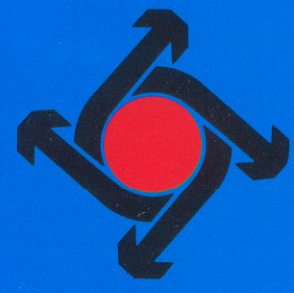


NEW
(PATENT APPLIED FOR)

Hi-TECH
DOUBLE SEAL
BALL UNITS



ALWAYSE

ALWAYSE BALL UNIT

Hi-TECH **DOUBLE SEAL**

MOVE INTO THE TWENTY FIRST CENTURY WITH ALWAYSE HI-TECH BALL TRANSFERS

They are designed to overcome two major problems.

- 1 Efficient sealing out of all dirt.
- 2 Rust proof to meet most environmental conditions.

Hi-TECH is the Ball Transfer for applications where trouble free operation is essential.

Hi-TECH DOUBLE SEAL

This is the first Ball Transfer design that has double sealing for excluding debris from the bearings. A self cleaning hole can also be incorporated. The top cover seal removes larger particles and the inner knife edge scraper seal skims liquid, paste, slurry, fine dust etc off the large ball and expels it through side vents.

Hi-TECH RUST RESISTANT

All parts are of non rusting material impervious to the most severe industrial environment. Where cost is of prime consideration ferrous load bearing components available.

Hi-TECH RECIRCULATING BALL SYSTEM

The main bearing track is hardened and has been load and life tested (see technical information).

Hi-TECH INTERCHANGEABLE

Suitable as replacements for other Ball Transfers of this style and dimensions.

