

## GAL

## Low duty

- **Standard series without bush according to DIN808**
- Max. misalignment angle 45°
- Materials:
  - PR80 steel (non-weldable)
- Maximum speed 800 rpm



### Applications

- For low rotation speeds
- For low load applications (e.g. valve, valve control, blinds, etc...)

### Option

- Bore modification, keyway

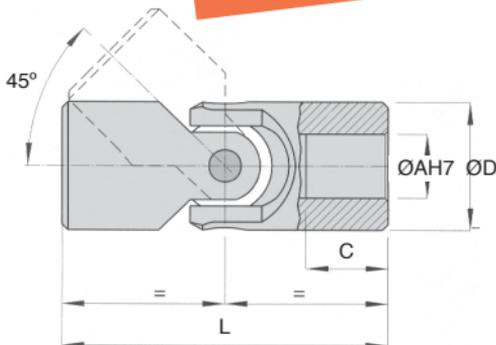
### Accessory

- Don't forget the cover trim M (tome 2 p.96)

### Modifiable bore



**Economy series**



### Angle Factor

|     |      |
|-----|------|
| 5°  | 1,25 |
| 10° | 1,00 |
| 20° | 0,75 |
| 30° | 0,45 |
| 40° | 0,30 |

### Effect of the working angle

The torques indicated correspond to an angle of 10°. They should therefore be weighted with the factors opposite as a function of the working angle.

e.g: 100Nm to transmit to 20°  
Calculation:  $100/0,75=133,33$

### DISCOUNTS

| Qty   | 1+    | 2+  | 4+   | 10+        |
|-------|-------|-----|------|------------|
| Disc. | Price | -6% | -12% | On request |

Torques (Nm)  
at 100 at 200 at 300 at 400 at 500 at 700 at 800

| Part number  | ØD | ØA | C  | L  | rpm   | rpm   | rpm  | rpm  | rpm  | rpm  | rpm  | rpm | Stock*  | Price each |
|--------------|----|----|----|----|-------|-------|------|------|------|------|------|-----|---------|------------|
| G00-AL-5/5   | 10 | 5  | 13 | 40 | 7,1   | 6,5   | 5,4  | 4,9  | 4,5  | -    | -    | ✓   | 28,71 € |            |
| G01-AL-6/6   | 13 | 6  | 13 | 40 | 8,5   | 8,5   | 6,8  | 6,2  | 5,7  | -    | -    | ✓   | 26,80 € |            |
| G02-AL-8/8   | 16 | 8  | 10 | 40 | 16,9  | 11,7  | 10,4 | 9,1  | 7,8  | 6,7  | 6,1  | ✓   | 26,80 € |            |
| G03-AL-10/10 | 20 | 10 | 10 | 45 | 32,5  | 22,1  | 19,5 | 15,6 | 14,3 | 13,0 | 9,1  | ✓   | 26,80 € |            |
| G04-AL-12/12 | 25 | 12 | 11 | 50 | 58,5  | 32,5  | 27,3 | 20,8 | 18,2 | 14,3 | 11,7 | ✓   | 29,40 € |            |
| G05-AL-14/14 | 29 | 14 | 13 | 56 | 91,0  | 58,5  | 52,0 | 42,9 | 39,0 | 33,8 | 28,6 | -   | 30,23 € |            |
| G1-AL-16/16  | 32 | 16 | 15 | 65 | 114,4 | 110,5 | 93,6 | 71,5 | 65,0 | 55,9 | 44,2 | -   | 32,09 € |            |

\*Dimensions in mm

## Low duty

## GDAL

- Standard series without bush according to DIN808
- Max. misalignment angle 45°
- Materials :  
PR80 steel (non-weldable)
- Maximum speed 800 rpm

### Applications

- For low rotation speeds
- For low load applications (e.g: valve, valve control, blinds, etc...)

### Option

- Bore modification, keyway

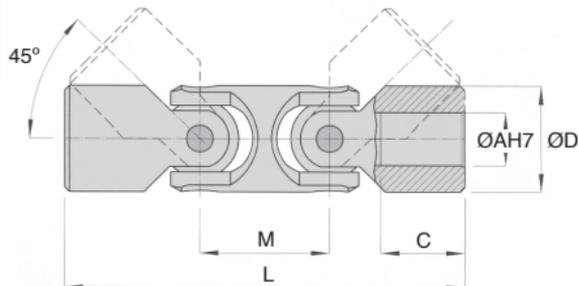
### Accessory

- Don't forget the cover trim M (tome 2 p.96)



**Economy series**

### Modifiable bore



### Angle Factor

|     |      |
|-----|------|
| 5°  | 1,25 |
| 10° | 1,00 |
| 20° | 0,75 |
| 30° | 0,45 |
| 40° | 0,30 |

### Effect of the working angle

The torques indicated correspond to an angle of 10°. They should therefore be weighted with the factors opposite as a function of the working angle.

e.g: 100Nm to transmit to 20°  
Calculation:  $100/0,75=133,33$

### DISCOUNTS

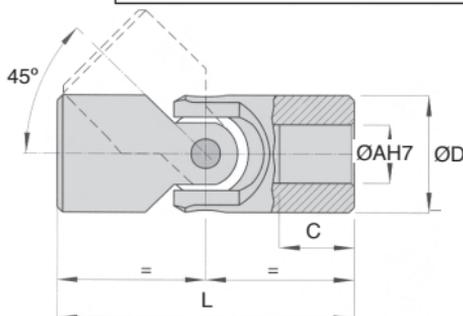
|       |       |     |            |
|-------|-------|-----|------------|
| Qty   | 1+    | 2+  | 4+         |
| Disc. | Price | -6% | On request |

| Part number   | Bore |    |    | Torques (Nm)  |     |               |       |               |      |        |      | Price each |        |         |
|---------------|------|----|----|---------------|-----|---------------|-------|---------------|------|--------|------|------------|--------|---------|
|               | ØD   | ØA | C  | at 100 at 200 |     | at 300 at 400 |       | at 500 at 700 |      | at 800 |      |            | Stock* |         |
|               |      |    |    | M             | rpm | rpm           | rpm   | rpm           | rpm  | rpm    | rpm  | rpm        |        |         |
| GD01-AL-6/6   | 13   | 6  | 13 | 63            | 23  | 8,5           | 8,5   | 6,8           | 6,2  | 5,7    | -    | -          | ✓      | 52,49 € |
| GD02-AL-8/8   | 16   | 8  | 10 | 67            | 27  | 16,9          | 11,7  | 10,4          | 9,1  | 7,8    | 6,7  | 6,1        | ✓      | 52,49 € |
| GD03-AL-10/10 | 20   | 10 | 10 | 74            | 29  | 32,5          | 22,1  | 19,5          | 15,6 | 14,3   | 13,0 | 9,1        | ✓      | 53,43 € |
| GD04-AL-12/12 | 22   | 12 | 11 | 74            | 29  | 58,5          | 32,5  | 27,3          | 20,8 | 18,2   | 14,3 | 11,7       | ✓      | 53,43 € |
| GD05-AL-14/14 | 25   | 14 | 13 | 85            | 33  | 91,0          | 58,5  | 52,0          | 42,9 | 39,0   | 33,8 | 28,6       | -      | 60,25 € |
| GD1-AL-16/16  | 29   | 16 | 19 | 100           | 35  | 114,4         | 110,5 | 93,6          | 71,5 | 65,0   | 55,9 | 44,2       | ✓      | 63,25 € |
| GD2-AL-18/18  | 32   | 18 | 20 | 112           | 39  | 208,0         | 156,0 | 130,0         | 88,4 | 75,4   | 70,2 | -          | -      | 77,81 € |

\*Dimensions in mm

## G Industrial range

- Standard series in accordance with **DIN 808-7551**
- **Smooth hardened bushes**
- Suitable for speeds up to 800 rpm
- Max. misalignment angle 45°
- Materials:
  - Body: C45 steel
  - Pin: Hardened steel 18NCD4



### Accessories

- Optional rubber cover

### Modifiable bore



| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### Effect of operating angle

The torques below are given for a 10° angle. For other angles, the appropriate factor from this table should be applied.

**E.g.** For 100Nm to be transmitted at 20°, the corrected value of torque becomes  $100/0.75 = 133$  Nm and a joint should be chosen that can transmit 133Nm at the required speed.

