

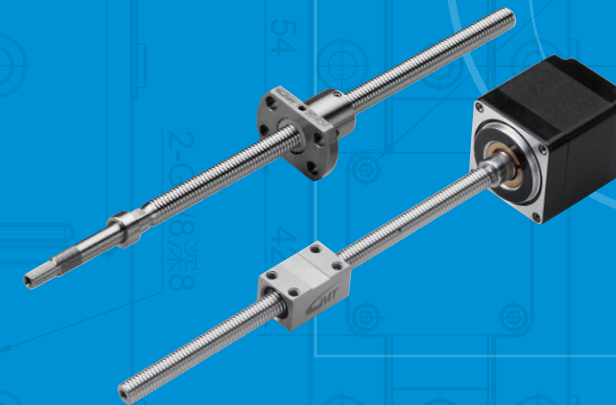
Precision Ball Screws Stepper Motor Direct Drive Ball Screws



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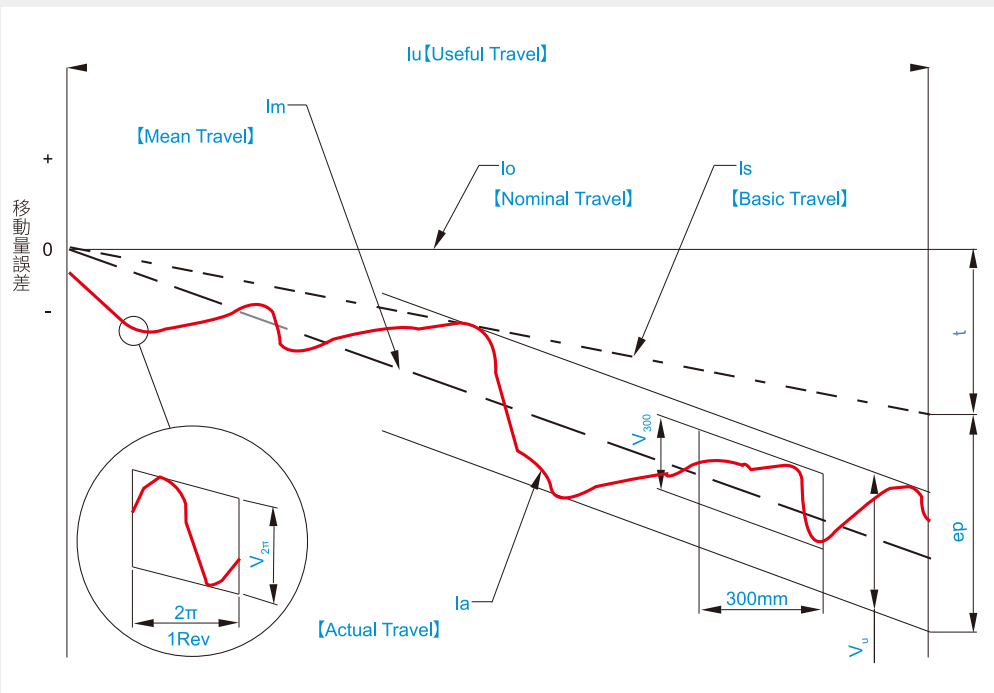
Ball Screws

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Stepper Motor Direct Drive Ball Screws

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Lead Accuracy of Ball Screw



Code	Designation of Code	Coding Explanation
t	Target Value of Basic Travel	The value obtained by deducting the nominal travel from basic travel within the useful travel length.
ep	Mean Travel Deviation	The value obtained by deducting the basic travel from mean travel.
ls	Basic Travel	Corrected axial travel displacement of the nominal travel, which is occurred due to thermal and loading. It leans to actual travel line.
lm	Mean Travel	Mean travel line. The straight line calculated by least square method or simple approximation method according to the curve indicated as actual travel.
la	Actual Travel	The actual travel measured. The maximum variations of the actual travel (range) between two straight lines parallel to mean travel will be determined according to the following 3 items.
Vu	Variations	Max. variation within useful length of the shaft section.
V300		Max. variation within 300mm randomly retrieved from useful length of the shaft section.
V2π		Max. variation of one-rotation (2π rad) randomly retrieved from useful length of the shaft section.

International Accuracy Standard of Ball Screw

Unit: μm

Grade Classification		Ground Grade			Rolled Grade	
		C0	C1	C3	C5	C7
V ₃₀₀	ISO-DIN	※	6	12	23	52
	JIS	3.5	5	8	18	50
	GMT	3.5	5	8	18	50

※ V₃₀₀: Max. variation within 300mm randomly retrieved from effective length of the shaft section.

Variation Range of Preloaded Torque (Source : JIS B1192)

Unit: ±%

Basic Torque (Kgf · cm)		Useful Stroke (mm)														
		< 4000mm										from 4000mm (incl.) up to 10000mm				
		Slenderness ≤ 40					40 < Slenderness < 60					-				
		Accuracy					Accuracy					Accuracy				
Above	To	C0	C1	C3	C5	C7	C0	C1	C3	C5	C7	C0	C1	C3	C5	C7
2	4	30	35	40	50	-	40	40	50	60	-	-	-	-	-	-
4	6	25	30	35	40	-	35	35	40	45	-	-	-	-	-	-
6	10	20	25	30	35	40	30	30	35	40	45	-	-	40	45	50
10	25	15	20	25	30	35	25	25	30	35	40	-	-	35	40	45
25	63	10	15	20	25	30	20	20	25	30	35	-	-	30	35	40
63	100	-	15	15	20	30	-	-	20	25	35	-	-	25	30	35

Note: 1. Slenderness Ratio = screw Tread length / Screw Nominal O.D.
2. Basic variation range of designed pre-load torque.

Variation of Mean Travel

Unit: μm

Accuracy		C0		C1		C3		C5	
Item		Mean Travel Deviation (±ep)	Variation (V _u)	Mean Travel Deviation (±ep)	Variation (V _u)	Mean Travel Deviation (±ep)	Variation (V _u)	Mean Travel Deviation (±ep)	Variation (V _u)
Above	Below								
-	100	3	3	3	5	8	8	18	18
100	200	3.5	3.5	3	5	10	8	20	18
200	300	4	4	3.5	5	12	8	23	18
300	400	5	5	3.5	5	13	10	25	20
400	500	6	6	4	5	15	10	27	20
630	800	6	6	4	6	16	12	30	23
500	630	7	7	5	7	18	13	35	25
800	1000	8	8	6	8	21	15	40	27
1000	1250	9	9	6	9	24	16	46	30

Variation

Accuracy	C0		C1		C3		C5	
Item	V ₃₀₀	V _{2π}	V ₃₀₀	V _{2π}	V ₃₀₀	V _{2π}	V ₃₀₀	V _{2π}
Allowable Value	3.5	3	5	4	8	6	18	8

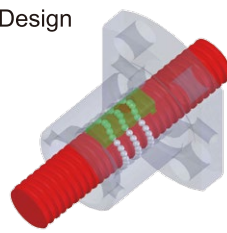
BS Series Unique Features

◎Reflux Design

Internal Circulation Structure

- One circulation counts on crossing ball screw thread peak along internal return retainer.
- Fits to short lead thin shaft needs.
- Performed by high rigidity & secured by steel material been heat-treatment.

Reflux Design

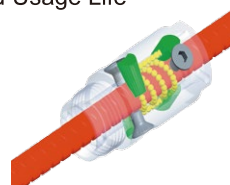


◎Extended Usage Life

Reliable Internal Circulation Structure

- Ball run endless inside along the internal circulation retainer.
- Fits to short lead thin shaft needs.
- Retainer in POM adapted to increase reliability & decrease noise.

Extended Usage Life



Low Temperature
Black & Chrome Plating



◎Surface Treatment-Low Temperature Black & Chrome Plating

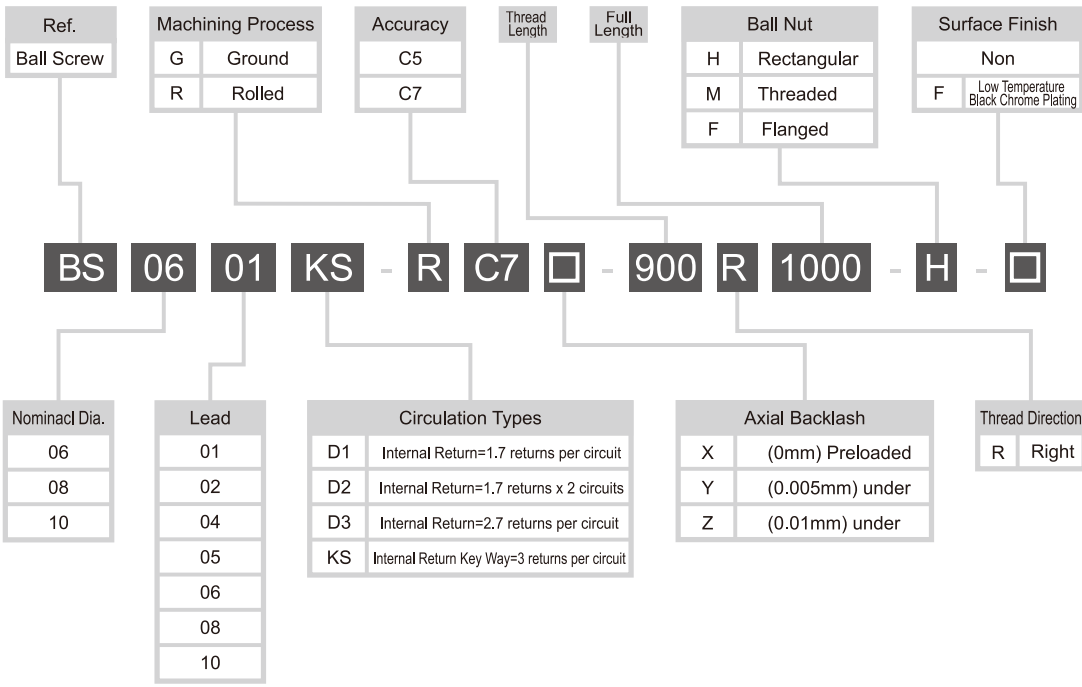
Hardness	Color	Thickness of Layer	Material Applicability	Characteristics
800HV	Black Extinction	1~2μm	Steel Copper Stainless Steel	1. Good corrosion 2. Rust proof 3. Abrasion proof 4. Ultra thin layer

◎Salt Spray Test

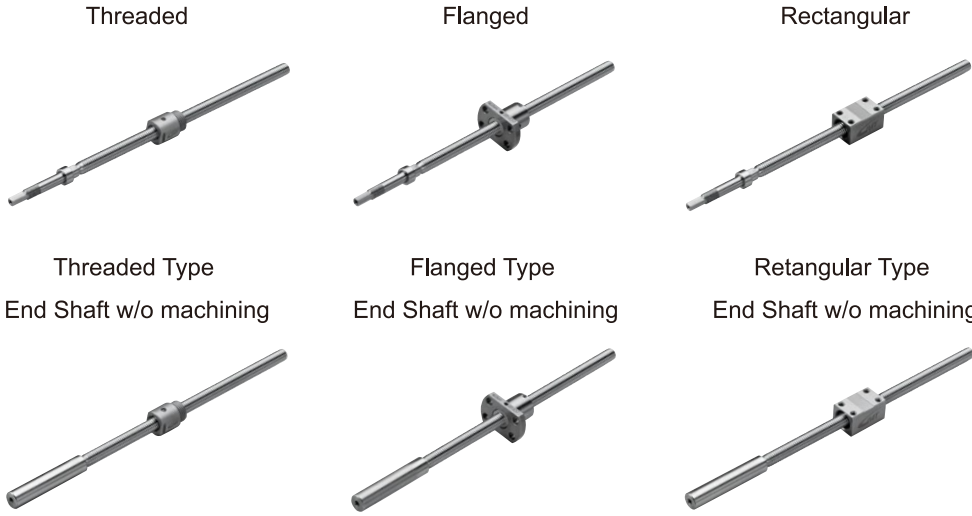
	Thickness of Layer (μm)	Corrosion Proof (hr)
Brand A	2.5	48
Brand B	1.75	96
Brand C	2	96
GMT	2	120

Model Number Description

BS□□ Series



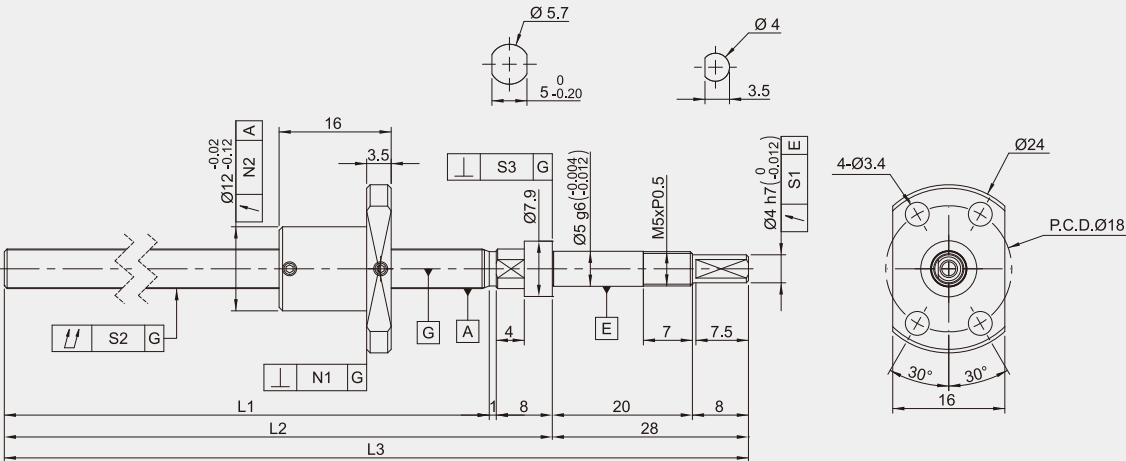
◎Models



BS0601-F

Rolled Ball Screws				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			

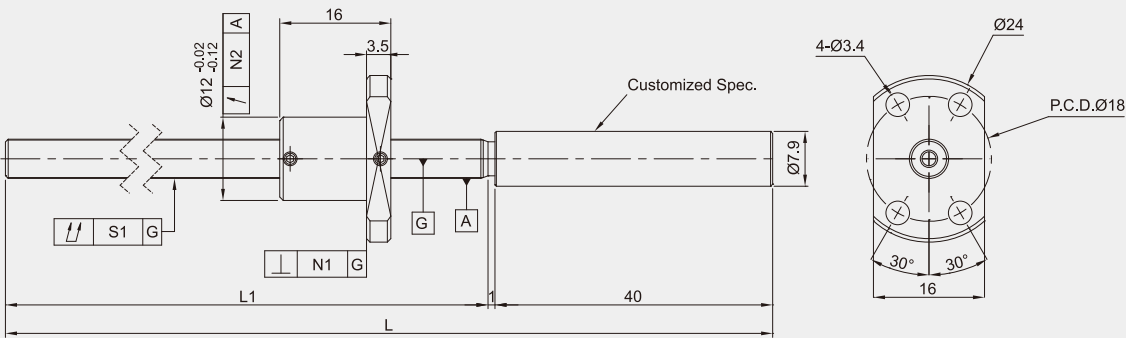
plating



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS0601KS-RC5□-65R102-F	40	65	74	102	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0601KS-RC7□-65R102-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0601KS-RC5□-95R132-F	70	95	104	132	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0601KS-RC7□-95R132-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0601KS-RC5□-125R162-F	100	125	134	162	0.01	0.035	0.005	0.01	0.012	0.02	0.018
BS0601KS-RC7□-125R162-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	

