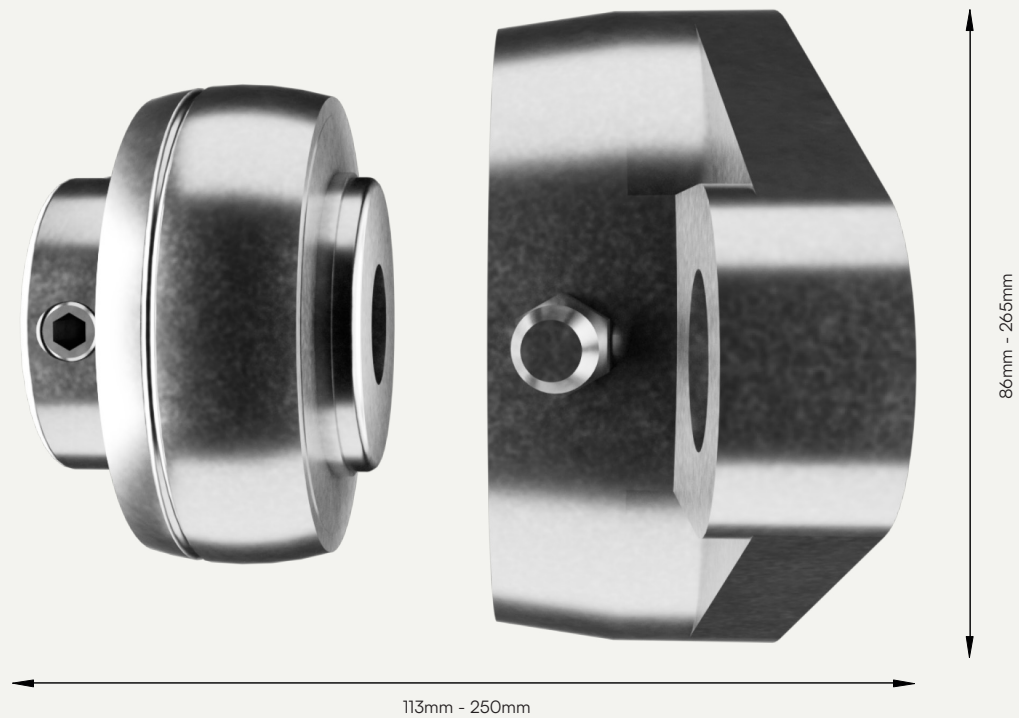


# UCFL





Our bearing inserts (UC, HC and UK) have a dual seal. This consists of a lip seal guided on the outer ring and a cover disc which sits on the inner ring.

|     |       |       |       | Loads               |                      | Setscrew   | Tightening torque |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|---------------------|----------------------|------------|-------------------|
|                                                                                                                                                                                                                                                                                                                                         |       |       |       | CKN <sub>dyn.</sub> | CKN <sub>stat.</sub> |            | Nm                |
| UC201                                                                                                                                                                                                                                                                                                                                   | SA201 | SB201 | UK201 | 7,30                | 4,76                 | M5 x 0,8   | 3,50              |
| UC202                                                                                                                                                                                                                                                                                                                                   | SA202 | SB202 | UK202 | 7,30                | 4,76                 | M5 x 0,8   | 3,50              |
| UC203                                                                                                                                                                                                                                                                                                                                   | SA203 | SB203 | UK203 | 7,30                | 4,76                 | M5 x 0,8   | 3,50              |
| UC204                                                                                                                                                                                                                                                                                                                                   | SA204 | SB204 | UK204 | 9,85                | 6,58                 | M6 x 1,0   | 5,50              |
| UC205                                                                                                                                                                                                                                                                                                                                   | SA205 | SB205 | UK205 | 10,80               | 7,88                 | M6 x 1,0   | 5,50              |
| UC206                                                                                                                                                                                                                                                                                                                                   | SA206 | SB206 | UK206 | 15,00               | 11,30                | M6 x 1,0   | 5,50              |
| UC207                                                                                                                                                                                                                                                                                                                                   | SA207 | SB207 | UK207 | 19,70               | 15,30                | M8 x 1,0   | 11,50             |
| UC208                                                                                                                                                                                                                                                                                                                                   | SA208 | SB208 | UK208 | 22,40               | 17,90                | M8 x 1,0   | 11,50             |
| UC209                                                                                                                                                                                                                                                                                                                                   | SA209 |       | UK209 | 25,10               | 20,50                | M8 x 1,0   | 11,50             |
| UC210                                                                                                                                                                                                                                                                                                                                   | SA210 |       | UK210 | 27,00               | 23,20                | M10 x 1,25 | 22,00             |
| UC211                                                                                                                                                                                                                                                                                                                                   |       |       | UK211 | 33,40               | 29,20                | M10 x 1,25 | 22,00             |
| UC212                                                                                                                                                                                                                                                                                                                                   | SA212 |       | UK212 | 40,30               | 35,90                | M10 x 1,25 | 22,00             |
| UC213                                                                                                                                                                                                                                                                                                                                   |       |       | UK213 | 43,90               | 40,00                | M12 x 1,25 | 33,00             |
| UC214                                                                                                                                                                                                                                                                                                                                   |       |       | UK214 | 47,70               | 44,00                | M12 x 1,25 | 33,00             |
| UC215                                                                                                                                                                                                                                                                                                                                   |       |       | UK215 | 50,70               | 49,30                | M12 x 1,25 | 33,00             |
| UC216                                                                                                                                                                                                                                                                                                                                   |       |       | UK216 | 55,50               | 53,00                | M12 x 1,25 | 33,00             |
| UC217                                                                                                                                                                                                                                                                                                                                   |       |       | UK217 | 63,50               | 63,00                | M12 x 1,25 | 33,00             |
| UC218                                                                                                                                                                                                                                                                                                                                   |       |       | UK218 | 74,00               | 71,50                | M12 x 1,25 | 33,00             |

