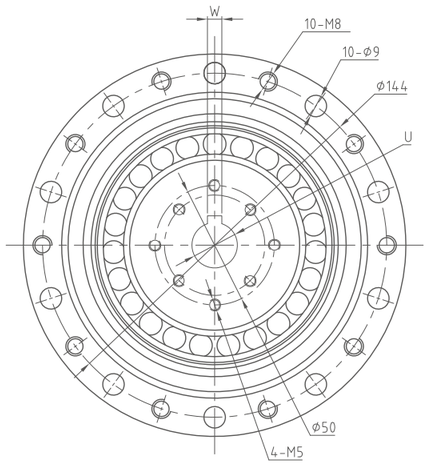
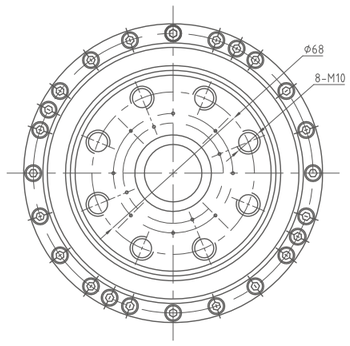
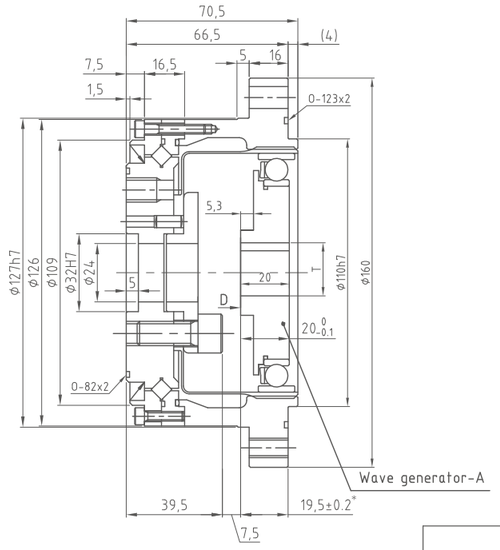
CG-40-XX-U-I

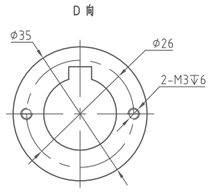
40型谐波减速器 40 harmonic reducer

结构图 STRUCTURE CHART









型号/MODEL	U	T	W
Wave generator-A φ14	φ14H7	16.3 +0.1 0	5JS9/P9
Wave generator-A φ19	φ19H7	21.8 +0.1 0	6JS9/P9
Wave generator-A φ22	φ22H7	24.8 +0.1 0	6JS9/P9
		25.3 +0.1 0	8JS9/P9

LFB SERIES

低噪音 Low noise　大扭力 Large torque

高精度 High-precision

耐磨耐用 Wear resistance and durability

使用寿命长 Long service life

LFB系列谐波减速器

LFB series harmonic reducer



SERIES INTRODUCTION
系列介绍



LFB 系列Series

运用小型号实现轻便型组件化产品，超扁平采用交叉滚子轴承。

研发了与高性能小型电机组合而成的减速机，相同齿轮条件下，拥有最高的输入特性。

A combination product that with light weight, ultra-flat. Using cross-roller bearing.

Combined gearbox reducer with the high-performance small motor, with the highest input characteristics under the same gear conditions.

应用领域 Application

工业机器人 Industrial robots

服务机器人 Service robots

医疗器械设备 Medical Devices

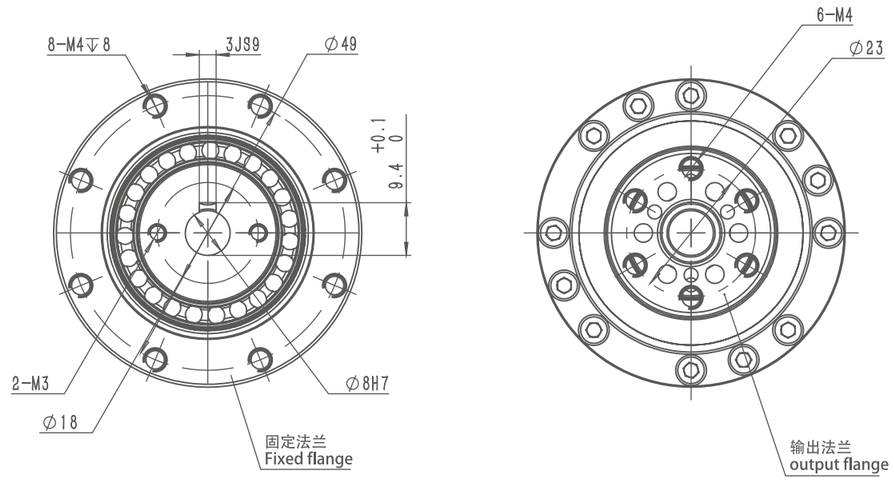
自动化及特种设备 Automation and special equipment

