

COM-KU® / S



DIE CASTING COMPOUND PLASTIC SLIDING BEARING,
MAINTENANCE-FREE AND LOW-MAINTENANCE

COM-KU[®]/S sliding bearing



Types

KSZ
Cylindrical bushing

KSB
Flanged bushing

TECHNICAL DATA

| | |
|--------------------|--|
| Description | Cost effective thermoplastic plastic sliding bearing in great measurement diversity available. Maintenance-free |
| Properties | Dry sliding bearing of good value, suitable for simple applications and axial movements. Maintenance-free |
| Material * | Compound plastic produced by injection-molding |

MATERIAL PROPERTIES **

| | | |
|--------------------------------|-------------|--|
| Specific load capacity static | ≤ 70 | [N/mm ²] dep. on temperature and length of strain |
| Specific load capacity dynamic | ≤ 40 | [N/mm ²] dep. on temperature and sliding speed |
| Sliding speed | < 1,0 | [m/s] |
| Friction value | 0,08 - 0,20 | [μ] |
| Temperature strain | -50 - +100 | [C°] |
| Max. Pv - value | 0,6 | [N/mm ² x m/s] dep. on environmental conditions |
| Moisture absorption | 0,1 | [% at 20°C in 24h] |

TOLERANCE DETAILS

| | |
|---|--|
| Housing | H7 |
| Bushing inner - Ø after mounting | E10 |
| Shaft tolerance | h - tolerance (h9 recommended) |
| Shaft material | Steel >200HB dressed to size, Surface roughness < R _z 4 |

MOUNTING ADVICE

| | |
|------------------------------|--|
| Housing | Mounting bevel, min. 1,5 mm x 15-45° |
| Shaft | Mounting bevel, 5 mm x 15°, edges rounded |
| Force fitting mandrel | The application of an adequate force fitting mandrel is advisable. |
| Maintenance | None COM-KU [®] /S is a self lubricating and maintenance-free plastic sliding bearing. |

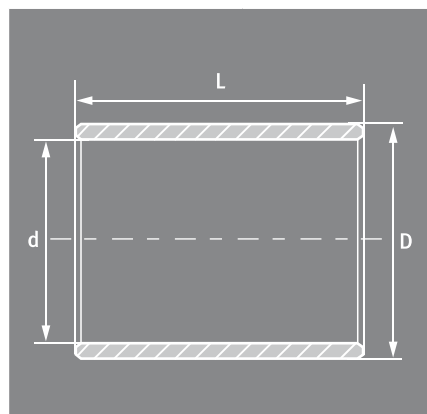
Cylindrical and flanged bushings are standard fabrication. All special designs are available at short notice!

* On request further materials are available for higher demands, e.g. for higher temperature ranges.

** The above stated material properties are valid for optimal operating conditions. Through changes of the application conditions e.g. higher sliding speed or strain, these values are subject to change.

KSZ = Cylindrical bushing

List of our standard dimensions in mm.



