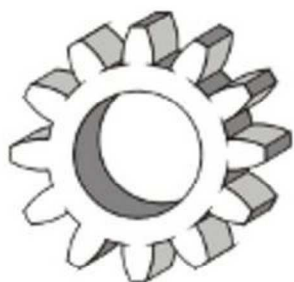


DYSTRYBUTOR



TECHNICAL

GRZEGORZ TĘGOS

TECHNIKA NAPĘDU I TRANSMISJI MOCY

62-600 Koło, ul. Toruńska 212
tel. 0-63/ 27 25 478 / fax. 0-63/ 26 16 258

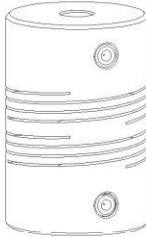
www.technical.pl
biuro@technical.pl

Sklep internetowy
www.sklep.technical.pl

**Sprzęgła
sprężynowe**

GUIDE FOR ORDERING OF BEAM COUPLING

„S” – type



„C” – type



ORDER GUIDE:

1 2 3 4 5 N A S – 5 – C 8H7 / 10H7
6

1) BEAM CONFIGURATION

- N : 6 spiral
- R : 3 spiral

2) RAW MATERIAL

- A : aluminium EW 7075
- H : stainless steel 1.4305
- S : carbon steel ETG-100

3) SHAFT FIXING

- S : screw
- C : with clamp

4) SIZE

5) OPTION

- C : chamber, inner diameter is 0.8 mm bigger than the bigger diameter of the bigger bore. In type R it is valid for normal case

6) SIZE OF BORE

- basic (pilot) bore
- bores with H7 tolerance

BORE COMBINATIONS

Options:

„N” – In this type for request it is possible that min size of d2 is bigger with 0.8 mm than bore size of d1 and d2.

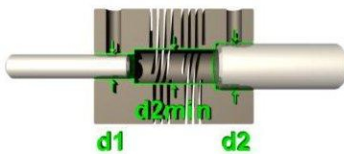
„R” – in normal case relief bore is 0.8 mm bigger than d2 bore.



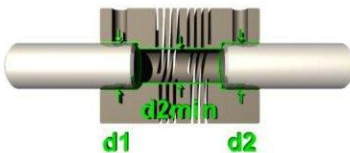
$d1 < d2 = d2min$, major shaft may not enter beneath the beams, see „N” dimension of the coupling !



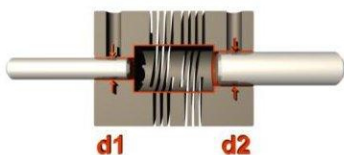
$d1 = d2 = d2min$, shaft may not enter beneath the beams, see „N” dimension of the coupling !



$d1 < d2min$, $d2 > d2min$, no risk in installation.



$d1 > d2min$, $d2 > d2min$, do not compress the coupling ! See „N” dimension of the coupling !



Whit chamber, no risk in installation.

ALUMINIUM BEAM COUPLING WITH CLAMP FIXING

Field of Application: Machine industry.

Advantages: Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness.

Typical applications: Encoder drives, step motors, servo drives



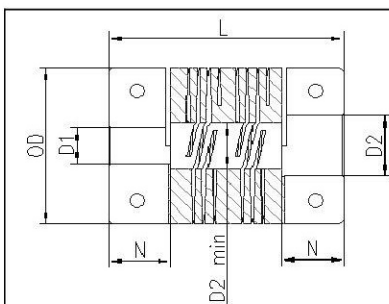
6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Clamp	D1min.	D2min.	D1, D2 max.	OD	L					N
NAC 2		1.9	2.8	4.75	9.5	19.6	5.3	M1,6	3	0.12	1
NAC 3		2.8	4.4	6.35	12.7	22.9	6.5	M2	5	0.17	2
NAC 3,5		2.8	4.8	8	15.9	25.4	6.5	M2,5	5	0.2	3.4
NAC 4		4.4	5.8	10	19.1	26.5	6.5	M2,5	7	0.25	5.3
NAC 5		5.8	7.5	12.7	25.4	38.1	11	M3	7	0.37	10
NAC 6		5.8	9.8	16	31.8	57.2	16	M4	7	0.5	15
NAC 7		7.8	11.8	19	38.1	66.7	18	M5	7	0.6	22

