

## Bevel Gearboxes KEK Version A

Angular drives with high torques at very low dimensions.  
Suitable in a wide variety of applications  
8 Sizes. Ratio 1:1.

**Housing:** Aluminium, silver anodized. Sealed against lubricant leaks, protected against dust. Can be mounted in any position.

**Gearing:** Bevel gears from steel, surface hardened.

**Bearing:** Ball bearings with rubber seal RS.

**Lubrication:** Maintenance free grease lubrication.

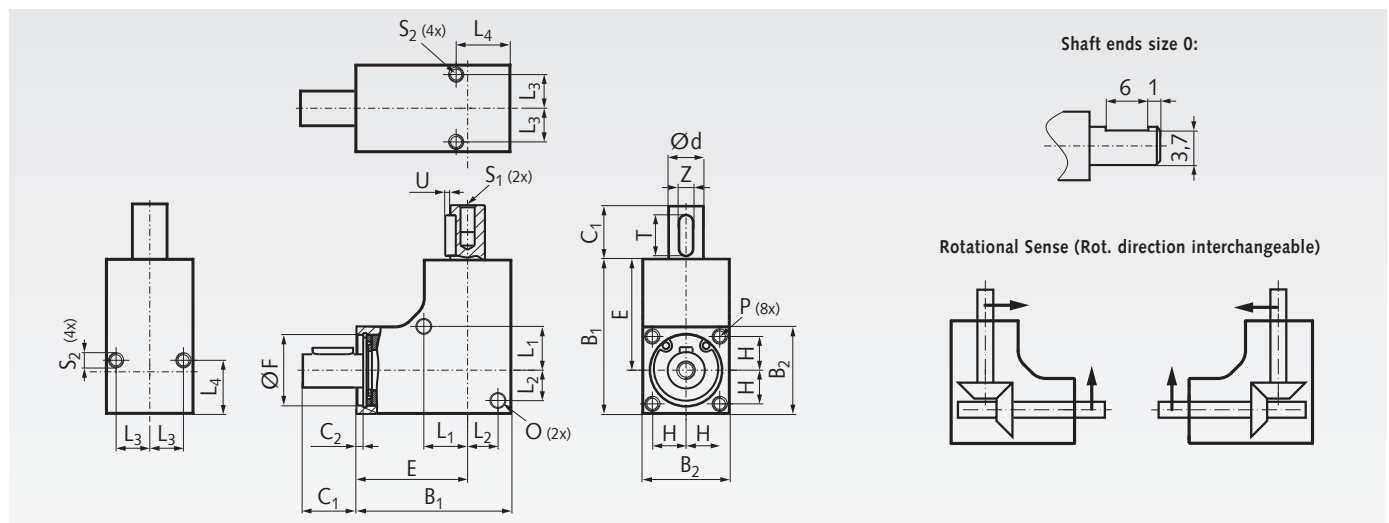
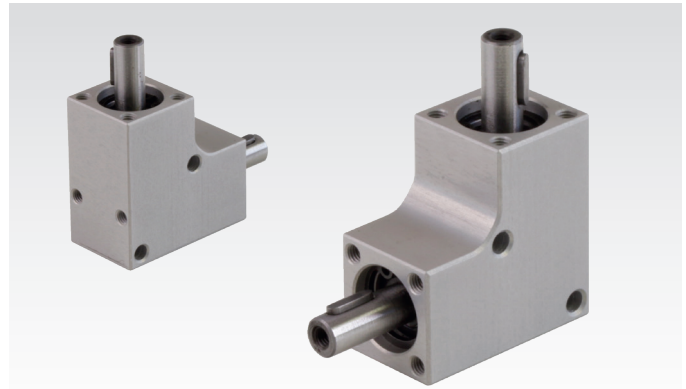
**Angular backlash:**  $3^{\circ} \pm 1^{\circ}$ .