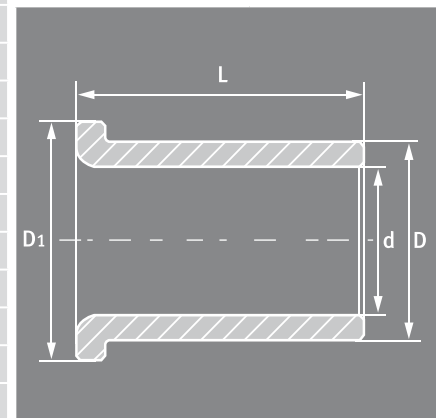
| LHG description | d / D x L | LHG description | d / D x L |
|-----------------|-----------|-----------------|------------|
| | | KSZ409-080912 | 8/9x12 |
| | | KSZ409-081005 | 8/10x5 |
| | | KSZ409-081006 | 8/10x6 |
| | | KSZ409-081008 | 8/10x8 |
| | | KSZ409-081010 | 8/10x10 |
| | | KSZ409-081012 | 8/10x12 |
| | | KSZ409-081013 | 8/10x13 |
| | | KSZ409-081015 | 8/10x15 |
| | | KSZ409-081016 | 8/10x16 |
| | | KSZ409-081020 | 8/10x20 |
| | | KSZ409-081022 | 8/10x22 |
| | | KSZ409-091106 | 9/11x6 |
| | | KSZ409-101106 | 10/11x6 |
| | | KSZ409-101110 | 10/11x10 |
| | | KSZ409-101125 | 10/11x25 |
| | | KSZ409-101130 | 10/11x30 |
| | | KSZ409-101204 | 10/12x4 |
| | | KSZ409-101204,5 | 10/12x4,5 |
| | | KSZ409-101205 | 10/12x5 |
| | | KSZ409-101206 | 10/12x6 |
| | | KSZ409-101207 | 10/12x7 |
| | | KSZ409-101208 | 10/12x8 |
| | | KSZ409-101209 | 10/12x9 |
| | | KSZ409-101210 | 10/12x10 |
| | | KSZ409-101212 | 10/12x12 |
| | | KSZ409-101214 | 10/12x14 |
| | | KSZ409-101215 | 10/12x15 |
| | | KSZ409-101217 | 10/12x17 |
| | | KSZ409-101220 | 10/12x20 |
| | | KSZ409-121312 | 12/13x12 |
| | | KSZ409-121315 | 12/13x15 |
| | | KSZ409-121404 | 12/14x4 |
| | | KSZ409-121405 | 12/14x5 |
| | | KSZ409-121406 | 12/14x6 |
| | | KSZ409-121408 | 12/14x8 |
| | | KSZ409-121410 | 12/14x10 |
| | | KSZ409-121412 | 12/14x12 |
| | | KSZ409-121414 | 12/14x14 |
| | | KSZ409-121415 | 12/14x15 |
| | | KSZ409-121420 | 12/14x20 |
| | | KSZ409-121425 | 12/14x25 |
| | | KSZ409-121506 | 12/15x6 |
| | | KSZ409-121522 | 12/15x22 |
| | | KSZ409-121610 | 12/16x10 |