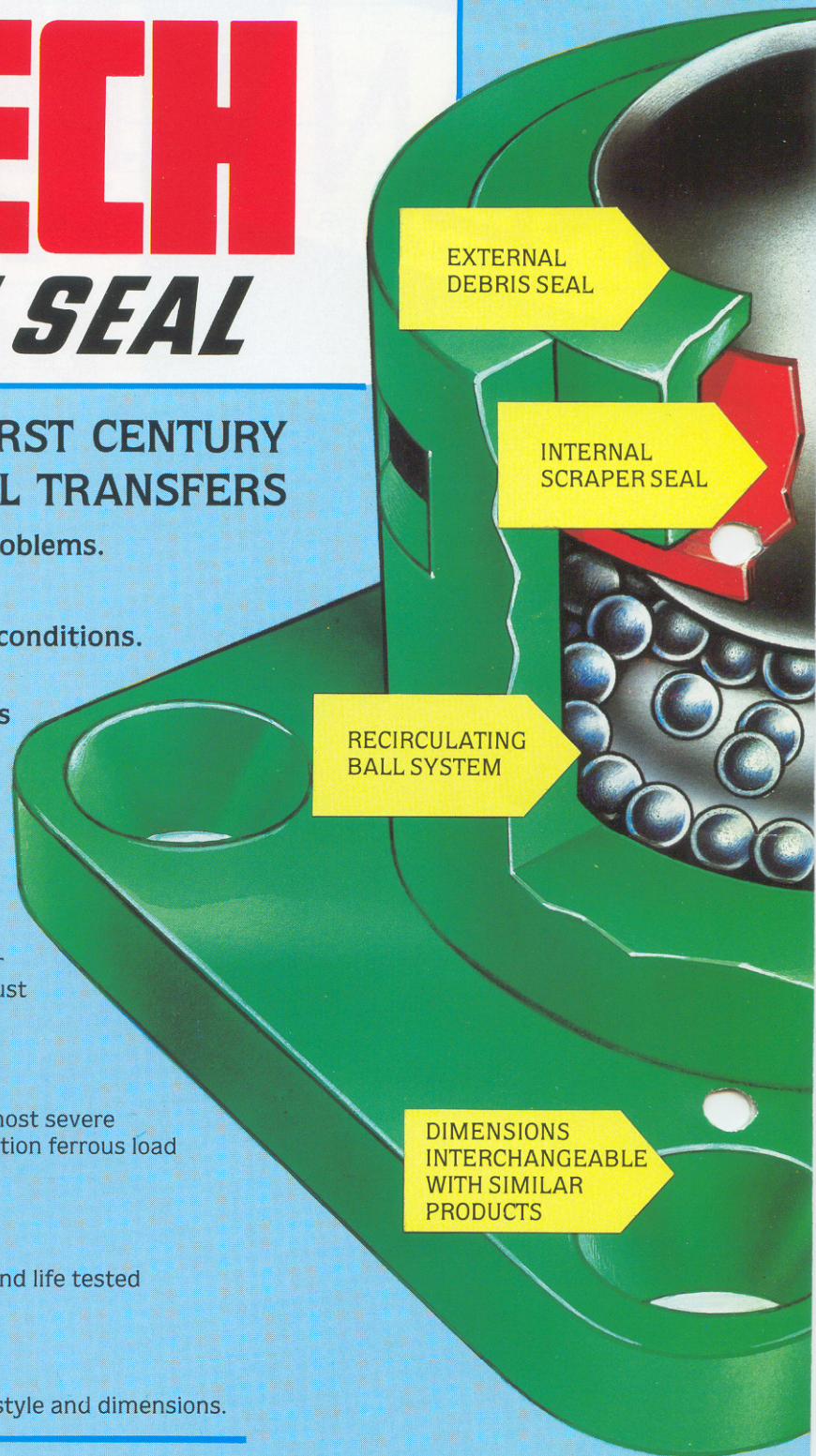
APPLICATIONS

Cargo handling
Machinery components
Robotic systems
Automatic transfer line systems
Food and hygienic environments
Wet and dirty conditions

Long life
Sliding doors
Conveyor systems
Presses
Guillotines
Heavy tools etc

OTHER FEATURES

Runs equally well inverted or at an angle.
Provides instantaneous change of direction not possible with wheel castors.



TECHNICAL

LIFE TESTS
MATERIALS

Equivalent to over four million cycles.
Glass filled nylon and stainless steel components. Also available with ball bearings.