## Ball bearing units

Housing bearings, as fully assembled and ready-to-install bearing units, present significant opportunities for streamlining various industries and installation scenarios. The ball bearings are superbly sealed against dirt and dust by specialized seals, ensuring, under normal operating conditions, a maintenance-free lifespan. The quality and quantity of the lithium-soap-based grease used inside the ball bearings allow continuous operation in temperatures ranging from -30 to +100°C. The outer ring of the ball bearings is designed spherically, facilitating the compensation for misalignments of the shafts when coupled with the respective housings.



## Assembly guidelines

The tension bearing units are slid onto the shaft to their designated positions. Subsequently, the housings are securely fastened to the machinery. Only then is the ball bearing insert affixed to the shaft.

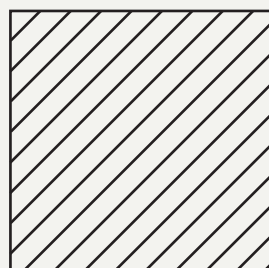
## Axial load on the bearing inserts

When axial loads (across a shaft shoulder) are transmitted to bearing inserts, the same axial load capacities apply as with regular deep groove ball bearings of series 62../63.. according to DIN625. The table above illustrates the permissible axial loads for different mounting methods.

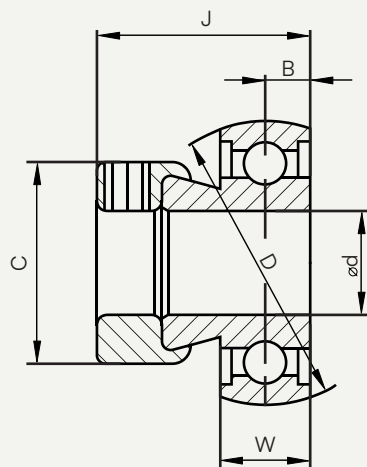
Recommended shaft tolerance

| Stock | h6    | h7   | h8   | h9   | h11  |
|-------|-------|------|------|------|------|
| 201   | 10000 | 6300 | 4500 | 1600 | 1000 |
| 202   | 10000 | 6300 | 4500 | 1600 | 1000 |
| 203   | 9500  | 6000 | 4300 | 1500 | 950  |
| 204   | 8500  | 5300 | 3800 | 1300 | 850  |
| 205   | 7000  | 4500 | 3200 | 1000 | 700  |
| 206   | 6300  | 4000 | 2800 | 900  | 630  |
| 207   | 5300  | 3400 | 2200 | 750  | 530  |
| 208   | 4800  | 3000 | 1900 | 670  | 480  |
| 209   | 4300  | 2600 | 1700 | 600  | 430  |
| 210   | 4000  | 2400 | 1600 | 560  | 400  |
| 211   | 3600  | 2000 | 1400 | 500  | 360  |
| 212   | 3400  | 1900 | 1300 | 480  | 340  |
| 213   | 3000  | 1700 | 1100 | 430  | 300  |