BS0601-F Machining-less to the end shaft

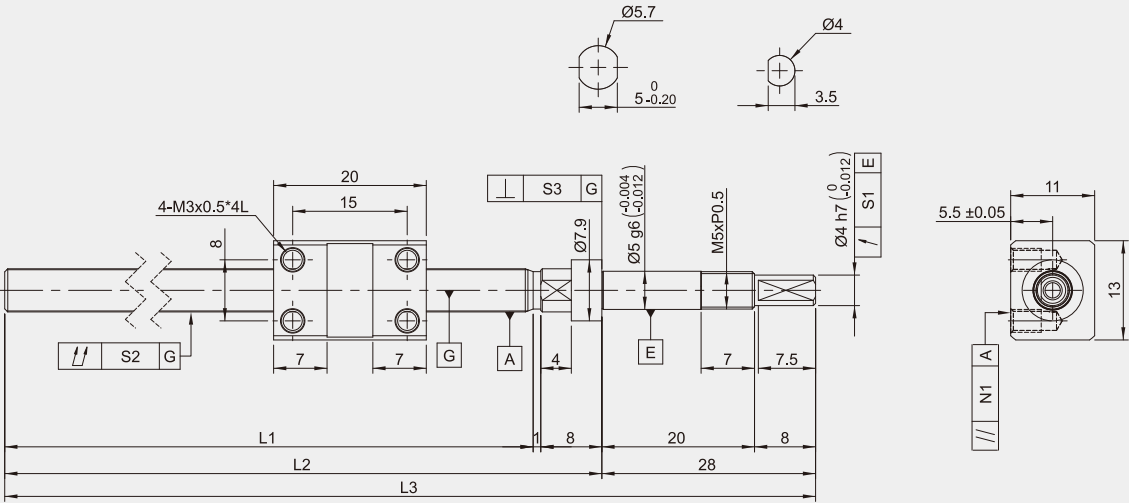
Rolled Ball Screws				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS0601KS-RC5□-65R106-F	40	65	106	0.035	0.01	0.012	0.018	0.018
BS0601KS-RC7□-65R106-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0601KS-RC5□-95R136-F	70	95	136	0.035	0.01	0.012	0.018	0.018
BS0601KS-RC7□-95R136-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0601KS-RC5□-125R166-F	100	125	166	0.035	0.01	0.012	0.02	0.018
BS0601KS-RC7□-125R166-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	

BS0601-H

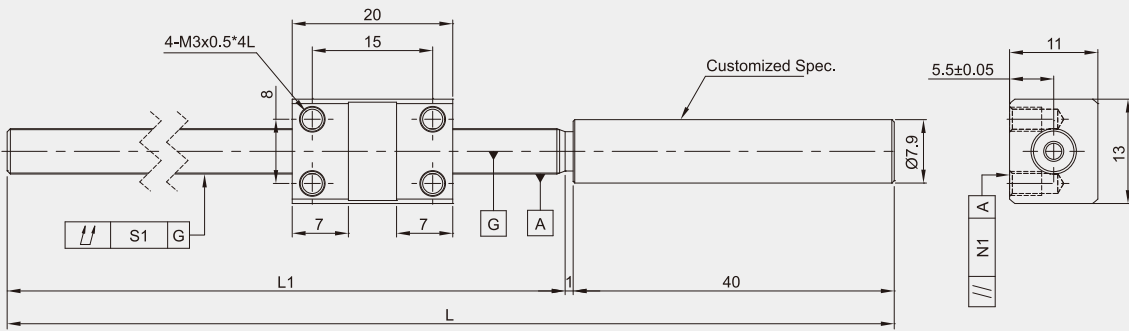
Rolled Ball Screws				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	Mean Travel	Variation
BS0601KS-RC5□-65R102-H	40	65	74	102	0.01	0.035	0.005	0.01	0.018	0.018
BS0601KS-RC7□-65R102-H					0.014	0.045	0.007	0.017	Travel Distance:±0.05/300	
BS0601KS-RC5□-95R132-H	70	95	104	132	0.01	0.035	0.005	0.01	0.018	0.018
BS0601KS-RC7□-95R132-H					0.014	0.045	0.007	0.017	Travel Distance:±0.05/300	
BS0601KS-RC5□-125R162-H	100	125	134	162	0.01	0.035	0.005	0.01	0.02	0.018
BS0601KS-RC7□-125R162-H					0.014	0.045	0.007	0.017	Travel Distance:±0.05/300	

BS0601-H Machining-less to the end shaft

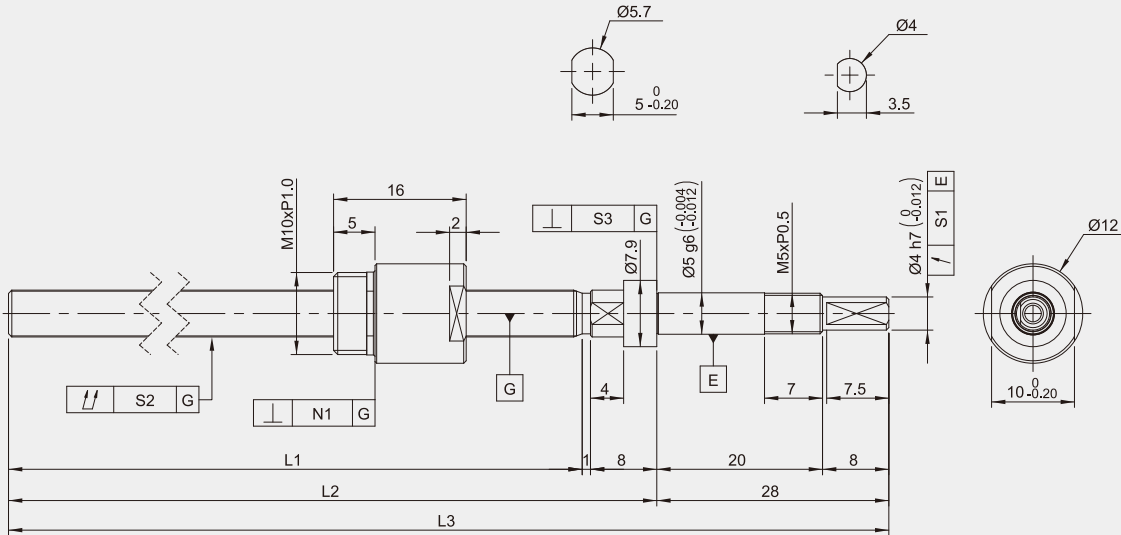
Rolled Ball Screws				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
BS0601KS-RC5□-65R106-H	40	65	106	0.035	0.01	0.018	0.018
BS0601KS-RC7□-65R106-H				0.045	0.017	Travel Distance:±0.05/300	
BS0601KS-RC5□-95R136-H	70	95	136	0.035	0.01	0.018	0.018
BS0601KS-RC7□-95R136-H				0.045	0.017	Travel Distance:±0.05/300	
BS0601KS-RC5□-125R166-H	100	125	166	0.035	0.01	0.02	0.018
BS0601KS-RC7□-125R166-H				0.045	0.017	Travel Distance:±0.05/300	

BS0601-M

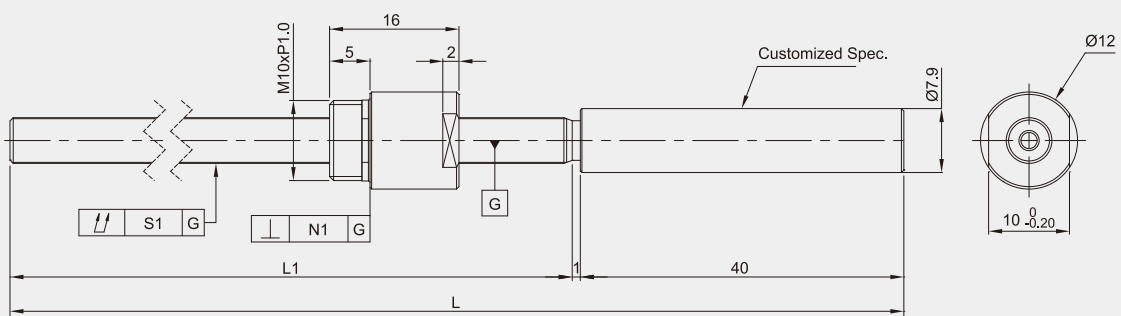
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	Mean Travel	Variation
BS0601KS-RC5□-65R102-M	40	65	74	102	0.01	0.035	0.005	0.01	0.018	0.018
BS0601KS-RC7□-65R102-M					0.014	0.045	0.007	0.014	Travel Distance : ±0.05/300	
BS0601KS-RC5□-95R132-M	70	95	104	132	0.01	0.035	0.005	0.01	0.018	0.018
BS0601KS-RC7□-95R132-M					0.014	0.045	0.007	0.014	Travel Distance : ±0.05/300	
BS0601KS-RC5□-125R162-M	100	125	134	162	0.01	0.035	0.005	0.01	0.02	0.018
BS0601KS-RC7□-125R162-M					0.014	0.045	0.007	0.014	Travel Distance : ±0.05/300	

BS0601-M Machining-less to the end shaft

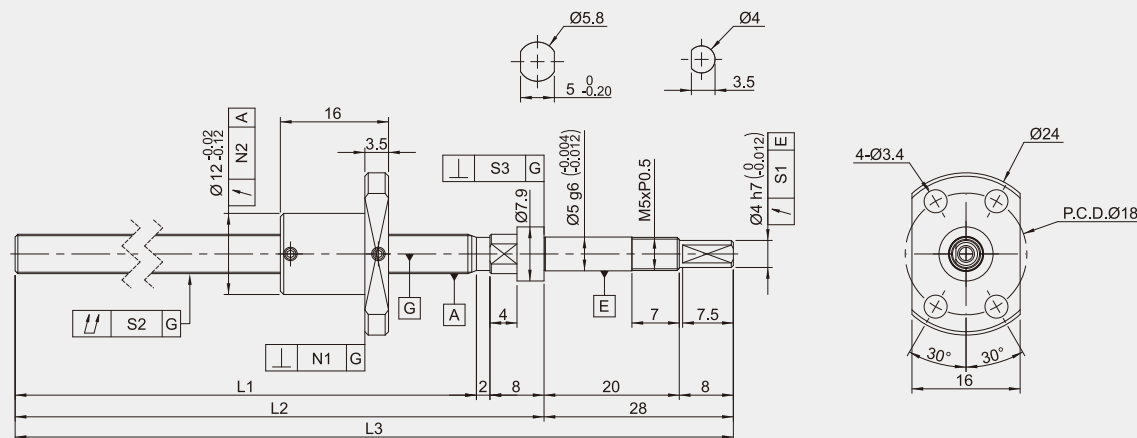
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
BS0601KS-RC5□-65R106-M	40	65	106	0.035	0.01	0.018	0.018
BS0601KS-RC7□-65R106-M				0.045	0.014	Travel Distance :±0.05/300	
BS0601KS-RC5□-95R136-M	70	95	136	0.035	0.01	0.018	0.018
BS0601KS-RC7□-95R136-M				0.045	0.014	Travel Distance :±0.05/300	
BS0601KS-RC5□-125R166-M	100	125	166	0.035	0.01	0.02	0.018
BS0601KS-RC7□-125R166-M				0.045	0.014	Travel Distance :±0.05/300	

BS0602-F

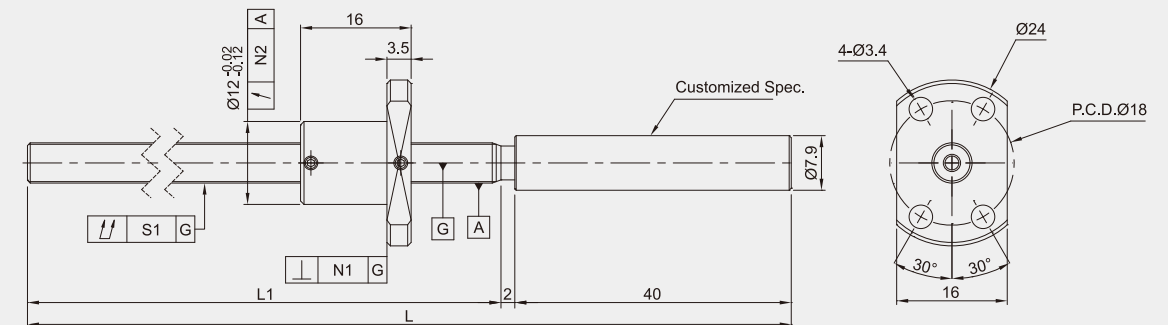
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	N2	Mean Travel	Variation
BS0602KS-RC5□-65R103-F	40	65	75	103	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0602KS-RC7□-65R103-F					0.014	0.045	0.007	0.014	0.02	Travel Distance : ±0.05/300	
BS0602KS-RC5□-95R133-F	70	95	105	133	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0602KS-RC7□-95R133-F					0.014	0.045	0.007	0.014	0.02	Travel Distance : ±0.05/300	
BS0602KS-RC5□-125R163-F	100	125	132	163	0.01	0.035	0.005	0.01	0.012	0.02	0.018
BS0602KS-RC7□-125R163-F					0.014	0.045	0.007	0.014	0.02	Travel Distance : ±0.05/300	