| | | KSZ409-121620 | 12/16x20 |
| | | KSZ409-131507 | 13/15x7 |
| | | KSZ409-131507,5 | 13/15x7,5 |
| | | KSZ409-131510 | 13/15x10 |
| | | KSZ409-131515 | 13/15x15 |
| | | KSZ409-131520 | 13/15x20 |
| | | KSZ409-131525 | 13/15x25 |
| | | KSZ409-141603 | 14/16x3 |
| | | KSZ409-141606 | 14/16x6 |
| | | KSZ409-141608 | 14/16x8 |
| | | KSZ409-141610 | 14/16x10 |
| | | KSZ409-141612 | 14/16x12 |
| | | KSZ409-141615 | 14/16x15 |
| | | KSZ409-141620 | 14/16x20 |
| | | KSZ409-141625 | 14/16x25 |
| | | KSZ409-151615 | 15/16x15 |
| | | KSZ409-151704 | 15/17x4 |
| | | KSZ409-151710 | 15/17x10 |
| | | KSZ409-151712 | 15/17x12 |
| | | KSZ409-151715 | 15/17x15 |
| | | KSZ409-151720 | 15/17x20 |
| | | KSZ409-151725 | 15/17x25 |
| | | KSZ409-161805,5 | 16/18x5,5 |
| | | KSZ409-161808 | 16/18x8 |
| | | KSZ409-161810 | 16/18x10 |
| | | KSZ409-161812 | 16/18x12 |
| | | KSZ409-161813,5 | 16/18x13,5 |
| | | KSZ409-161815 | 16/18x15 |
| | | KSZ409-161820 | 16/18x20 |
| | | KSZ409-161825 | 16/18x25 |
| | | KSZ409-161830 | 16/18x30 |
| | | KSZ409-161850 | 16/18x50 |
| | | KSZ409-182010 | 18/20x10 |
| | | KSZ409-182012 | 18/20x12 |
| | | KSZ409-182015 | 18/20x15 |
| | | KSZ409-182020 | 18/20x20 |
| | | KSZ409-182025 | 18/20x25 |
| | | KSZ409-182045 | 18/20x45 |
| | | KSZ409-192206 | 19/22x6 |
| | | KSZ409-192228 | 19/22x28 |
| | | KSZ409-192235 | 19/22x35 |
| | | KSZ409-202120 | 20/21x20 |
| | | KSZ409-202203 | 20/22x3 |
| | | KSZ409-202208 | 20/22x8 |
| | | KSZ409-202210,5 | 20/22x10,5 |
| | | KSZ409-202215 | 20/22x15 |
| | | KSZ409-202220 | 20/22x20 |
| | | KSZ409-202222 | 20/22x22 |

