



深圳宾力传动科技有限公司
Shenzhen Benli Transmission Technology Co., LTD.

**SHENZHEN BENLI TRANSMISSION TECHNOLOGY CO.,
LTD.**

Precision Coupling Catalog

Professional manufacturer of precision coupling components for servo motors, stepping motors, CNC machines, semiconductor equipment, UV printers, and industrial automation systems. Four major series, 30+ models covering bore diameters from $\Phi 3$ to $\Phi 78$ mm.

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Company Profile

Shenzhen Benli Transmission Technology Co., Ltd. (BINLIDRIVE) is a professional enterprise integrating the R&D, manufacturing, and sales of precision transmission components. Located in Guangming District, Shenzhen, China, the company specializes in producing high-quality couplings for servo and stepping motor applications.

With a complete in-house manufacturing capability — from CNC machining of aluminum and stainless steel components to surface treatment and assembly — BINLIDRIVE ensures consistent quality across its entire product range. The company's core philosophy is **"Customer First,"** committed to building a nationally recognized coupling brand with proprietary intellectual property.

Core Products

- Diaphragm Couplings (Single/Double, Aluminum/Stainless Steel)
- Plum/Jaw Couplings (Aluminum/Stainless Steel, Clamp/Sleeve)
- Cross Slider (Oldham) Couplings
- Beam (Parallel) Couplings
- Support Units & Precision Nuts

Application Industries

CNC Machine Tools • Laser Cutting Equipment • Semiconductor Equipment • UV Printers • Industrial Robots • 3C Electronics Automation • Packaging Machinery • Textile Machinery • Printing Equipment

Company Information

Company	Shenzhen Benli Transmission Technology Co., Ltd. (BINLIDRIVE)
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Zero Backlash

Diaphragm and beam types achieve true zero backlash through elastic deformation



High Rigidity

Torsional stiffness up to 1,600,000 N-m/rad for precision servo systems



Low Inertia

Aluminum body reduces rotational inertia for fast servo response



Corrosion Resistant

304 stainless steel options for food, medical, and chemical environments



Misalignment Compensation

Absorbs angular, parallel, and axial misalignment to protect equipment



Vibration Damping

TPU elastomer in plum couplings absorbs vibration and provides electrical insulation

Product Series Overview

BINLIDRIVE offers four major coupling series plus specialized encoder and cross-slider types, covering 30+ models with bore diameters from $\Phi 3$ to $\Phi 78$ mm.

Series Code	Series Name	Elastic Element	Body Material	Connection Type	O.D. Range (mm)	Bore Range (mm)	Rated Torque (N·m)	Max Speed (rpm)	Primary Application
CRO-CS	Aluminum Single Diaphragm Clamp	304 SS Diaphragm	Aluminum	Clamp	19 – 126	3 – 78	1 – 350	7,500 – 50,000	Servo motor connection, standard precision
CRO-CD	Aluminum Single Diaphragm Clamp (Extended)	304 SS Diaphragm	Aluminum	Clamp	19 – 126	3 – 78	1 – 6,750	8,000 – 50,000	Heavy-duty servo, medium/low speed high torque
CRO-CFC	Aluminum Plum (Jaw) Clamp	TPU Elastomer	Aluminum	Clamp	14 – 120	3 – 78	0.2 – 5,200	3,000 – 46,000	General industrial, vibration damping
CRO-FZG	Stainless Steel Plum (Jaw) Sleeve	TPU Elastomer	304 SS	Sleeve (Locking)	30 – 120	9.5 – 65	14.8 – 1,040	2,800 – 20,000	Corrosive/sanitary environments, high response
CRO-HC	Aluminum Cross Slider (Oldham) Clamp	Engineering Plastic Slider	Aluminum / 304 SS	Clamp	—	—	—	—	Large parallel misalignment compensation
CRO-IC	Aluminum Beam Coupling Clamp	Metal Cut-out Beam	Aluminum	Clamp	—	—	—	—	Encoders, zero backlash, high sensitivity
CRO-B	Encoder-specific Coupling	Helical Structure	Aluminum / 304 SS	Clamp	—	—	—	—	Rotary encoder mounting, miniature bore

Note: CRO-CS, CRO-CD, CRO-CFC, and CRO-FZG are the four main series with full specification tables in this catalog. Additional series (CRO-HC, CRO-IC, CRO-B, CRO-SE, CRO-LF, CRO-CW, CRO-NB, etc.) are available upon request.