### DISCOUNTS

| Qty   | 1+       | 2+   | 4+         | 10+ |
|-------|----------|------|------------|-----|
| Disc. | List -6% | -12% | On request |     |

| Part number | ØD | ØA | C  | L   | Torque (Nm) |            |            |            |            |            | Stock* | Price each |            |
|-------------|----|----|----|-----|-------------|------------|------------|------------|------------|------------|--------|------------|------------|
|             |    |    |    |     | at 100 rpm  | at 200 rpm | at 300 rpm | at 400 rpm | at 500 rpm | at 700 rpm |        |            | at 800 rpm |
| G01-A-6/6   | 16 | 6  | 9  | 34  | -           | -          | -          | -          | -          | -          | -      | ✓          | 29,80 €    |
| G02-A-8/8   | 16 | 8  | 11 | 40  | -           | -          | -          | -          | -          | -          | -      | ✓          | 29,80 €    |
| G03-A-10/10 | 20 | 10 | 10 | 45  | 32,5        | 22,1       | 18,8       | 16,9       | 15,6       | 14,3       | 9,7    | ✓          | 30,98 €    |
| G04-A-12/12 | 25 | 12 | 11 | 50  | 55,9        | 32,5       | 26,6       | 22,1       | 20,1       | 16,9       | 15,6   | ✓          | 33,82 €    |
| G05-A-14/14 | 29 | 14 | 13 | 56  | 89,1        | 55,9       | 51,3       | 46,8       | 43,5       | 37,1       | 34,4   | ✓          | 35,93 €    |
| G1-A-16/16  | 32 | 16 | 15 | 65  | 112,4       | 109,2      | 93,6       | 74,7       | 66,9       | 53,3       | 46,8   | ✓          | 37,13 €    |
| G2-A-18/18  | 37 | 18 | 17 | 72  | 202,8       | 156,0      | 124,8      | 93,6       | 78,0       | 62,4       | -      | ✓          | 43,12 €    |
| G3-A-20/20  | 40 | 20 | 19 | 82  | 312,0       | 218,4      | 156,0      | 124,8      | 109,2      | 78,0       | -      | ✓          | 50,97 €    |
| G4-A-22/22  | 47 | 22 | 22 | 95  | 390,0       | 249,6      | 187,2      | 156,0      | 124,8      | 93,6       | -      | ✓          | 61,17 €    |
| G5-A-25/25  | 50 | 25 | 26 | 108 | 499,2       | 312,0      | 218,4      | 187,2      | 156,0      | 124,8      | -      | ✓          | 72,11 €    |
| G6-A-30/30  | 58 | 30 | 30 | 122 | 561,6       | 343,2      | 249,6      | 202,8      | 171,6      | -          | -      | ✓          | 92,32 €    |
| G61-A-32/32 | 63 | 32 | 30 | 130 | 561,6       | 343,2      | 249,6      | 202,8      | 171,6      | -          | -      | -          | On request |
| G7-A-35/35  | 70 | 35 | 35 | 140 | 592,8       | 390,0      | 296,4      | 226,2      | 187,2      | -          | -      | -          | On request |
| G8-A-40/40  | 80 | 40 | 42 | 160 | 655,2       | 436,8      | 343,2      | 280,8      | -          | -          | -      | -          | On request |
| G9-A-50/50  | 95 | 50 | 54 | 190 | 936,0       | 624,0      | 436,8      | 343,2      | -          | -          | -      | -          | On request |

\*Depending on availability - Dimensions in mm

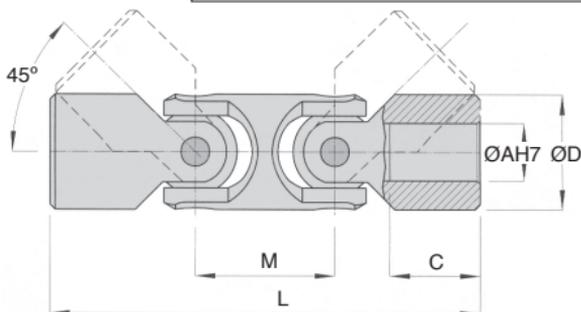
- Standard series in accordance with DIN 808-7551
- Smooth hardened bushes
- Suitable for speeds up to 800 rpm
- Max. misalignment angle 45°
- Materials:
  - Body: C45 steel
  - Pin: Hardened steel 18NCD4



### Accessories

- Optional rubber cover

### Modifiable bore



### Effect of operating angle

The torques below are given for a 10° angle. For other angles, the appropriate factor from this table should be applied.

E.g. For 100Nm to be transmitted at 20°, the corrected value of torque becomes  $100/0.75 = 133$  Nm and a joint should be chosen that can transmit 133Nm at the required speed.

| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### DISCOUNTS

| Qty   | 1+   | 2+  | 4+         |
|-------|------|-----|------------|
| Disc. | List | -6% | On request |

| Part number  | ØD | ØA | C  | M   | L   | Torque (Nm) |            |            |            |            |            |            |        | Price each |            |
|--------------|----|----|----|-----|-----|-------------|------------|------------|------------|------------|------------|------------|--------|------------|------------|
|              |    |    |    |     |     | at 100 rpm  | at 200 rpm | at 300 rpm | at 400 rpm | at 500 rpm | at 700 rpm | at 800 rpm | Stock* |            |            |
| GD01-A-6/6   | 16 | 6  | 9  | 27  | 61  | -           | -          | -          | -          | -          | -          | -          | -      | ✓          | 59,74 €    |
| GD02-A-8/8   | 16 | 8  | 11 | 27  | 67  | -           | -          | -          | -          | -          | -          | -          | -      | ✓          | 59,74 €    |
| GD03-A-10/10 | 20 | 10 | 10 | 30  | 75  | -           | -          | -          | -          | -          | -          | -          | -      | ✓          | 62,71 €    |
| GD04-A-12/12 | 22 | 12 | 11 | 29  | 74  | 32,5        | 22,1       | 18,8       | 16,9       | 15,6       | 14,3       | 9,7        | -      | ✓          | 62,71 €    |
| GD05-A-14/14 | 25 | 14 | 13 | 33  | 85  | 55,9        | 32,5       | 26,6       | 22,1       | 20,1       | 16,9       | 15,6       | -      | ✓          | 70,24 €    |
| GD1-A-16/16  | 29 | 16 | 19 | 35  | 100 | 89,1        | 55,9       | 51,3       | 46,8       | 43,5       | 37,1       | 34,4       | -      | ✓          | 75,01 €    |
| GD2-A-18/18  | 32 | 18 | 20 | 39  | 112 | 112,4       | 109,2      | 93,6       | 74,7       | 66,9       | 53,3       | 46,8       | -      | ✓          | 90,43 €    |
| GD3-A-20/20  | 40 | 20 | 19 | 46  | 128 | 312,0       | 218,4      | 156,0      | 124,8      | 109,2      | 78,0       | -          | -      | ✓          | 99,86 €    |
| GD4-A-22/22  | 40 | 22 | 25 | 48  | 145 | 312,0       | 218,4      | 156,0      | 124,8      | 109,2      | 78,0       | -          | -      | -          | 133,94 €   |
| GD5-A-25/25  | 50 | 25 | 24 | 59  | 163 | 499,2       | 312,0      | 218,4      | 187,2      | 156,0      | 124,8      | -          | -      | ✓          | 163,71 €   |
| GD6-A-30/30  | 58 | 30 | 28 | 66  | 182 | 561,6       | 343,2      | 249,6      | 202,8      | 171,6      | -          | -          | -      | -          | 194,49 €   |
| GD61-A-32/32 | 63 | 32 | 30 | 84  | 198 | 561,6       | 343,2      | 249,6      | 202,8      | 171,6      | -          | -          | -      | -          | On request |
| GD7-A-35/35  | 70 | 35 | 32 | 78  | 212 | 592,8       | 390,0      | 296,4      | 226,2      | 187,2      | -          | -          | -      | -          | On request |
| GD8-A-40/40  | 80 | 40 | 38 | 95  | 245 | 655,2       | 436,8      | 343,2      | 280,8      | -          | -          | -          | -      | -          | On request |
| GD9-A-50/50  | 95 | 50 | 50 | 120 | 290 | 936,0       | 624,0      | 436,8      | 343,2      | -          | -          | -          | -      | -          | On request |

\*Depending on availability - Dimensions in mm

# Single needle roller universal joint

## H Industrial range

- **Standard series**
- **Needle bearings**
- Suitable for speeds up to 4000 rpm
- Max. misalignment angle 45°
- **Materials:**  
Body: C45 steel  
Pin: Hardened steel 18NCD4

### Uses

- High speed applications

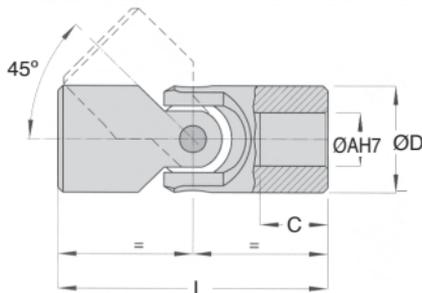
### Accessories

- Optional rubber cover

### Modifiable bore



High speed applications



| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### Effect of operating angle

The torques below are given for a 10° angle. For other angles, the appropriate factor from this table should be applied. E.g. For 100Nm to be transmitted at 20°, the corrected value of torque becomes  $100/0.75 = 133$  Nm and a joint should be chosen that can transmit 133Nm at the required speed.