BS0602-F Machining-less to the end shaft

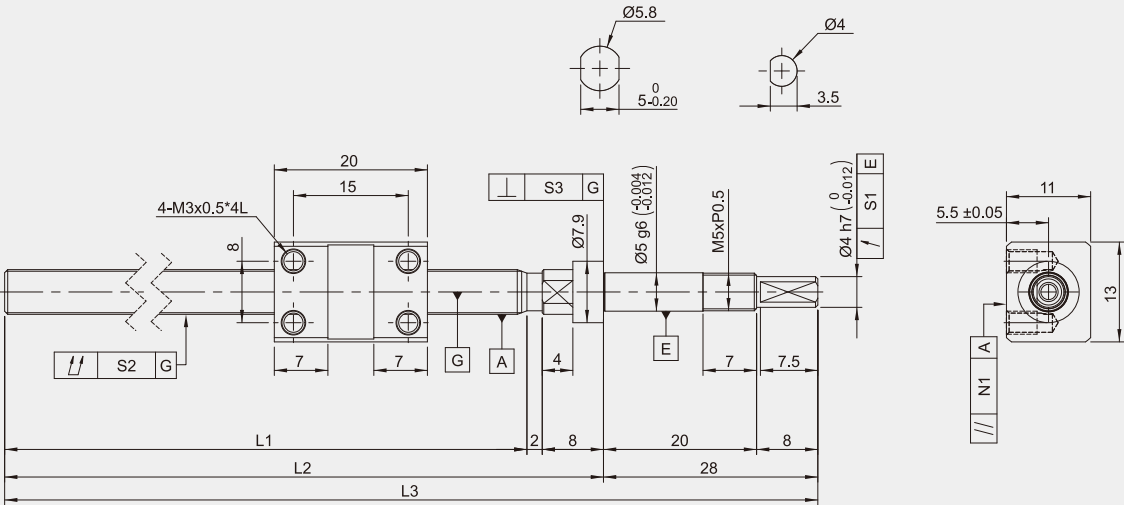
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Nut Deviation Tolerance	Lead Accuracy	
		L1	L	S1	N1	N2	Mean Travel	Variation
BS0602KS-RC5□-65R107-F	40	65	107	0.035	0.01	0.012	0.018	0.018
BS0602KS-RC7□-65R107-F				0.045	0.014	0.02	Travel Distance : ±0.05/300	
BS0602KS-RC5□-95R137-F	70	95	137	0.035	0.01	0.012	0.018	0.018
BS0602KS-RC7□-95R137-F				0.045	0.014	0.02	Travel Distance : ±0.05/300	
BS0602KS-RC5□-125R167-F	100	125	167	0.035	0.01	0.012	0.02	0.018
BS0602KS-RC7□-125R167-F				0.045	0.014	0.02	Travel Distance : ±0.05/300	

BS0602-H

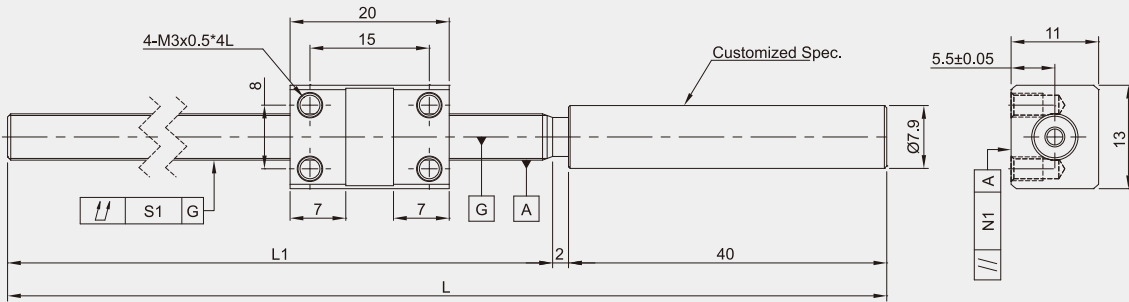
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS0602KS-RC5□-65R103-H	40	65	75	103	0.01	0.035	0.005	0.01	0.018	0.018
BS0602KS-RC7□-65R103-H					0.014	0.045	0.007	0.017	Travel Distance : ±0.05/300	
BS0602KS-RC5□-95R133-H	70	95	105	133	0.01	0.035	0.005	0.01	0.018	0.018
BS0602KS-RC7□-95R133-H					0.014	0.045	0.007	0.017	Travel Distance : ±0.05/300	
BS0602KS-RC5□-125R163-H	100	125	135	163	0.01	0.035	0.005	0.01	0.02	0.018
BS0602KS-RC7□-125R163-H					0.014	0.045	0.007	0.017	Travel Distance : ±0.05/300	

BS0602-H Machining-less to the end shaft

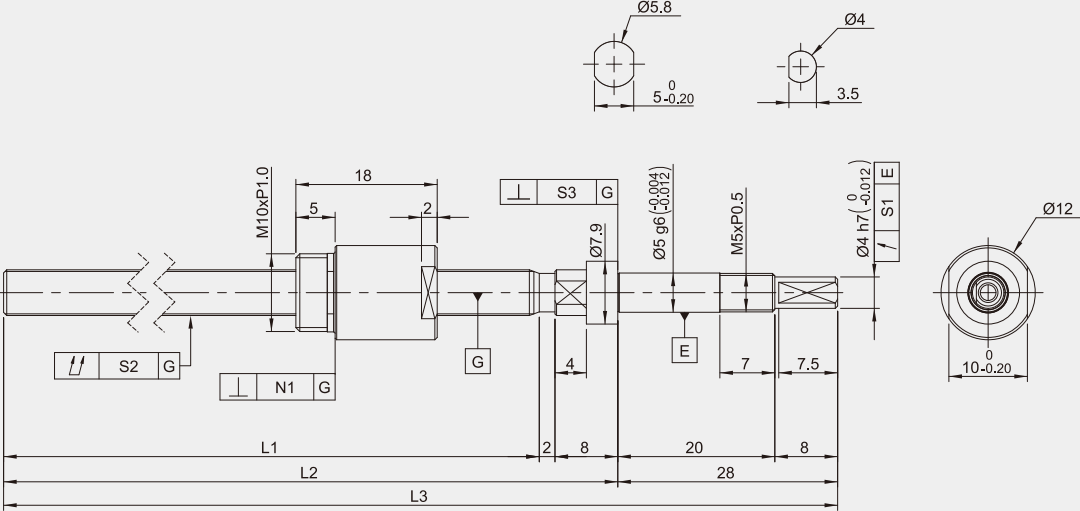
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS0602KS-RC5□-65R107-H	40	65	107	0.035	0.01	0.018	0.018
BS0602KS-RC7□-65R107-H				0.045	0.017	Travel Distance : ±0.05/300	
BS0602KS-RC5□-95R137-H	70	95	137	0.035	0.01	0.018	0.018
BS0602KS-RC7□-95R133-H				0.045	0.017	Travel Distance : ±0.05/300	
BS0602KS-RC5□-125R167-H	100	125	167	0.035	0.01	0.02	0.18
BS0602KS-RC7□-125R167-H				0.045	0.017	Travel Distance : ±0.05/300	

BS0602-M

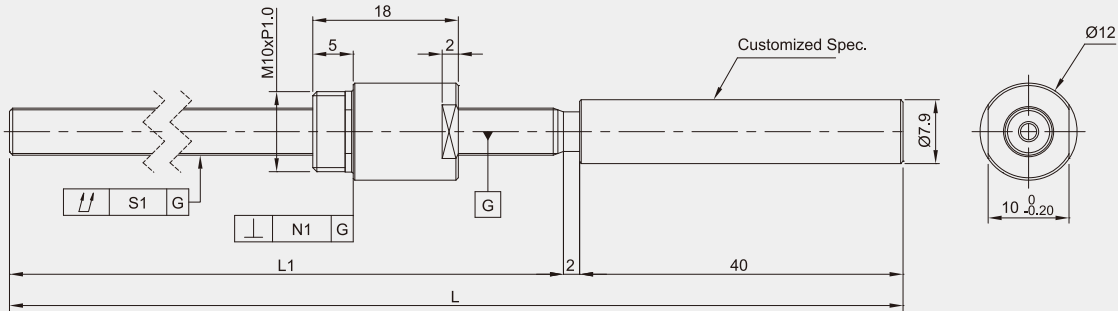
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	Mean Travel	Variation
BS0602KS-RC5□-65R103-M	40	65	75	103	0.01	0.035	0.005	0.01	0.018	0.018
BS0602KS-RC7□-65R103-M					0.014	0.045	0.007	0.014	Travel Distance : ±0.05/300	
BS0602KS-RC5□-95R133-M	70	95	105	133	0.01	0.035	0.005	0.01	0.018	0.018
BS0602KS-RC7□-95R133-M					0.014	0.045	0.007	0.014	Travel Distance : ±0.05/300	
BS0602KS-RC5□-125R163-M	100	125	135	163	0.01	0.035	0.005	0.01	0.02	0.018
BS0602KS-RC7□-125R163-M					0.014	0.045	0.007	0.014	Travel Distance : ±0.05/300	

BS0602-M Machining-less to the end shaft

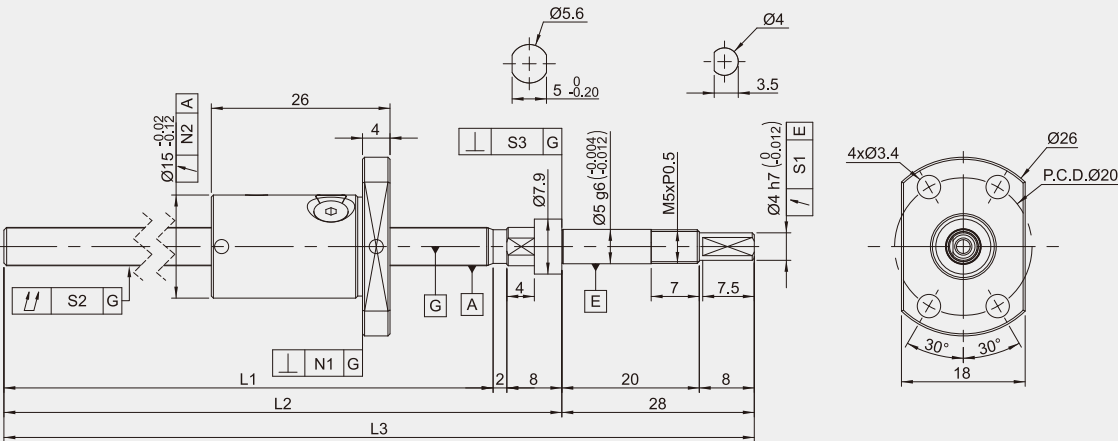
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
BS0602KS-RC5□-65R107-M	40	65	107	0.035	0.01	0.018	0.018
BS0602KS-RC7□-65R107-M				0.045	0.014	Travel Distance:±0.05/300	
BS0602KS-RC5□-95R137-M	70	95	137	0.035	0.01	0.018	0.018
BS0602KS-RC7□-95R137-M				0.045	0.014	Travel Distance:±0.05/300	
BS0602KS-RC5□-125R167-M	100	125	167	0.035	0.01	0.02	0.018
BS0602KS-RC7□-125R167-M				0.045	0.014	Travel Distance:±0.05/300	

BS0604-F

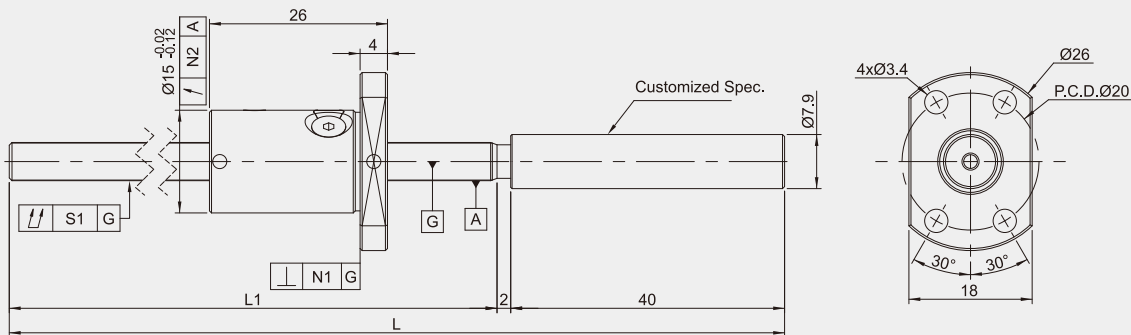
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	4			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1050			
Max. Static Load Coa(N)	1540			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS0604D3-RC5□-75R113-F	45	75	85	113	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0604D3-RC7□-75R113-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0604D3-RC5□-105R143-F	75	105	115	143	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0604D3-RC7□-105R143-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0604D3-RC5□-130R168-F	100	130	140	168	0.01	0.035	0.005	0.01	0.012	0.02	0.018
BS0604D3-RC7□-130R168-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	

BS0604-F Machining-less to the end shaft

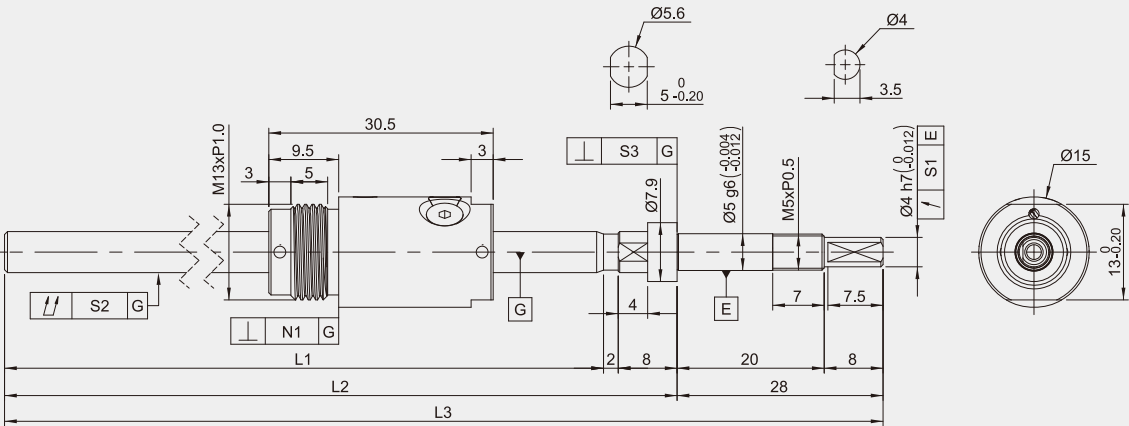
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	4			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1050			
Max. Static Load Coa(N)	1540			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS0604D3-RC5□-75R117-F	45	75	117	0.035	0.01	0.012	0.018	0.018
BS0604D3-RC7□-75R117-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0604D3-RC5□-105R147-F	75	105	147	0.035	0.01	0.012	0.018	0.018
BS0604D3-RC7□-105R147-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0604D3-RC5□-130R172-F	100	130	172	0.035	0.01	0.012	0.02	0.018
BS0604D3-RC7□-130R172-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	