CRO-CS Series — Aluminum Single Diaphragm Clamp

CRO-CS

Aluminum Single Diaphragm Clamp-Type Coupling

Features: High-strength aluminum body with 304 stainless steel diaphragm. Zero backlash, high rigidity, low inertia. Designed for servo/stepping motor to precision lead screw connections. Suitable for bidirectional rotation at high speed.

Body Material: High-strength Aluminum (anodized)

Diaphragm: 304 Stainless Steel

Connection: Clamp type

Backlash: Zero

Applications: CNC machine tools, semiconductor equipment, laser processing, UV printers (X/Y/Z axes), robotics, packaging/printing machinery

Key Parameters	
Outer Dia. (ΦD)	19 – 126 mm
Total Length (L)	19 – 78 mm
Bore Range	3 – 78 mm
Rated Torque	1 – 350 N·m
Max Speed	7,500 – 50,000 rpm
Torsional Stiffness	9.1×10 ² – 1.6×10 ⁹ N·m/rad
Angular Misalignment	0.1° – 1°

Specification Table — Small Sizes (Φ19 – Φ44)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	S	F	Clamp Screw	Screw Torque (N·m)	Rated Torque (N·m)	Ang. Misalign. (°)	Par. Misalign. (mm)	Axial Misalign. (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Inertia (kg·m ²)	Weight (g)
CS-19+20	3, 4, 5, 6, 6.35, 7, 8	19	20	9.1	1.8	3.3	M2.5	0.8	1	1	≤0.09	±0.009	50,000	1,400	6.7×10 ⁻⁶	11
CS-26+26	3, 4, 5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12	26	26	11.65	2.6	3.9	M3	1.2	1.5	1	≤0.14	±0.1	10,000	3,700	2.2×10 ⁻⁵	28
CS-32+28	5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12, 12.7, 14, 15	32	28	12.25	3.5	3.85	M3	1.2	2	1	≤0.18	±0.1	10,000	5,700	7.1×10 ⁻⁵	46
CS-34+32	5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16	34	32	14.25	3.5	4.5	M4	2.5	3	1	≤0.18	±0.1	10,000	8,100	8.0×10 ⁻⁵	55
CS-39+34.5	8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19	39	34.5	14.9	4.5	5	M4	2.5	6	0.1	≤0.23	±0.1	10,000	18,000	2.2×10 ⁻⁴	81
CS-44+34.5	8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24	44	34.5	14.9	4.5	5	M4	2.5	9	0.1	≤0.27	±0.1	10,000	20,000	2.8×10 ⁻⁴	99

Specification Table — Medium Sizes (Φ50 – Φ82)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	S	F	Clamp Screw	Screw Torque (N·m)	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Inertia (kg·m ²)	Weight (g)
CS-50+41	8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24	50	41	18.1	4.8	5.8	M5	5	18	0.1	≤0.30	±0.1	10,000	32,000	2.5×10 ⁻³	135
CS-56+45	10, 12, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32	56	45	19.75	5.5	6.4	M5	5	25	0.1	≤0.36	±0.1	10,000	50,000	1.2×10 ⁻²	217
CS-64+53	12, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38	64	53	23.35	6.7	7.7	M6	8	60	0.1	≤0.4	±0.4	9,000	70,000	1.5×10 ⁻²	348
CS-82+68	17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	82	68	30	8.0	9.7	M8	20	80	0.1	≤0.5	±0.8	8,000	140,000	1.4×10 ⁻¹	689

Specification Table — Large Sizes (Φ94 – Φ126)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	S	F	Clamp Screw	Screw Torque (N·m)	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Inertia (kg·m ²)	Weight (g)
CS-94+68	19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 43, 44, 45	94	68	30	8.0	10	M10	40	165	0.1	≤0.7	±0.8	8,000	120,000	1.23×10 ⁻¹	960
CS-104+70	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 43, 44, 45, 46, 47, 48	104	70	30	10.0	10	M10	40	235	0.1	≤0.8	±0.8	8,000	120,000	1.85×10 ⁻¹	1,200
CS-126+78	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 43, 44, 45, 46, 47, 55	126	78	33	12.0	12	M12	75	350	0.1	≤0.9	±0.9	7,500	135,000	3.75×10 ⁻¹	1,560

Model Naming Convention

CS-d1+d2 — where **CS** = Aluminum Single Diaphragm Clamp series, **d1** = input bore diameter (mm), **d2** = output bore diameter (mm).