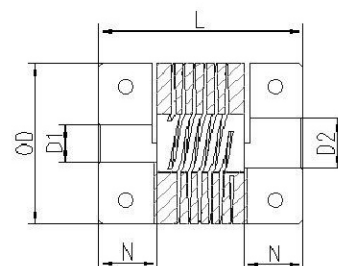
3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Clamp	D1min.	D2min.	D1, D2 max.	OD	L					N
RAC 2		1.9	2.8	4	9.5	14.2	4.5	M1,6	3	0.1	0.4
RAC 3		2.8	3.8	5	12.7	19.1	6	M2	5	0.127	0.9
RAC 3.5		2.8	3.8	6.35	15.9	20.3	6.5	M2,5	5	0.127	1.5
RAC 4		2.8	4.8	8	19.1	22.9	6.5	M2,5	5	0.127	2.5
RAC 5		4.8	5.8	11	25.4	31.8	9	M3	5	0.127	4
RAC 6		5.8	7.8	14	31.8	44.5	12	M4	5	0.127	6

6 BEAM



3 BEAM



ALUMINIUM BEAM COUPLING WITH SCREW FIXING

Application field:	Machine industry
Advantages:	Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating, systems, high torsion stiffness.
Typical applications:	Encoder drives, step motors, servo drives



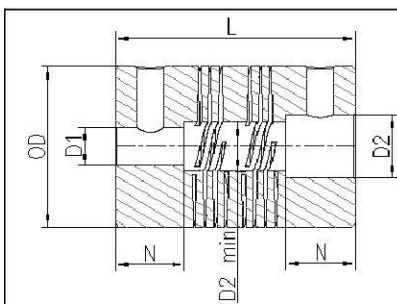
6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Set screw	D1min.	D2min.	D1, D2 max.	OD	L					N
NAS 2		1.9	2.8	4.75	9.5	19.6	5.3	M2,5	3	0.12	1
NAS 3		2.8	4.4	6.35	12.7	22.9	6.5	M3	5	0.17	2
NAS 3,5		2.8	4.8	8	15.9	25.4	6.5	M4	5	0.2	3.4
NAS 4		4.4	5.8	10	19.1	26.5	6.5	M4	7	0.25	5.3
NAS 5		5.8	7.5	12.7	25.4	38.1	11	M5	7	0.37	10
NAS 6		5.8	9.8	19	31.8	57.2	16	M6	7	0.5	15
NAS 7		7.8	11.8	22	38.1	66.7	18	M6	7	0.6	22

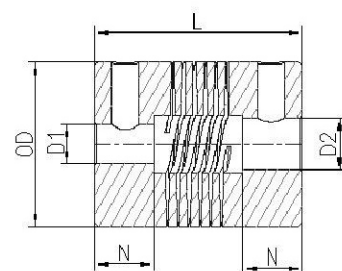
3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Set screw	D1min.	D2min.	D1, D2 max.	OD	L					N
RAS 2		1.9	2.8	4	9.5	14.2	4.5	M2,5	3	0.1	0.4
RAS 3		2.8	3.8	5	12.7	19.1	6	M3	5	0.127	0.9
RAS 3.5		2.8	3.8	6.35	15.9	20.3	6.5	M4	5	0.127	1.5
RAS 4		2.8	4.8	8	19.1	22.9	6.5	M4	5	0.127	2.5
RAS 5		4.8	5.8	11	25.4	31.8	9	M5	5	0.127	4
RAS 6		5.8	7.8	14	31.8	44.5	12	M6	5	0.127	6

6 BEAM



3 BEAM



STAINLESS STEEL BEAM COUPLING WITH CLAMP FIXING

Application field: Machine industry.

Advantages: Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness.

