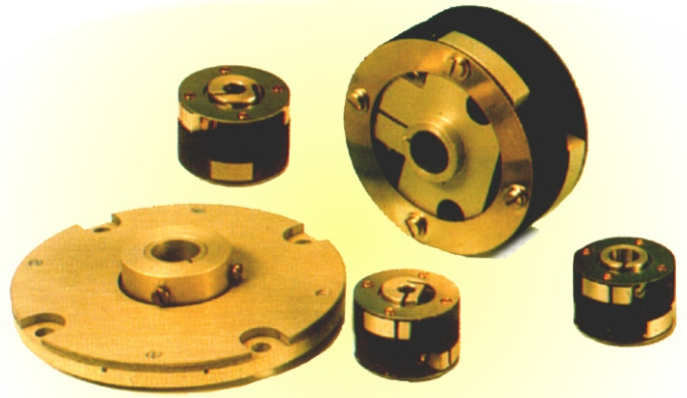


# Encoder Couplings



Couplings are used to establish the kinematic link between the shaft of encoder and a shaft of object. The coupling compensates geometrical misalignments and axial motion of these shafts, enable the encoder work within specified accuracy, prevents excessive bearing load and operation without crashes.

The permissible misalignments of shafts must be kept by user according to requirements for each model of coupling as shown in the table bellow.

There is no need to use an external coupling if the encoder (hollow shaft) has the incorporated one.

Brown&Sharpe-Precizika  
Zirmunu 139  
09120 Vilnius  
Lithuania  
t 3705 2363600  
f 3705 2363609  
http://www.bsp.Lt  
E-mail:info@bsp.Lt  
ISO 9001:2000

## MECHANICAL DATA

### Coupling model

- ◆ Kinematic accuracy (with parallel offset  $\leq 0.05$  mm and angular misalignment  $\leq 0.09^\circ$ )
- ◆ Torsional rigidity
- ◆ Permissible torque
- ◆ Moment of inertia (approx.)
- ◆ Permissible radial misalignment
- ◆ Permissible angular error
- ◆ Permissible axial motion
- ◆ Permissible shaft speed
- ◆ Weight
- ◆ Compatible with encoder

### SC30

$\pm 10$  arc sec.  
150 Nm/rad  
0.1 Nm  
 $3 \times 10^{-6}$  kgm<sup>2</sup>  
 $\leq 0.2$  mm  
 $\leq 1^\circ$   
 $\leq 0.2$  mm  
16000 rpm  
27 g  
A28  
A36  
A58, A58K

### SC70

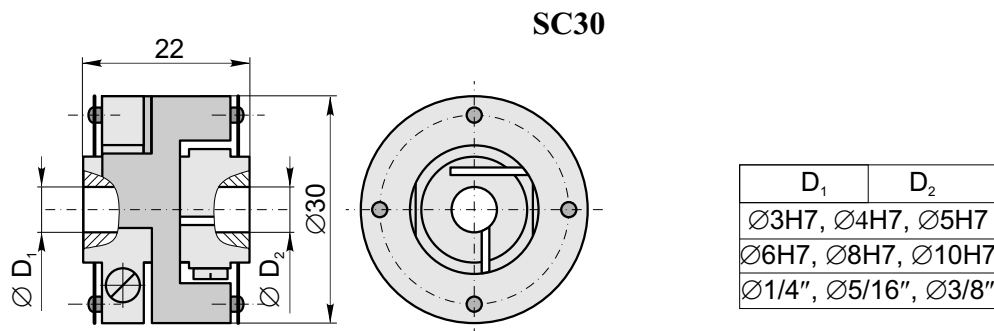
$\pm 2$  arc sec.  
4000 Nm/rad  
0.5 Nm  
 $2 \times 10^{-4}$  kgm<sup>2</sup>  
 $\leq 0.3$  mm  
 $\leq 0.5^\circ$   
 $\leq 0.2$  mm  
3000 rpm  
0.22 kg  
A110