Example: CS-32+28 indicates input bore Φ32 mm, output bore Φ28 mm.

For keyway or non-standard bores, add suffix (e.g., CS-32+28-8K+9K for inward keyway).

CRO-CD Series — Aluminum Single Diaphragm Clamp (Extended)

CRO-CD

Extended-length Aluminum Single Diaphragm Clamp-Type Coupling

Features: Same operating principle as CRO-CS, but with extended body length and larger flange dimensions. Greater torque capacity and larger misalignment allowances at the same outer diameter. Ideal for heavy-duty applications where the standard CS length is insufficient.

Body Material: High-strength Aluminum (anodized)

Diaphragm: 304 Stainless Steel

Connection: Clamp type

Backlash: Zero

Applications: Heavy-duty CNC machines, metal cutting main drives, large laser cutting equipment, heavy automated production lines

Key Parameters	
Outer Dia. (ΦD)	19 – 126 mm
Total Length (L)	27 – 110 mm
Bore Range	3 – 78 mm
Rated Torque	1 – 6,750 N·m
Max Speed	8,000 – 50,000 rpm
Torsional Stiffness	9.1×10 ² – 3.95×10 ⁷ N·m/rad

Specification Table — Small Sizes (Φ19 – Φ39)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	LP	S	F	Clamp Screw	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Weight (g)
CD-19+27	3, 4, 5, 6, 6.35, 7, 8	19	27	9.1	5.2	1.8	3.3	M2.5	1	0.12	≤0.18	±0.10	50,000	700	14.6
CD-26+35	5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12	26	35	11.35	7.1	2.5	3.9	M3	1.5	0.15	≤0.18	±0.10	10,000	1,850	37
CD-28+32.2	5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12, 14	28	32.2	9.5	8.2	2.5	3.85	M3	1.5	0.15	≤0.18	±0.10	8,000	2,500	45
CD-32+41	5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12, 12.7, 14	32	41	12.25	9.5	3.5	3.85	M3	2	0.17	≤0.18	±0.10	10,000	2,850	67
CD-34+45	5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12, 12.7, 14, 15	34	45	14.25	9.5	3.5	4.5	M4	3	0.17	≤0.18	±0.10	10,000	4,050	77
CD-39+50	8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19	39	50	14.9	11.2	4.5	5.0	M4	6	0.22	≤0.36	±0.10	10,000	9,000	118

Specification Table — Medium & Large Sizes (Φ44 – Φ126)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	LP	S	F	Clamp Screw	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Weight (g)
CD-44+50	8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24	44	50	14.9	11.2	4.5	5.0	M4	9	0.22	≤0.36	±0.10	10,000	10,000	144
CD-50+57	8, 9, 9.525, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24	50	57	18.6	10.2	4.8	5.8	M5	18	0.23	≤0.54	±0.10	10,000	16,000	235
CD-56+64	10, 12, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32	56	64	19.75	13.5	5.5	6.4	M5	25	0.27	≤0.72	±0.10	10,000	25,000	318
CD-68+75	12, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38	68	75	23.35	15.7	6.7	7.7	M6	60	0.31	≤0.8	±0.4	9,000	35,000	492
CD-82+98	17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	82	98	30	22	8.0	9.7	M8	80	0.55	≤0.8	±0.8	8,000	70,000	1,013
CD-94+98	19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 43, 44, 45	94	98	30	22	8.0	10	M10	165	0.55	≤1.3	±0.8	8,000	50,000	1,502
CD-104+102	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 43, 44, 45, 46, 47, 48	104	102	30	22	10.0	10	M10	235	0.55	≤1.3	±0.8	8,000	60,000	1,650
CD-126+110	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 43, 44, 45, 46, 47, 55	126	110	33	20	12.0	12	M12	350	0.60	≤1.3	±0.9	8,000	67,500	1,980

Model naming: **CD-d1+d2** — CD = Extended Diaphragm Clamp series. Same bore convention as CS series. Select CD when CS standard length is insufficient or higher torque margin is required at the same outer diameter.