### DISCOUNTS

| Qty   | 1+   | 2+  | 4+         |
|-------|------|-----|------------|
| Disc. | List | -6% | On request |

| Part number | ØD | ØA | C  | L   | Torque (Nm) |            |                     |             |             |       | Stock* | Price each |
|-------------|----|----|----|-----|-------------|------------|---------------------|-------------|-------------|-------|--------|------------|
|             |    |    |    |     | at 250 rpm  | at 500 rpm | at 1000 at 2000 rpm | at 3000 rpm | at 4000 rpm |       |        |            |
| H02-A-8/8   | 16 | 8  | 15 | 52  | -           | -          | -                   | 6,9         | -           | -     | ✓      | 56,65 €    |
| H03-A-10/10 | 20 | 10 | 18 | 62  | 26,4        | 20,4       | 16,8                | 13,2        | 12,0        | 10,8  | ✓      | 50,97 €    |
| H05-A-14/14 | 25 | 14 | 20 | 74  | 40,8        | 34,8       | 28,8                | 26,4        | 24,0        | 21,6  | ✓      | 50,97 €    |
| H1-A-16/16  | 32 | 16 | 24 | 86  | 78,0        | 66,0       | 54,0                | 48,0        | 44,4        | 38,4  | ✓      | 56,65 €    |
| H2-A-18/18  | 37 | 18 | 17 | 72  | 90,0        | 73,2       | 60,0                | 54,0        | 48,0        | 43,2  | ✓      | 59,60 €    |
| H3-A-20/20  | 40 | 20 | 30 | 108 | 168,0       | 144,0      | 120,0               | 96,0        | 84,0        | 78,0  | ✓      | 67,99 €    |
| H4-A-22/22  | 47 | 22 | 22 | 95  | 194,4       | 158,4      | 129,6               | 105,6       | 92,4        | 85,2  | ✓      | 79,11 €    |
| H5-A-25/25  | 50 | 25 | 38 | 132 | 240,0       | 204,0      | 156,0               | 132,0       | 108,0       | 102,0 | ✓      | 87,82 €    |
| H6-A-30/30  | 63 | 30 | 45 | 166 | 360,0       | 324,0      | 276,0               | 228,0       | 192,0       | 168,0 | -      | 113,09 €   |
| H61-A-32/32 | 63 | 32 | 45 | 166 | 360,0       | 324,0      | 276,0               | 228,0       | 192,0       | 168,0 | -      | On request |
| H7-A-35/35  | 70 | 35 | 35 | 140 | 391,2       | 332,4      | 284,4               | 237,6       | 201,6       | -     | -      | On request |
| H8-A-40/40  | 80 | 40 | 50 | 180 | 438,0       | 363,6      | 306,0               | 246,0       | 223,2       | -     | -      | On request |
| H9-A-50/50  | 95 | 50 | 54 | 190 | 482,4       | 402,0      | 330,0               | 270,0       | 237,6       | -     | -      | On request |

\*Depending on availability - Dimensions in mm



# Double needle roller universal joint

## Industrial range

## HD

- Standard series
- Needle bearings
- Suitable for speeds up to 4000 rpm
- Max. misalignment angle 45°
- Materials:
  - Body: C45 steel
  - Pin: Hardened steel 18NCD4



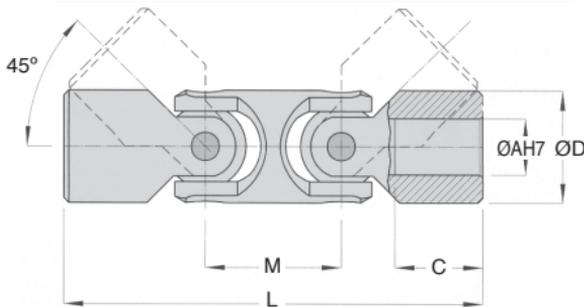
### Uses

- High speed applications

### Accessories

- Optional rubber cover

### Modifiable bore



| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### Effect of operating angle

The torques below are given for a 10° angle. For other angles, the appropriate factor from this table should be applied. E.g. For 100Nm to be transmitted at 20°, the corrected value of torque becomes  $100/0.75 = 133 \text{ Nm}$  and a joint should be chosen that can transmit 133Nm at the required speed.

**High speed applications**

### DISCOUNTS

| Qty   | 1+   | 2+  | 4+         |
|-------|------|-----|------------|
| Disc. | List | -6% | On request |

| Part number  | ØD | ØA | C  | M   | L   | Torque (Nm) |            |             |             | Price each |             |             |            |
|--------------|----|----|----|-----|-----|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|
|              |    |    |    |     |     | at 250 rpm  | at 500 rpm | at 1000 rpm | at 2000 rpm |            | at 3000 rpm | at 4000 rpm |            |
| HD03-A-10/10 | 20 | 10 | 18 | 26  | 88  | 26,4        | 20,4       | 16,8        | 13,2        | 12,0       | 10,8        | ✓           | 153,07 €   |
| HD05-A-14/14 | 25 | 14 | 19 | 33  | 104 | 40,8        | 34,8       | 28,8        | 26,4        | 24,0       | 21,6        | ✓           | 120,05 €   |
| HD1-A-16/16  | 32 | 16 | 24 | 39  | 125 | 78,0        | 66,0       | 54,0        | 48,0        | 44,4       | 38,4        | ✓           | 120,05 €   |
| HD3-A-20/20  | 40 | 20 | 30 | 48  | 156 | 168,0       | 144,0      | 120,0       | 96,0        | 84,0       | 78,0        | ✓           | 162,02 €   |
| HD5-A-25/25  | 50 | 25 | 37 | 59  | 188 | 240,0       | 204,0      | 156,0       | 132,0       | 108,0      | 102,0       | ✓           | 192,91 €   |
| HD6-A-30/30  | 63 | 30 | 41 | 80  | 238 | 360,0       | 324,0      | 276,0       | 228,0       | 192,0      | 168,0       | ✓           | 217,91 €   |
| HD61-A-32/32 | 63 | 32 | 41 | 80  | 238 | 360,0       | 324,0      | 276,0       | 228,0       | 192,0      | 168,0       | -           | On request |
| HD7-A-35/35  | 70 | 35 | 30 | 78  | 212 | 391,2       | 332,4      | 284,4       | 237,6       | 201,6      | -           | -           | On request |
| HD8-A-40/40  | 80 | 40 | 48 | 120 | 290 | 438,0       | 363,6      | 306,0       | 246,0       | 223,2      | -           | -           | On request |
| HD9-A-50/50  | 95 | 50 | 50 | 120 | 290 | 482,4       | 402,0      | 330,0       | 270,0       | 237,6      | -           | -           | On request |

\*Depending on availability - Dimensions in mm

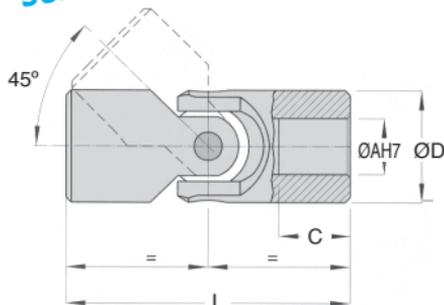
## JCSss

## Low duty

- Stainless steel range
- No bush
- Suitable for speeds up to 800 rpm
- Max. angle of misalignment 45°
- Material:  
Stainless steel X5CrNi1810



stainless steel



### Uses

- Food and pharmaceutical industries

### Accessories

- Optional rubber cover  
M (tome 2 p.96)

### Modifiable bore



| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### Effect of operating angle

The torques below are given for a 10° angle. For other angles, the appropriate factor from this table should be applied. E.g. For 10Nm to be transmitted at 20°, the corrected value of torque becomes  $10/0.75 = 13.3$  Nm and a joint should be chosen that can transmit 13.3Nm at the required speed.

