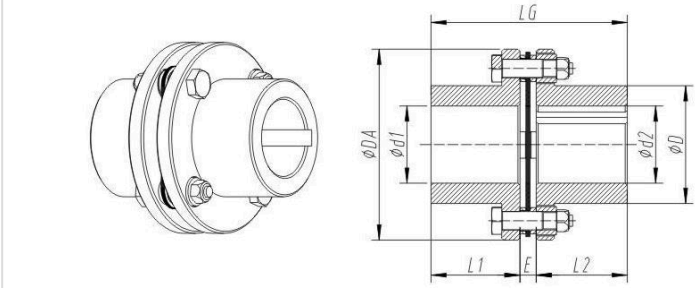
RDC SERIES — TYPE A: SINGLE-DISC COUPLING (HEAVY-DUTY INDUSTRIAL STEEL DISC COUPLING, 15–9,000 NM)

RDC 系列 — A 型（单节式重载全钢结构，额定扭矩 15 – 9,000 Nm）

Design Features & EU Standards · 结构特点与欧标规范

- **Single-Disc Heavy-Duty All-Steel Design:** One laminated stainless steel disc pack / lamina pack (EN 1.4310) bolted between two forged/machined industrial steel hubs (C45E / 42CrMo4 acc. to EN ISO 683).
  单节式高刚性结构：单组不锈钢膜片组件与两端高强度碳钢/合金钢轴套通过高强度螺栓（ISO 4017 / ISO 4762 10.9级）精密组装。
- **Angular & Axial Compensation:** Accommodates angular (ΔK_w up to 1.3°) and axial (ΔK_a up to ±1.6 mm) misalignments with high radial support stiffness.
  角向与轴向纠偏：具备优异的角向与轴向偏差补偿能力，同时提供极高的径向支承刚度。
- **Compact Axial Envelope:** Short overall length L_G ideal for close-coupled industrial drives.
  结构紧凑、扭向刚性极高：轴向安装空间小，传递扭矩大。



Dimensions of RDC Type A [mm] (Bore ISO 286-2 H7 · Keyway DIN 6885-1 JS9) · A 型结构尺寸表（单位：mm）

Size · 规格	$d_{1,max}$ [H7]	$d_{2,max}$ [H7]	D_A	D	L_G	L_1	E	L_2
20	20	20	56	32	45	20	5	20
25	25	25	68	40	56	25	6	25
35	35	35	82	54	86	40	6	40
38	38	38	94	58	98	45	8	45
42	42	42	104	68	100	45	10	45
50	50	50	126	78	121	55	11	55
60	60	60	138	88	121	55	11	55
70	70	70	156	102	141	65	11	65
80	80	80	179	117	164	75	14	75
85	85	85	191	123	175	80	15	80
90	90	90	210	132	175	80	15	80
105	105	105	225	147	200	90	20	90
115	115	115	265	163	223	100	23	100

Technical Performance Parameters of RDC Type A (DIN 740-2) · A 型技术性能参数表

Size · 规格	Nominal Torque T_{KN} [Nm] 额定扭矩	Max. Speed n_{max} [min^{-1}] 最高转速	Permissible Angular ΔK_w [°] 许用角向偏差	Permissible Axial ΔK_a [±mm] 许用轴向偏差	Permissible Radial ΔK_r [mm] 许用径向偏差	Moment of Inertia J [$kg \cdot m^2$] 转动惯量	Disc Pack Torsional Stiffness C_T [10^6 Nm/rad] 膜片组扭转刚度
20	15	20000	1.0	0.6	—	0.00010	0.017
25	30	16000	1.0	0.8	—	0.00026	0.028
35	60	13000	1.0	1.0	—	0.00080	0.092
38	120	12000	1.0	1.2	—	0.00160	0.198
42	180	10000	1.0	1.4	—	0.00270	0.282
50	330	8000	1.0	1.6	—	0.00610	0.501
60	690	6700	1.3	1.0	—	0.00820	0.560
70	1100	5900	1.3	1.1	—	0.01520	0.900
80	1500	5100	1.3	1.3	—	0.02900	1.140
85	2400	4750	1.3	1.3	—	0.04200	1.520
90	4500	4300	1.0	1.0	—	0.06400	1.940
105	5100	4000	1.0	1.2	—	0.09300	2.540
115	9000	3400	1.0	1.4	—	0.19900	3.480

