

Q&A

Question: Is there any restriction on size or length of Ball Screws?

The range of manufacturing for KSS Ball Screws is determined by 2 factors. One is the Shaft diameter, the other is total length for each Shaft diameter.

Our manufacturing range is 1.8mm to 16mm of Shaft diameter, but 20mm of diameter will also be available as a special order.

Limit of total length for each Shaft diameter is shown in table below.

Accuracy grade Shaft dia. (mm)	Maximum limit (mm)				
	Precision Ball Screws				Rolled Ball Screws
	C0	C1	C3	C5	C7&C10
4	90	120	160	170	240
5	90	120	160	170	300
6	140	180	240	250	350
8	200	250	330	350	450
10	260	320	420	450	650
12	320	390	510	550	700
14	380	460	600	660	700
15	450	540	700	770	1000
16	450	540	700	770	—

These numbers will vary depending on the end-journal profile and accuracy grade, please consider them reference number.

It is difficult to produce Ball Screws with long length and small diameter. Especially bending issue by heat treatment, critical speed and buckling issue will come up, so care must be taken about the length.

Maximum limit of shaft length are determined by its accuracy!!!