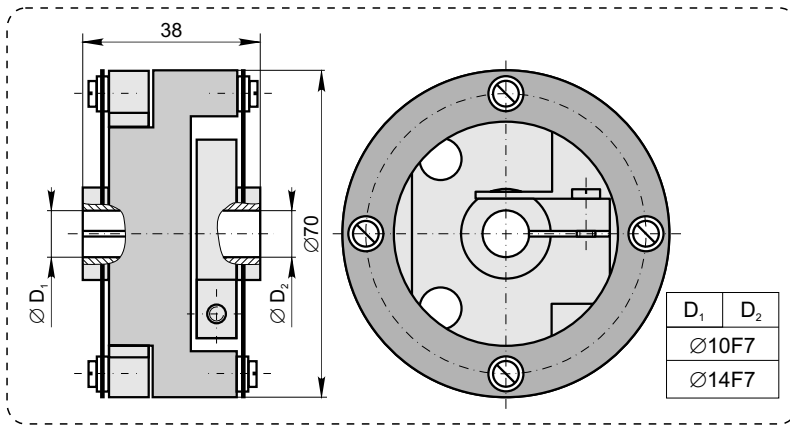
### SC98-1

$\pm 0.5$  arc sec.  
6000 Nm/rad  
1 Nm  
 $2 \times 10^{-4}$  kgm<sup>2</sup>  
 $\leq 0.3$  mm  
 $\leq 1^\circ$   
 $\leq 0.2$  mm  
1000 rpm  
0.25 kg  
A170

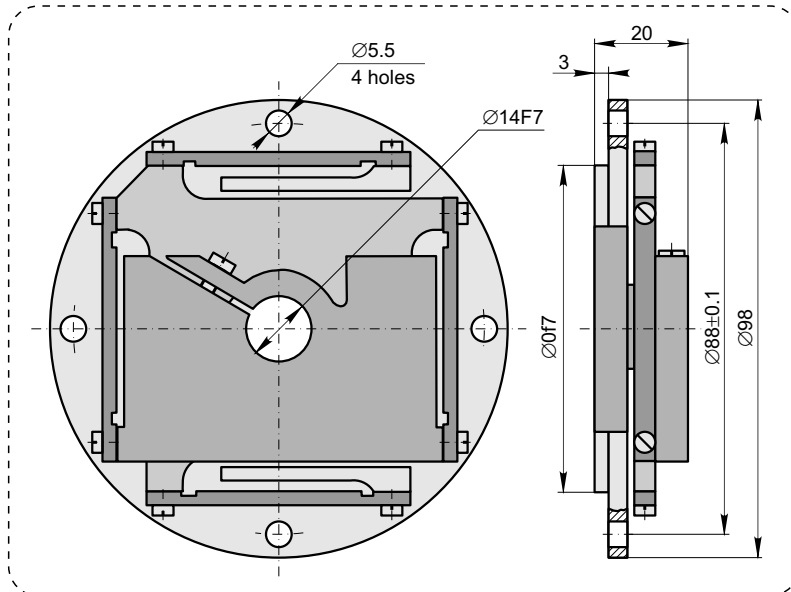
### SC98-2

$\pm 1$  arc sec.  
4000 Nm/rad  
1 Nm  
 $1.7 \times 10^{-4}$  kgm<sup>2</sup>  
 $\leq 0.3$  mm  
 $\leq 2^\circ$   
 $\leq 0.2$  mm  
1000 rpm  
0.21 kg  
A170

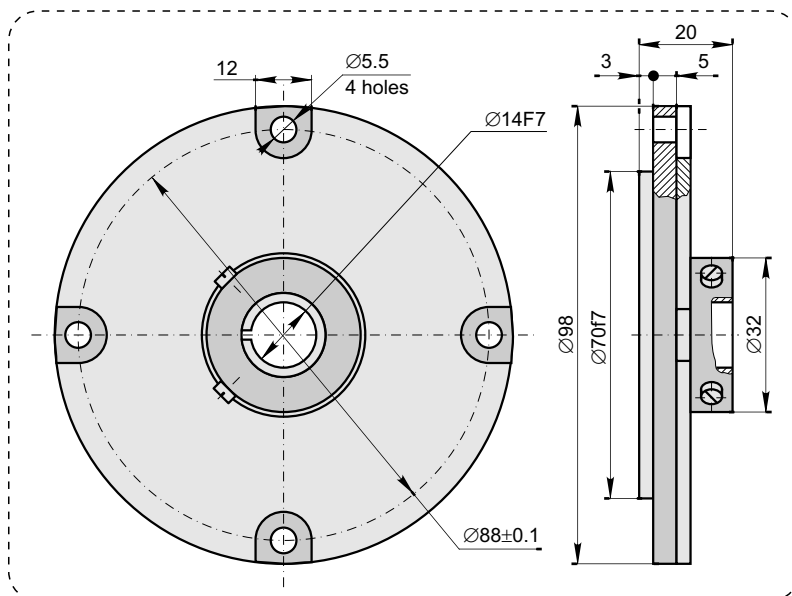




SC70



SC98-1



SC98-2

■ Order form

SC - XX - XX / XX

Model:	Diameter D <sub>1</sub> :	Diameter D <sub>2</sub> :
30, 70,	03 - Ø3 mm	03 - Ø3 mm
98-1, 98-2	04 - Ø4 mm	04 - Ø4 mm
	.....	.....