Permissible axial load in kg



|            |    | 150     | 200     | 300     | 400 | 500     | 600 | 700     | 800 | 900 | 1000 | 1500 | 2000    |
|------------|----|---------|---------|---------|-----|---------|-----|---------|-----|-----|------|------|---------|
| Stock size | UC | 201-205 | 206-207 | 208-211 | 212 | 212-215 | 216 | 217-218 | 213 | 214 | 215  | 216  | 217-218 |
|            | UK |         | 205-207 | 208     |     | 209     | 210 | 211-212 |     |     |      |      |         |
|            | HC | 204-205 | 206-207 | 208-211 |     |         |     |         |     |     |      |      |         |
|            | SA | 201-205 | 206-207 | 208-210 |     |         |     |         |     |     |      |      |         |
|            | SB | 206     | 207-208 | 209-210 |     |         |     |         |     |     |      |      |         |



| Dimensions in mm |      |    |     |    |       |       |       | Carrying figures |       |
|------------------|------|----|-----|----|-------|-------|-------|------------------|-------|
|                  |      |    |     |    |       |       |       | dyn.             | stat. |
| Stock            | kg   | d  | D   | W  | J     | C     | b     | CKN              | CKN   |
| SA201            |      | 12 |     |    |       |       |       |                  |       |
| SA202            |      | 15 |     |    |       |       |       |                  |       |
| SA203            | 0,15 | 17 | 40  | 12 | 28,54 | 28,58 | 6,55  | 7,3              | 4,76  |
| SA204            | 0,16 | 20 | 47  | 14 |       | 33,3  |       | 9,85             | 6,58  |
| SA205            | 0,23 | 25 | 52  | 15 | 30,92 | 38,1  | 7,56  | 10,8             | 7,88  |
| SA206            | 0,4  | 30 | 62  | 16 | 35,68 | 44,45 | 9,04  | 15               | 11,3  |
| SA207            | 0,58 | 35 | 72  | 17 | 38,88 | 55,58 | 9,55  | 19,7             | 15,3  |
| SA208            | 0,73 | 40 | 80  | 18 |       | 60,3  |       | 22,4             | 17,9  |
| SA209            | 0,87 | 45 | 85  | 19 |       | 63,5  |       | 25,1             | 20,5  |
| SA210            | 0,98 | 50 | 90  | 20 | 43,64 | 69,85 | 11,05 | 27               | 23,2  |
| SA212            | 1,4  | 60 | 110 | 22 | 53,31 | 84,12 | 13,58 | 40,3             | 35,9  |

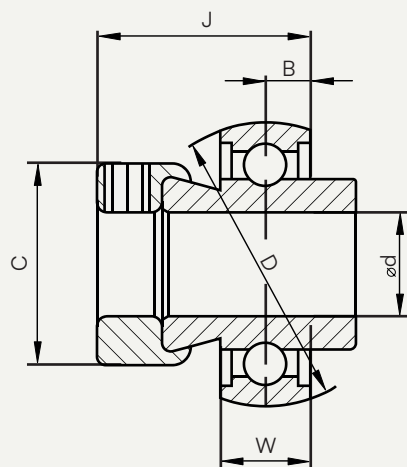
## In general

The specialized sealing of these bearings consists of an oil-resistant rubber seal securely attached to the outer ring and reinforced with steel sheet. This frictional sealing disk is guided in a groove on the inner ring, providing maximum protection even in exceptionally dirty conditions.

The bearings come pre-greased with high-quality lubricant, eliminating the need for re-greasing under normal operating conditions. However, under extreme conditions, re-greasing is possible through two lubrication holes in the outer ring.

During installation of these bearings, attention must be given to tightening the eccentric ring in the direction of shaft rotation.

Dynamic and static load ratings have been calculated according to ISO standards. To obtain „scaled-up“ values for equivalent bearings from other manufacturers for comparison, the dynamic load rating C should be multiplied by a factor of 1.35.



