直线运动及导向产品系列

您正浏览“螺杆系统”手册，其他产品信息详见对应产品手册。
You Are Reading The “Screw System” Manual. For Other Product Information, Please Refer To The Corresponding Product Manual.

WEIYUAN
LINEAR PRODUCT
威远直线运动产品系列

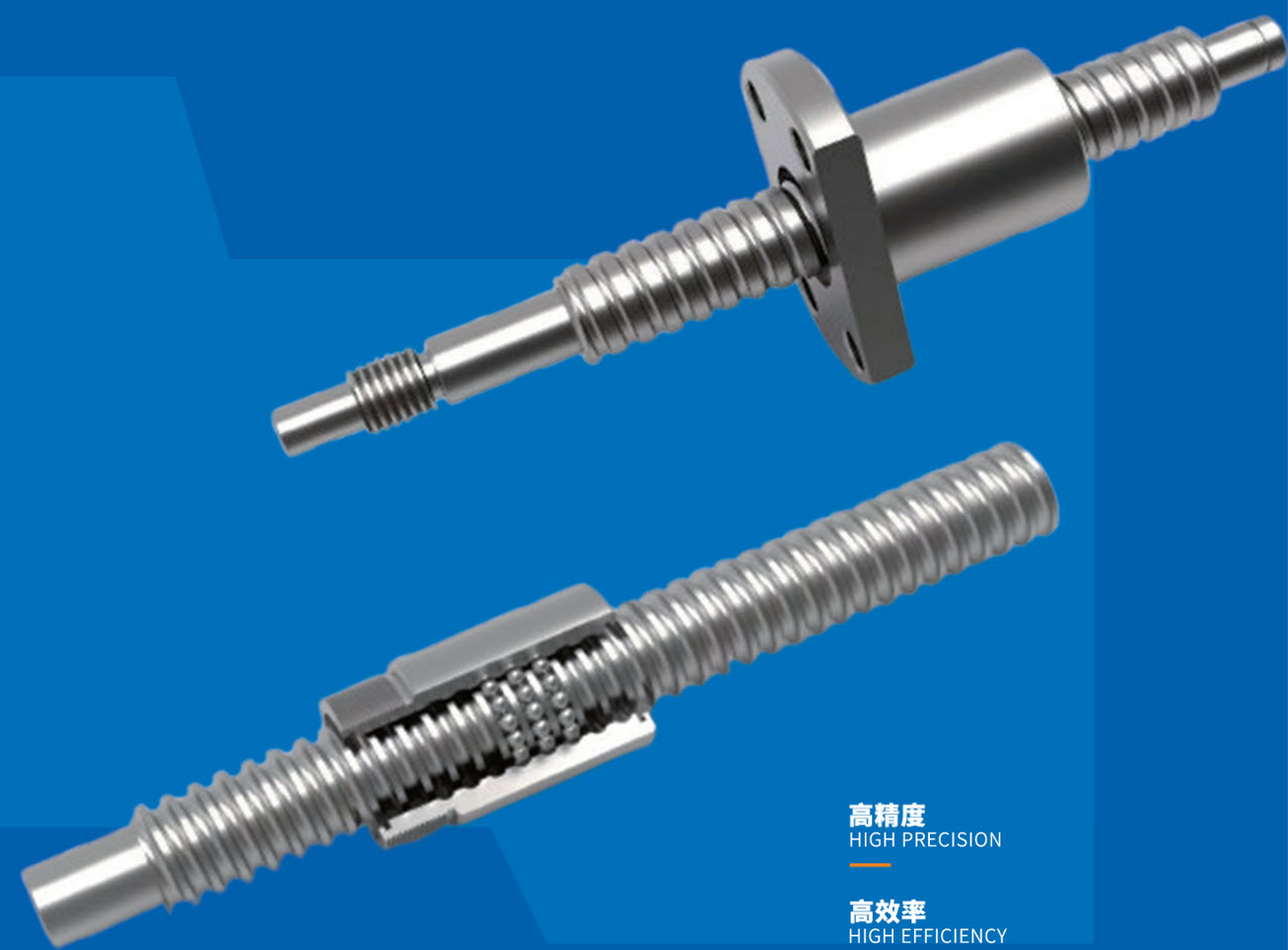
WEIYUAN 威远®

■ 螺杆系统 SCREW SYSTEM
■ 工业机械手 LINEAR MODULE
■ 直线导轨 LINEAR GUIDE
■ 联轴器 COUPLING

微型滚珠丝杠
MINIATURE BALL SCREW

本产品手册表示的技术规格是准确可靠的。用户应仔细认真地确定选用产品的适宜性。若有不详应与我公司技术部门联系。尽管我们将对有缺陷的产品予以更换，但我们不承担超出此种更换以外的任何责任。