KSZ = Cylindrical bushing

List of our standard dimensions in mm.

| LHG description | d / D x L | LHG description | d / D x L | LHG description | d / D x L |
|-----------------|------------|-----------------|------------|------------------|-------------|
| KSZ409-202230 | 20/22x30 | KSZ409-303435 | 30/34x35 | KSZ409-758040 | 75/80x40 |
| KSZ409-202310 | 20/23x10 | KSZ409-303440 | 30/34x40 | KSZ409-758060 | 75/80x60 |
| KSZ409-202315 | 20/23x15 | KSZ409-303452,5 | 30/34x52,5 | KSZ409-808560 | 80/85x60 |
| KSZ409-202320 | 20/23x20 | KSZ409-323620 | 32/36x20 | KSZ409-8085100 | 80/85x100 |
| KSZ409-202323 | 20/23x23 | KSZ409-323630 | 32/36x30 | KSZ409-8590100 | 85/90x100 |
| KSZ409-202324 | 20/23x24 | KSZ409-323640 | 32/36x40 | KSZ409-9095100 | 90/95x100 |
| KSZ409-202325 | 20/23x25 | KSZ409-353914 | 35/39x14 | KSZ409-95100100 | 95/100x100 |
| KSZ409-202330 | 20/23x30 | KSZ409-353920 | 35/39x20 | KSZ409-10010530 | 100/105x30 |
| KSZ409-222410 | 22/24x10 | KSZ409-353925 | 35/39x25 | KSZ409-10010540 | 100/105x40 |
| KSZ409-222415 | 22/24x15 | KSZ409-353930 | 35/39x30 | KSZ409-100105100 | 100/105x100 |
| KSZ409-222417 | 22/24x17 | KSZ409-353940 | 35/39x40 | KSZ409-110115100 | 110/115x100 |
| KSZ409-222420 | 22/24x20 | KSZ409-353950 | 35/39x50 | KSZ409-120125100 | 120/125x100 |
| KSZ409-222430 | 22/24x30 | KSZ409-364020 | 36/40x20 | KSZ409-125130100 | 125/130x100 |
| KSZ409-222515 | 22/25x15 | KSZ409-374120 | 37/41x20 | KSZ409-130135100 | 130/135x100 |
| KSZ409-222520 | 22/25x20 | KSZ409-404410 | 40/44x10 | KSZ409-13514080 | 135/140x80 |
| KSZ409-222525 | 22/25x25 | KSZ409-404416,5 | 40/44x16,5 | KSZ409-140145100 | 140/145x100 |
| KSZ409-222530 | 22/25x30 | KSZ409-404420 | 40/44x20 | KSZ409-150155100 | 150/155x100 |
| KSZ409-242706 | 24/27x6 | KSZ409-404430 | 40/44x30 | | |
| KSZ409-242715 | 24/27x15 | KSZ409-404440 | 40/44x40 | | |
| KSZ409-242720 | 24/27x20 | KSZ409-404450 | 40/44x50 | | |
| KSZ409-242725 | 24/27x25 | KSZ409-424640 | 42/46x40 | | |
| KSZ409-242730 | 24/27x30 | KSZ409-455022 | 45/50x22 | | |
| KSZ409-252625 | 25/26x25 | KSZ409-455023,5 | 45/50x23,5 | | |
| KSZ409-252815 | 25/28x15 | KSZ409-455030 | 45/50x30 | | |
| KSZ409-252820 | 25/28x20 | KSZ409-455038 | 45/50x38 | | |
| KSZ409-252824 | 25/28x24 | KSZ409-455040 | 45/50x40 | | |
| KSZ409-252825 | 25/28x25 | KSZ409-455050 | 45/50x50 | | |
| KSZ409-252830 | 25/28x30 | KSZ409-505520 | 50/55x20 | | |
| KSZ409-252835 | 25/28x35 | KSZ409-505525 | 50/55x25 | | |
| KSZ409-252850 | 25/28x50 | KSZ409-505530 | 50/55x30 | | |
| KSZ409-263016 | 26/30x16 | KSZ409-505540 | 50/55x40 | | |
| KSZ409-273005 | 27/30x5 | KSZ409-505550 | 50/55x50 | | |
| KSZ409-283210,5 | 28/32x10,5 | KSZ409-525720 | 52/57x20 | | |
| KSZ409-283212 | 28/32x12 | KSZ409-556020 | 55/60x20 | | |
| KSZ409-283215 | 28/32x15 | KSZ409-556040 | 55/60x40 | | |
| KSZ409-283220 | 28/32x20 | KSZ409-556050 | 55/60x50 | | |
| KSZ409-283223 | 28/32x23 | KSZ409-556060 | 55/60x60 | | |
| KSZ409-283225 | 28/32x25 | KSZ409-606530 | 60/65x30 | | |
| KSZ409-283230 | 28/32x30 | KSZ409-606540 | 60/65x40 | | |
| KSZ409-303112 | 30/31x12 | KSZ409-606550 | 60/65x50 | | |
| KSZ409-303130 | 30/31x30 | KSZ409-606560 | 60/65x60 | | |
| KSZ409-303415 | 30/34x15 | KSZ409-626735 | 62/67x35 | | |
| KSZ409-303420 | 30/34x20 | KSZ409-657030 | 65/70x30 | | |
| KSZ409-303424 | 30/34x24 | KSZ409-657050 | 65/70x50 | | |
| KSZ409-303425 | 30/34x25 | KSZ409-707560 | 70/75x60 | | |
| KSZ409-303430 | 30/34x30 | KSZ409-727776 | 72/77x76 | | |