BS0604-M

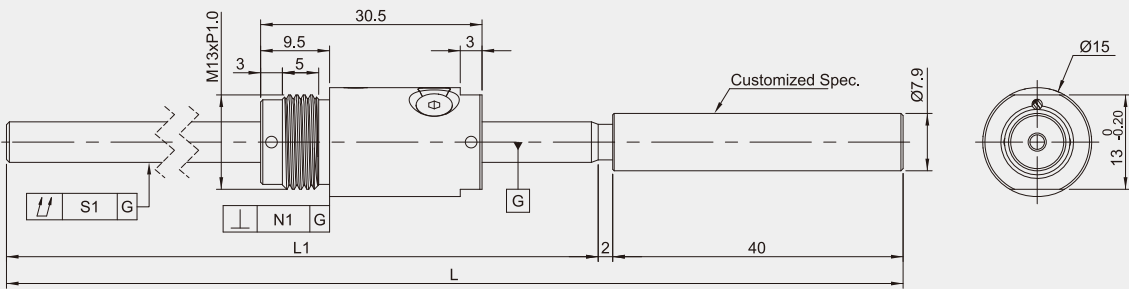
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	4			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1050			
Max. Static Load Coa(N)	1540			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	Mean Travel	Variation
BS0604D3-RC5□-75R113-M	40	75	85	113	0.01	0.035	0.005	0.01	0.018	0.018
BS0604D3-RC7□-75R113-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	
BS0604D3-RC5□-105R143-M	70	105	115	143	0.01	0.035	0.005	0.01	0.018	0.018
BS0604D3-RC7□-105R143-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	
BS0604D3-RC5□-130R168-M	95	130	140	168	0.01	0.035	0.005	0.01	0.02	0.018
BS0604D3-RC7□-130R168-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	

BS0604-M Machining-less to the end shaft

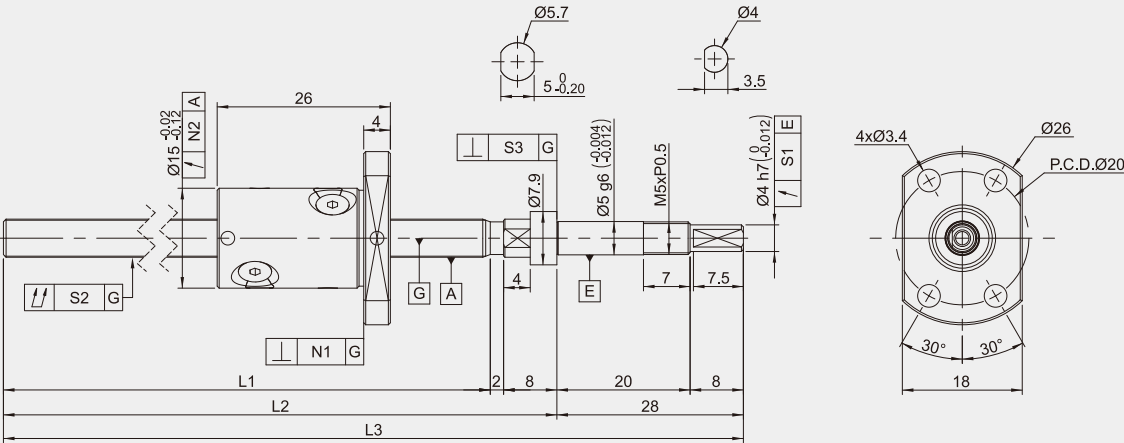
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	4			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1050			
Max. Static Load Coa(N)	1540			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
BS0604D3-RC5□-75R117-M	40	75	117	0.035	0.01	0.018	0.018
BS0604D3-RC7□-75R117-M				0.045	0.014	Travel Distance:±0.05/300	
BS0604D3-RC5□-105R147-M	70	105	147	0.035	0.01	0.018	0.018
BS0604D3-RC7□-105R147-M				0.045	0.014	Travel Distance:±0.05/300	
BS0604D3-RC5□-130R172-M	95	130	172	0.035	0.01	0.02	0.018
BS0604D3-RC7□-130R172-M				0.045	0.014	Travel Distance:±0.05/300	

BS0606-F

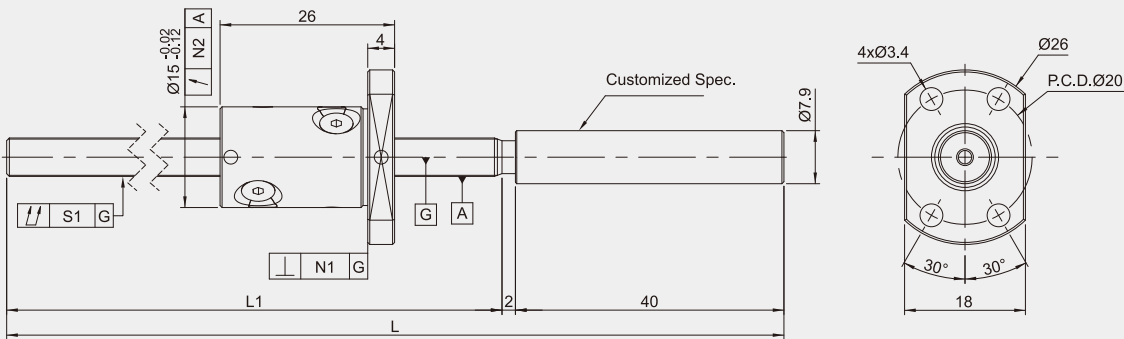
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	6			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1380			
Max. Static Load Coa(N)	1900			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS0606D2-RC5□-75R113-F	45	75	85	113	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0606D2-RC7□-75R113-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0606D2-RC5□-105R143-F	75	105	115	143	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0606D2-RC7□-105R143-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0606D2-RC5□-130R168-F	100	130	140	168	0.01	0.035	0.005	0.01	0.012	0.02	0.018
BS0606D2-RC7□-130R168-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	

BS0606-F Machining-less to the end shaft

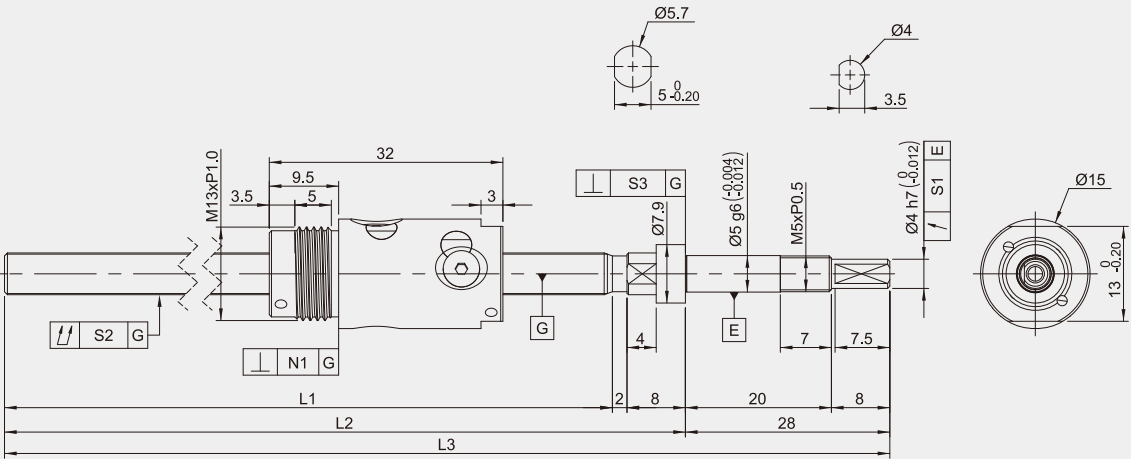
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	6			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1380			
Max. Static Load Coa(N)	1900			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS0606D2-RC5□-75R117-F	45	75	117	0.035	0.01	0.012	0.018	0.018
BS0606D2-RC7□-75R117-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0606D2-RC5□-105R147-F	75	105	147	0.035	0.01	0.012	0.018	0.018
BS0606D2-RC7□-105R147-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0606D2-RC5□-130R172-F	100	130	172	0.035	0.01	0.012	0.02	0.018
BS0606D2-RC7□-130R172-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	

BS0606-M

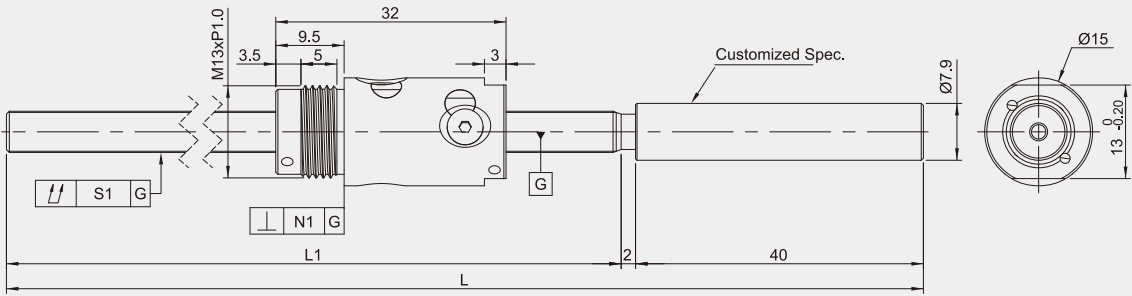
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	6			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1380			
Max. Static Load Coa(N)	1900			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	Mean Travel	Variation
BS0606D2-RC5□-75R113-M	40	75	85	113	0.01	0.035	0.005	0.01	0.018	0.018
BS0606D2-RC7□-75R113-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	
BS0606D2-RC5□-105R143-M	70	105	115	143	0.01	0.035	0.005	0.01	0.018	0.018
BS0606D2-RC7□-105R143-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	
BS0606D2-RC5□-130R168-M	95	130	140	168	0.01	0.035	0.005	0.01	0.02	0.018
BS0606D2-RC7□-130R168-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	

BS0606-M Machining-less to the end shaft

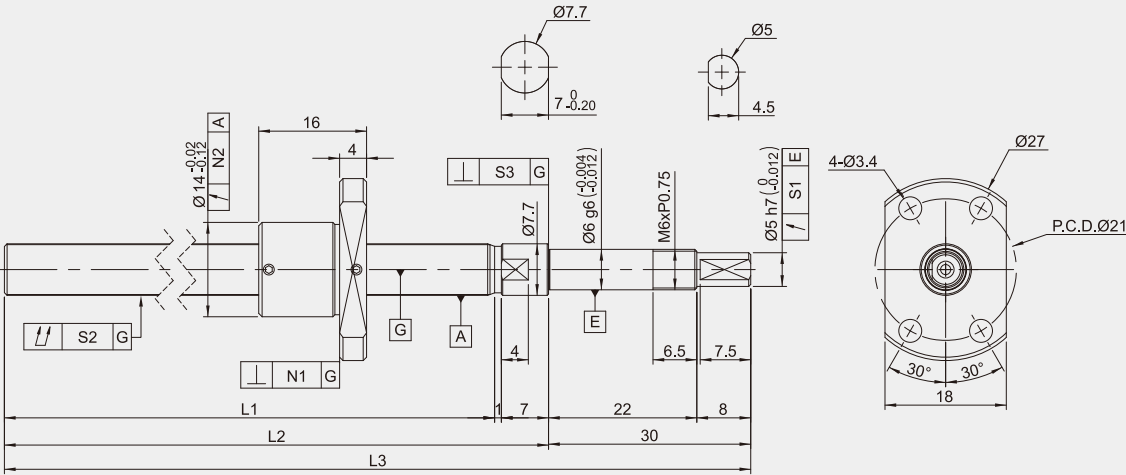
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	1.2			
Lead(mm)	6			
B.C.D(mm)	6.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1380			
Max. Static Load Coa(N)	1900			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
BS0606D2-RC5□-75R117-M	40	75	117	0.035	0.01	0.018	0.018
BS0606D2-RC7□-75R117-M				0.045	0.014	Travel Distance:±0.05/300	
BS0606D2-RC5□-105R147-M	70	105	147	0.035	0.01	0.018	0.018
BS0606D2-RC7□-105R147-M				0.045	0.014	Travel Distance:±0.05/300	
BS0606D2-RC5□-130R172-M	95	130	172	0.035	0.01	0.02	0.018
BS0606D2-RC7□-130R172-M				0.045	0.014	Travel Distance:±0.05/300	

BS0801-F

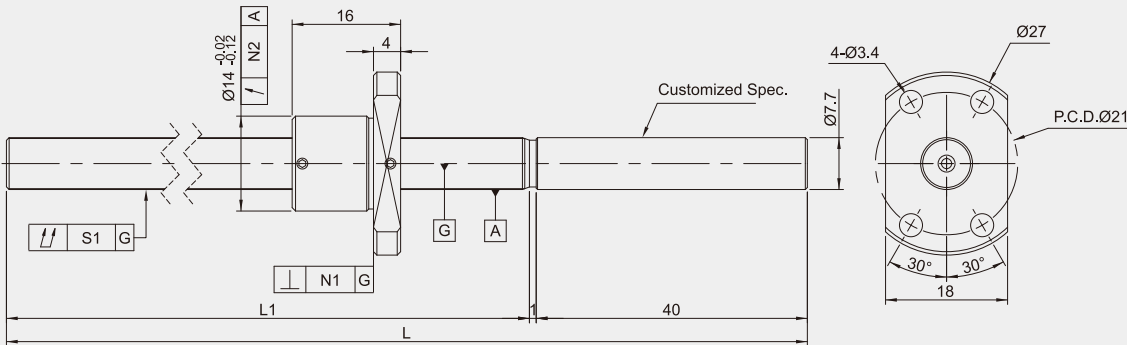
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS0801KS-RC5□-65R103-F	40	65	73	103	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0801KS-RC7□-65R103-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0801KS-RC5□-95R133-F	70	95	103	133	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0801KS-RC7□-95R133-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0801KS-RC5□-125R163-F	100	125	133	163	0.01	0.035	0.005	0.01	0.012	0.02	0.018
BS0801KS-RC7□-125R163-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: ±0.05/300	

BS0801-F Machining-less to the end shaft

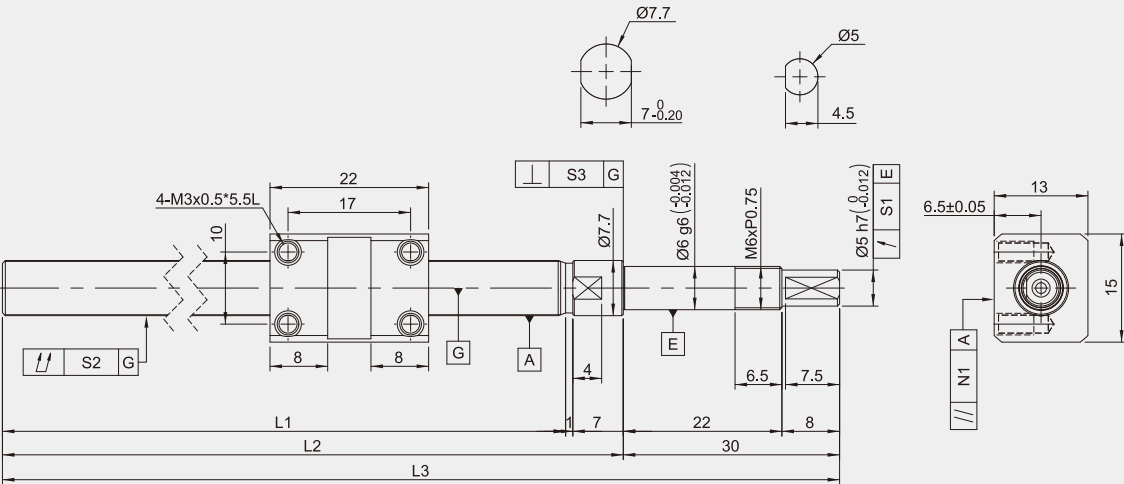
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS0801KS-RC5□-65R106-F	40	65	106	0.035	0.01	0.012	0.018	0.018
BS0801KS-RC7□-65R106-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0801KS-RC5□-95R136-F	70	95	136	0.035	0.01	0.012	0.018	0.018
BS0801KS-RC7□-95R136-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
BS0801KS-RC5□-125R166-F	100	125	166	0.035	0.01	0.012	0.02	0.018
BS0801KS-RC7□-125R166-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	