The Technical Specifications Indicated In This Product Manual Are Accurate And Reliable. Users Should Carefully Determine The Suitability Of The Selected Product. If There Is Any Uncertainty, Please Contact Our Technical Department. Although We Will Replace Defective Products, We Do Not Accept Any Responsibility Beyond Such Replacement.



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LEADING LINEAR MOTION PRODUCT MANUFACTURER

高精度
HIGH PRECISION

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CUSTOMIZABILITY

微型滚珠丝杠的特点
FEATURES OF MINIATURE BALL SCREW

■ 圆柱型单螺母（WCI系列）Cylindrical Single Nut

采用圆柱型单螺母的解决方案，在确保机械性能的同时实现了径向尺寸的缩短。螺母可通过圆柱面键槽或螺母端面进行安装。

The cylindrical single nut reduces radial size while maintaining performance, allowing installation via keyway or end face.

■ 螺纹固定式单螺母（WCG系列）Thread-Fixed Single Nut

圆柱型螺母端面集成公制螺纹接口，可实现快速便捷的直接安装。该产品特别适用于气缸、电动缸等直线运动场景，为用户提供紧凑可靠的一体化安装解决方案。

The cylindrical nut's end face integrates a metric thread for easy installation, ideal for linear motion systems like pneumatic and electric cylinders, providing a compact, reliable solution.

■ 法兰型单螺母（WFI系列）Flanged Single Nut

法兰式滚珠螺母设计轻巧紧凑，安装简便，适用于高精度、高可靠性和高稳定性的应用场合。

The flanged ball nut is designed to be lightweight and compact, with easy installation, making it suitable for applications requiring high precision, reliability, and stability.

■ **机器人** Robot　■ **医疗器械** Medical Device　■ **航空航天** Aerospace　■ **半导体** Semiconductor　■ **精密仪器** Precision Instrument

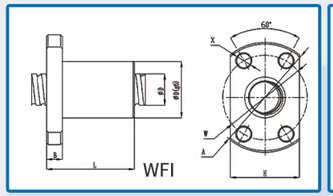
微型滚珠丝杠副订货编码
Miniature Ball Screw Ordering Code

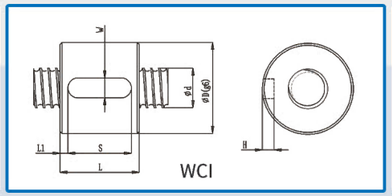
WFI 04 01 L -3- C5 01 11 /200 ×80 -V1 -R

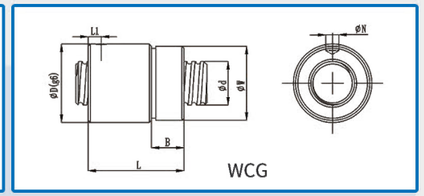
- **微型滚珠丝杠副** Miniature Ball Screw
- **螺母类型** Ball NUT Type
  - **WFI：法兰型单螺母** WFI:Flanged Single Nut
  - **WCI：圆柱型单螺母** WCI：Cylindrical Single Nut
  - **WCG：螺纹固定式单螺母** WCG：Thread-Fixed Single Nut
- **规格** Size
  - **公称直径(mm)** Nominal Diamctcr(mm)
  - **导程(mm)** Lcad(mm)
  - **螺旋方向L→左；无标记→右** Direction of lead L→Left;Unmarked→Right
  - **螺母内的滚珠圈数** Number of ball track turns in the nut
- **精度** Precision　C3、C5、C7
- **丝杠左轴端形状** Left Screw End
- **丝杠右轴端形状** Right Screw End
- **丝杠总长** Overall Length
- **丝杠螺纹长度** Thread Length
- **预紧** Preload　**V0...无预紧** None　**V1...轻预紧** Light Preload　**V2...中预紧** Medium　**V3...重预紧** Heavy Preload
- **丝杠** Screw　**R...转造级精密丝杠** Precision-rolled Screw　**M...研磨级精密丝杠** Stock Ground Ball Screw

