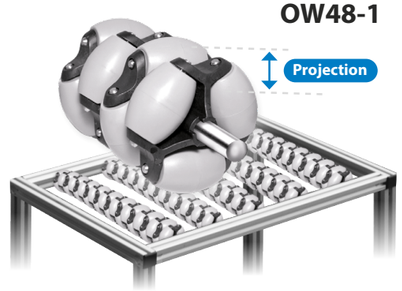




Pneumatic

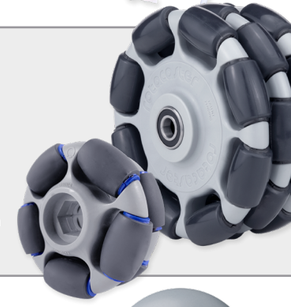
Active / static conveying plane
Low friction
Instant direction change
Uneven Loads

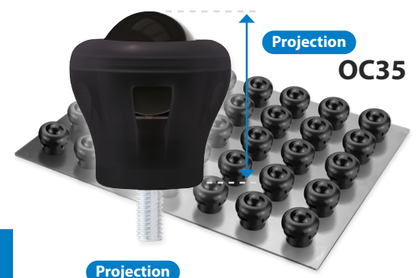




Omniwheel

Driven conveyor systems
Outdoor, wet & contaminated conditions
Irregular & deformable objects
Washdown areas

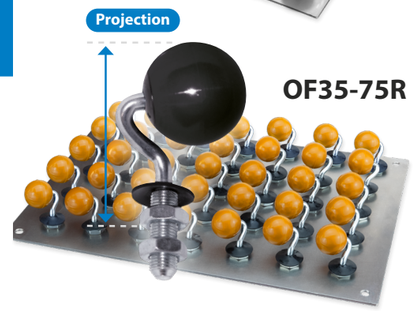




Omnicaster

Delicate Contact
Contaminated conditions
Brake Option
Rapid drain & debris channels





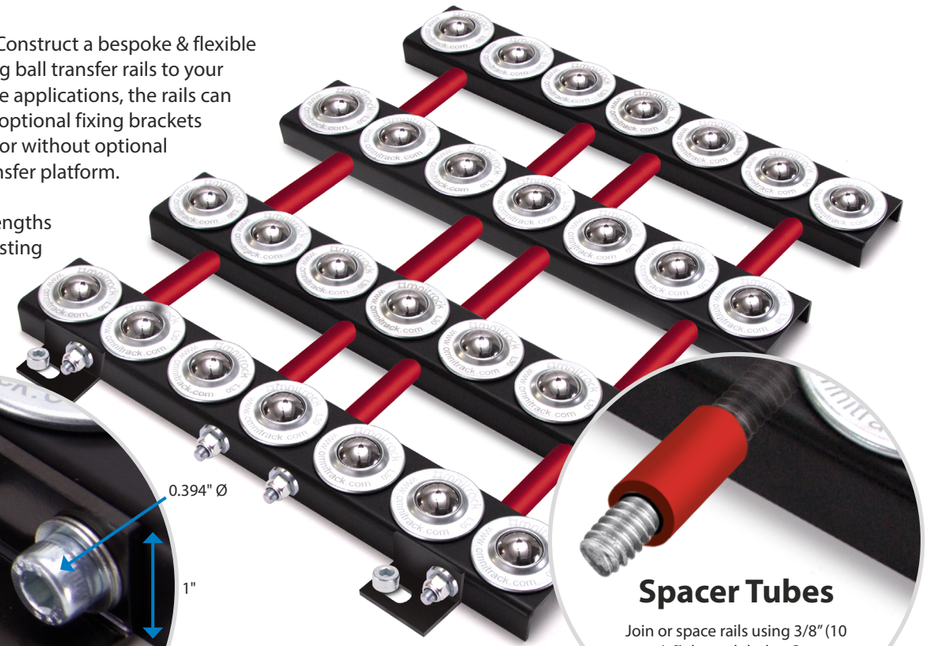
Omnifloat

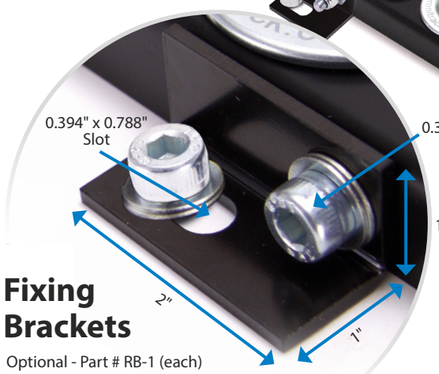
Glass & delicate sheet handing
Outdoor, wet & contaminated conditions
High temperature use
Service kits available



Omnitrack Ball Transfer Rails - Construct a bespoke & flexible conveying plane by configuring ball transfer rails to your application. Ideal in live storage applications, the rails can be installed individually using optional fixing brackets or bolted together either with or without optional spacer tubes to form a ball transfer platform.