Typical applications: Encoder drives, step motors, servo drives



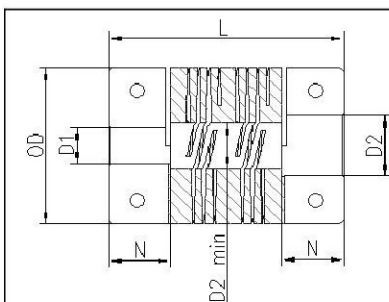
6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Clamp	D1min.	D2min.	D1, D2 max.	OD	L					N
NHC 3		2.8	4.4	6.35	12.7	25.4	6.5	M2	5	0.17	3
NHC 3,5		2.8	4.8	8	15.9	25.4	6.5	M2,5	5	0.2	5
NHC 4		4.4	5.8	10	19.1	28	6.5	M2,5	7	0.25	8
NHC 5		5.8	7.5	12.7	25.4	38.1	11	M4	7	0.37	16

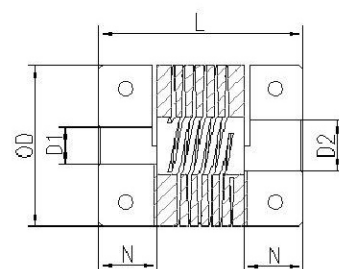
3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Clamp	D1min.	D2min.	D1, D2 max.	OD	L					N
RHC 3		2.8	3.8	5	12.7	19.1	6	M2	5	0.127	1
RHC 3,5		2.8	3.8	6.35	15.9	20.3	6	M2,5	5	0.127	1.8
RHC 4		2.8	4.8	8	19.1	22.9	6.5	M2,5	5	0.127	2.7
RHC 5		4.8	5.8	11	25.4	31.8	9	M4	5	0.127	6

6 BEAM



3 BEAM



STAINLESS STEEL BEAM COUPLING WITH SCREW FIXING

Application field: Machine industry.

Advantages: Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness.

Typical applications: Encoder drives, step motors, servo drives



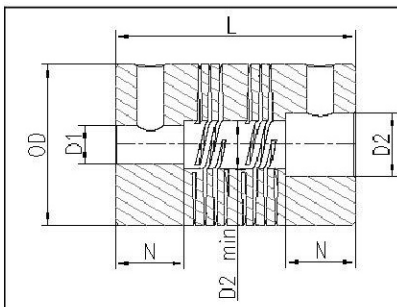
6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Set screw	D1min.	D2min.	D1, D2 max.	OD	L					N
NHS 3		2.8	4.4	6.35	12.7	25.4	6.5	M3	5	0.17	3
NHS 3,5		2.8	4.8	8	15.9	25.4	6.5	M4	5	0.2	5
NHS 4		4.4	5.8	10	19.1	28	6.5	M4	7	0.25	8
NHS 5		5.8	7.5	12.7	25.4	38.1	11	M5	7	0.37	16

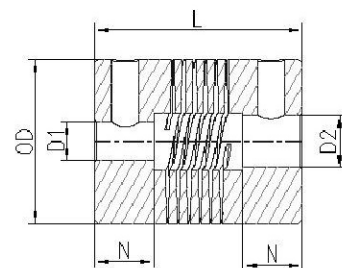
3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Set screw	D1min.	D2min.	D1, D2 max.	OD	L					N
RHS 3		2.8	3.8	5	12.7	19.1	6	M3	5	0.127	1
RHS 3,5		2.8	3.8	6.35	15.9	20.3	6	M4	5	0.127	1.8
RHS 4		2.8	4.8	8	19.1	22.9	6.5	M4	5	0.127	2.7
RHS 5		4.8	5.8	11	25.4	31.8	9	M5	5	0.127	6