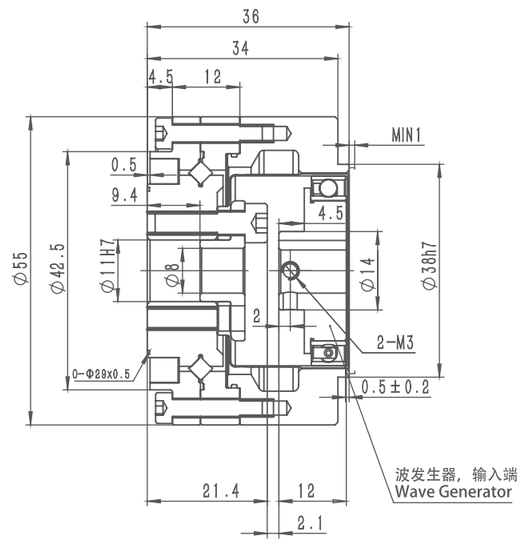
LFB系列额定参数表 Rated parameter table of LFB series

型号 Model	速比 Reduction ratio	输入2000r/min时的额定转矩 Rated torque at 2000r/min input		起动停止时的容许峰值转矩 Permissible peak torque at start and stop		平均负载转矩的容许最大值 Permissible maximum value for average load torque		瞬间容许最大转矩 Permissible maximum momentary torque		容许最高输入转速（脂润滑） Permissible maximum input rotational speed (Grease)	容许平均输入转速（脂润滑） Permissible average input rotational speed (Greaae)	背隙 Backlash	设计寿命 Desian life
		Nm	kgfm	Nm	kgfm	Nm	kgfm	Nm	kgfm	r/min	r/min	Arc Sec	Hour
14	50	5.4	0.55	18	1.8	6.9	0.70	35	3.6	8500	3500	≤20	10000
	80	7.8	0.80	23	2.4	11	1.1	47	4.8				15000
	100	7.8	0.80	28	2.9	11	1.1	54	5.5				15000
	120	7.8	0.80	28	2.9	11	1.1	54	5.5				15000
17	50	16	1.6	34	3.5	26	2.6	70	7.1	7300	3500	≤20	10000
	80	22	2.2	43	4.4	27	2.7	87	8.9				15000
	100	24	2.4	54	5.5	39	4.0	108	11				15000
	120	24	2.4	54	5.5	39	4.0	86	8.8				15000

LFB-14-XX-U-I

谐波减速器 harmonic reducer　　结构图 STRUCTURE CHART

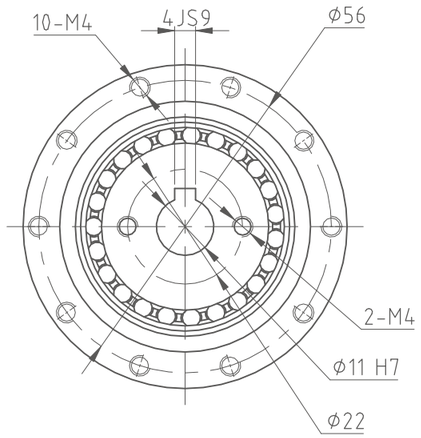


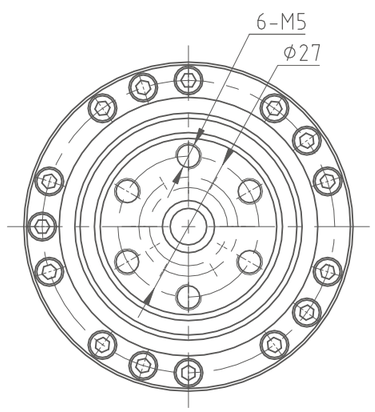


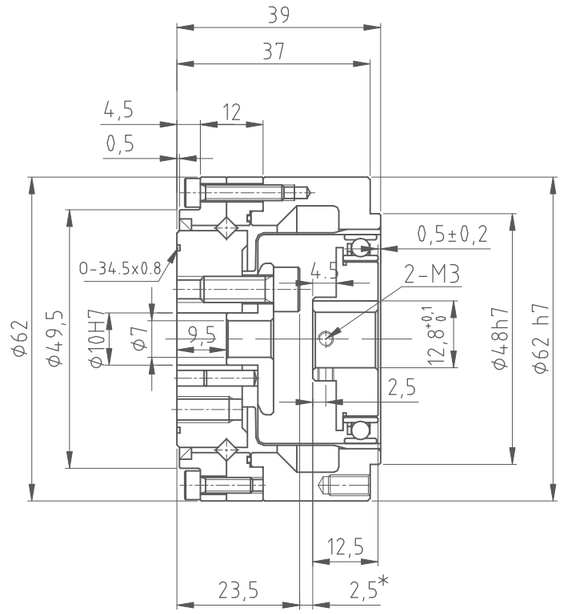
LFB-17-XX-U-I

17型谐波减速器 17 harmonic reducer

结构图 STRUCTURE CHART







CD SERIES

CD系列谐波减速器
CD series harmonic reducer

低噪音 Low noise
大扭力 Large torque
高精度 High-precision
耐磨耐用 Wear resistance and durability
使用寿命长 Long service life





