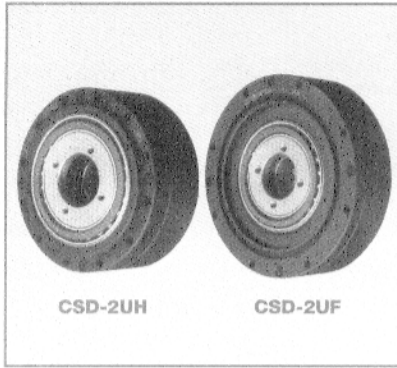


# CSD系列 CSD Series



- 超薄型形状
- 中空结构
- 高定位精度
- 高负载容量

- Super thin
- Hollow structure
- High repeatability
- High load capacity

新型Harmonic Drive®CSD系列顺应市场要求实现了大胆创新的小型化。CSD-2UH体积比转矩容量相同的CSF系列更小。CSD-2UF为中空结构，输出侧轴承的负载容量是SHD系列同型号的约2倍。

By fulfilling the needs of the market, the new Harmonic Drive® CSD series has realized more compact components in a dramatic way. CSD-2UH is more compact than the CSF series of the equivalent torque capacity. CSD-2UF has a hollow structure with a load capacity of output side bearing twice as large as the same model no. product from the SHD series.

寿命: 7,000小时  
Life: 7,000h

## ■ CSD系列额定表 CSD Series Ratings

### ▶ CSD-2UH

项目 Item	减速比 Reduction Ratio	输入2000r/min时的额定转矩 Rated Torque at 2000r/min		起动·停止时的容许最大转矩 Allowable Peak Torque at Start and Stop		瞬间容许最大转矩 Allowable Maximum Momentary Torque	
		Nm	kgfm	Nm	kgfm	Nm	kgfm
14	50	3.7	0.38	12	1.2	24	2.4
	100	5.4	0.55	19	1.9	35	3.6
17	50	11	1.1	23	2.3	48	4.9
	100	16	1.6	37	3.8	71	7.2
20	50	17	1.7	39	4.0	69	7.0
	100	28	2.9	57	5.8	95	9.7
	160	28	2.9	64	6.5	95	9.7
25	50	27	2.8	69	7.0	127	13
	100	47	4.8	110	11	184	19
	160	47	4.8	123	13	204	21
32	50	53	5.4	151	15	268	27
	100	96	10	233	24	420	43
	160	96	10	261	27	445	45
40	50	96	10	281	29	480	49
	100	185	19	398	41	700	71
	160	206	21	453	46	765	78
50	50	172	18	200	51	1000	102
	100	329	34	686	70	1440	147
	160	370	38	823	84	1715	175

### ▶ CSD-2UF

项目 Item	减速比 Reduction Ratio	输入2000r/min时的额定转矩 Rated Torque at 2000r/min		起动·停止时的容许最大转矩 Allowable Peak Torque at Start and Stop		瞬间容许最大转矩 Allowable Maximum Momentary Torque	
		Nm	kgfm	Nm	kgfm	Nm	kgfm
14	50	3.7	0.38	12	1.2	24	2.4
	100	5.4	0.55	19	1.9	35	3.6
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	160	206	21	453	46	765	78

## ■ 交叉滚子·轴承规格 Cross Roller Bearing Specification

### ▶ CSD-2UH

项目 Item	基本额定负载 Basic Rated Load				容许静力矩Mc Allowable Moment Load Mc		转动刚性Km Moment Stiffness Km	
	基本动态额定负载C Basic Dynamic Rated Load C		基本静态额定负载Co Basic Static Rated Load Co		Nm	kgfm	x10 <sup>4</sup> Nm/rad	kgfm/arc min
	x10 <sup>2</sup> N	kgf	x10 <sup>2</sup> N	kgf				
14	47	480	60.7	620	41	4.2	4.38	1.3
17	52.9	540	75.5	770	64	6.5	7.75	2.3
20	57.8	590	90	920	91	9.3	12.8	3.8
25	96.0	980	151	1540	156	16	24.2	7.2
32	150	1530	250	2550	313	32	53.9	16
40	213	2170	365	3720	450	46	91	27
50	348	3550	602	6140	759	77	171	51

### ▶ CSD-2UF

14	57.8	590	90	920	91	9.3	12.8	3.8
17	104	1060	163	1670	124	12.6	15.4	4.6
20	146	1490	220	2250	187	19.1	25.2	7.5
25	218	2230	358	3660	258	26.3	39.2	11.6
32	382	3900	654	6680	580	59.1	100	29.6
40	433	4410	816	8330	849	86.6	179	53.2

基本动态额定负载: 是指轴承的基本动态额定寿命为100万转的恒定静负载。

基本静态额定负载: 是指轴承承受最大负载的转动体和轨道接触部中心在固定水平接触应力40kN/mm<sup>2</sup>的静态负载。

\*Basic dynamic rated load is a constant static radial load that achieves a basic dynamic rated life of the bearing of one million revolutions.

\*Basic static rated load is a static load that achieves a contact stress of a constant level (40kN/mm<sup>2</sup>) at the center of a contact zone between the rolling element(s) covering a maximum load track.

## 主要应用领域 Main Application Target

- 机器人
- 人型机器人
- 金属机床
- 印刷·装订·纸制品加工机械
- 木材·轻金属·塑料机床
- 印刷电路制造设备
- Robots
- Humanoid robots
- Metal machine tools
- Printing, bookbinding and paper processing machines
- Wood, light metal and plastic working machines
- Printed circuit board manufacturing machines