KSB = Flanged bushing



| LHG description | d / D / D ₁ x L |
|-----------------|----------------------------|
| KSB409-030402 | 3/4,5/7,5x2 |
| KSB409-030403 | 3/4,5/7,5x3 |
| KSB409-030405 | 3/4,5/7,5x5 |
| KSB409-040503 | 4/5,5/9,5x3 |
| KSB409-040504 | 4/5,5/9,5x4 |
| KSB409-040506 | 4/5,5/9,5x6 |
| KSB409-040504 | 4/5/9,5x4 |
| KSB409-040506 | 4/5/9,5x6 |
| KSB409-050603,5 | 5/6/10x3,5 |
| KSB409-050604 | 5/6/10x4 |
| KSB409-050605 | 5/6/10x5 |
| KSB409-050606 | 5/6/10x6 |

Custom sizes are produced in a short term

KSB = Flanged bushing

List of our standard dimensions in mm.

| LHG description | d / D / D ₁ x L | LHG description | d / D / D ₁ x L | LHG description | d / D / D ₁ x L |
|-----------------|----------------------------|-----------------|----------------------------|-------------------|----------------------------|
| KSB409-050615 | 5/6/10x15 | KSB409-121412 | 12/14/20x12 | KSB409-283010 | 28/30/36x10 |
| KSB409-050703,5 | 5/7/11x3,5 | KSB409-121415 | 12/14/20x15 | KSB409-283036 | 28/30/35x36 |
| KSB409-050704 | 5/7/11x4 | KSB409-121417 | 12/14/20x17 | KSB409-303120 | 30/31/36x20 |
| KSB409-050705 | 5/7/11x5 | KSB409-121420 | 12/14/20x20 | KSB409-303130 | 30/31/35x30 |
| KSB409-050730 | 5/7/11x30 | KSB409-121424 | 12/14/20x24 | KSB409-303204 | 30/32/37x4 |
| KSB409-060704,5 | 6/7/11x4,5 | KSB409-131506 | 13/15/22x6 | KSB409-303212 | 30/32/37x12 |
| KSB409-060706 | 6/7/11x6 | KSB409-141603 | 14/16/22x3 | KSB409-303217,5 | 30/32/37x17,5 |
| KSB409-060710 | 6/7/11x10 | KSB409-141604 | 14/16/22x4 | KSB409-303222 | 30/32/37x22 |
| KSB409-060804 | 6/8/12x4 | KSB409-141606 | 14/16/22x6 | KSB409-303409 | 30/34/42x9 |
| KSB409-060805 | 6/8/12x5 | KSB409-141608 | 14/16/22x8 | KSB409-303416 | 30/34/42x16 |
| KSB409-060806 | 6/8/12x6 | KSB409-141610 | 14/16/22x10 | KSB409-303420 | 30/34/42x20 |
| KSB409-060807 | 6/8/12x7 | KSB409-141612 | 14/16/22x12 | KSB409-303426 | 30/34/42x26 |
| KSB409-060808 | 6/8/12x8 | KSB409-141617 | 14/16/22x17 | KSB409-303437 | 30/34/42x37 |
| KSB409-060810 | 6/8/12x10 | KSB409-141621 | 14/16/22x21 | KSB409-323616 | 32/36/40x16 |
| KSB409-060835 | 6/8/12x35 | KSB409-151602 | 15/16/20x2 | KSB409-323626 | 32/36/40x26 |
| KSB409-070803 | 7/8/12x3 | KSB409-151602,5 | 15/16/20x2,5 | KSB409-353907 | 35/39/47x7 |
| KSB409-070808 | 7/8/12x8 | KSB409-151603 | 15/16/20x3 | KSB409-353916 | 35/39/47x16 |
| KSB409-070906 | 7/9/15x6 | KSB409-151615 | 15/16/20x15 | KSB409-353926 | 35/39/47x26 |
| KSB409-070910 | 7/9/15x10 | KSB409-151704 | 15/17/23x4 | KSB409-353936 | 35/39/47x36 |
| KSB409-070912 | 7/9/15x12 | KSB409-15174,5 | 15/17/23x4,5 | KSB409-384222 | 38/42/54x22 |
| KSB409-080903 | 8/9/15x3 | KSB409-151705 | 15/17/23x5 | KSB409-404407 | 40/44/52x7 |
| KSB409-080905,5 | 8/9/13x5,5 | KSB409-151709 | 15/17/23x9 | KSB409-404414 | 40/44/52x14 |
| KSB409-080908 | 8/9/13x8 | KSB409-151712 | 15/17/23x12 | KSB409-404430 | 40/44/52x30 |