6 BEAM



3 BEAM



CARBON STEEL BEAM COUPLING WITH CLAMP FIXING

Application field: Machine industry

Advantages: Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness

Typical applications: Encoder drives, step motors, servo drives



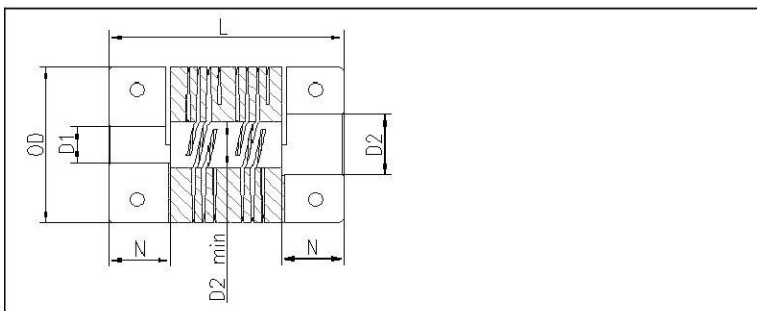
6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Clamp	D1min.	D2min.	D1, D2 max.	OD	L					N
NSC 3		2.8	4.4	6.35	12.7	25.4	6.5	M2	5	0.17	3
NSC 3,5		2.8	4.8	8	15.9	25.4	6.5	M2,5	5	0.2	5
NSC 4		4.4	5.8	10	19.1	28	6.5	M2,5	7	0.25	9
NSC 5		5.8	7.5	12.7	25	38.1	11	M4	7	0.37	18
NSC 6		5.8	9.8	16	31.8	57.2	16	M4	7	0.5	28

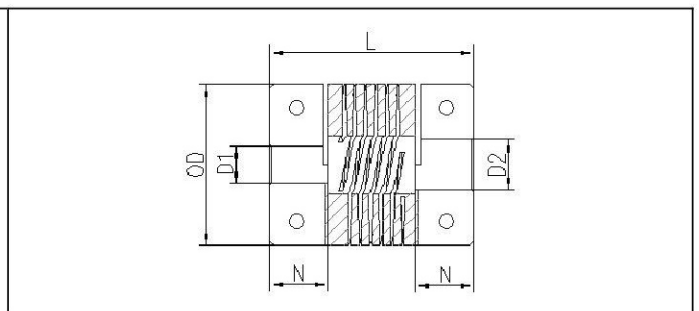
3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)	
	Clamp	D1min.	D2min.	D1, D2 max.	OD	L					N
RSC 3		2.8	3.8	5	12.7	19.1	6	M2	5	0.127	1
RSC 3.5		2.8	3.8	6.35	15.9	20.3	6	M2,5	5	0.127	2
RSC 4		2.8	4.8	8	19.1	22.9	6.5	M2,5	5	0.127	3
RSC 5		4.8	5.8	11	25	31.8	9	M4	5	0.127	6
RSC 6		5.8	7.8	14	31.8	44.5	12	M4	5	0.127	11

6 BEAM



3 BEAM



CARBON STEEL BEAM COUPLING WITH SCREW FIXING

Application field:	Machine industry
Advantages:	Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating, systems, high torsion stiffness
Typical applications:	Encoder drives, step motors, servo drives



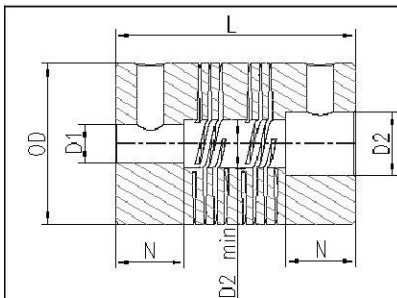
6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NSS 3	2.8	4.4	6.35	12.7	25.4	6.5	M3	5	0.17	3
NSS 3,5	2.8	4.8	8	15.9	25.4	6.5	M4	5	0.2	5
NSS 4	4.4	5.8	10	19.1	28	6.5	M4	7	0.25	9
NSS 5	5.8	7.5	12.7	25	38.1	11	M5	7	0.37	18
NSS 6	5.8	9.8	16	31.8	57.2	16	M6	7	0.5	28