微型滚珠丝杠产品系列
Miniature Ball Screw Accessory Series

微型滚珠丝杠以精密、高效、可靠为核心优势，是微型化与高精度运动控制的关键组件。
Miniature ball screws excel in precision, efficiency, and reliability, serving as critical components for miniaturized and high-precision motion control systems.







l:导程；　n:珠圈数；　Coa：额定静载(kgf)；
Da:珠径；　Ca:额定动载(kgf)；　K：刚性(kgf/um)

型号 Model No.	d	l	Da	D	A	B	L	W	H	L1	N	S	M	X	n	Ca	Coa	K
	滚珠丝杠及螺母基准数据 Dimensions																	
WFI0401	4	1	0.8	11	20	3	12	15	14	—	—	—	—	2.9	3	57	71	5
WCG0401		1	0.8	11	—	4	17	—	—	—	—	M9*0.75			3	57	71	5
WCI0401		1	0.8	11	—	—	12	2	1.2	2	—	8	—	—	3	57	71	4
WFI0601	6	1	0.8	13	24	3.5	15	18	16	—	—	—	—	3.4	3	75	120	9
WCI0601		1	0.8	13	—	—	14	3	1.8	2	—	10	—	—	3	75	120	7
WCG0602		2	1.2	15	—	6	20	—	—	—	3	M10*1			3	116	187	9
WCI0602		2	1.2	15	—	—	15	3	1.8	2.5	—	10	—	—	3	116	187	6
WFI0801	8	1	0.8	14	27	4	16	21	18	—	—	—	—	3.4	3	120	215	14
WCI0801		1	0.8	14	—	—	14	3	1.8	2	—	10	—	—	3	120	215	9
WFI0802		2	1.2	15	27	4	18	21	18	—	—		—	3.4	3	218	266	13
WCI0802		2	1.2	15	—	—	18	3	1.8	3	—	12	—	—	3	218	266	9
WFI0802.5		2.5	1.588	18	29	4	26	23	20	—	—	—	—	3.4	3	218	266	13
WCG0802.5		2.5	1.588	18	—	7.5	23.5	—	—	10	3	M15*1			3	218	266	11
WCI0802.5		2.5	1.588	18	—	—	16	3	1.8	4	—	8	—	—	3	218	266	8
WFI1002	10	2	1.2	18	35	5	28	27	22	—	—	—	—	4.5	3	196	371	15
WCG1002		2	1.2	18	—	7.5	22	—	—	3	3	M17*1			3	196	371	17
WCI1002		2	1.2	18	—	—	20	5	3	2	—	16	—	—	3	196	371	14
WFI1202	12	2	1.588	20	37	5	28	29	24	—	—	—	—	4.5	3	284	444	22
WCG1202		2	1.588	20	—	10	30	—	—	—	—	M20*1			3	284	444	15
WCI1202		2	1.588	20	—	—	20	5	3	2	—	16	—	—	3	284	444	16
WFI1203		3	2	28	45	6	32	36	30	—	—	—	—	5.5	3	441	669	18
WCI1203		3	2	28	—	—	26	5	3	3	—	20	—	—	3	441	669	17
WFI1204		4	2	28	48	6	33	39	30	—	—	—	—	5.5	3	475	703	18
WCG1204		4	2	28	—	10	34	—	—	—	3	M20*1			3	475	703	17
WCI1204		4	2	28	—	—	31	5	3	3		25	—	—	3	475	703	17
WFI1205		5	2	28	44	8	39	34	30	—	—	—	—	4.5	3	493	744	18
WCG1205		5	2	28	—	10	34	—	—	—	3	M20*1			3	493	744	17
WCI1205		5	2	28	—	—	31	5	3	3	—	25	—	—	3	493	744	17

注：可非标定制 Note:Can be customized