### DISCOUNTS

| Qty   | 1+   | 2+  | 4+   | 10+        |
|-------|------|-----|------|------------|
| Disc. | List | -6% | -12% | On request |

| Part number | ØD | ØA | C  | L   | Torque (Nm) |            |            |            |            |            |            |   | Stock*   | Price each |
|-------------|----|----|----|-----|-------------|------------|------------|------------|------------|------------|------------|---|----------|------------|
|             |    |    |    |     | at 100 rpm  | at 200 rpm | at 300 rpm | at 400 rpm | at 500 rpm | at 700 rpm | at 800 rpm |   |          |            |
| JCS00/SS    | 10 | 5  | 15 | 44  | 5,4         | 4,9        | 4,2        | 3,7        | 3,4        | -          | -          | ✓ | 47,46 €  |            |
| JCS01/SS    | 13 | 6  | 18 | 50  | 6,6         | 6,6        | 5,2        | 4,8        | 4,3        | -          | -          | ✓ | 43,48 €  |            |
| JCS02/SS    | 16 | 8  | 19 | 58  | 12,9        | 9,0        | 7,9        | 6,9        | 6,0        | 5,1        | 4,6        | ✓ | 43,48 €  |            |
| JCS03/SS    | 22 | 10 | 25 | 76  | 18,4        | 12,4       | 10,5       | 9,6        | 8,7        | 7,8        | 5,2        | ✓ | 43,48 €  |            |
| JCS04/SS    | 25 | 12 | 29 | 86  | 31,5        | 18,9       | 15,0       | 12,0       | 10,9       | 9,4        | 8,7        | ✓ | 49,42 €  |            |
| JCS05/SS    | 29 | 14 | 30 | 90  | 49,5        | 31,9       | 28,9       | 26,4       | 24,4       | 19,9       | 18,9       | ✓ | 51,41 €  |            |
| JCS06/SS    | 32 | 16 | 30 | 95  | 67,5        | 63,0       | 52,9       | 42,0       | 37,9       | 30,0       | 25,9       | ✓ | 53,37 €  |            |
| JCS07/SS    | 37 | 18 | 35 | 108 | 114,0       | 90,0       | 69,9       | 52,9       | 43,9       | 34,9       | -          | - | 63,28 €  |            |
| JCS08/SS    | 40 | 20 | 32 | 108 | 175,5       | 126,0      | 87,9       | 69,9       | 61,9       | 43,9       | -          | ✓ | 69,22 €  |            |
| JCS09/SS    | 47 | 22 | 38 | 127 | 219,0       | 144,0      | 105,0      | 87,9       | 69,9       | 52,9       | -          | - | 87,07 €  |            |
| JCS10/SS    | 50 | 25 | 44 | 140 | 288,0       | 180,0      | 126,0      | 108,0      | 90,0       | 72,0       | -          | ✓ | 102,96 € |            |
| JCS11/SS    | 58 | 30 | 58 | 178 | 324,0       | 198,0      | 144,0      | 117,0      | 99,0       | -          | -          | ✓ | 134,64 € |            |

\*Depending on availability - Dimensions in mm

- **Stainless steel range**
- No bush
- Suitable for speeds up to 800 rpm
- Max. angle of misalignment 90°
- Material:  
Stainless steel X5CrNi1810



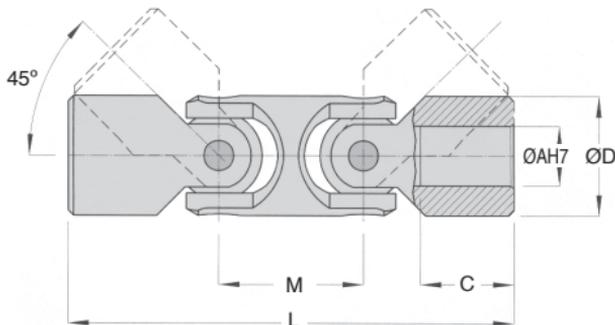
### Uses

- Food and pharmaceutical industries

### Accessories

- Optional rubber cover **M (tome 2 p.96)**

### Modifiable bore



| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### Effect of operating angle

The torques below are given for a 10° angle. For other angles, the appropriate factor from this table should be applied. E.g. For 10Nm to be transmitted at 20°, the corrected value of torque becomes  $10/0.75 = 13.3$  Nm and a joint should be chosen that can transmit 13.3Nm at the required speed.

### DISCOUNTS

| Qty   | 1+   | 2+  | 4+         |
|-------|------|-----|------------|
| Disc. | List | -6% | On request |

| Part number | ØD | ØA | C  | M  | L   | Torque (Nm) |            |            |            |            |            |            |   | Stock*   | Price each |
|-------------|----|----|----|----|-----|-------------|------------|------------|------------|------------|------------|------------|---|----------|------------|
|             |    |    |    |    |     | at 100 rpm  | at 200 rpm | at 300 rpm | at 400 rpm | at 500 rpm | at 700 rpm | at 800 rpm |   |          |            |
| JCD04/SS    | 22 | 12 | 25 | 29 | 105 | 18,4        | 12,4       | 10,5       | 9,6        | 8,7        | 7,8        | 5,2        | ✓ | 84,66 €  |            |
| JCD05/SS    | 25 | 14 | 29 | 33 | 119 | 31,5        | 18,9       | 15,0       | 12,0       | 10,9       | 9,4        | 8,7        | ✓ | 87,93 €  |            |
| JCD06/SS    | 29 | 16 | 30 | 35 | 125 | 49,5        | 31,9       | 28,9       | 26,4       | 24,4       | 19,9       | 18,9       | ✓ | 91,50 €  |            |
| JCD07/SS    | 32 | 18 | 30 | 39 | 134 | 67,5        | 63,0       | 52,9       | 42,0       | 37,9       | 30,0       | 25,9       | - | 108,43 € |            |
| JCD08/SS    | 40 | 20 | 32 | 46 | 154 | 175,5       | 126,0      | 87,9       | 69,9       | 61,9       | 43,9       | -          | ✓ | 118,54 € |            |
| JCD09/SS    | 40 | 22 | 38 | 46 | 173 | 175,5       | 126,0      | 87,9       | 69,9       | 61,9       | 43,9       | -          | - | 148,98 € |            |
| JCD10/SS    | 50 | 25 | 44 | 59 | 199 | 288,0       | 180,0      | 126,0      | 108,0      | 90,0       | 72,0       | -          | - | 176,23 € |            |
| JCD11/SS    | 58 | 30 | 58 | 66 | 244 | 324,0       | 198,0      | 144,0      | 117,0      | 99,0       | -          | -          | - | 231,10 € |            |

\*Depending on availability - Dimensions in mm

# Single needle universal joint **stainless steel**



## Hss

## Heavy duty **DIN808-7551**

### - Standard series stainless steel version

- Needle bearings
- Max. misalignment angle 45°
- Material:  
Stainless steel X5CrNi1810,  
Stainless steel bearing X20Cr13
- Maximum speed 3600 rpm

### Applications

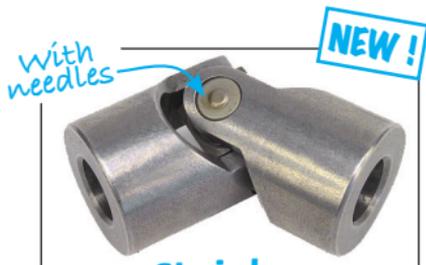
- For high rotational speeds
- For applications requiring low backlash
- Pharmaceutical and food industries

### Option

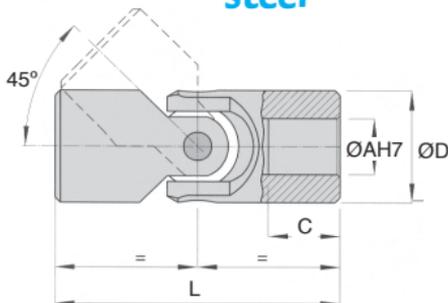
- Bore modification, keyway

### Accessory

- Don't forget the cover trim M (tome 222 p.96)



**Stainless steel**



### Modifiable bore



### Angle Factor

|     |      |
|-----|------|
| 5°  | 1,25 |
| 10° | 1,00 |
| 20° | 0,75 |
| 30° | 0,45 |
| 40° | 0,30 |

### Effect of the working angle

The torques shown are for an angle of 10°.