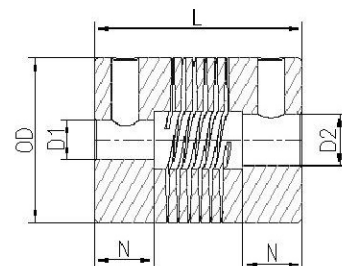
3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RSS 3	2.8	3.8	5	12.7	19.1	6	M3	5	0.127	1
RSS 3.5	2.8	3.8	6.35	15.9	20.3	6	M4	5	0.127	2
RSS 4	2.8	4.8	8	19.1	22.9	6.5	M4	5	0.127	3
RSS 5	4.8	5.8	11	25	31.8	9	M5	5	0.127	6
RSS 6	5.8	7.8	14	31.8	44.5	12	M6	5	0.127	11

6 BEAM



3 BEAM



ALUMINIUM PARALELL COUPLING (AW EN 7075)

Field of Application:	Machine industry
Advantages:	Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating, systems, high torsion stiffness
Typical applications:	NCN machines and servo drives



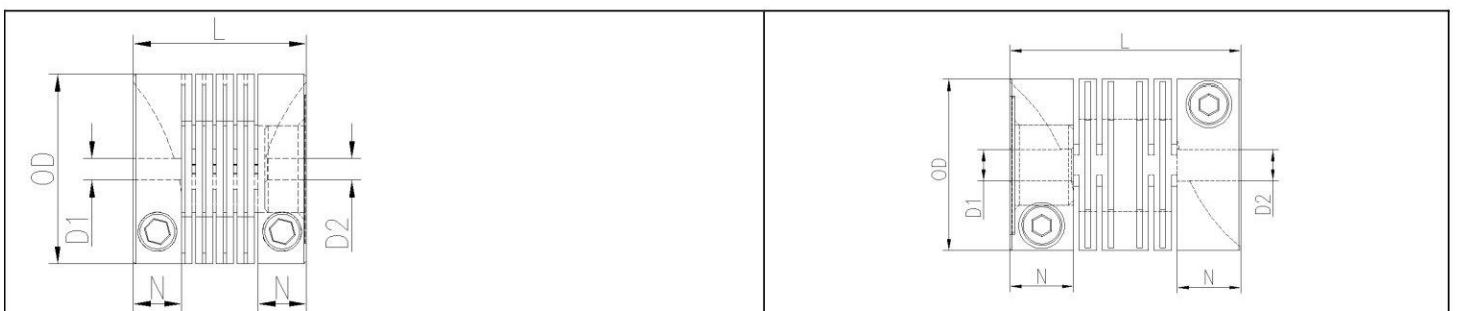
PARALLEL COUPLINGS

Type	Bore sizes (mm)		Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Nominal torque (Nm)	Screwing stiffness 10^3 Nm/Rad
	D1, D2 min.	D1, D2 max.	OD	L	N					
PAC-22	2.5	10	21.8	20	5.6	M2,5	1	0.3	1	0.2
PAC-30	5.5	14	29.7	40	11	M4	1.7	0.2	8	4.6
PAC-40	5.5	19	39.5	48	11	M5	1.7	0.3	17	11

High torsional stiffness, simple maintenance, suitable for all kind of drives
The coupling is suitable for balancing axial, radial and angular misalignments between shafts

PAC-22

PAC-30 / PAC-40

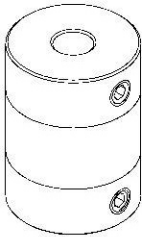


SILICON INSERT COUPLING

Field of Application:	Machine industry
Advantages:	Balance of angular misalignment of shafts, balance of parallel misalignment of shafts, precise, steady transmission of swing, high torsional stiffness, electric isolation of the end of shafts
Typical applications:	Joint of rotating encoders, servo-drives