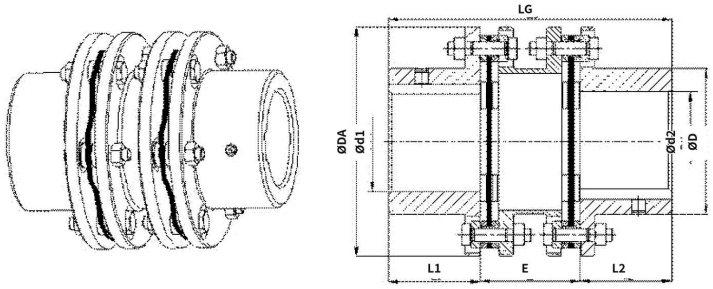
RDC Series RDC 系列 | **MISHKIN RDC Heavy-Duty Industrial Steel Disc Couplings** | MISHKIN RDC 工业重载全钢膜片联轴器

RDC SERIES — TYPE B: DOUBLE-DISC COUPLING WITH SPACER (HEAVY-DUTY STEEL LAMINA COUPLING, 15–9,000 NM)

RDC 系列 — B 型（标准双节式带中间体全钢结构，额定扭矩 15 – 9,000 Nm）

Design Features & EU Standards · 结构特点与欧标规范

- **Double-Disc Center Spacer Construction:** Two stainless steel disc packs / lamina packs (EN 1.4310) separated by a flanged industrial steel center spacer (C45E / 42CrMo4), allowing radial removal of the center section without disturbing driving/driven machines.
  1. 紧凑的双节式中间体结构：两组不锈钢膜片组通过法兰式中间体连接，支持在不移动两端主机设备的情况下径向拆装中间体组件。
- **Full 3-Axis Misalignment Compensation:** High radial (ΔK_r up to 1.6 mm), angular ($2 \cdot \Delta K_w$), and axial (ΔK_a up to ±3.2 mm) compensation.
  2. 三向综合纠偏能力强：可同时吸收较大的径向平行偏心、角向及轴向偏差。
- **Gear Coupling Replacement:** Maintenance-free, lubrication-free direct replacement for crowned-tooth gear couplings.
  3. 完美替代鼓形齿式联轴器：终身免润滑、免维护，可直接替换传统曲面齿联轴器。



Dimensions of RDC Type B [mm] (Bore ISO 286-2 H7 · Keyway DIN 6885-1 JS9) · B 型结构尺寸表（单位：mm）

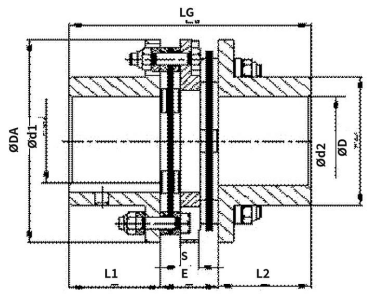
Size · 规格	$d_{1,max}$ [H7]	$d_{2,max}$ [H7]	D_A	D	L_G	L_1	E	L_2
20	20	20	56	32	—	20	—	20
25	25	25	68	40	—	25	—	25
35	35	35	82	54	—	40	—	40
38	38	38	94	58	—	45	—	45
42	42	42	104	68	—	45	—	45
50	50	50	126	78	—	55	—	55
60	60	60	138	88	170	55	60	55
70	70	70	156	102	200	65	70	65
80	80	80	179	117	233	75	83	75
85	85	85	191	123	246	80	86	80
90	90	90	210	132	251	80	91	80
105	105	105	225	147	281	90	101	90
115	115	115	265	163	309	100	109	100

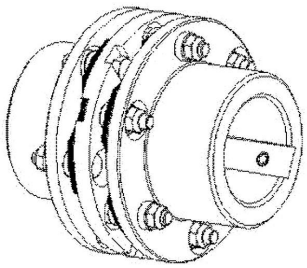
Technical Performance Parameters of RDC Type B (DIN 740-2) · B 型技术性能参数表

Size · 规格	Nominal Torque T_{KN} [Nm] 额定扭矩	Max. Speed n_{max} [min^{-1}] 最高转速	Permissible Angular ΔK_w [° per pack] 许用角向偏差	Permissible Axial ΔK_a [±mm] 许用轴向偏差	Permissible Radial ΔK_r [mm] 许用径向偏差	Moment of Inertia J [kg·m^2] 转动惯量	Disc Pack Torsional Stiffness C_T [10^6 Nm/rad] 膜片组扭转刚度
20	15	20000	1.0	1.2	0.1	—	0.0085
25	30	16000	1.0	1.6	0.2	—	0.0140
35	60	13000	1.0	2.0	0.2	—	0.0460
38	120	12000	1.0	2.4	0.3	—	0.0990
42	180	10000	1.0	2.8	0.3	—	0.1410
50	330	8000	1.0	3.2	0.4	—	0.2505
60	690	6700	1.3	2.0	1.0	0.012	0.2800
70	1100	5900	1.3	2.2	1.2	0.022	0.4500
80	1500	5100	1.3	2.6	1.5	0.042	0.5700
85	2400	4750	1.3	2.3	1.5	0.064	0.7600
90	4500	4300	1.0	2.0	1.4	0.103	0.9700
105	5100	4000	1.0	2.4	1.6	0.143	1.2700
115	9000	3400	1.0	2.8	1.3	0.333	1.7400