BS0801-H

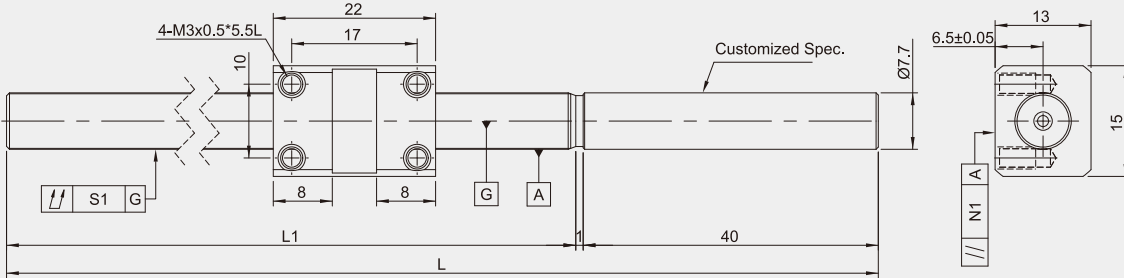
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS0801KS-RC5□-65R103-H	40	65	73	103	0.01	0.035	0.005	0.01	0.018	0.018
BS0801KS-RC7□-65R103-H					0.014	0.045	0.007	0.017	Travel Distance:±0.05/300	
BS0801KS-RC5□-95R133-H	70	95	103	133	0.01	0.035	0.005	0.01	0.018	0.018
BS0801KS-RC7□-95R133-H					0.014	0.045	0.007	0.017	Travel Distance:±0.05/300	
BS0801KS-RC5□-125R163-H	100	125	133	163	0.01	0.035	0.005	0.01	0.02	0.018
BS0801KS-RC7□-125R163-H					0.014	0.045	0.007	0.017	Travel Distance:±0.05/300	

BS0801-H Machining-less to the end shaft

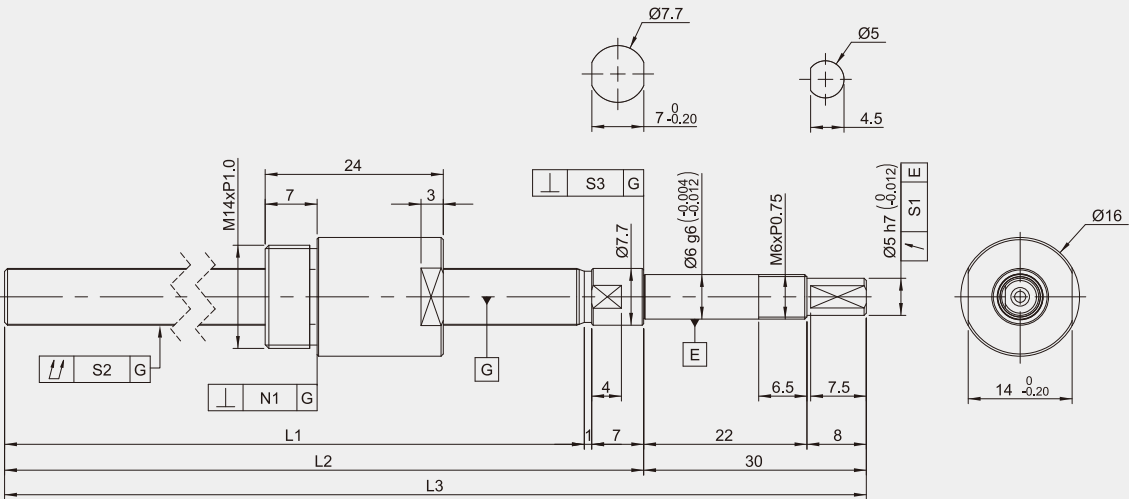
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS0801KS-RC5□-65R106-H	40	65	106	0.035	0.01	0.018	0.018
BS0801KS-RC7□-65R106-H				0.045	0.017	Travel Distance:±0.05/300	
BS0801KS-RC5□-95R136-H	70	95	136	0.035	0.01	0.018	0.018
BS0801KS-RC7□-95R136-H				0.045	0.017	Travel Distance:±0.05/300	
BS0801KS-RC5□-125R166-H	100	125	166	0.035	0.01	0.02	0.018
BS0801KS-RC7□-125R166-H				0.045	0.017	Travel Distance:±0.05/300	

BS0801-M

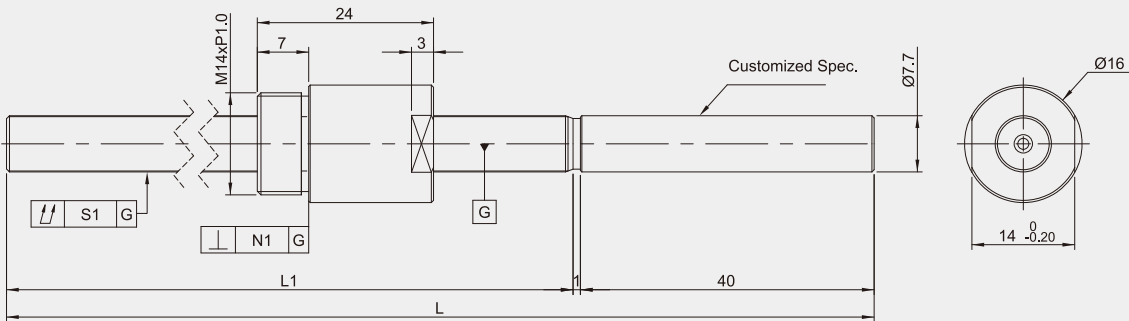
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	Mean Travel	Variation
BS0801KS-RC5□-65R103-M	40	65	73	103	0.01	0.035	0.005	0.01	0.018	0.018
BS0801KS-RC7□-65R103-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	
BS0801KS-RC5□-95R133-M	70	95	103	133	0.01	0.035	0.005	0.01	0.018	0.018
BS0801KS-RC7□-95R133-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	
BS0801KS-RC5□-125R163-M	100	125	133	163	0.01	0.035	0.005	0.01	0.02	0.018
BS0801KS-RC7□-125R163-M					0.014	0.045	0.007	0.014	Travel Distance:±0.05/300	

BS0801-M Machining-less to the end shaft

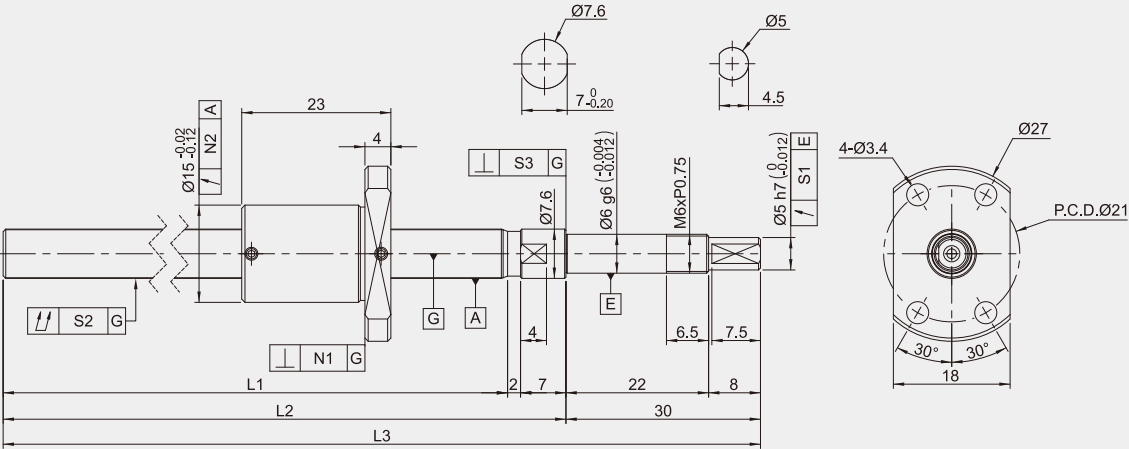
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
BS0801KS-RC5□-65R106-M	40	65	106	0.035	0.01	0.018	0.018
BS0801KS-RC7□-65R106-M				0.045	0.014	Travel Distance:±0.05/300	
BS0801KS-RC5□-95R136-M	70	95	136	0.035	0.01	0.018	0.018
BS0801KS-RC7□-95R136-M				0.045	0.014	Travel Distance:±0.05/300	
BS0801KS-RC5□-125R166-M	100	125	166	0.035	0.01	0.02	0.018
BS0801KS-RC7□-125R166-M				0.045	0.014	Travel Distance:±0.05/300	

BS0802-F

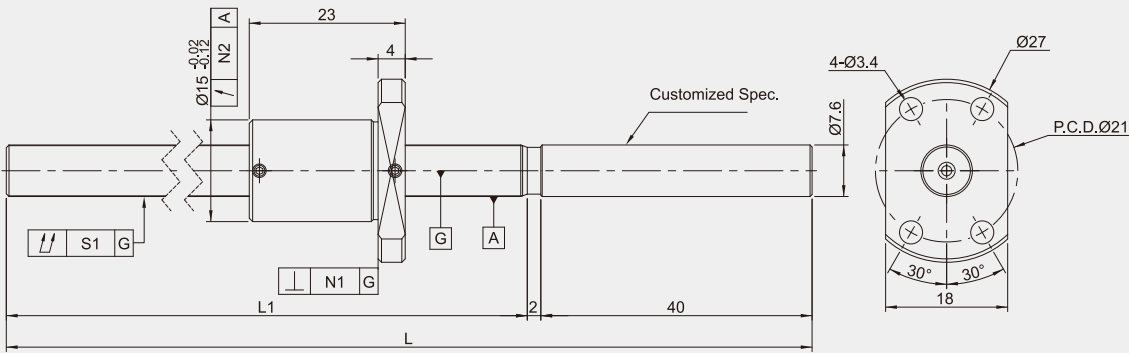
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	N2	Mean Travel	Variation
BS0802KS-RC5□-65R104-F	40	65	74	104	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0802KS-RC7□-65R104-F					0.014	0.045	0.007	0.014	0.02	Travel Distance:±0.05/300	
BS0802KS-RC5□-95R134-F	70	95	104	134	0.01	0.035	0.005	0.01	0.012	0.018	0.018
BS0802KS-RC7□-95R134-F					0.014	0.045	0.007	0.014	0.02	Travel Distance:±0.05/300	
BS0802KS-RC5□-125R164-F	100	125	134	164	0.01	0.035	0.005	0.01	0.012	0.02	0.018
BS0802KS-RC7□-125R164-F					0.014	0.045	0.007	0.014	0.02	Travel Distance:±0.05/300	

BS0802-F Machining-less to the end shaft

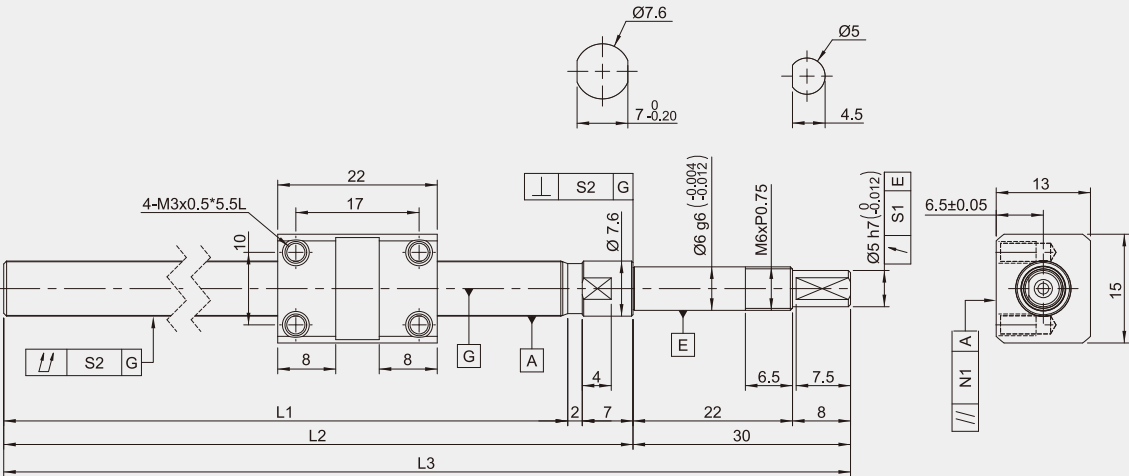
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L	S1	N1	N2	Mean Travel	Variation
BS0802KS-RC5□-65R107-F	40	65	107	0.035	0.01	0.012	0.018	0.018
BS0802KS-RC7□-65R107-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
BS0802KS-RC5□-95R137-F	70	95	137	0.035	0.01	0.012	0.018	0.018
BS0802KS-RC7□-95R137-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
BS0802KS-RC5□-125R167-F	100	125	167	0.035	0.01	0.012	0.02	0.018
BS0802KS-RC7□-125R167-F				0.045	0.014	0.02	Travel Distance:±0.05/300	

BS0802-H

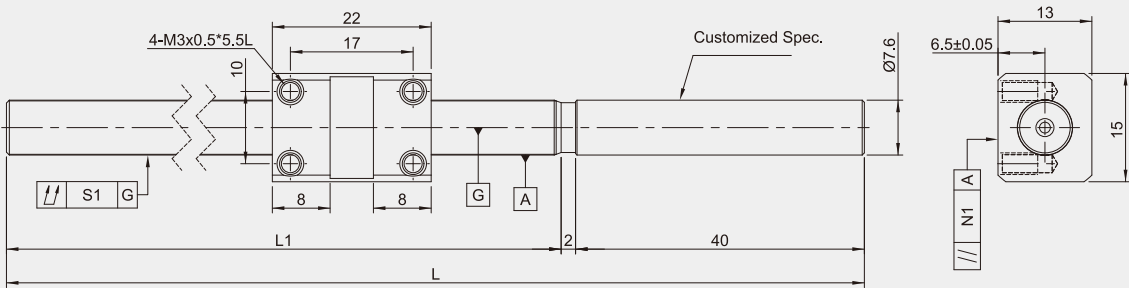
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS0802KS-RC5□-65R104-H	40	65	74	104	0.01	0.035	0.005	0.01	0.018	0.018
BS0802KS-RC7□-65R104-H					0.014	0.045	0.007	0.017	Travel Distance: ±0.05/300	
BS0802KS-RC5□-95R134-H	70	95	104	134	0.01	0.035	0.005	0.01	0.018	0.018
BS0802KS-RC7□-95R134-H					0.014	0.045	0.007	0.017	Travel Distance: ±0.05/300	
BS0802KS-RC5□-125R164-H	100	125	134	164	0.01	0.035	0.005	0.01	0.02	0.018
BS0802KS-RC7□-125R164-H					0.014	0.045	0.007	0.017	Travel Distance: ±0.05/300	