They should therefore be weighted with the factors opposite as a function of the working angle.

e.g: 100Nm to be transmitted at 20°  
calculation:  $100/0,75=133,33$

### DISCOUNTS

|             |      |    |            |
|-------------|------|----|------------|
| Qty         | 1+   | 2+ | 4+         |
| Disc. Price | -15% |    | On request |

| Part number    | ØD | ØA | C  | L   | Torques (Nm) |            |             |             |             |             | Price each |
|----------------|----|----|----|-----|--------------|------------|-------------|-------------|-------------|-------------|------------|
|                |    |    |    |     | at 250 rpm   | at 500 rpm | at 1000 rpm | at 2000 rpm | at 3000 rpm | at 4000 rpm |            |
| H03-A-10/10/SS | 20 | 10 | 18 | 62  | 21,12        | 16,32      | 13,44       | 10,56       | 9,60        | 8,64        | 102,72 €   |
| H05-A-14/14/SS | 25 | 14 | 20 | 74  | 32,64        | 27,84      | 23,04       | 21,12       | 19,20       | 17,28       | 102,72 €   |
| H1-A-16/16/SS  | 32 | 16 | 24 | 86  | 62,40        | 52,80      | 43,20       | 38,40       | 35,52       | 30,72       | 113,71 €   |
| H3-A-20/20/SS  | 40 | 20 | 30 | 108 | 134,40       | 115,20     | 96,00       | 76,80       | 67,20       | 62,40       | 137,23 €   |
| H5-A-25/25/SS  | 50 | 25 | 38 | 132 | 192,00       | 163,20     | 124,80      | 105,60      | 86,40       | 81,60       | 176,10 €   |
| H6-A-30/30/SS  | 63 | 30 | 45 | 166 | 288,00       | 259,20     | 220,80      | 182,40      | 153,60      | 134,40      | 227,44 €   |

Dimensions in mm



# Double needle universal joint stainless steel

## Heavy duty DIN808-7551

## HDss

- Série standard version inox
- Needle bearings
- Max. misalignment angle 45°
- Material:  
Stainless steel X5CrNi1810,  
Stainless steel bearing X20Cr13
- Maximum speed 3600 rpm

### Applications

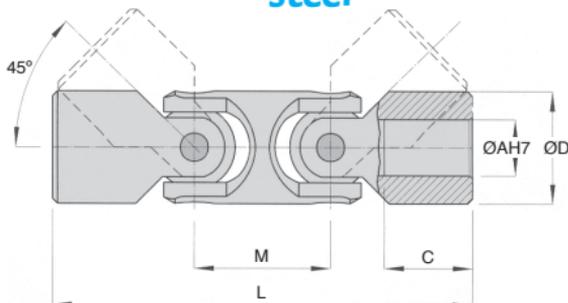
- For high rotational speeds
- For applications requiring low backlash
- Pharmaceutical and food industries

### Options

- Bore modification, keyway

### Accessory

- Don't forget the cover trim M (tome 22 p.96)



### Modifiable bore



### Angle Factor

| Angle | Factor |
|-------|--------|
| 5°    | 1,25   |
| 10°   | 1,00   |
| 20°   | 0,75   |
| 30°   | 0,45   |
| 40°   | 0,30   |

### Effect of the working angle

The torques shown are for an angle of 10°.

They should therefore be weighted with the factors opposite as a function of the working angle.

e.g: 100Nm to be transmitted at 20°  
calculation:  $100/0,75=133,33$

### DISCOUNTS

| Qty Disc. | 1+   | 2+   | 4+         |
|-----------|------|------|------------|
| Price     | -15% | -15% | On request |

| Part number     | ØD | ØA | C  | M  | L   | Torques (Nm) |            |             |             |             |             | Price each |
|-----------------|----|----|----|----|-----|--------------|------------|-------------|-------------|-------------|-------------|------------|
|                 |    |    |    |    |     | at 250 rpm   | at 500 rpm | at 1000 rpm | at 2000 rpm | at 3000 rpm | at 4000 rpm |            |
| HD03-A-10/10/SS | 20 | 10 | 18 | 26 | 88  | 21,12        | 16,32      | 13,44       | 10,56       | 9,60        | 8,64        | 205,47 €   |
| HD05-A-14/14/SS | 25 | 14 | 19 | 33 | 104 | 32,64        | 27,84      | 23,04       | 21,12       | 19,20       | 17,28       | 205,47 €   |
| HD1-A-16/16/SS  | 32 | 16 | 24 | 39 | 125 | 62,40        | 52,80      | 43,20       | 38,40       | 35,52       | 30,72       | 227,44 €   |
| HD3-A-20/20/SS  | 40 | 20 | 30 | 48 | 156 | 134,40       | 115,20     | 96,00       | 76,80       | 67,20       | 62,40       | 274,47 €   |
| HD5-A-25/25/SS  | 50 | 25 | 37 | 59 | 188 | 192,00       | 163,20     | 124,80      | 105,60      | 86,40       | 81,60       | 352,20 €   |
| HD6-A-30/30/SS  | 63 | 30 | 41 | 80 | 238 | 288,00       | 259,20     | 220,80      | 182,40      | 153,60      | 134,40      | 454,88 €   |

Dimensions in mm

## CT

## Industrial range

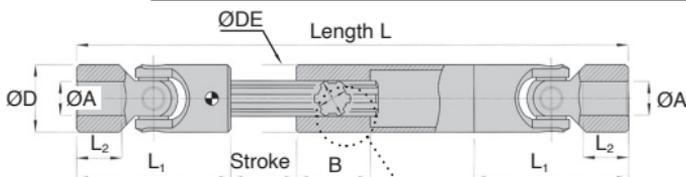
- **Standard series**
- Smooth hardened bushes
- Suitable for speeds up to 800 rpm
- Max. angle of misalignment 45°
- Materials:

Body: C45 steel  
Pin: Hardened steel 18NCD4

- For transmissible torques, **GD** (tome 2 p.85)

### Accessories

- Optional rubber cover M (tome 2 p.96)



### Modifiable bore



### DISCOUNTS

| Qty   | 1+   | 2+  | 4+         |
|-------|------|-----|------------|
| Disc. | List | -6% | On request |