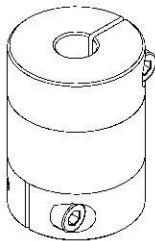


„S”-TYPE

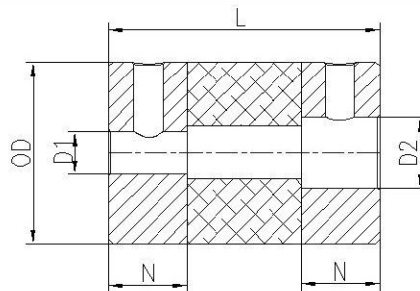


Type	Bore sizes (mm)			Dimensions (mm)			Screw D1min.	Ang. offset (deg.) D2min.	Par.offset (mm) D1, D2 max.	Max. Torque (Nm) OD
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NPS 4	4,4	5,8	10	19,1	26,5	6,5	M4	0,6	0.1	3
NPS 5	5.8	7,5	12,7	25,4	38,1	11	M5	1	0.15	5,7
NPS-6	5,8	9,8	19	31,8	57,2	16	M6	1,6	0.2	8

„C”-TYPE



Type	Bore sizes (mm)			Dimensions (mm)			Screw D1min.	Ang. offset (deg.) D2min.	Par.offset (mm) D1, D2 max.	Max. Torque (Nm) OD
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NPC 4	4,4	5,8	10	19,1	26,5	6,5	M2,5	0,6	0.1	3
NPC 5	5.8	7,5	12,7	25,4	38,1	11	M4	1	0.15	5,7
NPC 6	5,8	9,8	16	31,8	57,2	16	M5	1,6	0.2	8



EASY COUPLING (AW EN 7075)

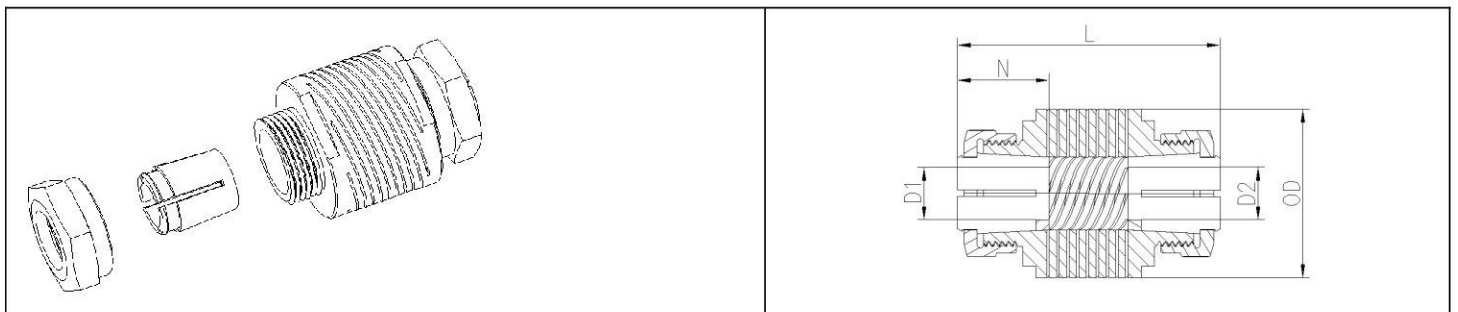
Field of Application: Machine industry

Advantages: Balance of angular misalignment of shafts, balance of parallel misalignment of shafts, precise, steady transmission of swing, high torsional stiffness

Typical applications: Joint of rotating encoders, servo-drives. It can be easily stocked with final bores



Type	Bore sizes (mm)		Dimensions (mm)			Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1, D2 min.	D1, D2 max.	OD	L	N			
EASY-4	4	8	19.1	28	8	3	0.08	4
EASY-5	5	10	25.4	40	11	3	0.10	8
EASY-6	6	12	31.8	58	16	3	0.15	14



JAW TYPE COUPLING (AW EN 7075 + PU 98 ShA)

Application: Machine industry

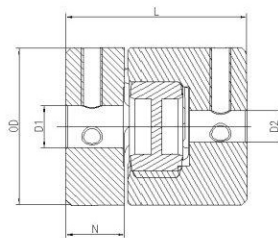
Advantages: Compensates angular, parallel, 3D misalignment
constant velocity, angular accuracy in rotating systems, anti-vibration properties