CRO-CFC Series — Aluminum Plum (Jaw) Clamp

CRO-CFC

Aluminum Plum (Jaw) Coupling, Clamp Type

Features: High-strength aluminum body (one-piece CNC machined) with TPU polyurethane elastomer spider (plum insert) and 304 stainless steel center plate. Compact, low inertia, zero backlash transmission. **Removable design** allows replacement of the TPU spider without replacing the entire coupling.

Body Material: High-strength Aluminum (anodized)

Center Plate: 304 Stainless Steel

Elastomer: TPU Polyurethane (replaceable spider)

Connection: Clamp type

Electrical Insulation: Yes (TPU provides isolation)

Applications: CNC servo systems, semiconductor equipment, robotics, packaging/textile machinery, conveyors, UV printers (Z-axis), cost-sensitive automation

Key Parameters	
Outer Dia. (ΦD)	14 – 120 mm
Total Length (L)	22 – 160 mm
Bore Range	3 – 78 mm
Rated Torque	0.2 – 5,200 N-m
Max Speed	3,000 – 46,000 rpm
Torsional Stiffness	20 – 4,600 N-m/rad

Specification Table — Small Sizes (Φ14 – Φ30)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	LP	S	Clamp Screw	Screw Torque (N-m)	Rated Torque (N-m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N-m/rad)	Weight (g)
CFC-14+22	3, 4, 5, 6, 6.35	14	22	14.3	6.6	3.8	M2.5	0.8	0.2	1	≤0.6	±0.02	46,000	20	10
CFC-20+25	3, 4, 5, 6, 6.35, 7, 8, 9, 9.525, 10	20	25	16.8	8.6	4.6	M3	1.2	0.2	1	≤0.6	±0.02	15,000	46	15
CFC-20+30	3, 4, 5, 6, 6.35, 7, 8, 9, 9.525, 10	20	30	19.25	8.6	5.4	M3	1.2	0.2	1	≤0.6	±0.02	15,000	46	19
CFC-25+30	4, 5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12	25	30	20.82	11.6	4.6	M4	2.5	0.6	1	≤0.6	±0.02	16,000	65	33
CFC-25+34	4, 5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12	25	34	22.82	11.6	5.6	M4	2.5	0.6	1	≤0.6	±0.02	16,000	65	42
CFC-30+35	4, 5, 6, 6.35, 7, 8, 9, 9.525, 10, 11, 12	30	35	23.25	12.7	5.6	M4	2.5	1	1	≤0.6	±0.02	15,000	72	50

Specification Table — Medium Sizes (Φ40 – Φ55)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	LP	S	Clamp Screw	Screw Torque (N-m)	Rated Torque (N-m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N-m/rad)	Weight (g)
CFC-40+40	5, 6, 6.35, 7, 8, 9, 10, 11, 12, 12.7, 14, 15, 16	40	40	25.5	10.9	7.0	M4	2.5	6.5	1	≤0.6	±0.02	12,000	72	60
CFC-40+50	5, 6, 6.35, 7, 8, 9, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19	40	50	32.1	13.7	6.7	M5	5	32	0.02	≤0.8	±0.02	10,000	450	127
CFC-40+55	6, 8, 9, 10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24	40	55	34.5	13.7	7.2	M5	5	32	0.02	≤0.8	±0.02	10,000	450	154
CFC-55+49	10, 11, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 24, 25, 28, 30, 32	55	49	32.0	16.1	6.5	M6	8	46	0.02	≤0.8	±0.02	8,000	1,200	241
CFC-55+78	8, 10, 12, 12.7, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32	55	78	46.4	16.1	10.3	M6	8	46	0.02	≤0.8	±0.02	8,000	1,200	341