BS0802-H Machining-less to the end shaft

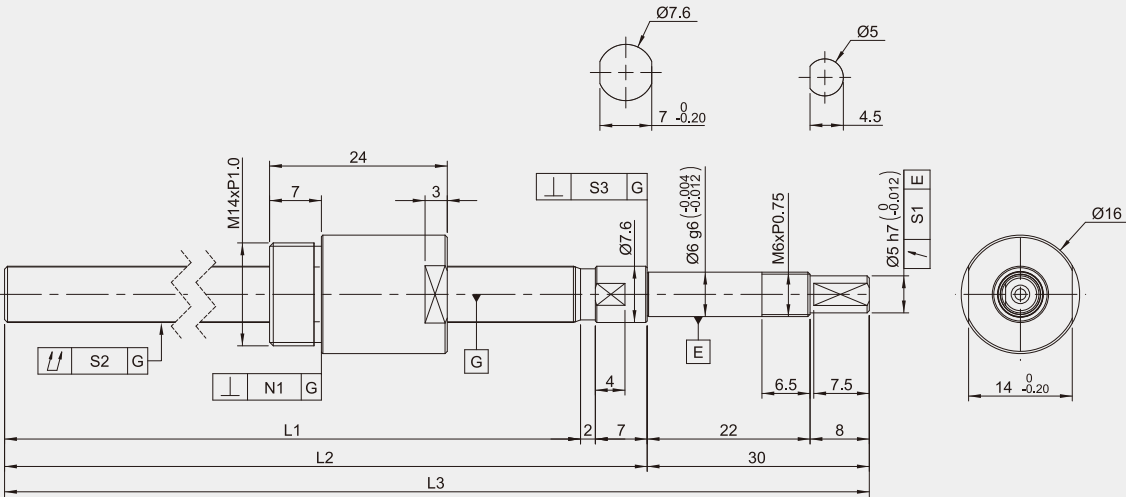
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS0802KS-RC5□-65R107-H	40	65	107	0.035	0.01	0.018	0.018
BS0802KS-RC7□-65R107-H				0.045	0.017	Travel Distance: ±0.05/300	
BS0802KS-RC5□-95R137-H	70	95	137	0.035	0.01	0.018	0.018
BS0802KS-RC7□-95R137-H				0.045	0.017	Travel Distance: ±0.05/300	
BS0802KS-RC5□-125R167-H	100	125	167	0.035	0.01	0.02	0.018
BS0802KS-RC7□-125R167-H				0.045	0.017	Travel Distance: ±0.05/300	

BS0802-M

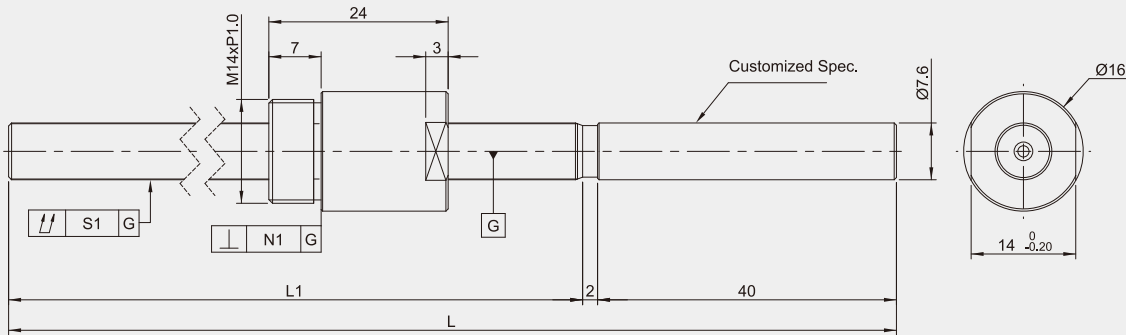
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS0802KS-RC5□-65R104-M	40	65	74	104	0.01	0.035	0.005	0.01	0.018	0.018
BS0802KS-RC7□-65R104-M					0.014	0.045	0.007	0.014	Travel Distance: ±0.05/300	
BS0802KS-RC5□-95R134-M	70	95	104	134	0.01	0.035	0.005	0.01	0.018	0.018
BS0802KS-RC7□-95R134-M					0.014	0.045	0.007	0.014	Travel Distance: ±0.05/300	
BS0802KS-RC5□-125R164-M	100	125	134	164	0.01	0.035	0.005	0.01	0.02	0.018
BS0802KS-RC7□-125R164-M					0.014	0.045	0.007	0.014	Travel Distance: ±0.05/300	

BS0802-M Machining-less to the end shaft

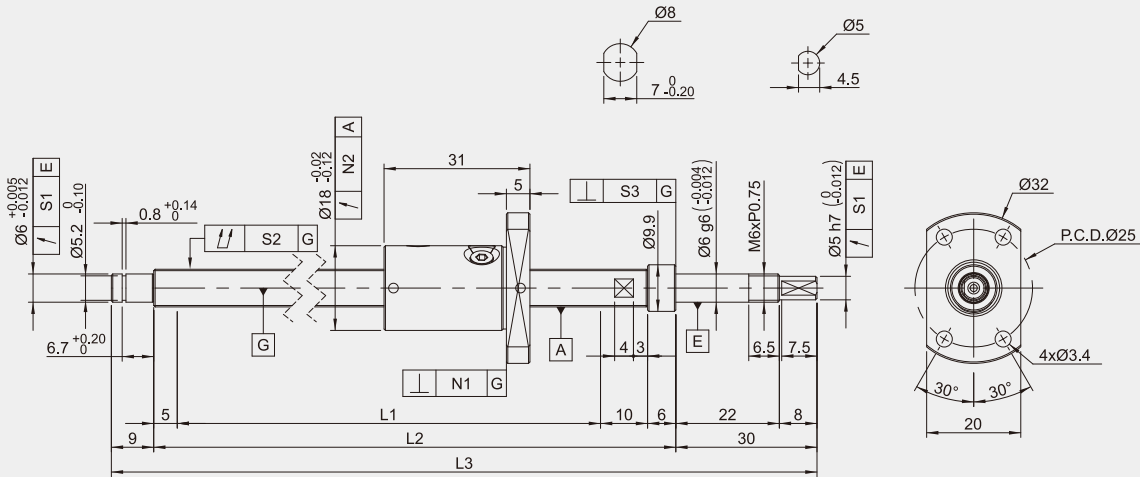
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS0802KS-RC5□-65R107-M	40	65	107	0.035	0.01	0.018	0.018
BS0802KS-RC7□-65R107-M				0.045	0.014	Travel Distance: ±0.05/300	
BS0802KS-RC5□-95R137-M	70	95	137	0.035	0.01	0.018	0.018
BS0802KS-RC7□-95R137-M				0.045	0.014	Travel Distance: ±0.05/300	
BS0802KS-RC5□-125R167-M	100	125	167	0.035	0.01	0.02	0.018
BS0802KS-RC7□-125R167-M				0.045	0.014	Travel Distance: ±0.05/300	

BS0805-F

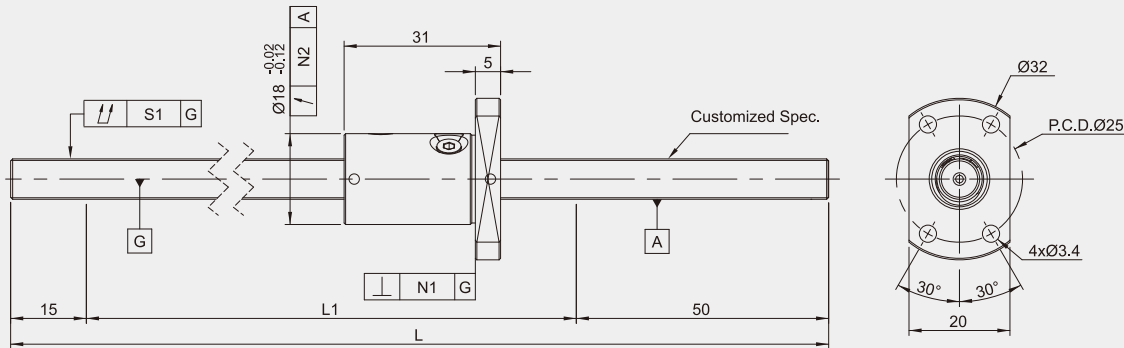
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2550			
Max. Static Load Coa(N)	3780			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS0805D3-RC5□-190R250-F	150	190	211	250	0.01	0.05	0.005	0.01	0.012	0.02	0.018
BS0805D3-RC7□-190R250-F					0.014	0.065	0.007	0.014	0.02	Travel Distance:±0.05/300	
BS0805D3-RC5□-240R300-F	200	240	261	300	0.01	0.065	0.005	0.01	0.012	0.023	0.018
BS0805D3-RC7□-240R300-F					0.014	0.08	0.007	0.014	0.02	Travel Distance:±0.05/300	
BS0805D3-RC5□-290R350-F	250	290	311	350	0.01	0.065	0.005	0.01	0.012	0.023	0.018
BS0805D3-RC7□-290R350-F					0.014	0.08	0.007	0.014	0.02	Travel Distance:±0.05/300	

BS0805-F Machining-less to the end shaft

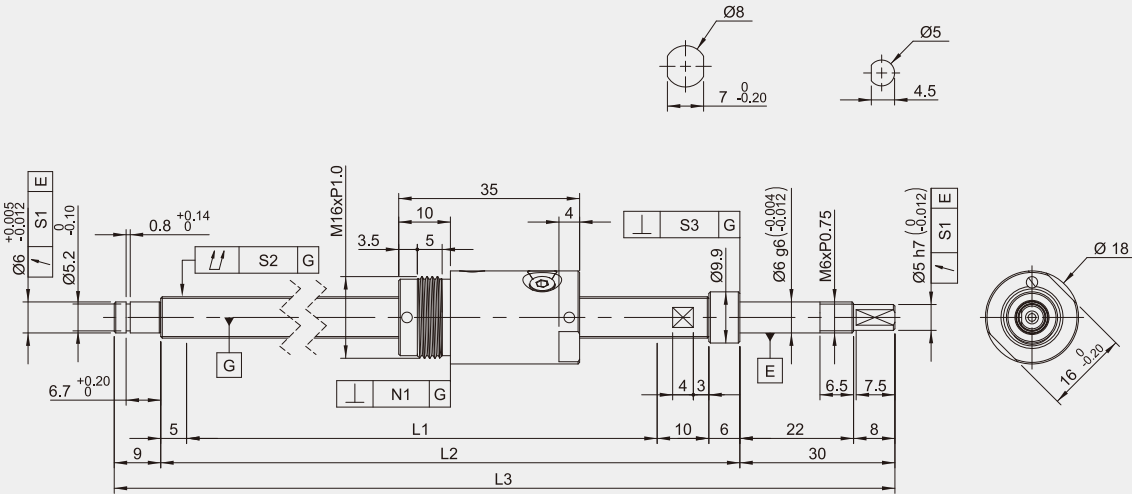
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2550			
Max. Static Load Coa(N)	3780			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS0805D3-RC5□-190R255-F	150	190	255	0.05	0.01	0.012	0.02	0.018
BS0805D3-RC7□-190R255-F				0.065	0.014	0.02	Travel Distance:±0.05/300	
BS0805D3-RC5□-240R305-F	200	240	305	0.065	0.01	0.012	0.023	0.018
BS0805D3-RC7□-240R305-F				0.08	0.014	0.02	Travel Distance:±0.05/300	
BS0805D3-RC5□-290R355-F	250	290	355	0.065	0.01	0.012	0.023	0.018
BS0805D3-RC7□-290R355-F				0.08	0.014	0.02	Travel Distance:±0.05/300	

BS0805-M

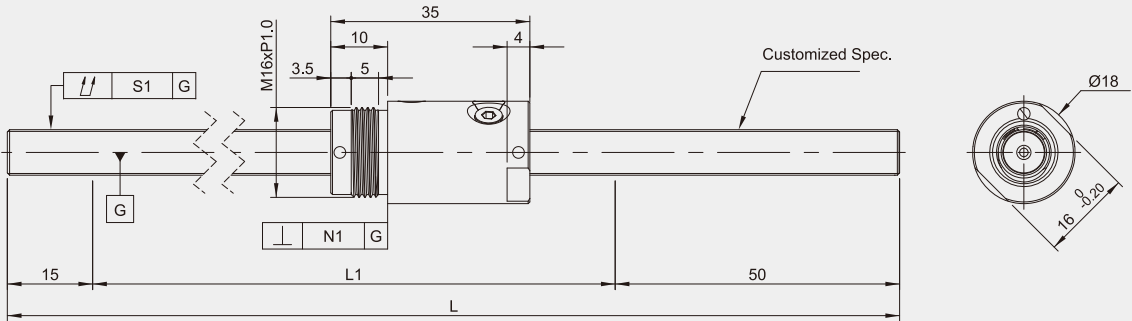
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2550			
Max. Static Load Coa(N)	3780			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS0805D3-RC5□-190R250-M	150	190	211	250	0.01	0.05	0.005	0.01	0.02	0.018
BS0805D3-RC7□-190R250-M					0.014	0.065	0.007	0.014	Travel Distance: ±0.05/300	
BS0805D3-RC5□-240R300-M	200	240	261	300	0.01	0.065	0.005	0.01	0.023	0.018
BS0805D3-RC7□-240R300-M					0.014	0.08	0.007	0.014	Travel Distance: ±0.05/300	
BS0805D3-RC5□-290R350-M	250	290	311	350	0.01	0.065	0.005	0.01	0.023	0.018
BS0805D3-RC7□-290R350-M					0.014	0.08	0.007	0.014	Travel Distance: ±0.05/300	

