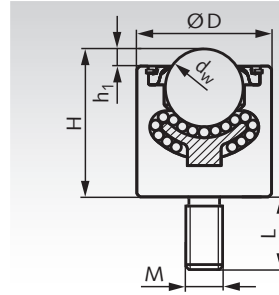


Ball Transfer Units 378, Solid Steel Housing, plain fit, with Threaded Stud

Material: Housing: Steel, with KTL "Anti-Oxide" electrophoretic coating.
 Ball cup: Steel, case hardened.
 Balls: Steel 100Cr6, hardened.

Heavy duty ball transfer unit for high load.
 High shock resistance. Very low friction.
 Orientation: Anyway.
 From size 25.4 with felt seal. Without drain hole.
 Conveying speed max. 2m/sec.
 Temperature range -30°C to +160°C.



Other sizes and versions on request.

Ordering Details: e.g.: Product No. 654 378 12, Ball Transfer Unit 378 Size 12.7

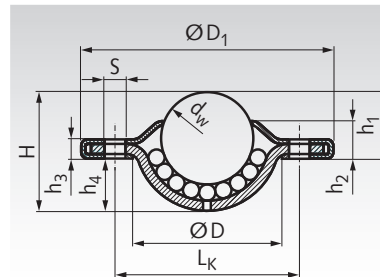
| Product No. Type 378 | Size dw mm | Load Rating N | D mm | H mm | h ₁ mm | L mm | M mm | Weight kg |
|-------------------------|---------------|------------------|---------|---------|----------------------|---------|----------|--------------|
| 654 378 12 | 12,7 | 500 | 20 | 19,1 | 3,8 | 16,1 | M8x1,25 | 0,04 |
| 654 378 13 | 12,7 | 500 | 20,6 | 19,1 | 3,8 | 28,7 | M8x1,25 | 0,04 |
| 654 378 25 | 25,4 | 2250 | 44 | 48,3 | 5,6 | 25 | M12x1,75 | 0,49 |
| 654 378 26 | 25,4 | 3850 | 50 | 51,3 | 6,4 | 25 | M12x1,75 | 0,63 |
| 654 378 38 | 38,1 | 11000 | 60 | 73,5 | 12,7 | 40 | M20x2,5 | 1,34 |

Ball Transfer Units 380 / 383, Top Flange mounted, without Cup

Material Type 380: Housing: Steel, zinc-plated.
 Ball cup: Steel.
 Balls: Steel, hardened.

Material Type 383: Stainless steel.

Light duty ball transfer unit for low load.
 Orientation: Ball up or horizontal. From size 19 with felt seal and drain hole. Size 32 stainless is without felt seal.
 Conveying speed max. 1m/sec.
 Temperature range -20°C to +70°C.



Other sizes and versions on request.

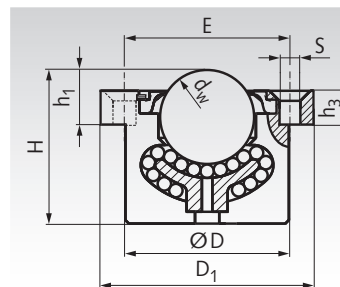
Ordering Details: e.g.: Product No. 654 380 15, Ball Transfer Unit 380 Size 15

| Product No. Type 380 | Product No. Type 383 | Size dw mm | Load Rating N | D mm | D ₁ mm | H mm | h ₁ mm | h ₂ mm | h ₃ mm | h ₄ mm | L _k mm | S mm | Weight kg |
|-------------------------|-------------------------|---------------|------------------|---------|----------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|--------------|
| 654 380 15 | - | 15 | 150 | 24 | 41 | 19,3 | 10,8 | 5,8 | 3,2 | 8,5 | 30 | 2 x 3,4 | 0,045 |
| 654 380 19 | 654 383 19 | 19 | 250 | 29,1 | 61 | 22 | 10,0 | 6,8 | 3,2 | 12,0 | 44,5 | 2 x 5,1 | 0,090 |
| 654 380 23 | - | 23 | 1200 | 33 | 45 | 27,7 | 9,8 | 3,6 | 3,6 | 17,9 | 39 | 3 x 3,5 | 0,096 |
| 654 380 25 | - | 25 | 600 | 36 | 56 | 30 | 14,6 | 6,8 | 3,3 | 15,4 | 45 | 2 x 4,0 | 0,125 |
| 654 380 32 | 654 383 32 | 32 | 1250 | 45,5 | 73,7 | 36,1 | 16,2 | 8,2 | 4,2 | 19,9 | 58,7 | 2 x 5,1 | 0,269 |

Ball Transfer Units 384, Top Flange mounted, Solid Steel Housing

Material: Housing: Steel, with KTL "Anti-Oxide" electrophoretic coating.
 Ball cup: Steel, case hardened.
 Balls: Steel 100Cr6, hardened.

Heavy duty ball transfer unit for high load.
 High shock resistance. Very low friction.
 Orientation: Anyway.
 From size 25.4 with felt seal. With drain hole.
 Conveying speed max. 2m/sec.
 Temperature range -30°C to +160°C.



Other sizes and versions on request.

Ordering Details: e.g.: Product No. 654 384 12, Ball Transfer Unit 384 Size 12.7

| Product No. Type 384 | Size dw mm | Load Rating N | D mm | D ₁ mm | E mm | H mm | h ₁ mm | h ₃ mm | S mm | Qty. S | Weight kg |
|-------------------------|---------------|------------------|---------|-------------------------|---------|---------|----------------------|----------------------|-------------------|--------|--------------|
| 654 384 12 | 12,7 | 500 | 23,8 | 47,7 x 32 ¹⁾ | 34,9 | 22,2 | 7,9 | 2,0 | 4,0 ²⁾ | 2 | 0,06 |
| 654 384 25 | 25,4 | 2250 | 44,5 | 57,2 | 44,5 | 41,3 | 11,9 | 4,8 | 6,1 | 4 | 0,44 |
| 654 384 26 | 25,4 | 3850 | 50 | 76,2 | 57,9 | 44,5 | 12,7 | 6,4 | 8,1 | 4 | 0,70 |
| 654 384 38 | 38,1 | 11000 | 60 | 76,2 | 57,9 | 60 | 25,4 | 12,7 | 8,1 | 4 | 1,20 |

¹⁾ Elliptical flange with 2 bores. ²⁾ Not countersunk.

Note: Due to unevenness of the running surface, there are often only three rollers carrying the weight. Therefore the chosen load rating should equal at least one third of the load. Max. distance of ball transfer units = edge length of the object divided by 2.5.