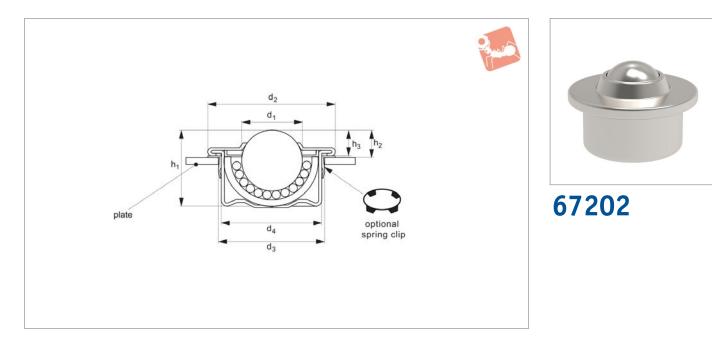


Push-Fit Ball Transfer Units light duty, push fit

Transfer Rollers



Material

Steel (zinc plated), stainless steel (AISI 416 for housing and AISI 420 for balls) and acetal (POM).

Technical Notes

Cost-effective and light-weight units formed from sheet steel material. No reduction in load carrying capacity even when installed upside down. Sizes 22 and 30 have a felt seal for the ball. Low friction 1:0,03, speeds up to 1m/s. Temperature range -20°C to +70°C.

Tips

To compensate for irregular bore diameters we recommend using the spring clip (stainless) part no. P2730. Clip requires a minimum plate thickness of 3mm to grip securely.

These rollers can only be used in the horizontal or "ball up" direction.

Order No.	d ₁	d ₂	h ₁	h ₂	d ₃ min.	d ₃ max.	d ₄	h ₃	Housing	Ball	Load kg max.
67202.W0151	15	31	21	10.1	25	25.5	24	9.8	Steel	Steel	60
67202.W0154	15	31	21	10.1	25	25.5	24	9.8	Steel	Stainless	60
67202.W0155	15	31	21	10.1	25	25.5	24	9.8	Steel	Acetal	10
67202.W0152	15	31	21	10.1	25	25.5	24	9.8	Stainless	Stainless	40
67202.W0221	22	45	29.5	10.4	37.0	37.5	36	10.1	Steel	Steel	160
67202.W0224	22	45	29.5	10.4	37.0	37.5	36	10.1	Steel	Stainless	160
67202.W0225	22	45	29.5	10.4	37.0	37.5	36	10.1	Steel	Acetal	20
67202.W0222	22	45	29.5	10.4	37.0	37.5	36	10.1	Stainless	Stainless	90
67202.W0301	30	55	37	14.4	46	46.5	45	14.1	Steel	Steel	280
67202.W0304	30	55	37	14.4	46	46.5	45	14.1	Steel	Stainless	280
67202.W0305	30	55	37	14.4	46	46.5	45	14.1	Steel	Acetal	25
67202.W0302	30	55	37	14.4	46	46.5	45	14.1	Stainless	Stainless	200



TRANSFER ROLLERS

selection



Product selection

Available materials	Housing	Ball	Load							
			Factor		using: AISI	1040 steel mac	hined tougher	ed & zinc plated	Ball [.]	
	Steel	Steel	1,0	Housing: AISI 1040 steel, machined, toughened & zinc plated. Ball: AISI 52100 chrome steel						
	Steel	Stainless	0,7	Housing: AISI 1040 steel, machined, toughened & zinc plated. Ball: AISI 420 stainless steel						
	Stainless	Stainless	0,7	Housing: AISI 416 stainless steel. Ball: AISI 420 stainless steel						
	Steel	Acetal		Housing: AISI 1040 steel, machined, toughened & zinc plated. Ball: POM acetal						
	Aluminium		;	Housing: aluminium. Ball: AISI 420 stainless steel						
	Acetal Acetal	Acetal Stainless	;	Housing: POM acetal. Ball: POM acetal Housing: POM acetal. Ball: AISI 420 stainless steel						
ixing clip selection	Part No.				Sall Size	Min	imum Bore ø	Maxim	Maximum Bore ø	
		02.W901	.5		15		24,8		25,0	
	672	02.W902	22		22		37,0		37,2	
	672	02.W903	30		30		46,3	2	46,7	
	Clip require	s a mini	mum p	late thicknes	s of 3mm t	o grip securely				
low to select the correct unit	Ball Type	Max Lo (Kg)		Friction % of load)	Speed (m/s)	Shock Loads	Arduous Conditions	Orientation	Instant Change	
	Medium Duty	20-350	00	2%	1,5	J J J	J J		J J J	
	Light Duty	7-250)	3%	1,0	1	J J		J J J	
/ariables to consider						35.				
	Shock Loads: Specify High Capacity series & spring loaded units			Track Hard Conveyed Standard m units have hardness o	tem Materia naterial ball Rockwell 'O	al: Ball Units & Phenol C'	Delicate Surfaces: Operating Environr Ball Units - Acetal (POM) & Phenolic Resin radioactive			
Operation temperature						Temperature	(°C) 140 120 100 80 60			



40 20 0

-20 -50

100%

Medium Duty

90%

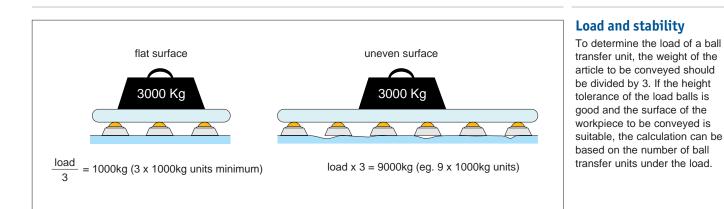
80%

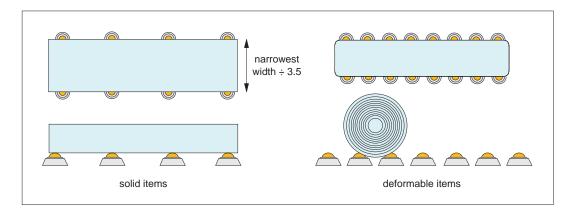
70%

% Load Capacity



Wixroyd Ball Transfer Unit





The maximum conveying speed allowed amounts to 2m/s. The load capacities specified apply to any mounting position and are based on 10^6 rotations of the load ball. With the units being used over a longer time at speeds exceeding 1m/s, an increase in temperature as well as a reduction in travel life must be expected depending on the load.

L = $\frac{C^3}{F}$ 10⁶ rotations

should be arranged depends on the bottom surface of the

Pitching and spacing How the ball transfer units

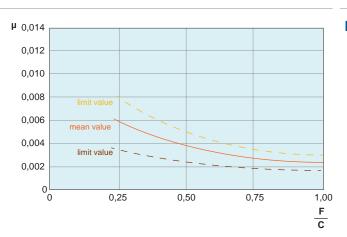
on the bottom surface of the load to be transported. For loads with a uniform, even bottom surface, e.g. packing cases, the distance between the ball transfer units is calculated by dividing the smallest dimension by 3,5.

Conveying speed and load capacity

Calculation of travel life

The diagram shows the friction values as a function of load and speed for ball transfer units. These approximate values apply to all mounting positions with operation on a hardened steel plate.

v = 1m/s



L = travel life

C = load capacity (N)F = load (N)

Friction