| Part number  | L       |     | ØA (H7) | ØD | L1 | L2 | B   | Stroke | E  | F  | ØDE | Stock*   | Price each |
|--------------|---------|-----|---------|----|----|----|-----|--------|----|----|-----|----------|------------|
|              | min/    | max |         |    |    |    |     |        |    |    |     |          |            |
| CT10-130/150 | 130/150 | 10  | 22      | 45 | 10 | 40 | 20  | 11     | 14 | 22 | ✓   | 172,57 € |            |
| CT10-140/170 | 140/170 | 10  | 22      | 45 | 10 | 40 | 30  | 11     | 14 | 22 | ✓   | 172,57 € |            |
| CT10-160/200 | 160/200 | 10  | 22      | 45 | 10 | 40 | 40  | 11     | 14 | 22 | ✓   | 172,57 € |            |
| CT10-170/230 | 170/230 | 10  | 22      | 45 | 10 | 40 | 60  | 11     | 14 | 22 | ✓   | 172,57 € |            |
| CT10-180/240 | 180/240 | 10  | 22      | 45 | 10 | 40 | 60  | 11     | 14 | 22 | -   | 172,57 € |            |
| CT10-230/330 | 230/330 | 10  | 22      | 45 | 10 | 40 | 100 | 11     | 14 | 22 | ✓   | 172,57 € |            |
| CT12-140/170 | 140/170 | 12  | 25      | 50 | 11 | 45 | 30  | 13     | 16 | 26 | ✓   | 182,33 € |            |
| CT12-160/200 | 160/200 | 12  | 25      | 50 | 11 | 45 | 40  | 13     | 16 | 26 | -   | 182,33 € |            |
| CT12-180/225 | 180/225 | 12  | 25      | 50 | 11 | 45 | 45  | 13     | 16 | 26 | -   | 182,33 € |            |
| CT12-200/270 | 200/270 | 12  | 25      | 50 | 11 | 45 | 70  | 13     | 16 | 26 | ✓   | 182,33 € |            |
| CT12-220/300 | 220/300 | 12  | 25      | 50 | 11 | 45 | 80  | 13     | 16 | 26 | -   | 182,33 € |            |
| CT12-250/355 | 250/355 | 12  | 25      | 50 | 11 | 45 | 105 | 13     | 16 | 26 | ✓   | 182,33 € |            |
| CT12-280/420 | 280/420 | 12  | 25      | 50 | 11 | 45 | 140 | 13     | 16 | 26 | ✓   | 182,33 € |            |
| CT12-300/450 | 300/450 | 12  | 25      | 50 | 11 | 45 | 150 | 13     | 16 | 26 | ✓   | 182,33 € |            |
| CT14-160/190 | 160/190 | 14  | 29      | 56 | 13 | 45 | 30  | 13     | 16 | 29 | -   | 188,17 € |            |
| CT14-170/200 | 170/200 | 14  | 29      | 56 | 13 | 45 | 30  | 13     | 16 | 29 | ✓   | 188,17 € |            |
| CT14-180/220 | 180/220 | 14  | 29      | 56 | 13 | 45 | 40  | 13     | 16 | 29 | ✓   | 188,17 € |            |
| CT14-210/280 | 210/280 | 14  | 29      | 56 | 13 | 45 | 70  | 13     | 16 | 29 | -   | 188,17 € |            |
| CT14-220/300 | 220/300 | 14  | 29      | 56 | 13 | 45 | 80  | 13     | 16 | 29 | -   | 188,17 € |            |
| CT14-250/350 | 250/350 | 14  | 29      | 56 | 13 | 45 | 100 | 13     | 16 | 29 | ✓   | 188,17 € |            |
| CT14-280/420 | 280/420 | 14  | 29      | 56 | 13 | 45 | 140 | 13     | 16 | 29 | -   | 188,17 € |            |
| CT14-300/450 | 300/450 | 14  | 29      | 56 | 13 | 45 | 150 | 13     | 16 | 29 | -   | 188,17 € |            |
| CT14-350/550 | 350/550 | 14  | 29      | 56 | 13 | 45 | 200 | 13     | 16 | 29 | -   | 193,55 € |            |
| CT14-400/650 | 400/650 | 14  | 29      | 56 | 13 | 45 | 250 | 13     | 16 | 29 | ✓   | 193,55 € |            |

\*Depending on availability - Dimensions in mm

| Part number  | L<br>min/<br>max | ØA<br>(H7) | ØD | L1  | L2 | B  | Stroke | E  | F  | ØDE | Stock* | Price<br>each |
|--------------|------------------|------------|----|-----|----|----|--------|----|----|-----|--------|---------------|
| CT16-180/210 | 180/210          | 16         | 32 | 65  | 15 | 45 | 30     | 16 | 20 | 32  | -      | 193,86 €      |
| CT16-190/220 | 190/220          | 16         | 32 | 65  | 15 | 45 | 30     | 16 | 20 | 32  | -      | 193,86 €      |
| CT16-210/250 | 210/250          | 16         | 32 | 65  | 15 | 45 | 40     | 16 | 20 | 32  | -      | 193,86 €      |
| CT16-240/320 | 240/320          | 16         | 32 | 65  | 15 | 45 | 80     | 16 | 20 | 32  | ✓      | 193,86 €      |
| CT16-250/350 | 250/350          | 16         | 32 | 65  | 15 | 45 | 100    | 16 | 20 | 32  | ✓      | 193,86 €      |
| CT16-275/390 | 275/390          | 16         | 32 | 65  | 15 | 45 | 115    | 16 | 20 | 32  | -      | 193,86 €      |
| CT16-300/430 | 300/430          | 16         | 32 | 65  | 15 | 45 | 130    | 16 | 20 | 32  | -      | 193,86 €      |
| CT16-380/590 | 380/590          | 16         | 32 | 65  | 15 | 45 | 210    | 16 | 20 | 32  | -      | 199,27 €      |
| CT16-400/630 | 400/630          | 16         | 32 | 65  | 15 | 45 | 230    | 16 | 20 | 32  | ✓      | 204,67 €      |
| CT18-195/225 | 195/225          | 18         | 37 | 72  | 17 | 45 | 30     | 16 | 20 | 37  | -      | 217,80 €      |
| CT18-230/280 | 230/280          | 18         | 37 | 72  | 17 | 45 | 50     | 16 | 20 | 37  | -      | 217,80 €      |
| CT18-250/320 | 250/320          | 18         | 37 | 72  | 17 | 45 | 70     | 16 | 20 | 37  | -      | 217,80 €      |
| CT18-270/370 | 270/370          | 18         | 37 | 72  | 17 | 45 | 100    | 16 | 20 | 37  | -      | 217,80 €      |
| CT18-290/400 | 290/400          | 18         | 37 | 72  | 17 | 45 | 110    | 16 | 20 | 37  | -      | 217,80 €      |
| CT18-300/415 | 300/415          | 18         | 37 | 72  | 17 | 45 | 115    | 16 | 20 | 37  | -      | 217,80 €      |
| CT18-400/620 | 400/620          | 18         | 37 | 72  | 17 | 45 | 220    | 16 | 20 | 37  | -      | 228,60 €      |
| CT18-500/820 | 500/820          | 18         | 37 | 72  | 17 | 45 | 320    | 16 | 20 | 37  | -      | 239,41 €      |
| CT20-220/250 | 220/250          | 20         | 40 | 82  | 19 | 45 | 30     | 18 | 22 | 40  | ✓      | 222,55 €      |
| CT20-250/300 | 250/300          | 20         | 40 | 82  | 19 | 45 | 50     | 18 | 22 | 40  | ✓      | 228,30 €      |
| CT20-270/340 | 270/340          | 20         | 40 | 82  | 19 | 45 | 70     | 18 | 22 | 40  | -      | 222,55 €      |
| CT20-290/380 | 290/380          | 20         | 40 | 82  | 19 | 45 | 90     | 18 | 22 | 40  | ✓      | 222,55 €      |
| CT20-320/440 | 320/440          | 20         | 40 | 82  | 19 | 45 | 120    | 18 | 22 | 40  | -      | 222,55 €      |
| CT20-380/560 | 380/560          | 20         | 40 | 82  | 19 | 45 | 180    | 18 | 22 | 40  | ✓      | 227,97 €      |
| CT20-420/640 | 420/640          | 20         | 40 | 82  | 19 | 45 | 220    | 18 | 22 | 40  | -      | 233,38 €      |
| CT20-500/800 | 500/800          | 20         | 40 | 82  | 19 | 45 | 300    | 18 | 22 | 40  | ✓      | 238,79 €      |
| CT22-250/280 | 250/280          | 22         | 47 | 95  | 22 | 48 | 30     | 21 | 25 | 47  | -      | 282,50 €      |
| CT22-270/320 | 270/320          | 22         | 47 | 95  | 22 | 48 | 50     | 21 | 25 | 47  | -      | 282,50 €      |
| CT22-290/350 | 290/350          | 22         | 47 | 95  | 22 | 48 | 60     | 21 | 25 | 47  | -      | 282,50 €      |
| CT22-330/430 | 330/430          | 22         | 47 | 95  | 22 | 48 | 100    | 21 | 25 | 47  | -      | 282,50 €      |
| CT22-350/470 | 350/470          | 22         | 47 | 95  | 22 | 48 | 120    | 21 | 25 | 47  | -      | 282,50 €      |
| CT22-470/710 | 470/710          | 22         | 47 | 95  | 22 | 48 | 240    | 21 | 25 | 47  | -      | 298,69 €      |
| CT25-270/320 | 270/320          | 25         | 50 | 108 | 26 | 48 | 50     | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-295/350 | 295/350          | 25         | 50 | 108 | 26 | 48 | 55     | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-310/375 | 310/375          | 25         | 50 | 108 | 26 | 48 | 65     | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-350/450 | 350/450          | 25         | 50 | 108 | 26 | 48 | 100    | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-380/500 | 380/500          | 25         | 50 | 108 | 26 | 48 | 120    | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-420/590 | 420/590          | 25         | 50 | 108 | 26 | 48 | 170    | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-460/660 | 460/660          | 25         | 50 | 108 | 26 | 48 | 200    | 23 | 28 | 47  | -      | 319,14 €      |
| CT25-500/745 | 500/745          | 25         | 50 | 108 | 26 | 48 | 245    | 23 | 28 | 47  | ✓      | 319,14 €      |
| CT30-320/390 | 320/390          | 30         | 58 | 122 | 30 | 50 | 70     | 26 | 32 | 60  | -      | On request    |
| CT30-350/420 | 350/420          | 30         | 58 | 122 | 30 | 50 | 70     | 26 | 32 | 60  | -      | On request    |
| CT30-370/455 | 370/455          | 30         | 58 | 122 | 30 | 50 | 85     | 26 | 32 | 60  | -      | On request    |
| CT30-400/510 | 400/510          | 30         | 58 | 122 | 30 | 50 | 110    | 26 | 32 | 60  | -      | On request    |
| CT30-450/620 | 450/620          | 30         | 58 | 122 | 30 | 50 | 170    | 26 | 32 | 60  | -      | On request    |
| CT30-500/720 | 500/720          | 30         | 58 | 122 | 30 | 50 | 220    | 26 | 32 | 60  | -      | On request    |
| CT30-540/795 | 540/795          | 30         | 58 | 122 | 30 | 50 | 255    | 26 | 32 | 60  | -      | On request    |