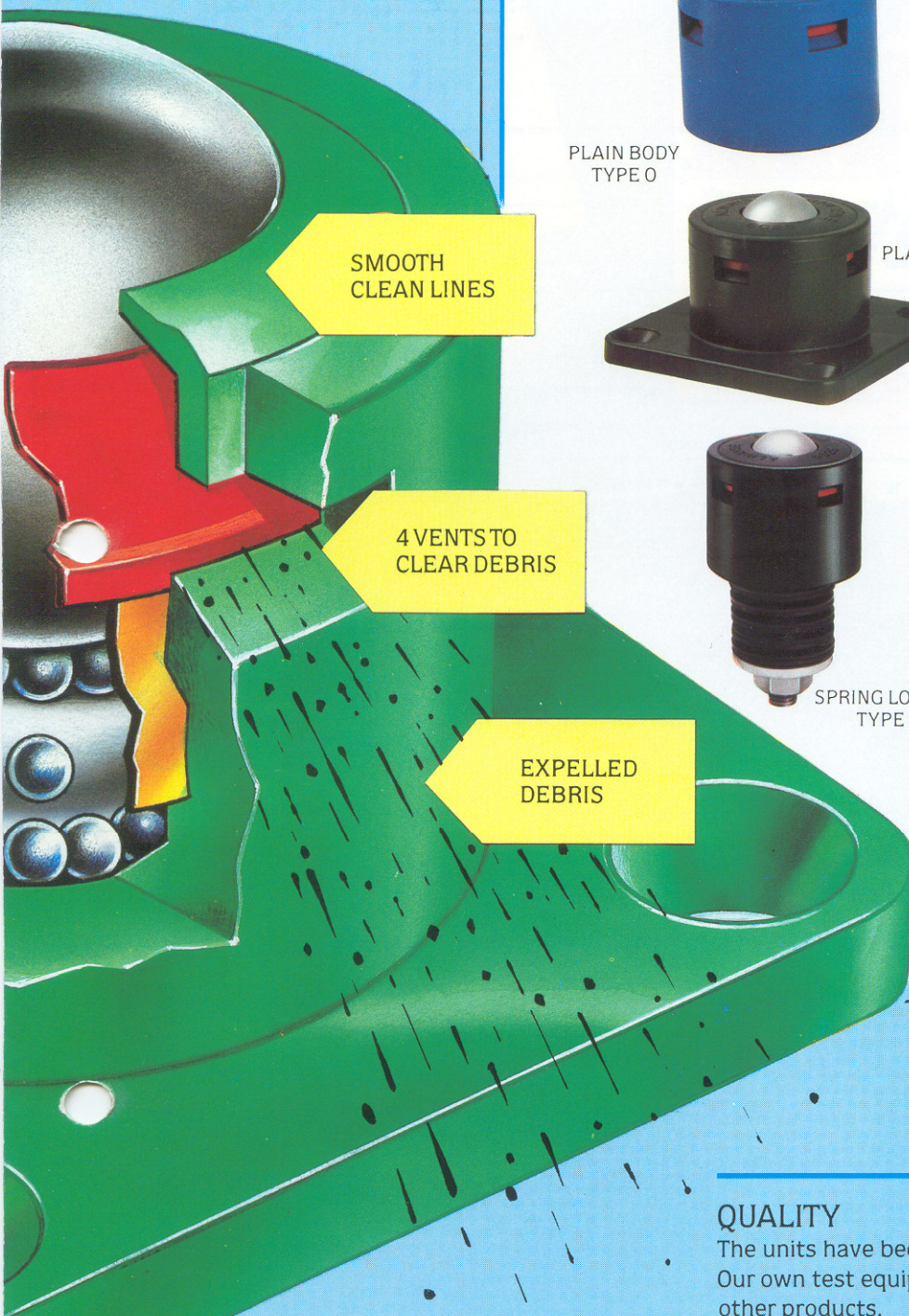
CHEMICALS

High resistance to organic solvents (check if in any doubt).

TEMPERATURE
DYNAMIC EFFORT
COLOUR

Normal ambient temperature.
1% to 3% dependent on load.
Matt black.

S



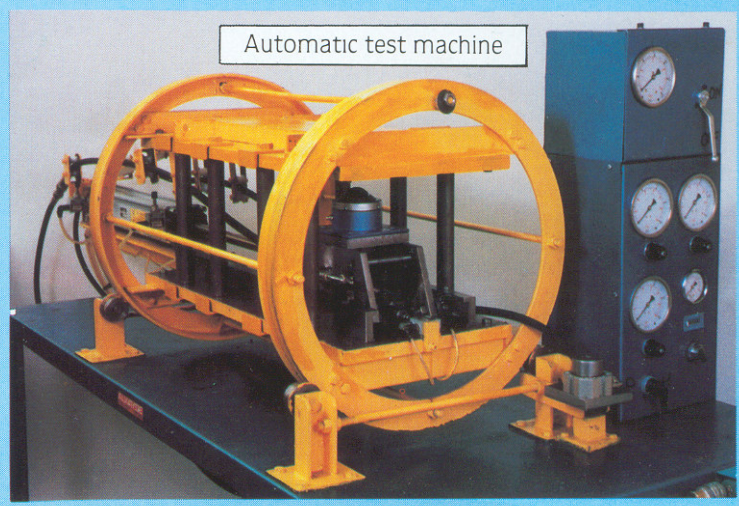
DESIGNS FOR ALL APPLICATIONS



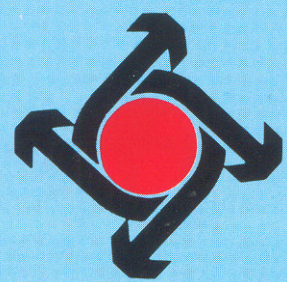
Be sure and specify
ALWAYSE

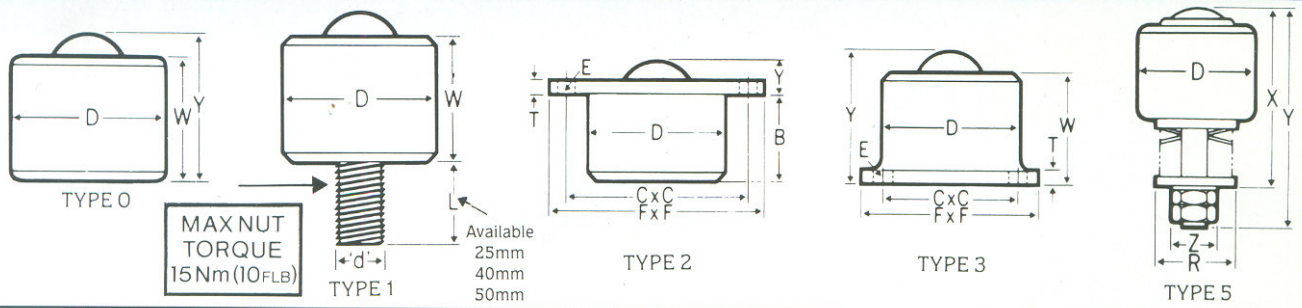
QUALITY

The units have been subjected to load and life tests. Our own test equipment monitors production of these and our other products.



...hiles continuous running full load.
...inless bearings and
...ole with ferrous components
...ic solvents, petrol, oil
...ature.
...conditions.





