苏州绿的谐波传动科技股份有限公司 Leader Harmonious Drive Systems Co.,Ltd



面向未来的新一代谐波减速器

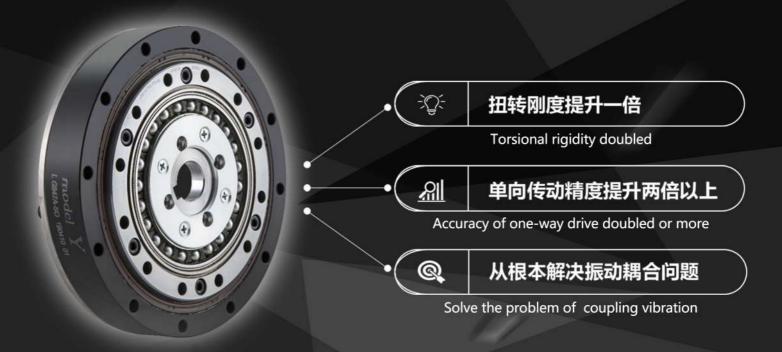
New generation strain wave reducers for the future

Y 系列谐波减速器 model Y

产品介绍手册 Product Introduction Manual

Y系列谐波减速器是世界上首款实现了10弧秒以内传动精度的齿轮减速器

Y series is the first strain wave reducer in the world that achieves transmission accuracy within 10 arc sec



Y 系列谐波减速器 ($model\ Y$) 改进之处 Advantages of model **Y**

新结构与齿形设计

New structure and tooth profile design

Third-harmonic generation(frequency tripling) replaces second -harmonic generation (frequency doubling)

特制材料及热处理工艺 Special material and heat treatment technology

柔轮及轴承的材料和热处理工艺特制

Special material for flex spline and bearing Special heat treatment technology

柔轮的热处理TW工艺

TW technology of heat treatment for flex spline

柔性轴承的TTN工艺

TTN technology of heat treatment for flexible bearing



\mathbf{Y} 系列谐波减速器 ($\mathsf{model}\ \mathbf{Y}$) 与老款的刚度对比

Rigidity of model Y compared with the old models'

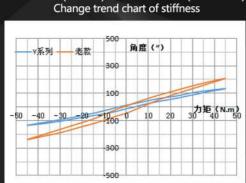
YLHS-25-80(Y系列)与LHSG-25-80(老款)

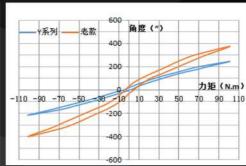
YLHS-20-80(Y系列)与LHSG-20-80(老款)

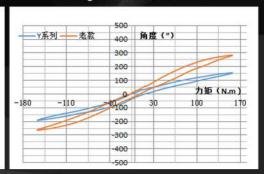
YLHS-20-80(Y series) and LHSG-20-80(old model) YLHS-25-80(Y series) and LHSG-25-80(old model) Change trend chart of stiffness

YLHS-32-80(Y系列)与LHSG-32-80(老款) 刚度数据变化趋势图

YLHS-32-80(Y series) and LHSG-32-80(old model) Change trend chart of stiffness







f Y 系列谐波减速器 ($f model\ f Y$) 与老款的振动对比

Vibration of model Y compared with the old models'

YLHS-20-80(Y系列)与LHSG-20-80(老款) 振幅趋势图 8KG负载

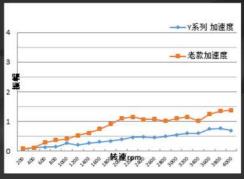
YLHS-20-80(Y series)与LHSG-20-80(old model) Amplitude trend chart Load:8KG

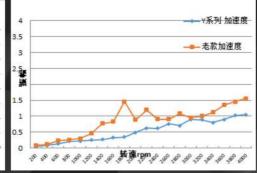
YLHS-25-80(Y系列)与LHSG-25-80(老款) 振幅趋势图 8KG负载

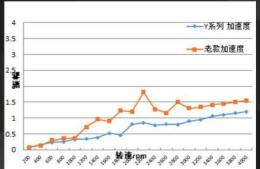
YLHS-25-80(Y series)与LHSG-25-80(old model) Amplitude trend chart Load:8KG