## In general

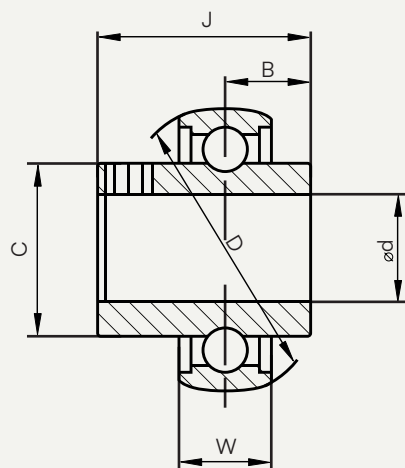
The specialized sealing of these bearings consists of an oil-resistant rubber seal securely attached to the outer ring and reinforced with steel sheet. This frictional sealing disk is guided in a groove on the inner ring, providing maximum protection even in exceptionally dirty conditions.

The bearings come pre-greased with high-quality lubricant, eliminating the need for re-greasing under normal operating conditions. However, under extreme conditions, re-greasing is possible through two lubrication holes in the outer ring.

During installation of these bearings, attention must be given to tightening the eccentric ring in the direction of shaft rotation.

Dynamic and static load ratings have been calculated according to ISO standards. To obtain „scaled-up“ values for equivalent bearings from other manufacturers for comparison, the dynamic load rating C should be multiplied by a factor of 1.35.

| Dimensions in mm |      |     |     |    |       |       |       | Carrying figures |       |
|------------------|------|-----|-----|----|-------|-------|-------|------------------|-------|
|                  |      |     |     |    |       |       |       | dyn.             | stat. |
| Stock            | kg   | d   | D   | W  | J     | C     | b     | CKN              | CKN   |
| HC204            | 0,2  | 20  | 47  | 14 | 43,62 | 33,3  | 17,12 | 9,85             | 6,85  |
| HC205            | 0,26 | 25  | 52  | 15 | 44,4  | 38,1  | 17,49 | 10,8             | 7,88  |
| HC206            | 0,53 | 30  | 62  | 16 | 48,42 | 44,45 | 18,32 | 15               | 11,3  |
| HC207            | 0,7  | 35  | 72  | 17 | 51,18 | 55,58 | 18,89 | 19,7             | 15,3  |
| HC208            | 0,82 | 40  | 80  | 18 | 56,34 | 60,3  | 21,46 | 22,4             | 17,9  |
| HC209            | 1,08 | 45  | 85  | 19 | 56,34 | 63,5  | 21,46 | 25,1             | 20,5  |
| HC210            | 1,19 | 50  | 90  | 20 | 62,7  | 69,85 | 24,65 | 27               | 23,2  |
| HC211            | 1,4  | 55  | 100 | 21 | 71,44 | 76,2  | 27,82 | 33,4             | 29,2  |
| HC212            | 1,72 | 60  | 110 | 22 | 77,82 | 84,12 | 32,02 | 40,3             | 35,9  |
| HC213            | 2,56 | 65  | 120 | 23 | 77,82 | 87,33 | 31,02 | 43,9             | 40    |
| HC214            | 2,56 | 70  | 125 | 24 | 85,36 | 96,82 | 34,19 | 47,7             | 44    |
| HC215            | 2,61 | 75  | 130 | 25 | 91,72 | 101,6 | 37,37 | 50,7             | 49,3  |
| HC216            | 3,23 | 80  | 140 | 26 | 100   | 111   | 40,4  | 55,5             | 53    |
| HC218            | 4,99 | 90  | 160 | 30 | 106,3 | 123,7 | 43,6  | 74               | 71,5  |
| HC220            | 4,65 | 100 | 180 | 36 | 75    | 132   | 25,5  | 122              | 93    |
| HC224            | 6,93 | 120 | 215 | 40 | 81    | 152   | 28,5  | 155              | 131   |