BS0805-M Machining-less to the end shaft

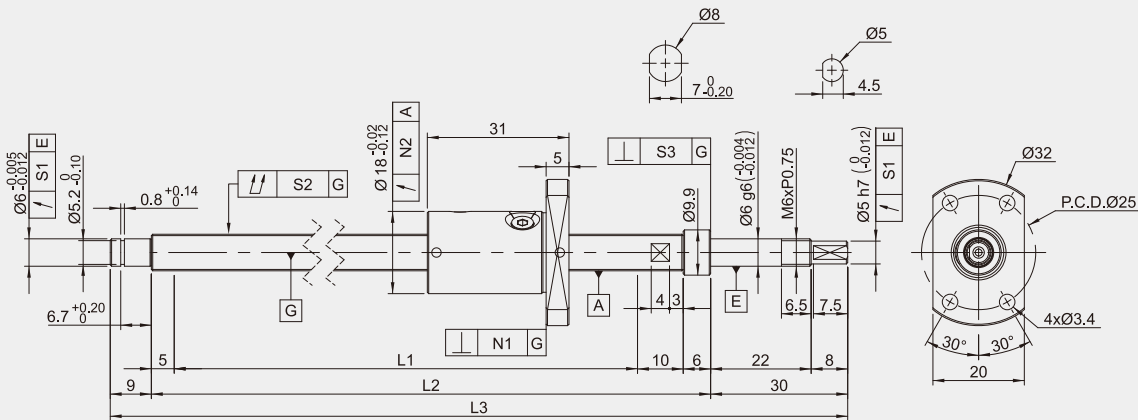
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2550			
Max. Static Load Coa(N)	3780			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS0805D3-RC5□-190R255-M	150	190	255	0.05	0.01	0.02	0.018
BS0805D3-RC7□-190R255-M				0.065	0.014	Travel Distance: ±0.05/300	
BS0805D3-RC5□-240R305-M	200	240	305	0.065	0.01	0.023	0.018
BS0805D3-RC7□-240R305-M				0.08	0.014	Travel Distance: ±0.05/300	
BS0805D3-RC5□-290R355-M	250	290	355	0.065	0.01	0.023	0.018
BS0805D3-RC7□-290R355-M				0.08	0.014	Travel Distance: ±0.05/300	

BS0808-F

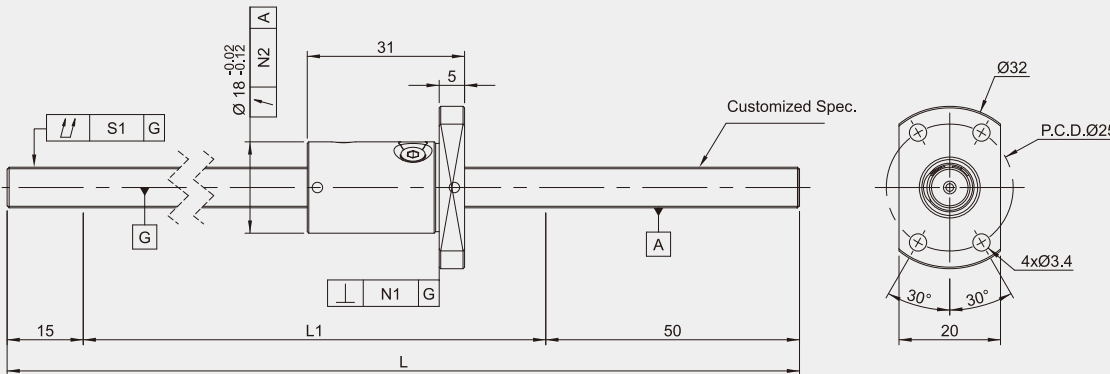
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	8			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1680			
Max. Static Load Coa(N)	2320			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS0808D1-RC5□-190R250-F	150	190	211	250	0.01	0.05	0.005	0.01	0.012	0.02	0.018
BS0808D1-RC7□-190R250-F					0.014	0.065	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0808D1-RC5□-240R300-F	200	240	261	300	0.01	0.065	0.005	0.01	0.012	0.023	0.018
BS0808D1-RC7□-240R300-F					0.014	0.08	0.007	0.014	0.02	Travel Distance: ±0.05/300	
BS0808D1-RC5□-290R350-F	250	290	311	350	0.01	0.065	0.005	0.01	0.012	0.023	0.018
BS0808D1-RC7□-290R350-F					0.014	0.08	0.007	0.014	0.02	Travel Distance: ±0.05/300	

BS0808-F Machining-less to the end shaft

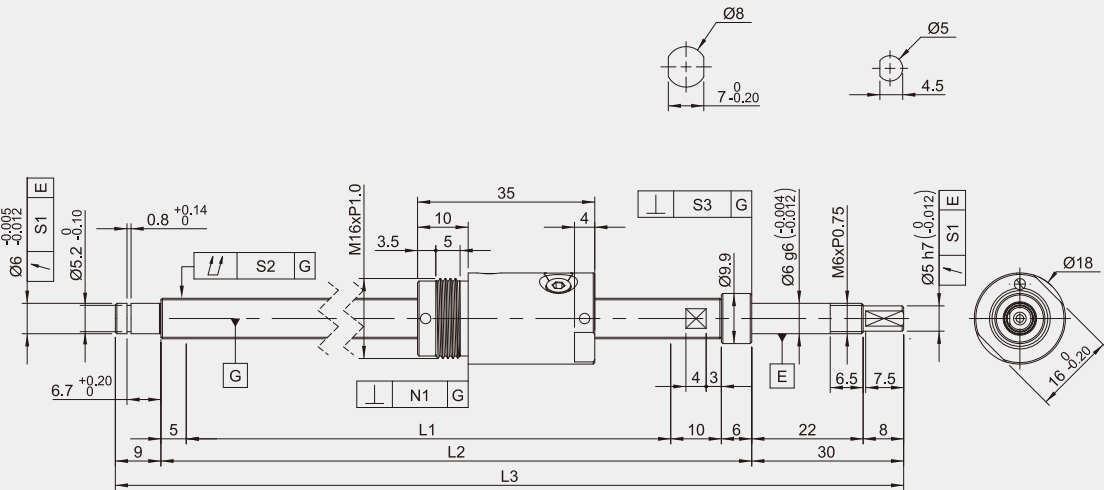
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	8			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1680			
Max. Static Load Coa(N)	2320			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS0808D1-RC5□-190R255-F	150	190	255	0.05	0.01	0.012	0.02	0.018
BS0808D1-RC7□-190R255-F				0.065	0.014	0.02	Travel Distance: ±0.05/300	
BS0808D1-RC5□-240R305-F	200	240	305	0.065	0.01	0.012	0.023	0.018
BS0808D1-RC7□-240R305-F				0.08	0.014	0.02	Travel Distance: ±0.05/300	
BS0808D1-RC5□-290R355-F	250	290	355	0.065	0.01	0.012	0.023	0.018
BS0808D1-RC7□-290R355-F				0.08	0.014	0.02	Travel Distance: ±0.05/300	

BS0808-M

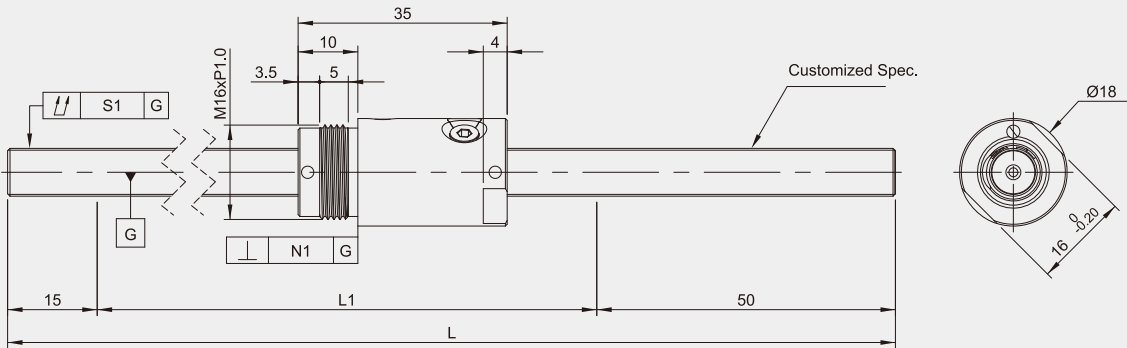
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	8			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1680			
Max. Static Load Coa(N)	2320			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS0808D1-RC5□-190R250-M	150	190	211	250	0.01	0.05	0.005	0.01	0.02	0.018
BS0808D1-RC7□-190R250-M					0.014	0.065	0.007	0.014	Travel Distance: ±0.05/300	
BS0808D1-RC5□-240R300-M	200	240	261	300	0.01	0.065	0.005	0.01	0.023	0.018
BS0808D1-RC7□-240R300-M					0.014	0.08	0.007	0.014	Travel Distance: ±0.05/300	
BS0808D1-RC5□-290R350-M	250	290	311	350	0.01	0.065	0.005	0.01	0.023	0.018
BS0808D1-RC7□-290R350-M					0.014	0.08	0.007	0.014	Travel Distance: ±0.05/300	

BS0808-M Machining-less to the end shaft

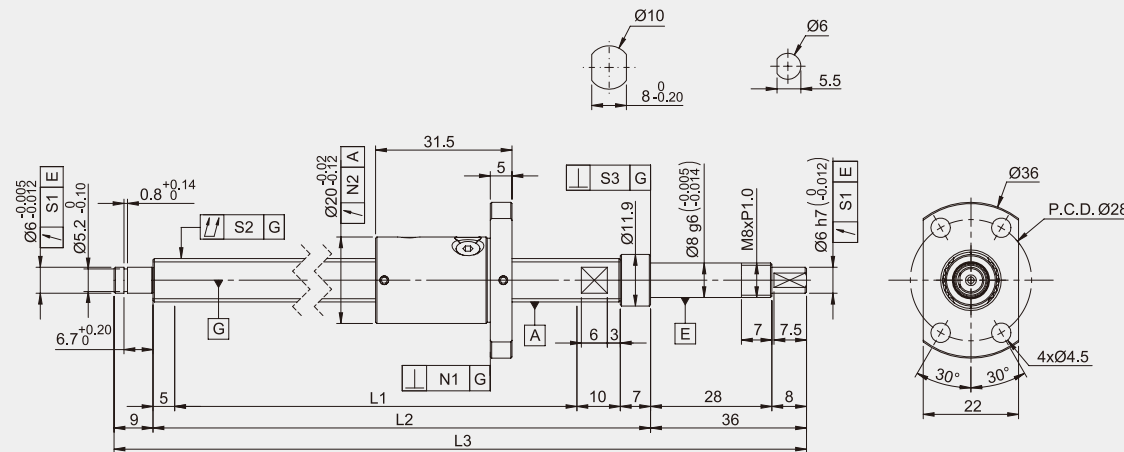
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	2			
Lead(mm)	8			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1680			
Max. Static Load Coa(N)	2320			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS0808D1-RC5□-190R255-M	150	190	255	0.05	0.01	0.02	0.018
BS0808D1-RC7□-190R255-M				0.065	0.014	Travel Distance: ±0.05/300	
BS0808D1-RC5□-240R305-M	200	240	305	0.065	0.01	0.023	0.018
BS0808D1-RC7□-240R305-M				0.08	0.014	Travel Distance: ±0.05/300	
BS0808D1-RC5□-290R355-M	250	290	355	0.065	0.01	0.023	0.018
BS0808D1-RC7□-290R355-M				0.08	0.014	Travel Distance: ±0.05/300	

BS1005-F

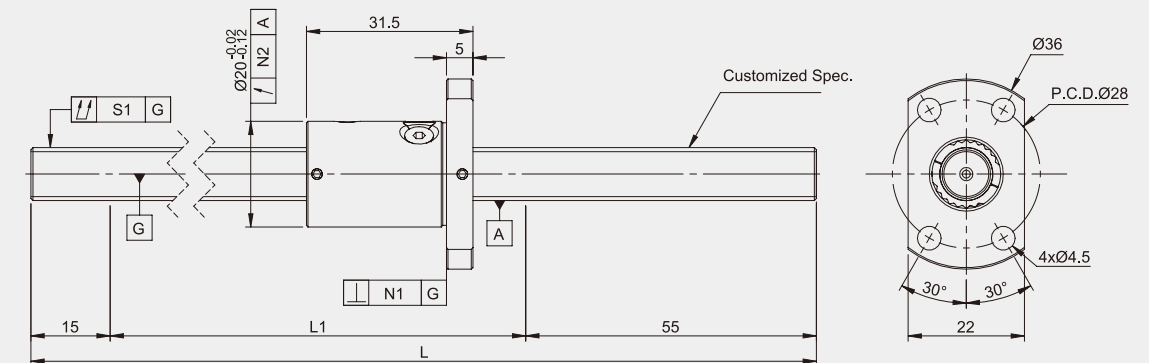
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2920			
Max. Static Load Coa(N)	4920			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3	S1	S2	S3	N1	N2	Mean Travel	Variation
BS1005D3-RC5□-190R257-F	150	190	212	257	0.011	0.04	0.005	0.01	0.012	0.02	0.018
BS1005D3-RC7□-190R257-F					0.014	0.045	0.007	0.014	0.02	Travel Distance:±0.05/300	
BS1005D3-RC5□-340R407-F	300	340	362	407	0.011	0.065	0.005	0.01	0.012	0.025	0.020
BS1005D3-RC7□-340R407-F					0.014	0.08	0.007	0.014	0.02	Travel Distance:±0.05/300	
BS1005D3-RC5□-490R557-F	450	490	512	557	0.011	0.08	0.005	0.01	0.012	0.027	0.020
BS1005D3-RC7□-490R557-F					0.014	0.095	0.007	0.014	0.02	Travel Distance:±0.05/300	

BS1005-F Machining-less to the end shaft

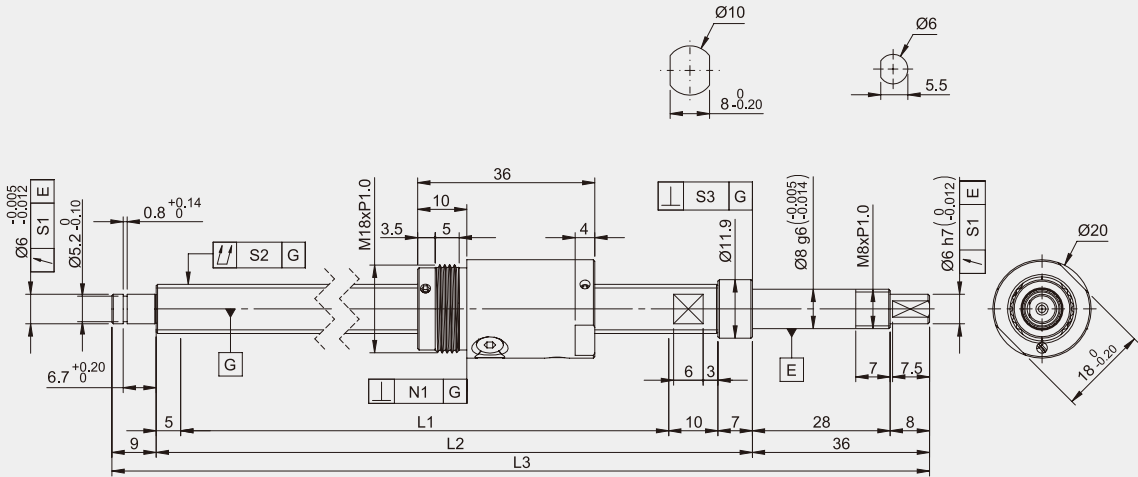
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2920			
Max. Static Load Coa(N)	4920			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L	S1	N1	N2	Mean Travel	Variation
BS1005D3-RC5□-190R260-F	150	190	260	0.04	0.01	0.012	0.02	0.018
BS1005D3-RC7□-190R260-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
BS1005D3-RC5□-340R410-F	300	340	410	0.065	0.01	0.012	0.025	0.018
BS1005D3-RC7□-340R410-F				0.08	0.014	0.02	Travel Distance:±0.05/300	
BS1005D3-RC5□-490R560-F	450	490	560	0.08	0.01	0.012	0.027	0.018
BS1005D3-RC7□-490R560-F				0.09	0.014	0.02	Travel Distance:±0.05/300	