**Operating time:** 20% at 5 min.

**Life time:** 1,000 hours at max. performance at speed  $500 \text{ min}^{-1}$  and operating time 20%.

**Permiss. operating temperature:**  $-20^{\circ}$  to  $+60^{\circ}\text{C}$ .

Ordering Details: e.g.: Product No. 41000110 Bevel Gearbox KEK Version A Size 0



## Performance Data

| Product No. | Size | Shafts<br>$\varnothing d \text{ } ^6$<br>mm | Ratio<br>i | Permittable Torque at Speed  |                              |                                | Permittable Power at Speed  |                             |                               | Shaft Load   |                 | Weight<br>g |
|-------------|------|---------------------------------------------|------------|------------------------------|------------------------------|--------------------------------|-----------------------------|-----------------------------|-------------------------------|--------------|-----------------|-------------|
|             |      |                                             |            | $100 \text{ min}^{-1}$<br>Nm | $500 \text{ min}^{-1}$<br>Nm | $1.000 \text{ min}^{-1}$<br>Nm | $100 \text{ min}^{-1}$<br>W | $500 \text{ min}^{-1}$<br>W | $1.000 \text{ min}^{-1}$<br>W | $F_R^*$<br>N | $F_A^{**}$<br>N |             |
| 410 001 10  | 0    | 4                                           | 1 : 1      | 0,28                         | 0,08                         | 0,04                           | 2,96                        | 4,16                        | 4,16                          | 48           | 48              | 29          |
| 410 001 01  | 1    | 6                                           | 1 : 1      | 0,35                         | 0,1                          | 0,05                           | 3,7                         | 5,2                         | 5,2                           | 60           | 60              | 52          |
| 410 001 02  | 2    | 8                                           | 1 : 1      | 0,75                         | 0,3                          | 0,15                           | 7,9                         | 15,7                        | 15,7                          | 100          | 100             | 73          |
| 410 001 03  | 3    | 10                                          | 1 : 1      | 2,5                          | 1                            | 0,50                           | 26,2                        | 52,4                        | 52,4                          | 120          | 120             | 142         |
| 410 001 04  | 4    | 12                                          | 1 : 1      | 4                            | 1,5                          | 0,75                           | 41,9                        | 78,5                        | 78,5                          | 140          | 140             | 189         |
| 410 001 05  | 5    | 12                                          | 1 : 1      | 5                            | 2                            | 1,0                            | 52                          | 105                         | 105                           | 240          | 240             | 268         |
| 410 001 06  | 6    | 12                                          | 1 : 1      | 8                            | 3                            | 1,5                            | 84                          | 157                         | 157                           | 550          | 550             | 330         |
| 410 001 07  | 7    | 12                                          | 1 : 1      | 10                           | 4                            | 2,0                            | 105                         | 209                         | 209                           | 550          | 550             | 395         |

\* Radial load  $F_R$  max. (on middle of the Output Shaft) for  $F_A = 0$ . \*\* Axial load  $F_A$  max. for  $F_R = 0$ .

## Dimensions

| Size | B <sub>1</sub><br>mm | B <sub>2</sub><br>mm | C <sub>1</sub><br>mm | C <sub>2</sub><br>mm | d <sup>6</sup><br>mm | E<br>mm | F<br>mm | H<br>mm | L <sub>1</sub><br>mm | L <sub>2</sub><br>mm | L <sub>3</sub><br>mm | L <sub>4</sub><br>mm | O<br>mm | P<br>mm  | S <sub>1</sub><br>mm | S <sub>2</sub><br>mm | T<br>mm | U<br>mm | Z<br>mm         |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|---------|---------|----------------------|----------------------|----------------------|----------------------|---------|----------|----------------------|----------------------|---------|---------|-----------------|
| 0    | 26                   | 15                   | 10                   | 1,1                  | 4                    | 18,5    | 11      | 5,5     | 8                    | 4,5                  | 5,5                  | 9                    | 2,6     | M2,5 x 5 | M2,5 x 5             | M2,5 x 5             | -       | -       | -               |
| 1    | 32                   | 18                   | 12                   | 2,1                  | 6                    | 23      | 13      | 6,5     | 8,5                  | 6                    | 6,5                  | 11                   | 3,1     | M3 x 10  | M3 x 8               | M3 x 6               | 8       | 0,8     | 2 <sup>1)</sup> |
| 2    | 35                   | 20                   | 12                   | 2,05                 | 8                    | 25      | 16      | 7,5     | 10                   | 7                    | 7,5                  | 10                   | 3,1     | M3 x 10  | M3 x 8               | M3 x 6               | 8       | 0,8     | 2               |
| 3    | 42                   | 24                   | 16                   | 2,0                  | 10                   | 30      | 19      | 9       | 12                   | 8                    | 9                    | 16                   | 4,1     | M4 x 10  | M4 x 8               | M4 x 8               | 12      | 1,5     | 4 <sup>1)</sup> |
| 4    | 46                   | 26                   | 16                   | 2,0                  | 12                   | 33      | 21      | 10      | 13                   | 9                    | 10                   | 16                   | 4,1     | M4 x 10  | M5 x 8               | M4 x 8               | 12      | 1,5     | 4               |
| 5    | 53                   | 30                   | 16                   | 2,1                  | 12                   | 38      | 24      | 11      | 15                   | 11                   | 11                   | 16                   | 4,1     | M4 x 10  | M5 x 8               | M4 x 8               | 12      | 1,5     | 4               |
| 6    | 56                   | 32                   | 16                   | 2,1                  | 12                   | 40      | 28      | 12      | 17                   | 12                   | 12                   | 16                   | 4,1     | M4 x 10  | M5 x 8               | M4 x 8               | 12      | 1,5     | 4               |
| 7    | 60                   | 35                   | 16                   | 2,1                  | 12                   | 42,5    | 30      | 13      | 17,5                 | 13,5                 | 13                   | 16                   | 4,1     | M4 x 10  | M5 x 8               | M4 x 8               | 12      | 1,5     | 4               |

<sup>1)</sup> Not according to DIN 6885.

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