\*Depending on availability - Dimensions in mm

# Telescopic universal joint **stainless steel**



## CTss

## Low duty

### - Standard series stainless steel version

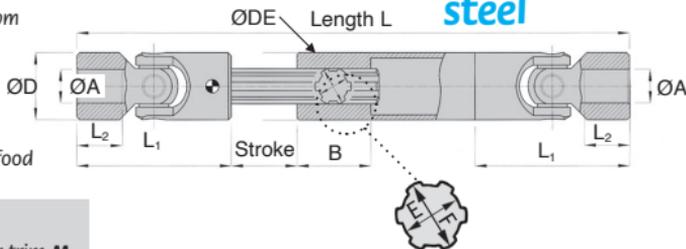
- Plain bearings
- Max. misalignment angle 45°
- Material:

Stainless steel 304

- Maximum speed 800 rpm
- Transmissible torque, see universal joint JCD (tome 2 p.89)



**Stainless steel**



### Applications

- Pharmaceutical and food industries

### Accessory

- Don't forget the cover trim M (tome 2 p.96)

### Modifiable bore



### DISCOUNTS

|             |      |            |    |
|-------------|------|------------|----|
| Qty         | 1+   | 2+         | 4+ |
| Disc. Price | -15% | On request |    |

| Part number     | L<br>min/<br>max | ØA | ØD | L1 | L2 | B  | Stroke | E  | F  | ØDt  | Price<br>each |
|-----------------|------------------|----|----|----|----|----|--------|----|----|------|---------------|
| CT10-210/230/SS | 210/230          | 10 | 22 | 76 | 25 | 30 | 20     | 11 | 14 | 21,2 | 380,97 €      |
| CT10-220/250/SS | 220/250          | 10 | 22 | 76 | 25 | 30 | 30     | 11 | 14 | 21,2 | 380,97 €      |
| CT10-240/290/SS | 240/290          | 10 | 22 | 76 | 25 | 30 | 50     | 11 | 14 | 21,2 | 380,97 €      |
| CT10-260/300/SS | 260/300          | 10 | 22 | 76 | 25 | 30 | 40     | 11 | 14 | 21,2 | 380,97 €      |
| CT10-280/370/SS | 280/370          | 10 | 22 | 76 | 25 | 30 | 90     | 11 | 14 | 21,2 | 380,97 €      |
| CT12-220/230/SS | 220/230          | 12 | 25 | 86 | 29 | 35 | 10     | 13 | 16 | 26,5 | 396,22 €      |
| CT12-230/250/SS | 230/250          | 12 | 25 | 86 | 29 | 35 | 20     | 13 | 16 | 26,5 | 396,21 €      |
| CT12-250/290/SS | 250/290          | 12 | 25 | 86 | 29 | 35 | 40     | 13 | 16 | 26,5 | 396,22 €      |
| CT12-290/370/SS | 290/370          | 12 | 25 | 86 | 29 | 35 | 80     | 13 | 16 | 26,5 | 396,21 €      |
| CT12-330/450/SS | 330/450          | 12 | 25 | 86 | 29 | 35 | 120    | 13 | 16 | 26,5 | 396,22 €      |
| CT14-240/260/SS | 240/260          | 14 | 29 | 90 | 30 | 35 | 20     | 13 | 16 | 26,5 | 412,18 €      |
| CT14-260/300/SS | 260/300          | 14 | 29 | 90 | 30 | 35 | 40     | 13 | 16 | 26,5 | 412,18 €      |
| CT14-280/340/SS | 280/340          | 14 | 29 | 90 | 30 | 35 | 60     | 13 | 16 | 26,5 | 412,18 €      |
| CT14-320/420/SS | 320/420          | 14 | 29 | 90 | 30 | 35 | 100    | 13 | 16 | 26,5 | 412,18 €      |
| CT14-380/500/SS | 380/500          | 14 | 29 | 90 | 30 | 35 | 120    | 13 | 16 | 26,5 | 412,18 €      |
| CT14-440/600/SS | 440/600          | 14 | 29 | 90 | 30 | 35 | 160    | 13 | 16 | 26,5 | 412,18 €      |

Dimensions in mm

## DISCOUNTS

|       |            |            |    |
|-------|------------|------------|----|
| Qty   | 1+         | 2+         | 4+ |
| Disc. | Price -15% | On request |    |