YLHS-32-80(Y系列)与LHSG-32-80(老款) 振幅趋势图 18KG负载

YLHS-32-80(Y series)与LHSG-32-80(old model) Amplitude trend chart Load:18KG





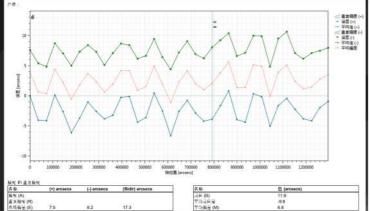


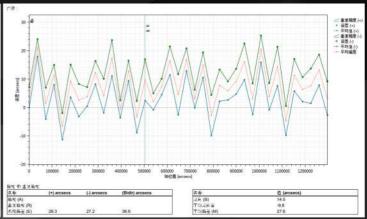
old Y 系列谐波减速器 (old model Y) 与老款的单向传动精度对比

Accuracy of one-way drive model Y compared with the old models'

YLHS-20-80(Y系列) YLHS-20-80(Y series)

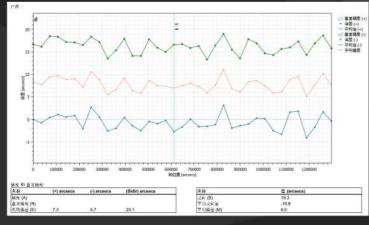
LHSG-20-80(老款) LHSG-20-80(old model)





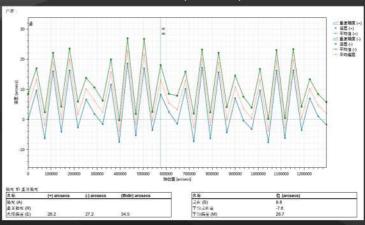
YLHS-25-80(Y系列)

YLHS-25-80(Y series)



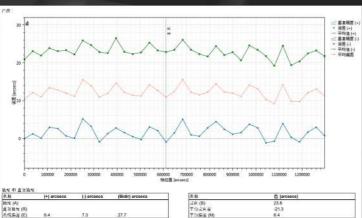
LHSG-25-80 (老款)

LHSG-25-80(old model)



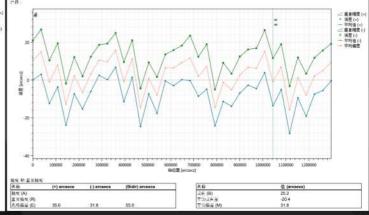
YLHS-32-80(Y系列)

YLHS-32-80(Y series)



LHSG-32-80 (老款)

LHSG-32-80(old model)



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(Model Y) YLHS系列谐波减速器性能参数表												
· 项目	減速比	输入 2000/min 时的额定转 矩	启动、停 止 时的容许 最大转矩	平均负载 转矩的容 许最大值	瞬间容许 最大转矩	容许最高 输入转速	刚性	11 10 10 10 10 10 10 10 10 10 10 10 10 1	双向角度 传达精度	传动 效率	重量	设计寿命
型号人		Nm	Nm	Nm	Nm	r/min	×10 ⁴ Nm/rad	Arc sec	Arc sec	%	Kg	Hour
17	80	20	40	25	108	6000	3.5		4		0.56	10000
	100	23	46	35	134	6000	3.5					10000
20	80	33	66	45	158	6000	5.4				0.76	10000
	100	50	100	60	180	6000	5.4				0.76	10000
25	80	80	160	105	315	5000	9.3					10000
	100	85	170	130	350	5000	9.3		-	_	1.24	10000
	120	85	170	135	376	5000	9.3	≤20	≤40	75 ~ 80		10000
32	80	145	300	200	600	4000	15					10000
	100	170	340	220	700	4000	15				2.6	10000
	120	170	400	250	800	4000	15					10000
40	100	300	600	450	1334	3500	32					10000
	120	330	660	500	1458	3500	32		16		5	10000
	160	350	700	550	1458	3500	32					10000