| KSB409-080912 | 8/9/13x12 | KSB409-151717 | 15/17/23x17 | KSB409-404420 | 40/44/52x20 |
| KSB409-081003 | 8/10/15x3 | KSB409-151720 | 15/17/23x20 | KSB409-404440 | 40/44/52x40 |
| KSB409-081004 | 8/10/15x4 | KSB409-161804 | 16/18/24x4 | KSB409-404450 | 40/44/52x50 |
| KSB409-081005,5 | 8/10/15x5,5 | KSB409-161806 | 16/18/24x6 | KSB409-424619 | 42/46/53x19 |
| KSB409-081006,5 | 8/10/15x6,5 | KSB409-161809 | 16/18/24x9 | KSB409-455025 | 45/50/58x25 |
| KSB409-081007,5 | 8/10/15x7,5 | KSB409-161812 | 16/18/24x12 | KSB409-455030 | 45/50/58x30 |
| KSB409-081009,5 | 8/10/15x9,5 | KSB409-161817 | 16/18/24x17 | KSB409-455050 | 45/50/58x50 |
| KSB409-081010 | 8/10/15x10 | KSB409-161821 | 16/18/24x21 | KSB409-505507 | 50/55/63x7 |
| KSB409-081015 | 8/10/15x15 | KSB409-171909 | 17/19/25x9 | KSB409-505510 | 50/55/63x10 |
| KSB409-081025 | 8/10/15x25 | KSB409-171925 | 17/19/25x25 | KSB409-505525 | 50/55/63x25 |
| KSB409-081030 | 8/10/15x30 | KSB409-182004 | 18/20/26x4 | KSB409-505540 | 50/55/63x40 |
| KSB409-091017,5 | 9/10/15x17,5 | KSB409-182006 | 18/20/26x6 | KSB409-505550 | 50/55/63x50 |
| KSB409-091006,5 | 9/10/15x6,5 | KSB409-182009 | 18/20/26x9 | KSB409-606522 | 60/65/73x22 |
| KSB409-101110 | 10/11/15x10 | KSB409-182011 | 18/20/26x11 | KSB409-606530 | 60/65/73x30 |
| KSB409-101203,5 | 10/12/18x3,5 | KSB409-182012 | 18/20/26x12 | KSB409-606550 | 60/65/73x50 |
| KSB409-101204 | 10/12/18x4 | KSB409-182017 | 18/20/26x17 | KSB409-657050 | 65/70/78x50 |
| KSB409-101205 | 10/12/18x5 | KSB409-182022 | 18/20/26x22 | KSB409-707550 | 70/75/83x50 |
| KSB409-101206 | 10/12/18x6 | KSB409-182030 | 18/20/26x30 | KSB409-758050 | 75/80/88x50 |
| KSB409-101207 | 10/12/18x7 | KSB409-182028 | 18/20/26x28 | KSB409-8085100 | 80/85/93x100 |
| KSB409-101209 | 10/12/18x9 | KSB409-182032 | 18/20/26x32 | KSB409-8590100 | 85/90/98x100 |
| KSB409-101210 | 10/12/18x10 | KSB409-202120 | 20/21/25x20 | KSB409-9095100 | 90/95/103x100 |
| KSB409-101212 | 10/12/18x12 | KSB409-202307 | 20/23/30x7 | KSB409-95100100 | 95/100/108x100 |
| KSB409-101215 | 10/12/18x15 | KSB409-202311 | 20/23/30x11,5 | KSB409-100105100 | 100/105/113x100 |
| KSB409-101217 | 10/12/18x17 | KSB409-202316 | 20/23/30x16,5 | KSB409-10010542,5 | 100/105/113x42,5 |
| KSB409-121303 | 12/13/17x3 | KSB409-202321 | 20/23/30x21,5 | KSB409-110115100 | 110/115/123x100 |
| KSB409-121312 | 12/13/17x12 | KSB409-242707 | 24/27/32x7 | KSB409-120125100 | 120/125/133x100 |
| KSB409-121403 | 12/14/20x3 | KSB409-242710 | 24/27/32x10 | KSB409-125130100 | 125/130/138x100 |
| KSB409-121406 | 12/14/20x6 | KSB409-252625 | 25/26/30x25 | KSB409-130135100 | 130/135/143x100 |
| KSB409-121407 | 12/14/20x7 | KSB409-252748 | 25/27/32x48 | KSB409-140145100 | 140/145/153x100 |
| KSB409-121409 | 12/14/20x9 | KSB409-252811,5 | 25/28/35x11,5 | KSB409-15015540 | 150/155/163x40 |
| KSB409-121410 | 12/14/20x10 | KSB409-252816,5 | 25/28/35x16,5 | KSB409-150155100 | 150/155/163x100 |
| KSB409-121411 | 12/14/20x11 | KSB409-252821,5 | 25/28/35x21,5 | | |