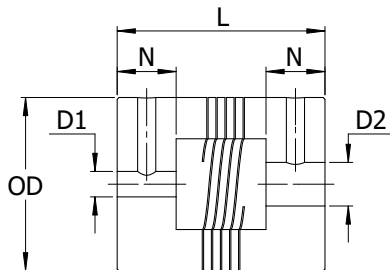


# Spiral coupling

Spiral cut miniature couplings for high precision applications, which operational requirement include zero backlash, low inertia, corrosion resistance, the capability of repeated load, constant velocity and angular accuracy at every point during rotation.



NAC, NSC



NAS, NSS



RAC, RSC



RAS, RSS

(S) Set screw, (C) Clamp

## 6 BEAM COUPLINGS, Aluminium (DIN 1725)

Type Set Screw / Clamp	Bore sizes (mm)			Dimensions (mm)			Screw		Torque (Nm)		Torsional Stiffness (Nm/rad)	Mass (gram)	Angular Offset (Deg.)	Parallel Offset (mm)
	D1 Min.	D2 Min.	D1, D2 Max.	OD	L	N	(S)	(C)	Rated	Max.				
NAS 3 / NAC 3	2.8	4.4	6.4	12.7	22.9	6.5	M3	M2	1.0	2.0	14	7	5	0.17
NAS 4 / NAC 4	4.4	5.8	10.0	19.1	26.5	6.5	M4	M2.5	2.7	5.3	57	18	7	0.25
NAS 5 / NAC 5	5.8	7.5	12.7	25.4	38.1	11.0	M5	M3	5.0	10.0	80	45	7	0.37
NAS 6 / NAC 6	5.8	9.8	19/16	31.8	57.2	16.0	M6	M4	7.5	15.0	195	105	7	0.50
NAS 7 / NAC 7	7.8	11.8	22/19	38.1	66.7	18.0	M6	M5	11.0	22.0	262	170	7	0.60

## 3 BEAM COUPLINGS, Aluminium (DIN 1725)

Type Set Screw / Clamp	Bore sizes (mm)			Dimensions (mm)			Screw		Torque (Nm)		Torsional Stiffness (Nm/rad)	Mass (gram)	Angular Offset (Deg.)	Parallel Offset (mm)
	D1 Min.	D2 Min.	D1, D2 Max.	OD	L	N	(S)	(C)	Rated	Max.				
RAS 3 / RAC 3	2.8	3.8	5	12.7	19.1	6.0	M3	M2	0.5	0.9	36	5	5	0.127
RAS 4 / RAC 4	2.8	4.8	8	19.1	22.9	6.5	M4	M2.5	1.3	2.5	50	15	5	0.127
RAS 5 / RAC 5	4.8	5.8	11	25.4	31.8	9.0	M5	M3	2.0	4.0	104	40	5	0.127
RAS 6 / RAC 6	5.8	7.8	14	31.8	44.5	12.0	M6	M4	3.0	6.0	200	86	5	0.127

## 6 BEAM COUPLINGS, Carbon steel (ALCAN ETG 100, chemical black surface protection)

Type Set Screw / Clamp	Bore sizes (mm)			Dimensions (mm)			Screw		Torque (Nm)		Torsional Stiffness (Nm/rad)	Mass (gram)	Angular Offset (Deg.)	Parallel Offset (mm)
	D1 Min.	D2 Min.	D1, D2 Max.	OD	L	N	(S)	(C)	Rated	Max.				
NSS 3 / NSC 3	2.8	4.4	6.35	12.7	25.4	6.5	M3	M2	1.5	3.0	25	18	5	0.17
NSS 4 / NSC 4	4.4	5.8	10.00	19.1	28.0	6.5	M4	M2.5	4.5	9.0	165	46	7	0.25
NSS 5 / NSC 5	5.8	7.5	12.70	25.4	38.1	11.0	M5	M3	9.0	18.0	232	120	7	0.37
NSS 6 / NSC 6	5.8	9.8	16.00	31.8	57.2	16.0	M6	M4	14.0	28.0	440	280	7	0.50

## 3 BEAM COUPLINGS, Carbon steel (ALCAN ETG 100, chemical black surface protection)

Type Set Screw / Clamp	Bore sizes mm			Dimensions mm			Screw		Torque (Nm)		Torsional Stiffness (Nm/rad)	Mass (gram)	Angular Offset (Deg.)	Parallel Offset (mm)
	D1 Min.	D2 Min.	D1, D2 Max.	OD	L	N	(S)	(C)	Rated	Max.				
RSS 3 / RSC 3	2.8	3.8	5	12.7	19.1	6.0	M3	M2	0.5	1.0	78	13	5	0.127
RSS 4 / RSC 4	2.8	4.8	8	19.1	22.9	6.5	M4	M2.5	1.5	3.0	118	40	5	0.127
RSS 5 / RSC 5	4.8	5.8	11	25.4	31.8	9.0	M5	M3	3.0	6.0	239	106	5	0.127
RSS 6 / RSC 6	5.8	7.8	14	31.8	44.5	12.0	M6	M4	5.5	11.0	357	230	5	0.127

### Remarks:

#### Angular & Parallel Misalignments:

Max. compensation values are mutually exclusive

#### Service factor:

Shock & Reversing: 2.0  
Non reversing: 1.5  
Steady load: 1.0

#### Rated torque :

Select the size where Rated Torque exceeds the Application torque x Service factor.

#### Max. speed:

5,000 RPM