Specification Table — Large Sizes (Φ80 – Φ120)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	LP	S	Clamp Screw	Screw Torque (N·m)	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Weight (g)
CFC-80+114	14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40	80	114	68.0	22.5	14.0	M8	20	109	0.02	≤1.0	±0.02	6,000	2,800	433
CFC-95+90	15, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45	95	90	53.5	16.7	11.9	M8	20	109	0.02	≤1.0	±0.02	6,000	2,800	583
CFC-105+140	22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60, 65	105	140	83.2	24.0	15.0	M10	40	420	0.02	≤1.0	±0.02	3,800	3,400	1,650
CFC-120+160	22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60, 65	120	160	93.7	27.4	26	M12	75	520	0.02	≤1.0	±0.02	3,000	4,600	3,230

Model naming: **CFC-d1+d2** — CFC = Aluminum Plum (Jaw) Clamp series. TPU spider is replaceable — no need to replace the entire coupling when the elastomer wears. Lighter and more economical than the stainless steel FZG series (~1/3 lighter, ~1/3 cheaper).

CRO-FZG Series — Stainless Steel Plum (Jaw) Sleeve

CRO-FZG

Stainless Steel Plum (Jaw) Coupling, Sleeve (Locking) Type

Features: 304 stainless steel body with TPU polyurethane elastomer spider. Uses **locking sleeve (expanding bushing)** connection for zero-backlash clamping on the shaft. Superior corrosion resistance, high rigidity, and fast response. Suitable for sanitary, corrosive, and humid environments.

Body Material: 304 Stainless Steel
Elastomer: TPU Polyurethane (replaceable spider)
Connection: Locking sleeve (expanding bushing)
Backlash: Zero

Corrosion Resistance: Excellent (304 SS)
Applications: Food processing machinery, medical/pharmaceutical equipment, chemical industry, marine equipment, outdoor automation, high-response positioning systems

Key Parameters	
Outer Dia. (ΦD)	30 – 120 mm
Total Length (L)	50 – 160 mm
Bore Range	9.5 – 65 mm
Rated Torque	14.8 – 1,040 N·m
Max Speed	2,800 – 20,000 rpm
Torsional Stiffness	510 – 7,200 N·m/rad

Specification Table — Small & Medium Sizes (Φ30 – Φ65)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	Clamp Screw	Screw Torque (N·m)	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Weight (g)
FZG-30+50	9.9, 10, 11, 12, 12.7, 14	30	50	30.6	M3	1.2	14.8	0.8	≤0.6	±0.02	20,000	510	115
FZG-35+55	9.9, 10, 12, 12.7, 14, 15, 16	35	55	33.3	M4	2.5	16	0.8	≤0.6	±0.02	18,000	510	185
FZG-40+55	10, 12, 12.7, 14, 15, 16, 17, 18, 19	40	55	34.5	M4	2.5	19	0.8	≤0.8	±0.02	18,000	520	250
FZG-40+66	10, 12, 14, 15, 16, 17, 18, 19, 20, 22	40	66	40	M4	2.5	19	0.8	≤0.8	±0.02	18,000	550	280
FZG-55+78	12, 14, 15, 16, 17, 18, 19, 20, 22	55	78	46.4	M5	5	68	0.8	≤0.8	±0.02	13,000	1,510	700
FZG-65+90	14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28	65	90	53.5	M5	5	190	0.8	≤0.8	±0.02	10,500	2,800	1,100

Specification Table — Large Sizes (Φ80 – Φ120)

Model	Common Bore d1, d2 (mm)	ΦD	L	LF	Clamp Screw	Screw Torque (N·m)	Rated Torque (N·m)	Ang. (°)	Par. (mm)	Axial (mm)	Max Speed (rpm)	Torsional Stiffness (N·m/rad)	Weight (g)
FZG-80+114	19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 45	80	114	68	M6	8	270	0.8	≤0.8	±0.02	8,600	3,600	1,850
FZG-95+126	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 45, 48, 50	95	126	75	M8	20	440	0.8	≤1.0	±0.02	7,200	4,700	5,680
FZG-105+140	22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 50	105	140	83.2	M8	20	720	0.8	≤1.0	±0.02	5,800	5,800	7,730
FZG-120+160	24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 50, 60, 65	120	160	93.7	M10	40	1,040	0.8	≤1.0	±0.02	7,200	7,200	9,300

Model naming: **FZG-d1+d2** — FZG = Stainless Steel Plum Sleeve series. The locking sleeve mechanism uses tapered rings that contract radially when bolts are tightened, providing a more reliable shaft connection than keyway and easier disassembly than press-fit.