Application: CNC machines, servo drives, engines, pumps



Type	Bore size (mm)		Dimension (mm)			Screw	Ang. offset (deg.)	Nominal torque (Nm)	Max. torque (Nm)
	D1, D2 min.	D1, D2 max.	OD	L	N				
KS-7	3	7	14	22	7	M3	1	2	4
KS-9	4	9	20	30	10	M3	1.7	5	10
KS-14	4	14	30	35	11	M4	1.7	12,5	25

KS-7 / KS-9 / KS-14



STAINLESS STEEL TAPER BUSH (1.4305)

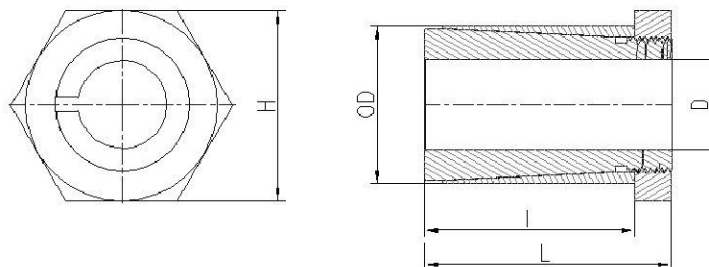
Field of Application: Machine industry
Advantages: Simple, easy maintenance, axial and radial positioning on shaft
Typical applications: Fixing gears, pulleys on the shaft



Type	Material	D (mm)	OD (mm)	L (mm)	l (mm)	H (mm)	Male thread	Max. Torque
BS-6.35	KO	6.35	10	15	12.5	10	M8x0.5	7
BS-9.52	KO	9.52	14	22	19	17	M12x1	14
BS-15.88	KO	15.88	23	28	23	27	M20x1	26

BS-4	KO	4	8	15	12.5	8	M6x0.5	3
BS-5	KO	5	10	15	12.5	10	M8x0.5	4
BS-6	KO	6	10	15	12.5	10	M8x0.5	7
BS-7	KO	7	12	15	12	12	M10x0.75	8
BS-8	KO	8	14	22	19	17	M12x1	14
BS-9	KO	9	14	22	19	17	M12x1	14
BS-10	KO	10	17	22	18.5	19	M15x1	18
BS-11	KO	11	17	22	18.5	19	M15x1	18
BS-12	KO	12	17	22	18.5	19	M15x1	18
BS-14	KO	14	20	28	23	22	M17x1	24
BS-15	KO	15	20	28	23	22	M17x1	24
BS-16	KO	16	23	28	23	27	M20x1	26
BS-17	KO	17	23	28	23	27	M20x1	26
BS-19	KO	19	25	28	23	27	M22x1	29
BS-20	KO	20	28	28	23	30	M22x1	31

KO= Stainless Steel



CARBON STEEL TAPER BUSH (ETG-100)

Field of Application: Machine industry
Advantages: Simple easy maintenance, axial and radial positioning on shaft
Typical applications: Fixing gears, pulleys on the shaft



Type	Material	D (mm)	OD (mm)	L (mm)	l (mm)	H (mm)	B (mm)	Max. Torque
BT-6	ST	6	16	19	9.5	13	3	16
BT-8	ST	8	19	22	11	16	3	23
BT-9	ST	9	19	22	11	16	3	26
BT-10	ST	10	22.5	25.5	12.5	19	5	30
BT-11	ST	11	22.5	25.5	12.5	19	5	34
BT-12	ST	12	22.5	25.5	12.5	19	5	39
BT-14	ST	14	25.5	28.5	16	22	5	42
BT-15	ST	15	25.5	28.5	16	22	5	45
BT-16	ST	16	25.5	28.5	16	22	5	50
BT-20	ST	20	45	47.5	21.5	44.5	11	290
BT-22	ST	22	45	47.5	21.5	44.5	11	315
BT-24	ST	24	45	47.5	21.5	44.5	11	380
BT-25	ST	25	45	47.5	21.5	44.5	11	390

ST= Carbon Steel

