



These definitions/descriptions are for the Product Specifications listed on the ball screw pages. Additional technical information on the preceding pages are designed to help you in selecting a ball screw and nut

that is best for your application. For additional assistance please contact our Application Engineers at 800-321-7800.

INCH BALL SCREW AND NUT TECHNICAL DATA

0631-0200 SRT

LEAD ACCURACY: ±0.004 in./ft.

Single Start	
0.631	Ball Circle Diameter
0.200	Lead
0.500	Root Diameter
0.125	Nominal Ball Diameter
0.82	Screw Weight (lbs./ft.)

Lead Accuracy Measured in inch/foot or μm/300mm. See page 94 for additional screw lead accuracy specifications.

Starts The integral number of helical thread elements on the screw shaft.

Ball Circle Diameter The diameter of the circle generated by the center of the bearing balls.

Lead The distance the nut advances in one revolution (lead = pitch x number of starts).

Root Diameter The diameter of the screw at the bottom of the thread groove.

Nominal Ball Diameter The approximate diameter of the load carrying balls contained in the ball nut.

Screw Weight/Mass Measured in lbs/ft for inch screws and in g/m for metric screws.

Ball Nut Style Heading The style of nut is identified in the drawing heading, refer to page 94 for additional nut style description.

Load Capacity Measured in lbs. or kN, this is the dynamic and static load rating of the nut.

Torque To Raise A linearly scalable value measured by in.-lb./lb. or N-m/kN. This is the torque required to keep one pound or one kN of load in motion.

Ball Nut Weight, Ball Nut, Flange and Wiper Kit Part Numbers Wiper Kits are available for most nuts.

Spring Rate/Preload Range Nuts which feature a preload have the spring rate or preload range listed. See page 94 for additional description for preload ball nuts.

Wiper Type Some nuts include integral wipers which are either Elastomer, Felt or Brush

Ball Quantity

Ball quantity and size are nominal and may vary per nut.

Ball Nut Threads/Materials

All screws have an alloy steel right hand threaded nut and many sizes have an alloy steel left hand threaded and a stainless steel right hand threaded nut.

SBN Single Circuit Ball Nut

68 bearing balls total per nut

PRODUCT SPECIFICATIONS	RH	LH	RHSS	
Dynamic Load (lbs.)	815	815	—	1.200 DIA
Static Load (lbs.)	6,384	6,384	—	
Torque to Raise 1 lb. (in.-lb.)	.035	.035	—	
Nut Weight (lbs.)	.27	.27	—	
Ball Nut Number	SBN0827	SBN0828	—	
Flange Part Number	FLG7570	FLG7570	—	
Wiper Kit Part Number	WKB2647	WKB2647	—	

PRN Preloaded Ball Nut with Wipers

PRODUCT SPECIFICATIONS	RH	
Dynamic Load (lbs.)	440	
Static Load (lbs.)	2,110	
Torque to Raise 1 lb. (in.-lb.)	.035	
Spring Rate x 10⁶ (lb./in.)	1.6	
Nut Weight (lbs.)	.98	
Ball Nut Number	PRN10108	
Flange Part Number	—	
Wiper Type	ELASTOMER	

Standard Screw Threads, Materials and Lengths All screws are available in alloy steel with right hand threads. Many sizes are also available with left hand threads or in stainless steel with right hand threads.

Standard cut lengths are available for each screw size, custom cut screws up to 288" are available. Custom Screws over 288" can be manufactured based on material availability. See the Reference Number Configurator on page 98 for additional explanation on specifying a custom length screw.

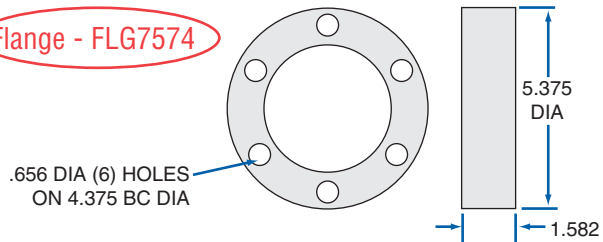
Standard rolled screw length part number product or unmachined cut to length material may have approximately one inch of lead in taper on one or both ends, ground screws up to 3" unthreaded portion.

Standard Screw Lengths	PART NUMBERS		
	RH	LH	RHSS
2 FT.	SRT9392	SRT9562	SRT5359
4 FT.	SRT9987	SRT5092	SRT5648
6 FT.	SRT7540	SRT7541	SRT5378

Custom cut lengths available up to 24' for alloy, up to 12' for stainless.
For longer lengths contact Customer Service.

Flanges are made of black oxidized steel. Flanges are manufactured to be pinned to the ball nut. See page 83 for additional pinning information.

Flange - FLG7574



Wiper Kits Felt or brush wiper kits are available for most ball nuts.