Series Comparison & Selection Guide

Performance Comparison Matrix

Dimension	CRO-CS	CRO-CD	CRO-CFC	CRO-FZG
Zero Backlash	★★★★★	★★★★★	★★★★☆	★★★★☆
Torsional Rigidity	★★★★★	★★★★★	★★★☆☆	★★★★☆
Response Speed	★★★★★	★★★★★	★★★☆☆	★★★★☆
Vibration Damping	☆☆	☆☆	★★★★★	★★★★☆
Parallel Misalignment Compensation	☆☆	★★☆☆	★★★☆☆	★★★☆☆
Angular Misalignment Compensation	★★★☆☆	★★★☆☆	★★★☆☆	★★★★☆
Corrosion Resistance	★★☆☆	★★☆☆	★★☆☆	★★★★★
Lightweight	★★★★☆	★★★☆☆	★★★★★	★★☆☆
Cost Effectiveness	★★★★☆	★★★☆☆	★★★★★	★★☆☆

Application-Based Selection Matrix

Application Scenario	Recommended Series	Reason
Servo motor + precision lead screw	CRO-CS	Zero backlash, lightweight aluminum, cost-effective
High-torque servo system	CRO-CD	Extended length, larger torque margin
General motor drive with vibration damping	CRO-CFC	TPU elastomer absorbs vibration, economical
Stainless steel / sanitary / corrosive environment	CRO-FZG	304 SS body, excellent corrosion resistance
Large parallel misalignment	CRO-HC	Cross slider (Oldham) specializes in parallel offset
Rotary encoder mounting	CRO-IC / CRO-B	Beam coupling, zero backlash, encoder-specific
UV printer X/Y/Z axes	CRO-CS / CRO-CFC	X/Y: diaphragm for high-frequency reversal; Z: plum for smooth lift
Ultra-high torque	CRO-NB / MB / SZ / LZ	8-screw or 45# steel construction

Misalignment Compensation Comparison

Series	Angular Misalignment	Parallel Misalignment	Axial Misalignment
CRO-CS	0.1° – 1°	≤0.09 – 0.9 mm	±0.009 – 0.9 mm
CRO-CD	0.12° – 0.6°	≤0.18 – 1.3 mm	±0.1 – 0.9 mm
CRO-CFC	0.02° – 2°	≤0.6 – 1.0 mm	±0.02 mm
CRO-FZG	0.8° – 2°	≤0.6 – 1.0 mm	±0.02 mm

Model Naming Convention

Code	Series Type	Material	Connection
CS / CD	Diaphragm Clamp (CD = Extended)	Aluminum	Clamp
CFC / FC	Plum (Jaw) Clamp	Aluminum	Clamp
FZ / FZG	Plum (Jaw) Sleeve	304 SS	Sleeve (Locking)
HC / HCG	Cross Slider (Oldham)	Aluminum / 304 SS	Clamp
IC / IB	Beam (Parallel)	Aluminum	Clamp / Set Screw
ICG / IG	Beam (Parallel) SS	304 SS	Clamp / Set Screw
B / BB / BG	Encoder-specific	Aluminum / 304 SS	Clamp
SE / LF / CW	High-sensitivity Diaphragm	Aluminum	Clamp
NB / MB / ST8 / LT8	8-screw High-rigidity Diaphragm	Aluminum	Clamp
SZ / LZ	45# Steel Diaphragm	45# Steel	Clamp

Material suffix: G = Stainless Steel / High-rigidity, S = Stainless (Stainless), C = Clamp, Z = Sleeve. Bore convention: CRO-[type]-d1+d2, where d1 = input bore (mm), d2 = output bore (mm).

Contact Us

For inquiries, custom specifications, OEM/ODM, or export orders

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