

# Single needle roller universal joint

## H Industrial range

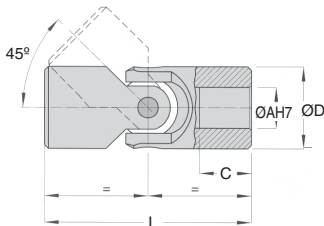
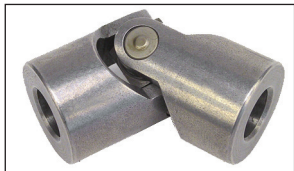
- **Standard series**
- **Needle bearings**
- Suitable for speeds up to 4000 rpm
- Max. misalignment angle 45°
- **Materials:**  
Body: C45 steel  
Pin: Hardened steel 18NCD4

### 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         | -           | -     | ✓      | 55,03 €    |
| H03-A-10/10 | 20 | 10 | 18 | 62  | 26,4        | 20,4       | 16,8                | 13,2        | 12,0        | 10,8  | ✓      | 49,52 €    |
| H05-A-14/14 | 25 | 14 | 20 | 74  | 40,8        | 34,8       | 28,8                | 26,4        | 24,0        | 21,6  | ✓      | 49,52 €    |
| H1-A-16/16  | 32 | 16 | 24 | 86  | 78,0        | 66,0       | 54,0                | 48,0        | 44,4        | 38,4  | ✓      | 55,03 €    |
| H2-A-18/18  | 37 | 18 | 17 | 72  | 90,0        | 73,2       | 60,0                | 54,0        | 48,0        | 43,2  | ✓      | 57,91 €    |
| H3-A-20/20  | 40 | 20 | 30 | 108 | 168,0       | 144,0      | 120,0               | 96,0        | 84,0        | 78,0  | ✓      | 66,06 €    |
| H4-A-22/22  | 47 | 22 | 22 | 95  | 194,4       | 158,4      | 129,6               | 105,6       | 92,4        | 85,2  | -      | 76,86 €    |
| H5-A-25/25  | 50 | 25 | 38 | 132 | 240,0       | 204,0      | 156,0               | 132,0       | 108,0       | 102,0 | ✓      | 85,32 €    |
| H6-A-30/30  | 63 | 30 | 45 | 166 | 360,0       | 324,0      | 276,0               | 228,0       | 192,0       | 168,0 | -      | 109,87 €   |
| H61-A-32/32 | 63 | 32 | 45 | 166 | 360,0       | 324,0      | 276,0               | 228,0       | 192,0       | 168,0 | -      | 102,34 €   |
| H7-A-35/35  | 70 | 35 | 35 | 140 | 391,2       | 332,4      | 284,4               | 237,6       | 201,6       | -     | -      | 185,22 €   |
| H8-A-40/40  | 80 | 40 | 50 | 180 | 438,0       | 363,6      | 306,0               | 246,0       | 223,2       | -     | -      | 255,02 €   |
| H9-A-50/50  | 95 | 50 | 54 | 190 | 482,4       | 402,0      | 330,0               | 270,0       | 237,6       | -     | -      | 357,36 €   |

\*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



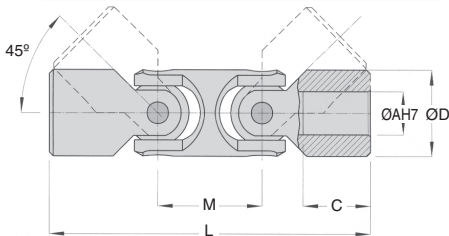
### Uses

- 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 |

|              | 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        | ✓           | 148,71 € |
| HD05-A-14/14 | 25 | 14 | 19 | 33  | 104 | 40,8        | 34,8       | 28,8        | 26,4        | 24,0       | 21,6        | ✓           | 116,63 € |
| HD1-A-16/16  | 32 | 16 | 24 | 39  | 125 | 78,0        | 66,0       | 54,0        | 48,0        | 44,4       | 38,4        | ✓           | 116,63 € |
| HD3-A-20/20  | 40 | 20 | 30 | 48  | 156 | 168,0       | 144,0      | 120,0       | 96,0        | 84,0       | 78,0        | ✓           | 157,41 € |
| HD5-A-25/25  | 50 | 25 | 37 | 59  | 188 | 240,0       | 204,0      | 156,0       | 132,0       | 108,0      | 102,0       | ✓           | 187,42 € |
| HD6-A-30/30  | 63 | 30 | 41 | 80  | 238 | 360,0       | 324,0      | 276,0       | 228,0       | 192,0      | 168,0       | ✓           | 211,71 € |
| HD61-A-32/32 | 63 | 32 | 41 | 80  | 238 | 360,0       | 324,0      | 276,0       | 228,0       | 192,0      | 168,0       |             | 197,19 € |
| HD7-A-35/35  | 70 | 35 | 30 | 78  | 212 | 391,2       | 332,4      | 284,4       | 237,6       | 201,6      | -           |             | 392,42 € |
| HD8-A-40/40  | 80 | 40 | 48 | 120 | 290 | 438,0       | 363,6      | 306,0       | 246,0       | 223,2      | -           |             | 632,98 € |
| HD9-A-50/50  | 95 | 50 | 50 | 120 | 290 | 482,4       | 402,0      | 330,0       | 270,0       | 237,6      | -           |             | 738,44 € |

Dimensions in mm

## Our other products



PSG08  
Spur gear - precision range, Pre-hardened Steel 35NCD6



ETP  
Modular handle for aluminium profile, Modular handle



ZDB  
Machined plastic bevel gear , 2:1



SHA\_PT  
Handwheel with handle, Polyamide



RURp  
Fixed castor with plate, Polyurethane - Aluminium rim (Free running)



GP  
Spring loaded toggle latch, With padlock-holder



CDP  
Flanged drill bushing, Steel



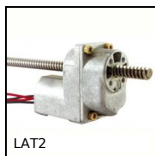
HDSS  
Needle roller double universal joint - Stainless steel, Heavy duty



SSG0  
Stainless steel spur gear, Stainless steel



BLHT50  
Right angled gearbox, from 11.50 to 30 Nm



LAT2  
2A motorised linear actuator, 2 amperes



APB\_T  
Adjusting rod for clamp - Female, Bored

## Complementary products



M  
Bellows cover, Accessory:



HD  
Double needle roller universal joint, Heavy duty



HDSS  
Needle roller double universal joint - Stainless steel, Heavy duty



H02SS  
Needle roller universal joint - Stainless steel, Heavy duty DIN808-7...