| Part number     | L<br>min/<br>max | ØA | ØD | L1  | L2 | B  | Stroke | E  | F  | ØDt  | Price<br>each |
|-----------------|------------------|----|----|-----|----|----|--------|----|----|------|---------------|
| CT16-250/270/SS | 250/270          | 16 | 32 | 95  | 30 | 40 | 20     | 16 | 20 | 32,5 | 420,02 €      |
| CT16-260/290/SS | 260/290          | 16 | 32 | 95  | 30 | 40 | 30     | 16 | 20 | 32,5 | 420,00 €      |
| CT16-290/350/SS | 290/350          | 16 | 32 | 95  | 30 | 40 | 60     | 16 | 20 | 32,5 | 420,00 €      |
| CT16-330/430/SS | 330/430          | 16 | 32 | 95  | 30 | 40 | 100    | 16 | 20 | 32,5 | 420,00 €      |
| CT16-400/570/SS | 400/570          | 16 | 32 | 95  | 30 | 40 | 170    | 16 | 20 | 32,5 | 420,00 €      |
| CT16-500/720/SS | 500/720          | 16 | 32 | 95  | 30 | 40 | 220    | 16 | 20 | 32,5 | 420,00 €      |
| CT18-270/280/SS | 270/280          | 18 | 37 | 108 | 35 | 40 | 10     | 16 | 20 | 32,5 | 475,44 €      |
| CT18-280/300/SS | 280/300          | 18 | 37 | 108 | 35 | 40 | 20     | 16 | 20 | 32,5 | 475,44 €      |
| CT18-300/340/SS | 300/340          | 18 | 37 | 108 | 35 | 40 | 40     | 16 | 20 | 32,5 | 475,44 €      |
| CT18-330/400/SS | 330/400          | 18 | 37 | 108 | 35 | 40 | 70     | 16 | 20 | 32,5 | 475,44 €      |
| CT18-380/500/SS | 380/500          | 18 | 37 | 108 | 35 | 40 | 120    | 16 | 20 | 32,5 | 475,44 €      |
| CT18-450/620/SS | 450/620          | 18 | 37 | 108 | 35 | 40 | 170    | 16 | 20 | 32,5 | 475,44 €      |
| CT20-280/290/SS | 280/290          | 20 | 40 | 108 | 32 | 48 | 10     | 18 | 22 | 41,5 | 483,42 €      |
| CT20-290/310/SS | 290/310          | 20 | 40 | 108 | 32 | 48 | 20     | 18 | 22 | 41,5 | 483,42 €      |
| CT20-310/350/SS | 310/350          | 20 | 40 | 108 | 32 | 48 | 40     | 18 | 22 | 41,5 | 483,42 €      |
| CT20-350/430/SS | 350/430          | 20 | 40 | 108 | 32 | 48 | 80     | 18 | 22 | 41,5 | 483,44 €      |
| CT20-400/530/SS | 400/530          | 20 | 40 | 108 | 32 | 48 | 130    | 18 | 22 | 41,5 | 483,42 €      |
| CT20-500/730/SS | 500/730          | 20 | 40 | 108 | 32 | 48 | 230    | 18 | 22 | 41,5 | 483,42 €      |
| CT20-550/830/SS | 550/830          | 20 | 40 | 108 | 32 | 48 | 280    | 18 | 22 | 41,5 | 483,42 €      |
| CT22-320/330/SS | 320/330          | 22 | 47 | 127 | 38 | 48 | 10     | 21 | 25 | 47,5 | 609,56 €      |
| CT22-330/350/SS | 330/350          | 22 | 47 | 127 | 38 | 48 | 20     | 21 | 25 | 47,5 | 609,56 €      |
| CT22-350/390/SS | 350/390          | 22 | 47 | 127 | 38 | 48 | 40     | 21 | 25 | 47,5 | 609,56 €      |
| CT22-390/470/SS | 390/470          | 22 | 47 | 127 | 38 | 48 | 80     | 21 | 25 | 47,5 | 609,56 €      |
| CT22-460/600/SS | 460/600          | 22 | 47 | 127 | 38 | 48 | 140    | 21 | 25 | 47,5 | 609,56 €      |
| CT22-560/800/SS | 560/800          | 22 | 47 | 127 | 38 | 48 | 240    | 21 | 25 | 47,5 | 609,56 €      |
| CT25-340/350/SS | 340/350          | 25 | 50 | 140 | 44 | 48 | 10     | 23 | 28 | 47,5 | 692,97 €      |
| CT25-350/370/SS | 350/370          | 25 | 50 | 140 | 44 | 48 | 20     | 23 | 28 | 47,5 | 692,97 €      |
| CT25-370/400/SS | 370/400          | 25 | 50 | 140 | 44 | 48 | 30     | 23 | 28 | 47,5 | 692,97 €      |
| CT25-400/460/SS | 400/460          | 25 | 50 | 140 | 44 | 48 | 60     | 23 | 28 | 47,5 | 692,97 €      |
| CT25-450/550/SS | 450/550          | 25 | 50 | 140 | 44 | 48 | 100    | 23 | 28 | 47,5 | 692,97 €      |
| CT25-500/650/SS | 500/650          | 25 | 50 | 140 | 44 | 48 | 150    | 23 | 28 | 47,5 | 692,97 €      |
| CT25-600/850/SS | 600/850          | 25 | 50 | 140 | 44 | 48 | 250    | 23 | 28 | 47,5 | 692,97 €      |
| CT30-420/430/SS | 420/430          | 30 | 58 | 178 | 58 | 48 | 10     | 26 | 32 | 60   | 943,37 €      |
| CT30-430/450/SS | 430/450          | 30 | 58 | 178 | 58 | 48 | 20     | 26 | 32 | 60   | 943,37 €      |
| CT30-450/490/SS | 450/490          | 30 | 58 | 178 | 58 | 48 | 40     | 26 | 32 | 60   | 943,37 €      |
| CT30-490/570/SS | 490/570          | 30 | 58 | 178 | 58 | 48 | 80     | 26 | 32 | 60   | 943,37 €      |
| CT30-550/690/SS | 550/690          | 30 | 58 | 178 | 58 | 48 | 140    | 26 | 32 | 60   | 943,37 €      |
| CT30-650/890/SS | 650/890          | 30 | 58 | 178 | 58 | 48 | 240    | 26 | 32 | 60   | 943,37 €      |

Dimensions in mm

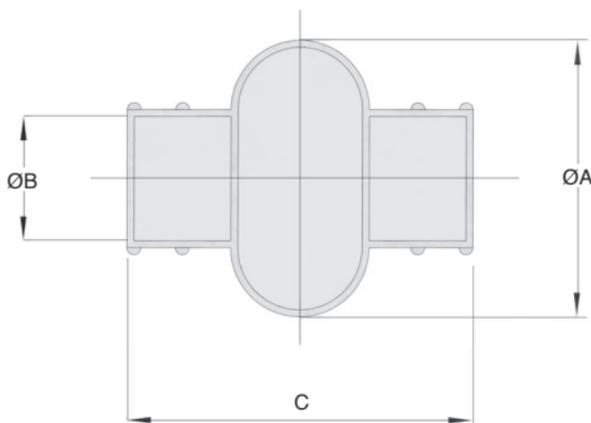
- Bellows for single joints
- For double joints, use two covers

### Advantages

- The use of a cover can extend the operating life of a universal joint 5 times

### Accessories

- See universal joint coupling Buyers guide (tome 2 p.80)



### DISCOUNTS

| Qty   | 1+   | 2+  | 4+   | 10+        |
|-------|------|-----|------|------------|
| Disc. | List | -6% | -12% | On request |

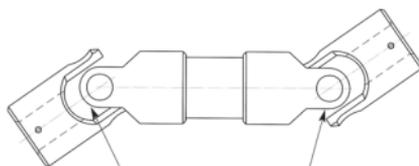
| Part number | Joint bore-size (approx) | For universal joint Øext | ØA  | ØB   | C   |   | Price each |
|-------------|--------------------------|--------------------------|-----|------|-----|---|------------|
| M03-A-10    | 10                       | 20-22                    | 39  | 20,5 | 47  | ✓ | 10,04 €    |
| M04-A-12    | 12                       | 25                       | 47  | 24,5 | 52  | ✓ | 10,04 €    |
| M05-A-14    | 14                       | 29                       | 51  | 27,5 | 58  | ✓ | 10,45 €    |
| M1-A-16     | 16                       | 32                       | 56  | 30,5 | 67  | ✓ | 11,40 €    |
| M2-A-18     | 18                       | 37                       | 66  | 35,5 | 74  | ✓ | 11,51 €    |
| M3-A-20     | 20                       | 40                       | 75  | 40,0 | 84  | ✓ | 16,70 €    |
| M4-A-22     | 22                       | 47                       | 83  | 45,0 | 97  | ✓ | 15,71 €    |
| M5-A-25     | 25                       | 50                       | 93  | 50,0 | 110 | ✓ | 18,11 €    |
| M6-A-30     | 30                       | 58                       | 105 | 56,0 | 124 | ✓ | 17,05 €    |

\*Depending on availability - Dimensions in mm

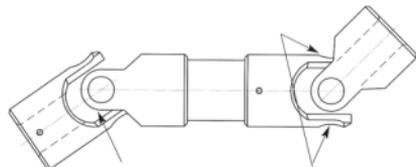
# Universal joints

## Use and maintenance of universal joints

The yokes should be positioned as shown in the diagram in order to obtain an uniform movement.



**Correct assembly**  
Yokes well-positioned

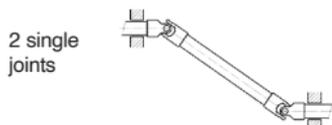


**Incorrect assembly**  
Yokes badly-positioned

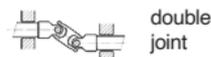
Maintenance of universal joints is limited to regular lubrication at least once a day.  
In a dusty environment, the use of a grease-filled joint cover is recommended.

**Several rules should be followed for a universal joint to work correctly:**

- It is rare for a single joint to be used alone. They are normally only used in manually operated systems.
- Assembly of two single joints (a double joint) allows speed irregularities of a single joint to be corrected by another joint exhibiting the same irregularities in the opposite direction. This combination forms what is known as a constant velocity joint.

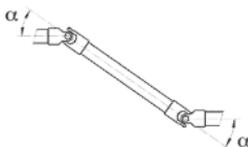


for constant velocity movement, the two angles should be equal and in the same plane

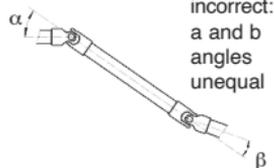


double joint

correct:  $\alpha$  angles equal

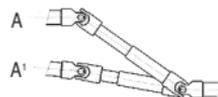
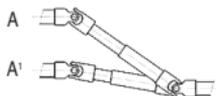


Entry and exit shafts should be parallel



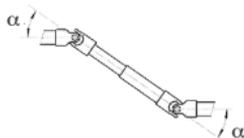
incorrect:  $\alpha$  and  $\beta$  angles unequal

correct: A parallel to A'

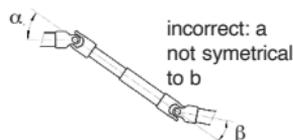


incorrect: A not parallel to A'

correct: a symmetrical to a



Shafts should be guided by bearings as close to joint as possible to reduce radial loads.



incorrect:  $\alpha$  not symmetrical to  $\beta$