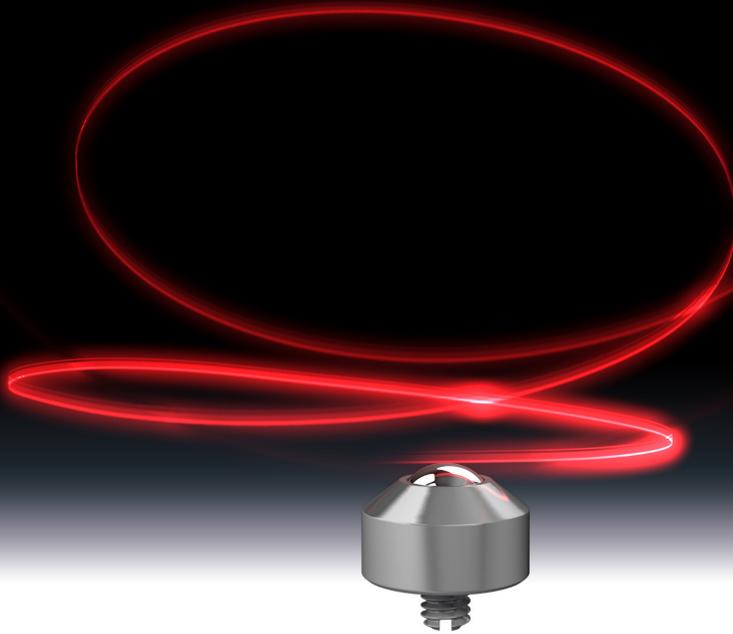
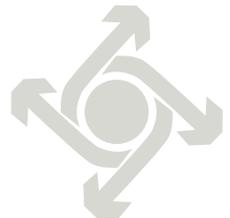


MINI BALL TRANSFER UNITS

AN INTRODUCTION



- LOAD CAPACITIES FROM 5kg TO 70kg
- BODY DIAMETERS FROM 8mm TO 28mm
- ENABLES PRECISE MOVEMENT IN ANY DIRECTION
- 17 DIFFERENT CONFIGURATIONS



MINI BALL TRANSFER UNITS

Always MINI BALL TRANSFER UNITS are the smallest Ball Transfer Units in the extensive Always Engineering range manufactured in the UK. They have been used throughout a wide variety of industries for many years.

Applications range from:

- Oil & Gas - downhole
- Nuclear & Aerospace - metrology
- Automotive - testing & assembly
- Robotics & Mechatronics
- Measurement & Diagnostics
- Medical imaging equipment
- Film production - Special FX
- Optical & laser technologies
- Photocopiers – guide applications
- Glass processing – arris edging

Designed to provide precise movement of parts, materials and equipment in any direction instantly, MINI BALL TRANSFER UNITS have the following capabilities:

- Load capacities from 5kg to 70kg
- 2 different body profiles
- Body diameters from 8mm to 28mm
- Threaded stem for precise positioning

Available with a variety of load ball sizes from 4.8mm to 15.8mm the units have 17 variants, giving a wide range of possible solutions. With decades of experience Always can provide bespoke MINI UNITS to suit applications where the standard range cannot be modified to suit.

Different Profiles

Available with either a flat or angled top, each MINI UNIT provides the engineer or designer the flexibility to position the unit in any orientation without loss of performance. The integral threaded stem allows the precise location of the unit in application.



11MI-06-15 & 11MI-06-17 UNITS

Material Variety

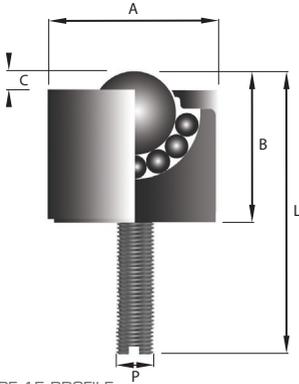
Available with load balls in Carbon Steel or Stainless Steel. Housings are in Carbon Steel, Stainless Steel or Aluminium. In all cases the screw thread stem is in Stainless Steel.



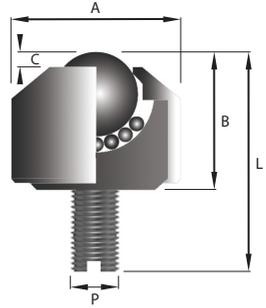
Technical Information

The following data shows the dimensions, load capacities and thread fixing sizes of the various units.

Always provides a free Technical Service to assist you in selecting the correct unit for your application. Contact details can be found on the back page.



TYPE 13 & TYPE 15 PROFILE



TYPE 17 PROFILE

REF NO	BALL SIZE (mm)	WEIGHT (kg)	A	B	C	L	P	MAX. DYNAMIC LOAD (kg)
11MI-05-13	4.8	0.01	13	9	1	24	M6	10
11MI-05-15		0.003	8	6		8.5	M2	5
11MI-06-13	6.4	0.02	17	11	2	26	M6	20
11MI-06-15		0.008	13	10.5		16.5	M3	15
11MI-06-17	7.9	0.03	18	14	2	32	M8	30
11MI-08-13		0.011	15	12.5		20.5	M4	20
11MI-08-15		0.06	23	20		40	M8	40
11MI-10-13	9.6	0.06	23	20	2	40	M8	40
11MI-10-15		0.1	28	25		3.5	48	M8
11MI-13-13	12.7	0.1	28	25	3.5	48	M8	50
11MI-13-15		0.05	24	20.5		4	32.5	M6
11MI-16-13*	0.06							
11MI-16-15*	15.8	0.05	24	20.5	4	32.5	M6	70
11MI-16-13-FT**		0.06						
11MI-16-16-FT**								

*11MI-16-13 & 11MI-16-15 HAVE AN ANGLED TOP AS STANDARD **11MI-16-13-FT & 11MI-16-15-FT HAVE A FLAT TOP

INFORMATION

Always Engineering was established in Birmingham in 1939. It remains a family owned business to this day.

The Company employs more than 70 people in its purpose built manufacturing and office facility based in Birmingham. Over 70% of its production is exported to over 60 countries Worldwide, which has led to Always Engineering being awarded the Queen's Award for Enterprise for International Trade on two occasions.

Always Ball Units & Castors are used in all industries throughout the world with over 2 million units being sold every year.

Always Engineering Limited is quality registered to ISO 9001.

Always Engineering offers a free Technical Advice Service. If you are unsure of the correct unit to specify or wish to discuss an application please contact us at:
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