SERIES INTRODUCTION
系列介绍

CD 系列Series

CD系列是根据市场化需求而研发的小型化产品， CD系列相比转矩容量相同的 CS系列，更为紧凑，薄壁结构，在不改变性能的状态下，追求小型号，并把“小而美”发挥的淋漓尽致。

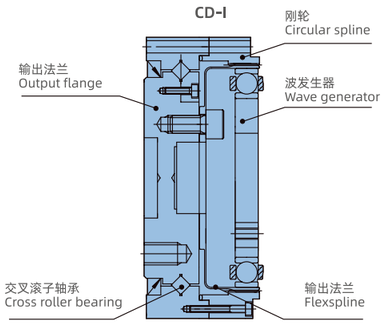
This miniaturized product was developed according to the marketing demand. Compare with CS series that with the same torque capacity, CD series is more compact and thin-walled, smaller size.

应用领域 Application

- 工业机器人 Industrial robots
- 服务机器人 Service robots
- 金属机床 Metal machine tools
- 印刷电路制造设备 Printed circuit manufacturing equipment
- 木材、轻金属、塑料机床 Wood, light metal, plastic machine tools



CD系列组合型结构
Combinative structure of CD series



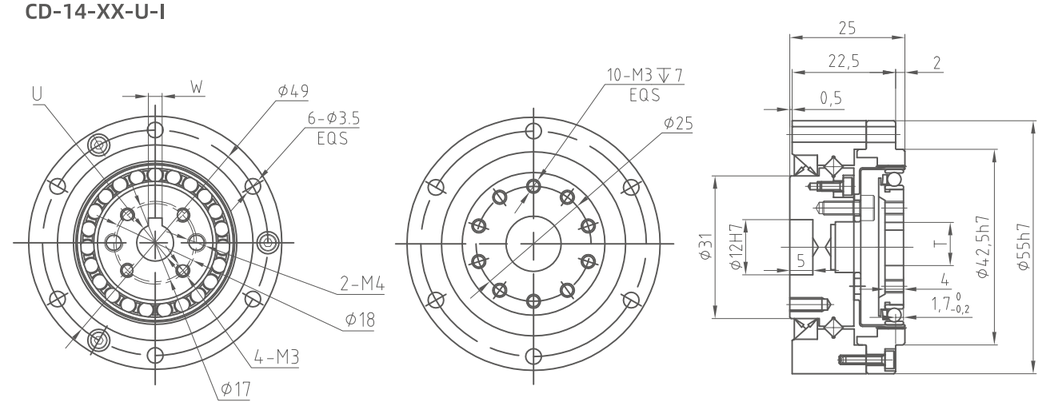
CD系列额定参数表 Rated parameter table of CD series

型号 Model	速比 Reduction ratio	输入2000r/min时的额定转矩 Rated torque at 2000r/min input		起动停止时的容许峰值转矩 Permissible peak torque at start and stop		平均负载转矩的容许最大值 Permissible maximum value for average load torque		瞬间容许最大转矩 Permissible maximum momentary torque		容许最高输入转速（脂润滑） Permissible maximum input rotational speed (Grease)	容许平均输入转速（脂润滑） Permissible average input rotational speed (Greaae)	背隙 Backlash	设计寿命 Desian life
		Nm	kgfm	Nm	kgfm	Nm	kgfm	Nm	kgfm	r/min	r/min	Arc Sec	Hour
14	50	3.7	0.38	12	1.2	4.8	0.49	24	2.4	8500	3500	≤20	9000
	80	4.2	0.43	16	1.6	5.9	0.6	31	3.1				10000
	100	5.4	0.55	19	1.9	7.7	0.79	35	3.6				10000
17	50	11	1.1	23	2.3	18	1.9	48	4.9	7300	3500	≤20	9000
	80	14	1.4	30	0.3	21	2.1	58	5.9				10000
	100	16	1.6	37	3.8	27	2.8	71	7.2				10000
20	50	17	1.7	39	4	24	2.4	69	7	6500	3500	≤20	9000
	80	21	2.1	46	4.7	30	3.1	81	0.8				10000
	100	28	2.9	57	5.8	34	3.5	95	9.7				10000