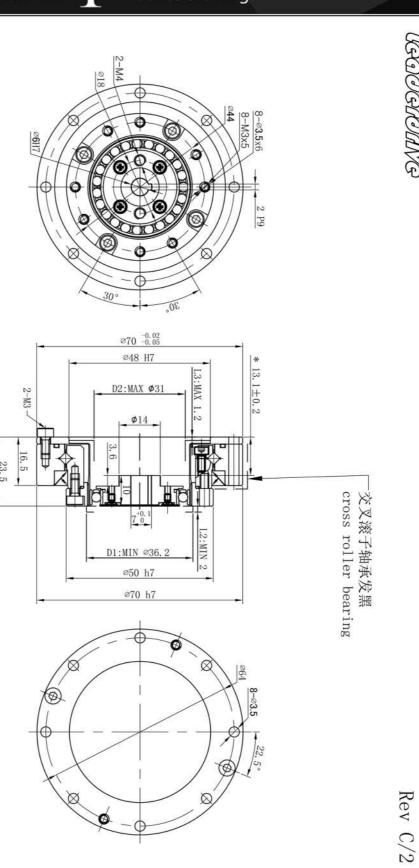
Y 系列谐波减速器 (model old Y) 图纸

model

L2/D1: 与刚轮安装零件避免干涉的最小安全尺寸

与柔轮安装零件避免干涉的最大安全尺寸

L3/D2: maximum dimensions of mating part in order to maintain clearance with flexspline L2/D1:minimum dimensions of mating part in order to maintain clearance with circular spline Series drawings



YLHS-14-XXX-C-I 協設

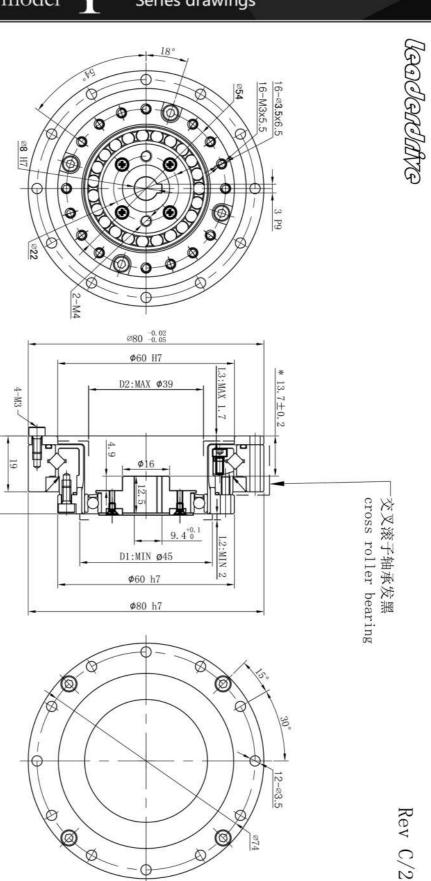
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\mathbf{Y} 系列谐波减速器 ($\mathbf{model}\ \mathbf{Y}$) 图纸

model m Y

Series drawings



YLHS-17-XXX-C-I

L3/D2: maximum dimensions of mating part in order to maintain clearance with flexspline L2/D1:minimum dimensions of mating part in order to maintain clearance with circular spline

与刚轮安装零件避免干涉的最小安全尺寸与柔轮安装零件避免干涉的最大安全尺寸

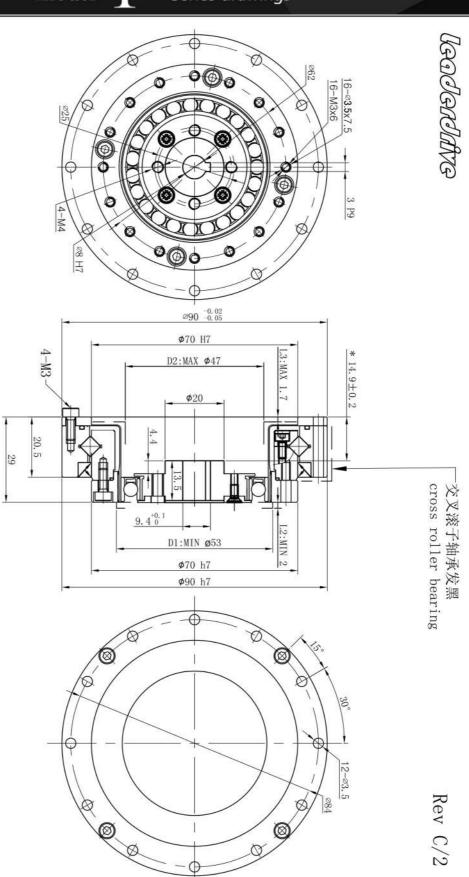
26.5

绿的谐波 lealealalve

\mathbf{Y} 系列谐波减速器 ($\mathbf{model}\ \mathbf{Y}$) 图纸

model \mathbf{Y}

Series drawings



2/D1:与刚轮安装零件避免干涉的最小安全尺寸 3/D2:与柔轮安装零件避免干涉的最大安全尺寸

L3/D2: maximum dimensions of mating part in order to maintain clearance with flexspline L2/D1:minimum dimensions of mating part in order to maintain clearance with circular spline