Ref. No.	Ball dia.		Y		W		D		Load Capacity										
	mm	ins	mm	ins	mm	ins	mm	ins	13	15									
6025-0-15	25.4	1.0	45.0	1.77	38.3	1.50	50.8	2.00	-	240									
6025-0-13	25.4	1.0	45.0	1.77	38.3	1.50	50.8	2.00	320	-									
OTHER THREADS AVAILABLE																			
	Ball dia.		W		D		L		d										
	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins									
6025-1-15	25.4	1.0	38.3	1.50	50.8	2.00	See Diagram		M10		-	240							
6025-1-13	25.4	1.0	38.3	1.50	50.8	2.00	See Diagram		M10		320	-							
	Ball dia.		Y		B		D		FxF		Cx C		T		E (dia.)				
	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins			
6025-2-15	25.4	1.0	13.0	0.51	32.0	1.26	50.8	2.00	76.0sq.	3.00	58.0sq.	2.28	6.3	0.25	4x6.7	0.26	-	240	
6025-2-13	25.4	1.0	13.0	0.51	32.0	1.26	50.8	2.00	76.0sq.	3.00	58.0sq.	2.28	6.3	0.25	4x6.7	0.26	320	-	
	Ball dia.		Y		W		D		FxF		Cx C		T		E (dia.)				
	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins			
6025-3-15	25.4	1.0	45.0	1.77	38.3	1.50	50.8	2.00	76.0sq.	3.00	58.0sq.	2.28	6.3	0.25	4x6.7	0.26	-	240	
6025-3-13	25.4	1.0	45.0	1.77	38.3	1.50	50.8	2.00	76.0sq.	3.00	58.0sq.	2.28	6.3	0.25	4x6.7	0.26	320	-	
Dimensions as Type 2	Ball dia.		Y		B		D		Flange Dia		T								
	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins							
6025-4-15	25.4	1.0	13.0	0.51	32.0	1.26	50.8	2.00	68.6	2.70	6.3	0.25	-	240					
6025-4-13	25.4	1.0	13.0	0.51	32.0	1.26	50.8	2.00	68.6	2.70	6.3	0.25	320	-					
15 = Bearing Components, Stainless Steel · 13 = Bearing Components, Ferrous Steel · i.e. Ref. No. 6025-0-15																			
SPRING LOADED UNITS – EXTERNAL SPRINGS																			
State Type 13 or 15	Ball dia.		Supports Load		Load for Max. Defl.		Max. Defl.		X		Y		Z		D		R		
	mm	ins	kgs	lbs	kgs	lbs	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	
6025-5-() A	25.4	1.0	6.8	15	102	225	3.2	0.13	61.9	2.44	77.0	3.03	20.0	0.79	50.8	2.00	31.8	1.26	
6025-5-() B	25.4	1.0	22.7	50	109	240	3.2	0.13	61.5	2.42	77.0	3.03	20.0	0.79	50.8	2.00	31.8	1.26	
6025-5-() C	25.4	1.0	45.4	100	120	265	3.2	0.13	60.7	2.39	77.0	3.03	20.0	0.79	50.8	2.00	31.8	1.26	
6025-5-() D	25.4	1.0	68.1	150	125	275	3.2	0.13	61.9	2.44	77.0	3.03	20.0	0.79	50.8	2.00	31.8	1.26	
6025-5-() E	25.4	1.0	90.7	200	209	460	3.2	0.13	81.0	3.19	98.4	3.87	20.0	0.79	50.8	2.00	31.8	1.26	
6025-5-() F	25.4	1.0	136.1	300	245	540	3.2	0.13	79.8	3.14	98.4	3.87	20.0	0.79	50.8	2.00	38.1	1.50	
6025-5-() G	25.4	1.0	181.5	400	272	600	3.2	0.13	81.0	3.19	98.4	3.87	20.0	0.79	50.8	2.00	38.1	1.50	
6025-5-() H	25.4	1.0	227.0	500	308	680	3.2	0.13	81.0	3.19	98.4	3.87	20.0	0.79	50.8	2.00	38.1	1.50	

CALCULATIONS REQUIRED FOR A GIVEN LOAD

STEP 1. THE SPACING

This is obtained by dividing the narrowest dimension of the article to be handled by 3.5. If the narrowest dimension is 14", divide by 3.5 = 4" pitch between ball centres. This ensures three units are beneath the narrowest dimension at any one time. If less than three units are in contact, then the article may travel in a wave like motion rather than smoothly.

STEP 2. THE LOAD

Normally the load to be moved should be divided by three: i.e. one tonne divided by 3 = 333 kg capacity. If only three units were to be in contact then a suitable unit would be not less than 333 kg capacity.

However, due to the pitch needed (Step 1) many more units will support the load. If, say, 100 units are below the load, then calculate on the basis that only 50% are in contact at any one time.

The number in contact depends on the accuracy of mounting and the base of the load being moved.

Loads can be more evenly spread by using rubber pads.

The above is for guidance only, as conditions, type of product, base of load etc must be considered.

Shock loads should be avoided. See spring loaded range.

IF IN DOUBT PLEASE CONTACT US.