

SHUTON, Technological excellence in development and manufacture of High Precision Ballscrews

速通，
研发和制造高精密滚
珠丝杠的技术卓越



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PRECISION BALLSCREWS

- > SHUTON provides the most advanced precision ballscrew technology, supported by a team of professionals with excellent engineering and production skills, employing wide ranging technical know-how and a manufacturing process that involves the most technologically advanced processes and machines.
- > SHUTON is present at the principal machine tool markets around the world, and is in contact with the manufacturers of the latest machines. This allows us to garner the opinions, suggestions and needs of clients in each market, and develop our products according to the most stringent criteria.
- > In our efforts to provide our customers with the best service, the greatest added value, and in order that our ballscrews become key components in the very latest high speed and precision machining advances, we have created a new product range called SHUTON COMPLEX®.

- > SHUTON COMPLEX® ballscrews are ballscrews with the highest dynamic rigidity, which are being tested and used by leading European brands in the high-dynamic machine tool sector. With this catalogue we present our customers with all the advantages this new development can provide.
- > Communication and support, engineering and added value, service and development, are the commitments that set us apart, as being here both today and in the future as key collaborators for our customers, always providing the most innovative products.



高精精密滚珠丝杠

- > SHUTON拥有高素质的专业工程及生产团队，广泛的技术知识和生产经验，最先进的生产工序和设备，提供最新技术的高精密滚珠丝杠。
- > SHUTON 在全世界的主要机床市场均占有重要市场份额。与新一代机床生产企业的良好合作使我们有机会了解各个市场的客户意见、建议和需求，从而按照最严格的标准生产我们的产品。

- > 秉承不断为客户提供更好的服务，最大附加值，使我们的滚珠丝杠成为机床的核心部件，造就最先进的高速高精机床的理念，我们研发了新一代产品“SHUTONCOMPLEX®”（超高速）滚珠丝杠。
- > “SHUTONCOMPLEX®”（超高速）丝杠是具有更高动态刚性的丝杠，已经被欧洲数控机床的领军企业证实和使用。通过这份目录，我们希望向客户介绍这项新技术成果的所有优势。
- > 便捷的交流和技术支持，先进的设计和高附加值，全面的服务和研发是我们对客户的承诺。无论现在还是将来，为了成为客户的重要合作伙伴我们永远提供最先进的产品和有用的技术信息，“SHUTON”滚珠丝杠的全新目录就将介绍这些技术信息。

SHUTON COMPLEX BALLSCREWS

- > High rigidity with low preload torque
- > Higher dynamic and static load capacity
- > Long durability, preload conservation
- > Low temperature, minimized friction
- > Smooth rotation
- > High efficiency and performance

HIGH LOADS SHUTON COMPLEX:

- > HIGH LOAD Technology
 - Increase of dynamic load capacity 60%
 - Increase of static load capacity 55%
 - Increase of rigidity 14%
- > Solutions for injection & pressing

HIGH DYNAMICS SHUTON COMPLEX

- > DN >200000
- > Minimum temperature
- > Higher preload conservation in extreme conditions.
- > Feed Speed up to 100m/min
- > Acceleration up to 15m/s²
- > Higher control parameters Kv and Kp

SHUTON COMPLEX SPECIAL SERIES

- > Special diameters
- > Length up to 15m in single piece.
- > Peak load ballscrew
- > Thermal expansion controlled ballscrews
- > Special antirust treatment ballscrews
- > Nut rotation system
- > Technological solutions for deflection reduction

SHUTON BALLSCREW RANGE Dynamic load capacity (KN)										速通丝杠动载范围 (KN)									
For cases of higher load capacity requirement, please consult SHUTON										如果对负载有更高的要求，请咨询速通									
<input type="checkbox"/> TD - Preloaded double nut, Internal recirculation 'S' <input type="checkbox"/> TD - Preloaded double nut, External recirculation 'U'					<input type="checkbox"/> 预紧双螺母，内循环 <input type="checkbox"/> 预紧双螺母，外循环														
$\frac{P_h}{d_0}$	5	6	8	10	12	15	16	20	25	30	32	35	40	45	48	50	60	64	80
16	13,9																		
20	21,8																		
25	24,7			29,9	29,8	23,1	23	23,1	16										
32	28,1			77,3	65,7	53,8	53,7	35,1	35,6	25,3	25,3								
40	31,2	44	55,8	95	88,3	75,1	75	83,8	64,8	60,2	42,1	42,1	42,1						
50	34,4	48,9	62,8	144	178	158	158	138	109	88,3	67,9	67,9	67,9	48,1	48,1	48,1			
63		53,8		190	189	284	284	256	198	157	157	129	128	98,9	99,6	99,3	69,9		
70				204	213	270	270	445	355	263	263	216	203	156	157	157	109		
80				218	228	289	288	477	383	333	283	282	233	180	180	179	167	168	
100				239	254	285	285	730	582	507	510	431	353	355	355	273	275	274	183
120								796	638	557	557	474	389	389	388	303	301	304	217
140								773	687	600	600	511	421	420	420	328	327	327	234

速通COMPLEX滚珠丝杠

- > 高动态刚性低启动力矩
- > 更高的动载和静载
- > 使用寿命长，高预紧力保持度
- > 低温升，低摩擦。
- > 转动平稳
- > 效率高性能好

速通COMPLEX超负载滚珠丝杠

- > 高负载技术
 - 动载提高60%
 - 静载提高55%
 - 刚性提高14%
- > 注塑机和冲床的技术方案

速通COMPLEX超高速滚珠丝杠

- > DN值 > 200000
- > 最低温升
- > 在极端工作条件下，较高的预紧力保持度。
- > 速度可达100m/min
- > 加速度可达15m/s²
- > 更高的控制参数Kv值和Kp值

速通COMPLEX超规格滚珠丝杠

- > 特殊直径
- > 无拼接单根长度达15m
- > 极度超负载丝杠
- > 热膨胀控制滚珠丝杠
- > 特殊防锈处理滚珠丝杠
- > 动螺母系统
- > 为减少变形提供技术方案