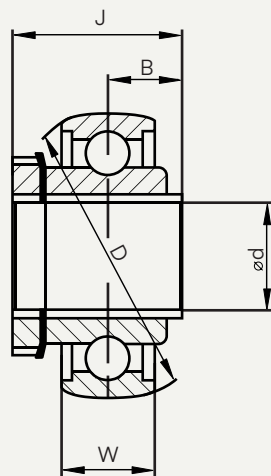


| Dimensions in mm |      |    |     |    |       |        |       | Carrying figures |       |
|------------------|------|----|-----|----|-------|--------|-------|------------------|-------|
|                  |      |    |     |    |       |        |       | dyn.             | stat. |
| Stock            | kg   | d  | D   | W  | J     | C      | b     | CKN              | CKN   |
| UC201            |      | 12 |     |    |       |        |       |                  |       |
| UC202            |      | 15 |     |    |       |        |       |                  |       |
| UC203            |      | 17 |     |    |       |        |       |                  |       |
| UC204            | 0,13 | 20 | 47  | 14 | 30,36 | 28,5   | 12,75 | 9,85             | 6,58  |
| UC205            | 0,17 | 25 | 52  | 15 | 34,11 | 34,01  | 14,32 | 10,8             | 7,88  |
| UC206            | 0,37 | 30 | 62  | 16 | 38,1  | 40     | 15,93 | 15               | 11,3  |
| UC207            | 0,51 | 35 | 72  | 17 | 42,88 | 46,69  | 17,53 | 19,7             | 15,3  |
| UC208            | 0,64 | 40 | 80  | 18 | 49,23 | 52,7   | 19,1  | 22,4             | 17,9  |
| UC209            | 0,73 | 45 | 85  | 19 | 49,23 | 57,3   | 19,1  | 25,1             | 20,5  |
| UC210            | 0,91 | 50 | 90  | 20 | 51,59 | 62,2   | 19,1  | 27               | 23,2  |
| UC211            | 1,12 | 55 | 100 | 21 | 55,55 | 68,81  | 22,28 | 33,4             | 29,2  |
| UC212            | 1,47 | 60 | 110 | 22 | 65,07 | 75,34  | 25,45 | 40,3             | 35,9  |
| UC213            | 2,02 | 65 | 120 | 23 | 65,07 | 82,4   | 25,45 | 43,3             | 40    |
| UC214            | 2,27 | 70 | 125 | 24 | 74,63 | 87     | 30,23 | 47,7             | 44    |
| UC215            | 2,61 | 75 | 130 | 25 | 77,77 | 92     | 33,37 | 50,7             | 49,3  |
| UC216            | 3,23 | 80 | 140 | 26 | 82,55 | 98,5   | 33,37 | 55,5             | 53    |
| UC217            | 3,74 | 85 | 150 | 28 | 85,72 | 106,02 | 34,18 | 63,5             | 63    |

## In general

The specialized sealing of these bearings consists of an externally mounted, steel-reinforced, oil-resistant rubber seal. This abrasive sealing disc is guided in a groove on the inner ring, providing maximum protection even under exceptional contamination conditions. The bearings are equipped with high-quality grease, eliminating the need for re-lubrication (under normal operating conditions); however, under extreme conditions, re-lubrication is possible through two lubrication holes in the outer ring.

During the installation of these bearings, attention must be paid to tightening the eccentric ring in the direction of shaft rotation. The dynamic and static load ratings have been calculated in accordance with ISO standards. To obtain „extrapolated“ values for equivalent bearings from other manufacturers for comparison purposes, the dynamic load rating C should be multiplied by a factor of 1.35.



| Dimensions in mm |         |      |      |    |     |    |    | Carrying figures |       |
|------------------|---------|------|------|----|-----|----|----|------------------|-------|
|                  |         |      |      |    |     |    |    | dyn.             | stat. |
| Stock            | sleeves |      | kg   | d  | D   | W  | J  | CKN              | CKN   |
| UK205            | H2305   | H305 | 0,2  | 20 | 52  | 15 | 29 | 10,8             | 7,88  |
| UK206            | H2306   | H306 | 0,3  | 25 | 62  | 16 | 31 | 15               | 11,3  |
| UK207            | H2307   | H307 | 0,42 | 30 | 72  | 17 | 35 | 19,7             | 15,3  |
| UK208            | H2308   | H308 | 0,54 | 35 | 80  | 18 | 36 | 22,4             | 17,9  |
| UK209            | H2309   | H309 | 0,64 | 40 | 85  | 19 | 39 | 25,1             | 20,5  |
| UK210            | H2310   | H310 | 0,75 | 45 | 90  | 20 | 42 | 27               | 23,2  |
| UK211            | H2311   | H311 | 0,95 | 50 | 100 | 21 | 45 | 33,4             | 29,2  |
| UK212            | H2312   |      | 1,59 | 55 | 110 | 22 | 62 | 40,3             | 35,9  |
| UK213            | H2313   |      | 2    | 60 | 120 | 23 | 65 | 43,9             | 40    |
| UK215            | H2315   |      | 2,85 | 65 | 130 | 25 | 73 | 50,7             | 49,3  |
| UK216            | H2316   |      | 3,23 | 70 | 140 | 26 | 78 | 55,5             | 53    |

## In general

The specialized sealing of these bearings comprises a steel-reinforced, oil-resistant rubber seal securely fastened to the outer ring. This abrasive sealing disc is guided in a recess on the inner ring, providing maximum protection even under extraordinary contamination conditions.