YLHS-20-XXX-C-I 编的

old Y 系列谐波减速器 ($old model \old Y$) 图纸

model

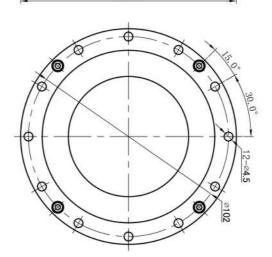
Series drawings

leaderdrive

交叉滚子轴承发黑

16-M4x

Ø110 −0.02 * 17.4±0.2 D2:MAX Ø58 L3:MAX 1 4-M3 cross roller bearing 16. 3 °0. 1 D1:MIN Ø66



与刚轮安装零件避免干涉的最小安全尺寸

L3/D2: 与柔轮安装零件避免干涉的最大安全尺寸

L3/D2: maximum dimensions of mating part in order to maintain clearance with flexspline L2/D1:minimum dimensions of mating part in order to maintain clearance with circular spline

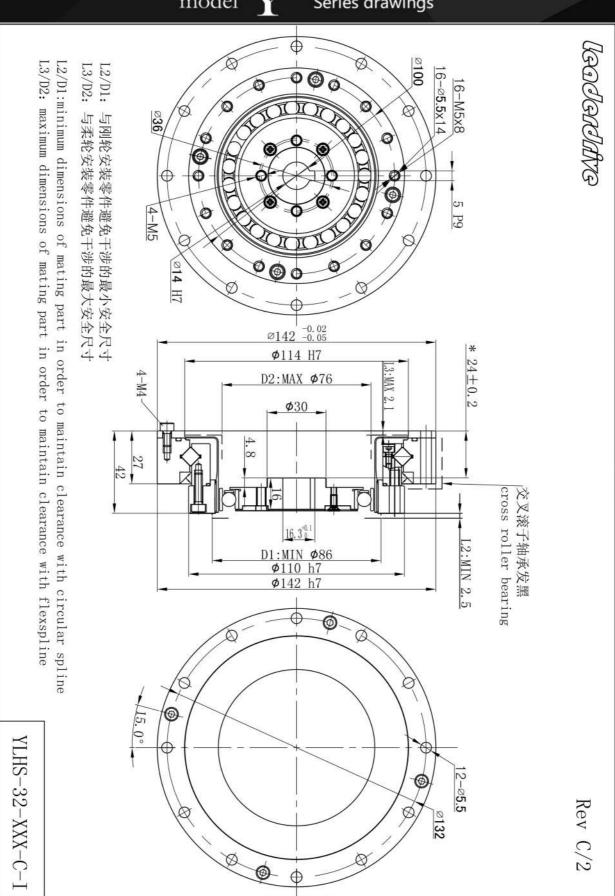
YLHS-25-XXX-C-I

Rev C/2

old Y 系列谐波减速器 ($old model \old Y$) 图纸

model

Series drawings



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\mathbf{Y} 系列谐波减速器 ($\mathrm{model}\ \mathbf{Y}$) 图纸 $\mathrm{model}\ \mathbf{Y}$ Series drawings

les drawings

16-06.6x17 16-M6×10 Ø14 H7 D2:MAX **Ø**90 * 29±0. .3:MAX 2 6-M4-交叉滚子轴承发黑 cross roller bearing 16. 3 0 1 L2:MIN 2. 0

YLHS-40-XXX-C-I

绿的谐波 *leaderdaive*®

YLHS-40-XXX-C-I

L2/D1:minimum dimensions of mating part in order to maintain clearance with circular spline L3/D2: maximum dimensions of mating part in order to maintain clearance with flexspline

与刚轮安装零件避免干涉的最小安全尺寸与柔轮安装零件避免干涉的最大安全尺寸

Rev C/2





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