15.748"" & 23.622"" standard lengths for rapid integration within existing conveyor roller installations. Ball transfer units available with alternative material upgrade options.""





Fixing Brackets

Optional - Part # RB-1 (each)

Spacer Tubes

Join or space rails using 3/8" (10 mm) Ø through holes. Spacer tubes cut to order.

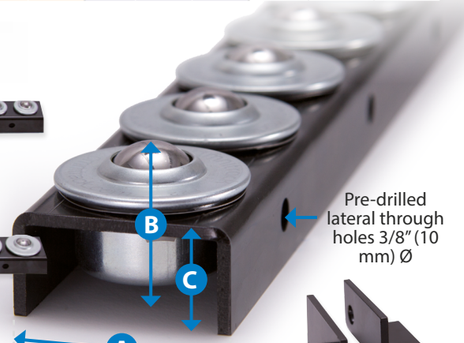
BALL Ø	RAIL LENGTH # OF BALL UNITS @ SPACING				MAX LOAD (kg)										A RAIL WIDTH	B FITTED HEIGHT	C RAIL HEIGHT
	15.748"" LENGTH""		23.622"" LENGTH""		Standard Carbon steel bearings, zinc pressings			A Stainless steel balls, zinc plated pressings			D Nylon load ball, zinc plated pressings			SS Stainless steel bearings & pressings					
					Unit	15.7"	23.6"	Unit	15"	23.6"	Unit	15.7"	23.6"	Unit	15.7"	23.6"			
0.625	R15-400	10 @ 1.575	R15-600	15 @ 1.575	130	1300	1950	130	1300	1950	22	220	330	90	900	1350	1.575	1.358	0.984
0.875	R22-400	8 @ 1.969	R22-600	12 @ 1.969	350	2800	4200	350	2800	4200	44	352	528	200	1600	2400	1.969	1.370	0.984
1.188	R30-400	7 @ 2.264	R30-600	10 @ 2.362	620	4340	6200	620	4340	6200	55	385	550	450	3150	4500	2.362	1.528	0.984



R15
400
600

R22
400
600

R30
400
600



Pre-drilled lateral through holes 3/8" (10 mm) Ø



Fixing Brackets RB-1 (each)

Ball Skate BB30/4

- 2240 LBS — 2240 lbs load per skate
- Parking brake standard
- Lightweight & durable
- Stainless steel balls

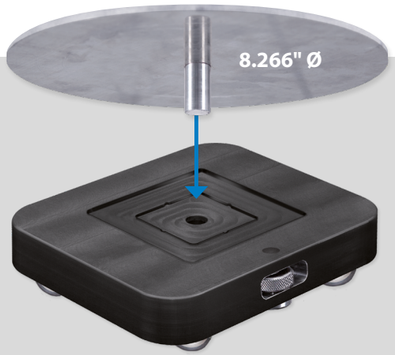






1/2"" Ø through counterbore facilitates:""

- Socket head capscrew for permanent attachment.
- BL2 Load Plate (optional).



Load Plate - *Part # BL2*

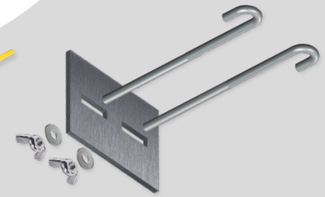
Ideal where flat or wide surfaces require increased support. Easy push fit & removal utilising central hole in skate.



Pry Bar
Part # BP2

Use to lift or lever items & fit/remove ball skates. Heavy duty 2 - Piece design for ease of transport.





Shelving Tie Brackets
Part # BS2

Ball skates are ideal to move laden connected shelving aisles. Use universal tie brackets to secure upper areas of connected gondola shelving.

Evaluate these aspects when choosing your solution:

Orientation
Which position does your application require the units to be mounted or function? Load ball up, down or other? Heavy duty range units operate at maximum load in all orientations.