The bearings come equipped with high-quality grease, eliminating the need for re-lubrication (under normal operating conditions). However, under extreme conditions, re-lubrication is possible through two lubrication holes in the outer ring. During the installation of these bearings, attention must be paid to tightening the eccentric ring in the direction of the shaft's rotation.

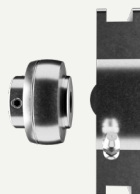
The dynamic and static load ratings have been calculated in accordance with ISO standards. To obtain „extrapolated“ values for equivalent bearings from other manufacturers for comparative purposes, the dynamic load rating C should be multiplied by a factor of 1.35.



UCT



UCFL



UCT



UCP



UCFC



UCF

Bearing units are completely ready-to-install units that offer significant streamlining possibilities in various industries and installation scenarios. The ball bearings are equipped with special seals to effectively protect against dirt and dust, ensuring a maintenance-free lifespan under normal operating conditions. These ball bearings contain high-quality lithium-soap-based lubricating grease, enabling continuous operation in a temperature range from -30 to +100°C. The outer ring of the ball bearings is designed with a spherical shape, allowing for the compensation of shaft misalignment errors when used with the corresponding housings.

**UCF200 / UCFL200  
UCP200 / UCFC200  
UCT200 / RCJS..USP  
RSFH / MSB500TO**



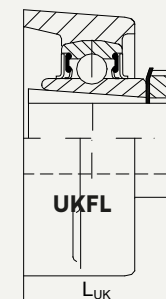
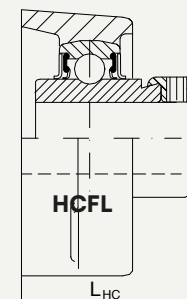
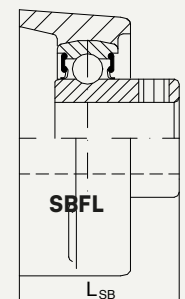
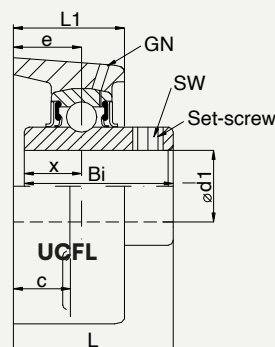
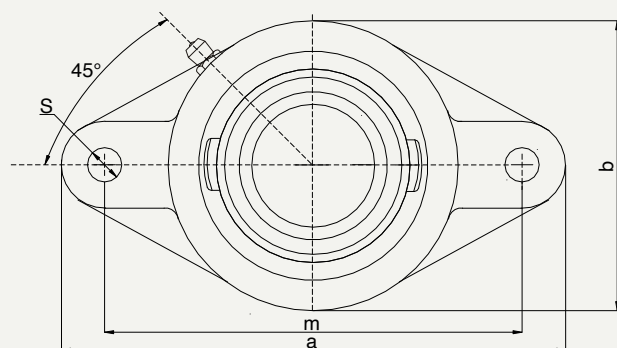
**0,63kg - 15,85kg**