RDC SERIES — TYPE C: COMPACT DOUBLE-DISC COUPLING (ALL-STEEL DISC COUPLING) & ORDERING CODE

RDC 系列 — C 型（紧凑型双节式全钢结构）尺寸性能表与订货示例





Design Features & EU Standards · 结构特点与欧标规范

- **Ultra-Compact Double-Disc Architecture:** Integrates an internal center ring (dimension S) between two stainless steel disc packs / lamina packs (EN 1.4310), providing full double-disc radial, angular, and axial compensation in a minimal axial envelope L_G.
  紧凑的双节式结构：在极短的轴向总长 L_G 内集成两组不锈钢膜片与紧凑中间环（S），兼具双膜片三向纠偏能力与紧凑安装尺寸。
- **High Misalignment & Torque Density:** Ideal for compact industrial gearboxes, pumps, and test stands; directly replaces crowned-tooth gear couplings.
  纠偏能力强、扭矩密度高：可直接替换传统鼓形齿式联轴器，免润滑、无背隙。

Dimensions of RDC Type C [mm] (Bore ISO 286-2 H7 · Keyway DIN 6885-1 JS9) · C 型结构尺寸表（单位：mm）

Size · 规格	$d_{1,max}$ [H7]	$d_{2,max}$ [H7]	D_A	D	L_G	L_1	E	L_2	S
20	20	20	56	32	55	20	15	20	5
25	25	25	68	40	68	25	18	25	6
35	35	35	82	54	98	40	18	40	6
38	38	38	94	58	114	45	24	45	8
42	42	42	104	68	118	45	28	45	8
50	50	50	126	78	142	55	32	55	10
60	60	60	138	88	144	55	34	55	12
70	70	70	156	102	164	65	34	65	12

Technical Performance Parameters of RDC Type C (DIN 740-2) · C 型技术性能参数表

Size · 规格	Nominal Torque T_{KN} [Nm] 额定扭矩	Max. Speed n_{max} [min^{-1}] 最高转速	Permissible Angular ΔK_W [° per pack] 许用角向偏差	Permissible Axial ΔK_a [±mm] 许用轴向偏差	Permissible Radial ΔK_r [mm] 许用径向偏差	Moment of Inertia J [$kg \cdot m^2$] 转动惯量	Disc Pack Torsional Stiffness C_T [10^6 Nm/rad] 膜片组扭转刚度
20	15	20000	1.0	1.2	0.1	0.00010	0.0085
25	30	16000	1.0	1.6	0.2	0.00025	0.0140
35	60	13000	1.0	2.0	0.2	0.00850	0.0460
38	120	12000	1.0	2.4	0.3	0.00150	0.0990
42	180	10000	1.0	2.8	0.3	0.00240	0.1410
50	330	8000	1.0	3.2	0.4	0.00800	0.2505
60	690	6700	1.3	2.0	1.0	0.01000	0.2800
70	1100	5900	1.3	2.2	1.2	0.02000	0.4500

ORDERING CODE EXAMPLE: RDC-35-A-35JX28J (DIN 6885-1 KEYWAY & SHRINK DISC OPTIONS)

RDC 系列订货号码示例：RDC-35-A-35Jx28J

RDC-35-A	35J	28J
MISHKIN RDC Industrial Steel Disc Coupling, Size 35, Execution A MISHKIN（米什金）RDC 膜片联轴器 35 规格 A 型	Hub 1 Bore d_1 = 35 mm (H7), Keyway acc. to DIN 6885-1 (J) 主动端轴套孔径 35 mm，DIN 6885-1 键槽连接形式 (J)	Hub 2 Bore d_2 = 28 mm (H7), Keyway acc. to DIN 6885-1 (J) 从动端轴套孔径 28 mm，DIN 6885-1 键槽连接形式 (J)

Shaft Connection Codes: J = Finish bore (ISO 286-2 H7) with parallel keyway acc. to DIN 6885-1 (JS9) + set screw (ISO 4029); Z = Keyway + external conical shrink disc / locking assembly. **连接形式代码说明：**J 表示 DIN 6885-1 标准平键键槽连接形式；Z 表示键槽配外置锥套胀紧连接形式。