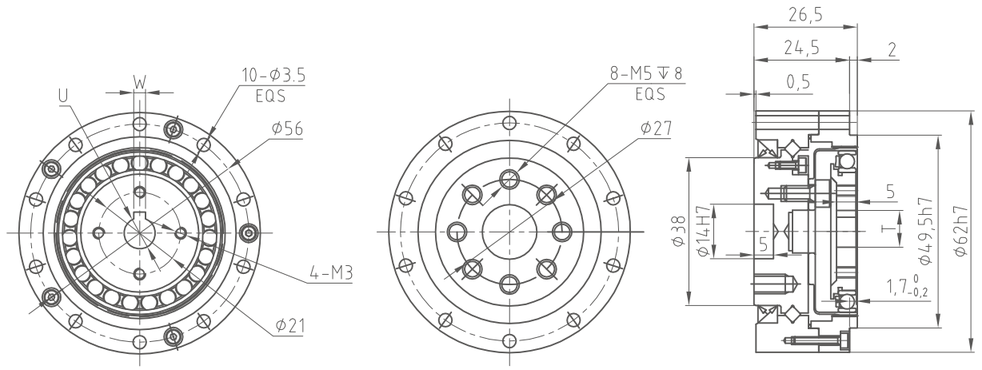
CD-I

结构图 STRUCTURE CHART

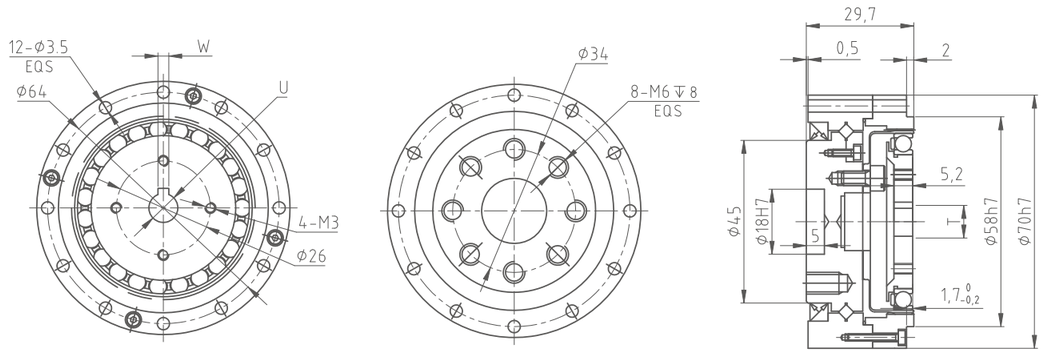
CD-14-XX-U-I



CD-17-XX-U-I



CD-20-XX-U-I



FS SERIES

低噪音 Low noise　大扭力 Large torque
高精度 High-precision
耐磨耐用 Wear resistance and durability
使用寿命长 Long service life

FS系列谐波减速器
FS series harmonic reducer



SERIES INTRODUCTION
系列介绍





FS-I 系列 Series

运用小型号实现轻便型组件化产品，超扁平采用交叉滚子轴承。

A combination product that with light weight, ultra-flat. Using cross-roller bearing.

FS 一体机 Integrated series

研发了与高性能小型电机组合而成的减速机，相同齿轮条件下，拥有最高的输入特性。

Combined gearbox reducer with the high-performance small motor, with the highest input characteristics under the same gear conditions.

应用领域 Application

工业机器人 Industrial robots
服务机器人 Service robots
医疗器械设备 Medical Devices
自动化及特种设备 Automation and special equipment

FS系列额定参数表 Rated parameter table of FS series

型号 Model	速比 Reduction ratio	输入2000r/min时的额定转矩 Rated torque at 2000r/min input		起动停止时的容许峰值转矩 Permissible peak torque at start and stop		平均负载转矩的容许最大值 Permissible maximum value for average load torque		瞬间容许最大转矩 Permissible maximum momentary torque		容许最高输入转速（脂润滑） Permissible maximum input rotational speed (Grease)	容许平均输入转速（脂润滑） Permissible average input rotational speed (Greaae)	背隙 Backlash	设计寿命 Desian life
		Nm	kgfm	Nm	kgfm	Nm	kgfm	Nm	kgfm	r/min	r/min	Arc Sec	Hour
11	80	4.5	0.5	9.9	1.0	8	0.8	22.5	2.3	8500	3500	≤20	7000
	100	5	0.5	11	1.1	8.9	0.9	25	2.5				7000
14	50	5.4	0.55	18	1.8	6.9	0.7	35	3.6	8500	3500	≤20	10000
	80	7.8	0.8	23	2.4	11	1.1	47	4.8				10000
	100	7.8	0.8	28	2.9	11	1.1	54	5.5				10000