**12mm - 100mm**



**1000U/min - 6500U/min**



| Article | d1 | a   | m   | e  | b   | c  | L    | S  | L1   | Bi   | x    | kg   | Housing | Bearing | Set-screw | SW | GN |
|---------|----|-----|-----|----|-----|----|------|----|------|------|------|------|---------|---------|-----------|----|----|
| UCFL201 | 12 | 113 | 90  | 15 | 60  | 11 | 25,5 | 12 | 33,3 | 31   | 12,7 | 0,63 | FL201   | UC201   | M6x1.0    | 3  | M6 |
| UCFL202 | 15 | 113 | 90  | 15 | 60  | 11 | 25,5 | 12 | 33,3 | 31   | 12,7 | 0,63 | FL202   | UC202   | M6x1.1    | 3  | M6 |
| UCFL203 | 17 | 113 | 90  | 15 | 60  | 11 | 25,5 | 12 | 33,3 | 31   | 12,7 | 0,63 | FL203   | UC203   | M6x1.2    | 3  | M6 |
| UCFL204 | 20 | 113 | 90  | 15 | 60  | 11 | 25,5 | 12 | 33,3 | 31   | 12,7 | 0,63 | FL204   | UC204   | M6x1.3    | 3  | M6 |
| UCFL205 | 25 | 130 | 99  | 16 | 68  | 13 | 27   | 16 | 35,7 | 34   | 14,3 | 0,82 | FL205   | UC205   | M6x1.4    | 3  | M6 |
| UCFL206 | 30 | 148 | 117 | 18 | 80  | 13 | 31   | 16 | 40,2 | 38,1 | 15,9 | 1,1  | FL206   | UC206   | M6x1.5    | 3  | M6 |
| UCFL207 | 35 | 161 | 130 | 19 | 90  | 14 | 34   | 16 | 44,4 | 42,9 | 17,5 | 1,5  | FL207   | UC207   | M8x1.0    | 4  | M6 |
| UCFL208 | 40 | 175 | 144 | 21 | 100 | 14 | 36   | 16 | 51,2 | 49,2 | 19   | 1,9  | FL208   | UC208   | M8x1.1    | 4  | M6 |
| UCFL209 | 45 | 188 | 148 | 22 | 108 | 15 | 38   | 19 | 52,2 | 49,2 | 19   | 2,3  | FL209   | UC209   | M8x1.2    | 4  | M6 |
| UCFL210 | 50 | 197 | 157 | 22 | 115 | 15 | 40   | 19 | 54,6 | 51,6 | 19   | 2,5  | FL210   | UC210   | M10x1.25  | 5  | M6 |
| UCFL211 | 55 | 224 | 184 | 25 | 130 | 18 | 43   | 19 | 58,4 | 55,6 | 22,2 | 3,4  | FL211   | UC211   | M10x1.26  | 5  | M8 |
| UCFL212 | 60 | 250 | 202 | 29 | 140 | 18 | 48   | 23 | 68,7 | 65,1 | 25,4 | 4,4  | FL212   | UC212   | M10x1.27  | 5  | M8 |
| UCFL213 | 65 | 258 | 210 | 30 | 155 | 20 | 50   | 23 | 69,7 | 65,1 | 25,4 | 5,3  | FL213   | UC213   | M10x1.28  | 5  | M8 |
| UCFL214 | 70 | 265 | 216 | 31 | 160 | 20 | 54   | 23 | 75,4 | 74,6 | 30,2 | 6    | FL214   | UC214   | M12x1.5   | 6  | M8 |
| UCFL215 | 75 | 275 | 225 | 35 | 165 | 20 | 57   | 23 | 79,5 | 77,8 | 33,3 | 6,6  | FL215   | UC215   | M12x1.6   | 6  | M8 |
| UCFL216 | 80 | 290 | 233 | 35 | 180 | 20 | 59   | 25 | 84,3 | 82,6 | 33,3 | 7,5  | FL216   | UC216   | M12x1.7   | 6  | M8 |
| UCFL217 | 85 | 305 | 248 | 36 | 190 | 22 | 63   | 25 | 87,6 | 85,7 | 34,1 | 9,1  | FL217   | UC217   | M12x1.8   | 6  | M8 |
| UCFL218 | 90 | 320 | 265 | 40 | 205 | 23 | 70   | 25 | 98,3 | 96   | 39,7 | 11,3 | FL218   | UC218   | M12x1.9   | 6  | M8 |



## THIS IS HOW YOU REACH US

### GLH GMBH

Heinrich-Hertz-Straße 4  
22941 Bargteheide, Germany  
Tel. +49 - 4532-280-753-0  
[www.glh24.de](http://www.glh24.de)

## WHAT WE OFFER

### SHIPPING UNTIL 17:00 UHR

Daily Forwarding shipment,  
parcel shipment with **UPS, DHL,**  
**FEDEX, NIGHT STAR**

Roller bearings, Plummer Blocks,  
Flanged Bearings, Plain Bearings,  
Adapter and withdrawal Sleeves, Seals