Track & Contact
What is the condition, hardness & surface finish of the material the units will be conveying or bearing against? Uneven, deformable & delicate surfaces need special consideration.

Load & Shock
Dynamic & static load ratings are identical. Where loads are unevenly distributed or high impact/shock conditions exist, spring loaded units are ideal.

Speed
Maximum conveying speeds are limited; frequency & duration may also require consideration. Dynamic & static speed ratings are identical.

Friction & Precision
Lowest coefficient of friction & highest levels of precision movement are provided by the heavy duty ball units (pages 4 - 9). Some applications will allow a design concession to be made.

Stability
Consider the stability of the conveyed item. Ensure sufficient points of contact (pitch) to consistently support the mass. Provision for control & braking of the mass should not be overlooked.

Environment
Consider material upgrade options to better resist adverse environmental operating conditions. Dirty or dusty conditions? Wet & contaminated areas? Chemical attack / contamination? Magnetic permeability & radioactive fields?

Lubrication & Service
Omnitrack products are lubricated for life. To further extend service life, heavy duty ball transfers & Omnifloat ranges offer additional user-service kits. Consult page 7 for heavy duty ball units & page 20 for Omnifloat glass handling casters.

Temperature
Ambient temperature & maximum/ minimum temperature ranges must be evaluated. Stainless steel components resist higher & lower temperatures better than standard materials (page 29).

	MAX LOAD (LBS)	FRICTION % OF LOAD (μ)	SPEED ft/sec	SHOCK LOADS		ARDUOUS CONDITIONS		ORIENTATION	INSTANT CHANGE
Heavy Duty	18000	0.5	6	✓✓✓✓✓✓ 94-97 Series	✓✓✓✓✓ 90-93 & 98 Series	✓✓✓✓✓	**Z** & **SS** options		✓✓✓
Pneumatic	55 & 75	3	3						
Medium Duty	7700	2	3	✓✓✓✓✓ MM - MN Series	✓✓✓✓ MX Series	✓✓✓✓	**MW**, **MV30** & **SS** option		✓✓✓
Light Duty	1320	3	3	✓✓✓	✓ LM series	✓✓	**SS** options		✓✓✓
Omnicaster	65 & 175	3	3	✓		✓✓✓			✓✓
Omniwheel	18 & 55	5	3	✓		✓✓✓✓✓			✓
Omnifloat	40 & 50	6	3	✓✓		✓✓✓✓✓			✓
Flexible Conveyors	55 lbs/foot	4	6	✓✓		✓✓✓✓✓			✓✓
Rails & Tables	660 +	3	3	✓		✓✓			✓
Skates	2240	3	4	✓✓		✓✓✓			✓

Load & Stability

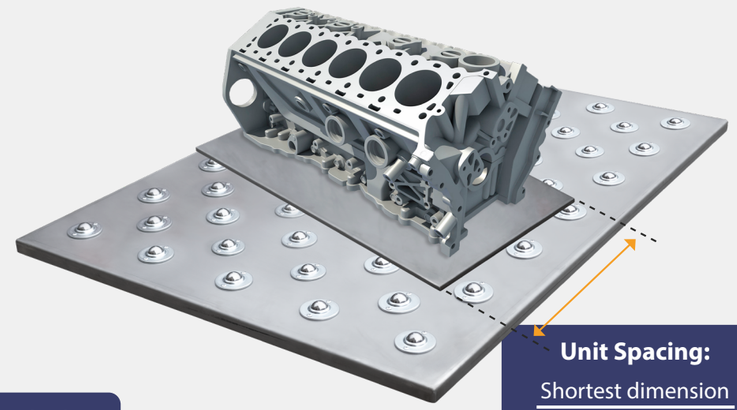
Ensure sufficient load capacity:

Load / 3



= 3 x 2200 lbs

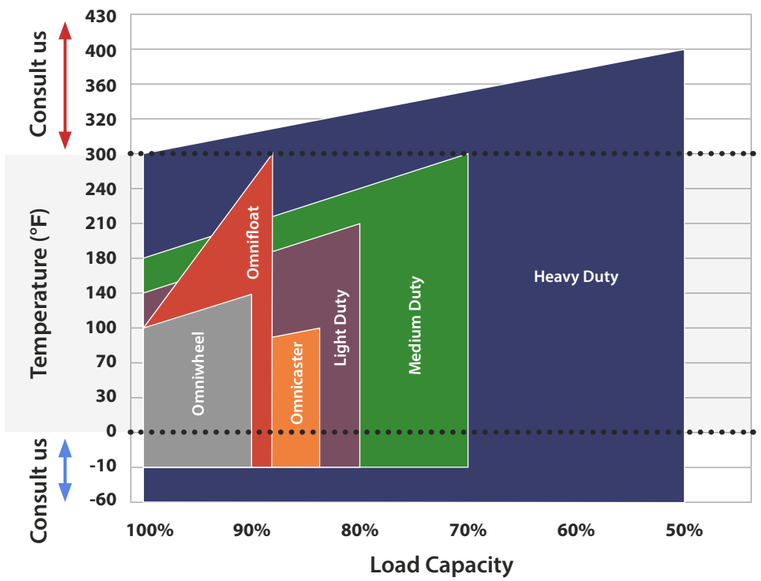
Specify spring loaded units where shock loads & uneven track conditions exist.



Unit Spacing: Shortest dimension / 3.5

Operating Temperature

Compensate for temperature & operating environment by reducing stated load capacity



Free technical advice
Custom design
In-house manufacturing
No minimum order
UK design & made
Immediate shipping

Making History Since 1909



2020
New 2021 Omniwheel Range



2019
New compact 8000 series



2017
Heavy duty 8000 kg Ball Unit. New technology & materials

2014
New Omnicaster Range Launched



2011
Bloodhound' 1000mph Land Speed Record (Product Sponsor)



2009
CERN 'Hadron' collider particle research project supplier

1970
Blue Steel nuclear warhead handling equipment – design & production



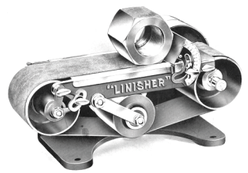
1990
Euro Fighter production project supplier



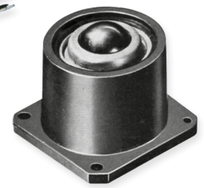
1962
De Havilland Aircraft landing gear – design & manufacture contract



1930
Belt 'Linisher' designed & launched



1958
1958 Patented Omnitrack Ball Transfer Units launched



1928
Gravity conveyor rollers, Skatewheels & live racking systems launched



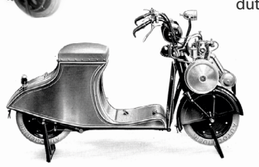
1918
Autoglider' scooter range - Mass produced & exported

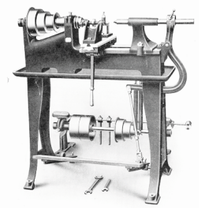


1923
TST 'Townsend, Skinner & Tingle' car produced



1909
Inception as manufacturer of Lathes, heavy duty Castors & Cabinet Drawer Slides







1896
Rodborough Court, our HQ in Stroud - UK was constructed

In-house World-Class Manufacturing



100% Product Quality Testing

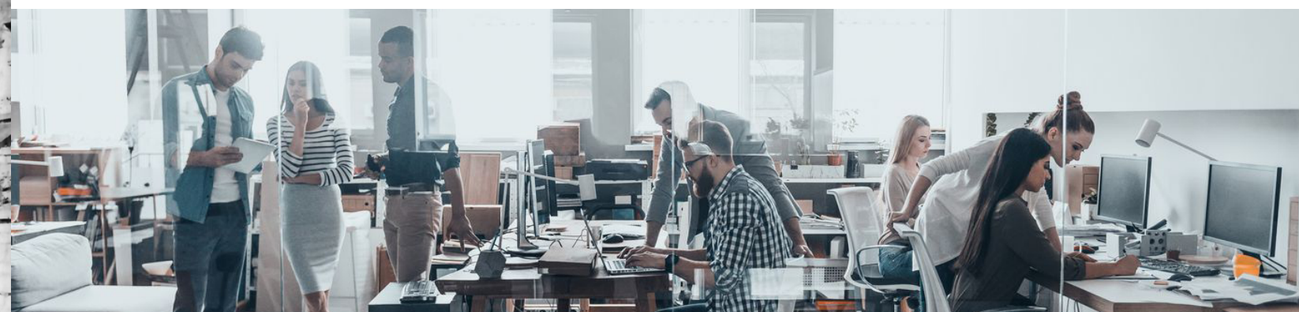


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