BS1005-M

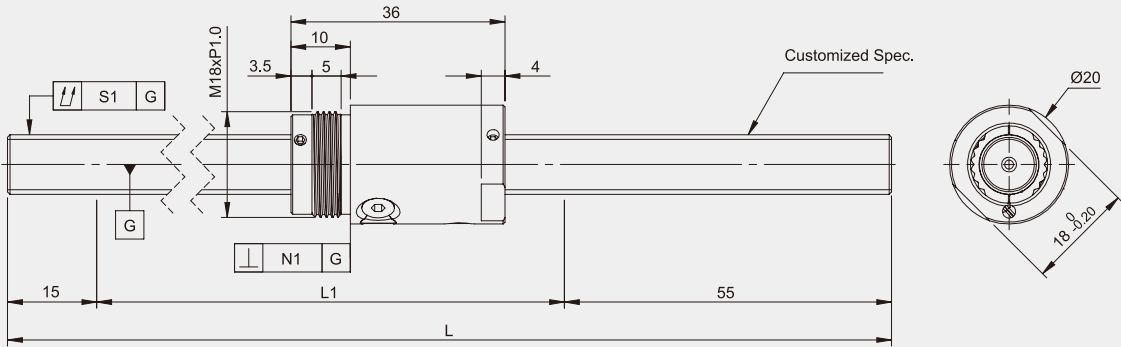
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2920			
Max. Static Load Coa(N)	4920			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS1005D3-RC5□-190R257-M	150	190	212	257	0.011	0.04	0.005	0.01	0.02	0.018
BS1005D3-RC7□-190R257-M					0.014	0.045	0.007	0.014	Travel Distance: ±0.05/300	
BS1005D3-RC5□-340R407-M	300	340	362	407	0.011	0.065	0.005	0.01	0.025	0.020
BS1005D3-RC7□-340R407-M					0.014	0.08	0.007	0.014	Travel Distance: ±0.05/300	
BS1005D3-RC5□-490R557-M	450	490	512	557	0.011	0.08	0.005	0.01	0.027	0.020
BS1005D3-RC7□-490R557-M					0.014	0.095	0.007	0.014	Travel Distance: ±0.05/300	

BS1005-M Machining-less to the end shaft

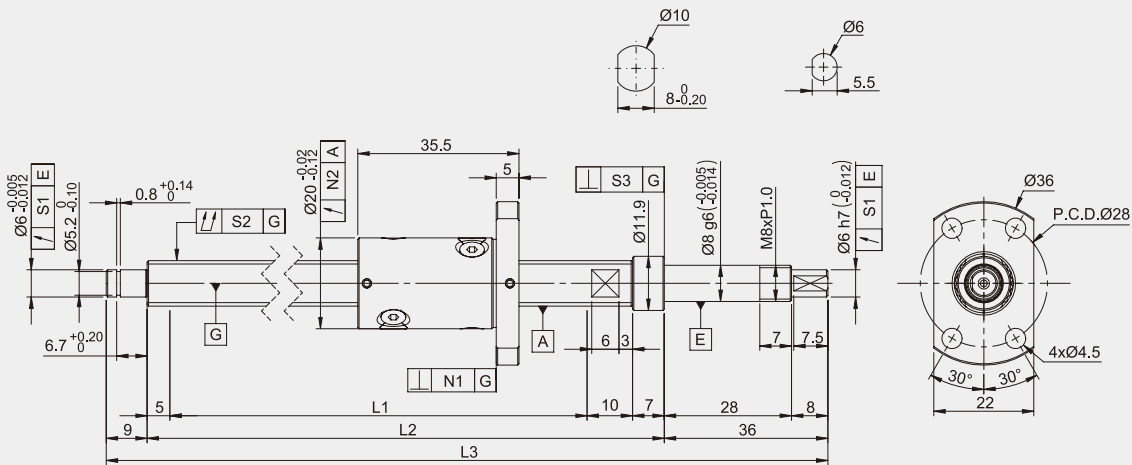
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	5			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	2.7 Returns x 1 Circuit			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	2920			
Max. Static Load Coa(N)	4920			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS1005D3-RC5□-190R260-M	150	190	260	0.04	0.01	0.02	0.018
BS1005D3-RC7□-190R260-M				0.045	0.014	Travel Distance: ±0.05/300	
BS1005D3-RC5□-340R410-M	300	340	410	0.065	0.01	0.025	0.018
BS1005D3-RC7□-340R410-M				0.08	0.014	Travel Distance: ±0.05/300	
BS1005D3-RC5□-490R560-M	450	490	560	0.08	0.01	0.027	0.018
BS1005D3-RC7□-490R560-M				0.09	0.014	Travel Distance: ±0.05/300	

BS1010-F

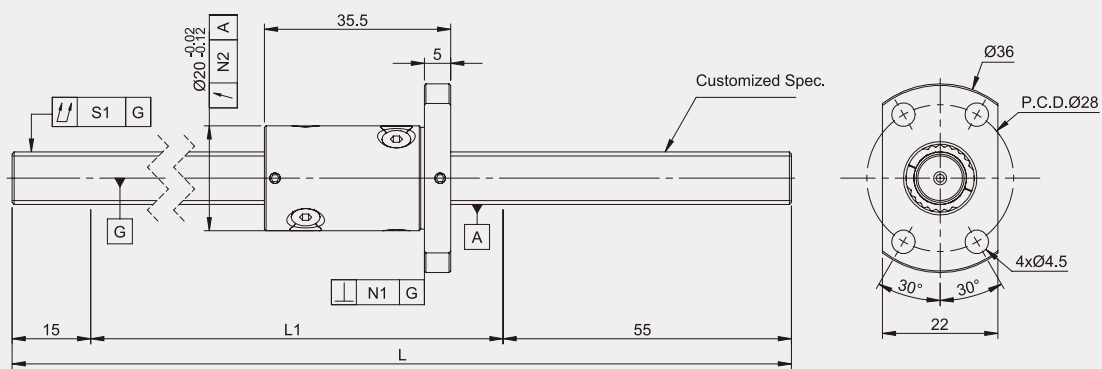
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	10			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	3860			
Max. Static Load Coa(N)	6000			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Nut Deviation Tolerance	Lead Accuracy	
		L1	L2	L3						Mean Travel	Variation
BS1010D2-RC5□-190R257-F	150	190	212	257	0.011	0.04	0.005	0.01	0.012	0.02	0.018
BS1010D2-RC7□-190R257-F					0.014	0.045	0.007	0.014	0.02	Travel Distance: $\pm 0.05/300$	
BS1010D2-RC5□-340R407-F	300	340	362	407	0.011	0.065	0.005	0.01	0.012	0.025	0.020
BS1010D2-RC7□-340R407-F					0.014	0.08	0.007	0.014	0.02	Travel Distance: $\pm 0.05/300$	
BS1010D2-RC5□-490R557-F	450	490	512	557	0.011	0.08	0.005	0.01	0.012	0.027	0.020
BS1010D2-RC7□-490R557-F					0.014	0.095	0.007	0.014	0.02	Travel Distance: $\pm 0.05/300$	

BS1010-F Machining-less to the end shaft

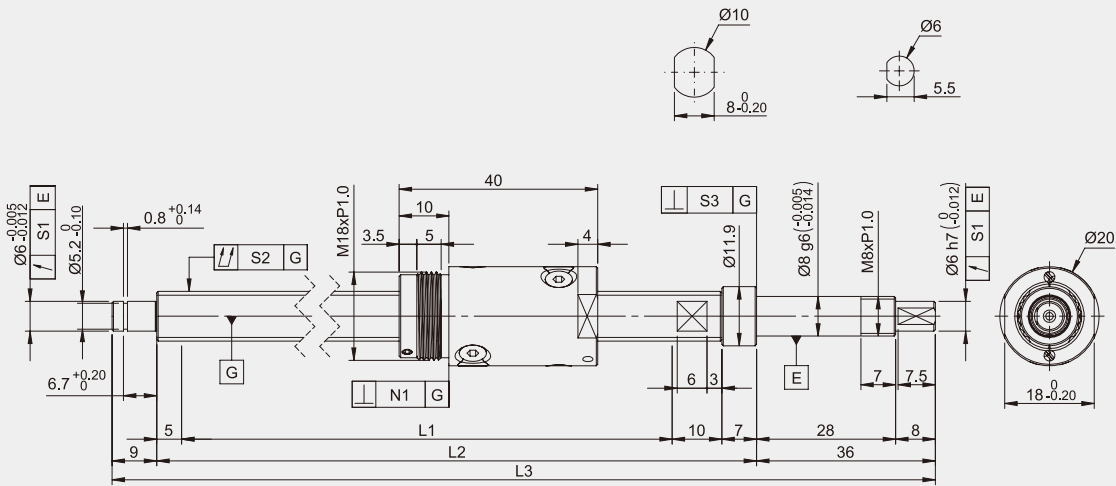
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	10			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	3860			
Max. Static Load Coa(N)	6000			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
BS1010D2-RC5□-190R260-F	150	190	260	0.04	0.01	0.012	0.02	0.018
BS1010D2-RC7□-190R260-F				0.045	0.014	0.02	Travel Distance: $\pm 0.05/300$	
BS1010D2-RC5□-340R410-F	300	340	410	0.065	0.01	0.012	0.025	0.018
BS1010D2-RC7□-340R410-F				0.08	0.014	0.02	Travel Distance: $\pm 0.05/300$	
BS1010D2-RC5□-490R560-F	450	490	560	0.08	0.01	0.012	0.027	0.018
BS1010D2-RC7□-490R560-F				0.09	0.014	0.02	Travel Distance: $\pm 0.05/300$	

BS1010-M

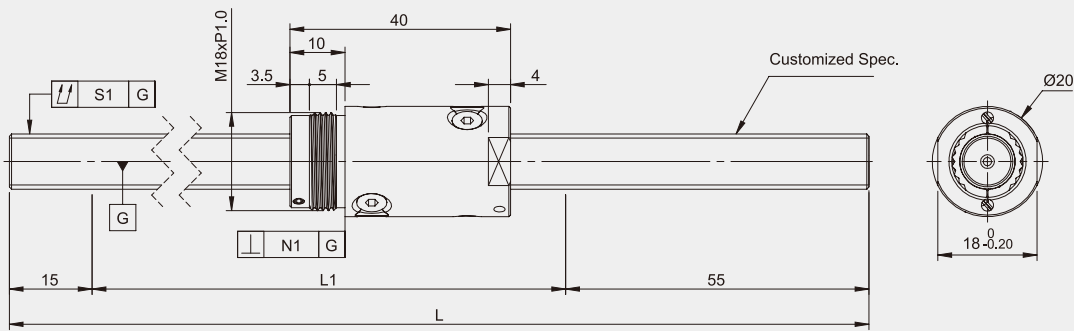
Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	10			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	3860			
Max. Static Load Coa(N)	6000			



Specification	Stroke	Shaft Length			Deviation Tolerance	Cumulative Deviation Tolerance	Bearing Seat Verticality Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L2	L3					Mean Travel	Variation
BS1010D2-RC5□-190R257-M	150	190	212	257	0.011	0.04	0.005	0.01	0.02	0.018
BS1010D2-RC7□-190R257-M					0.014	0.045	0.007	0.014	Travel Distance: ±0.05/300	
BS1010D2-RC5□-340R407-M	300	340	362	407	0.011	0.065	0.005	0.01	0.025	0.020
BS1010D2-RC7□-340R407-M					0.014	0.08	0.007	0.014	Travel Distance: ±0.05/300	
BS1010D2-RC5□-490R557-M	450	490	512	557	0.011	0.08	0.005	0.01	0.027	0.020
BS1010D2-RC7□-490R557-M					0.014	0.095	0.007	0.014	Travel Distance: ±0.05/300	

BS1010-M Machining-less to the end shaft

Rolled Ball Screw				
Nominal Dia(mm)	10			
Ball Dia(mm)	2			
Lead(mm)	10			
B.C.D(mm)	10.5			
Thread Direction	Right Hand			
Circuits	1.7 Returns x 2 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	3860			
Max. Static Load Coa(N)	6000			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
BS1010D2-RC5□-190R260-M	150	190	260	0.04	0.01	0.02	0.018
BS1010D2-RC7□-190R260-M				0.045	0.014	Travel Distance: ±0.05/300	
BS1010D2-RC5□-340R410-M	300	340	410	0.065	0.01	0.025	0.018
BS1010D2-RC7□-340R410-M				0.08	0.014	Travel Distance: ±0.05/300	
BS1010D2-RC5□-490R560-M	450	490	560	0.08	0.01	0.027	0.018
BS1010D2-RC7□-490R560-M				0.09	0.014	Travel Distance: ±0.05/300	

MS 2P28 Z - 12 05 KS -

Ref.		Motor Size		Motor Axial Clearance		Dia	Lead	Circulation Types	
MS	Stepper Motor+Ball Screw	2P28	2phase 28mm	Z	(0mm) Preloaded	06	01	D1	Internal Return=1.7 returns per circuit
		2P42	2phase 42mm	N	(Xmm) Non-preloaded	08	02	D2	Internal Return=1.7 returns x 2 circuits
							04	D3	Internal Return=2.7 returns per circuit
							05	KS	Internal Key Way=3 returns per circuit

R C7 X - 900 R 1000 - M

Machining Process		Accuracy	Axial Backlash		Thread Length	Thread Direction		Full Length	Nut Type	
G	Ground	C5	X	(0mm) preloaded		R	Right Hand		M	Threaded
R	Rolled	C7	Y	< 0.005mm		L	Left Hand		F	Flanged
			Z	< 0.01mm		RL	Left & Right Hand		H	Rectangular

Models

Threaded



Flanged

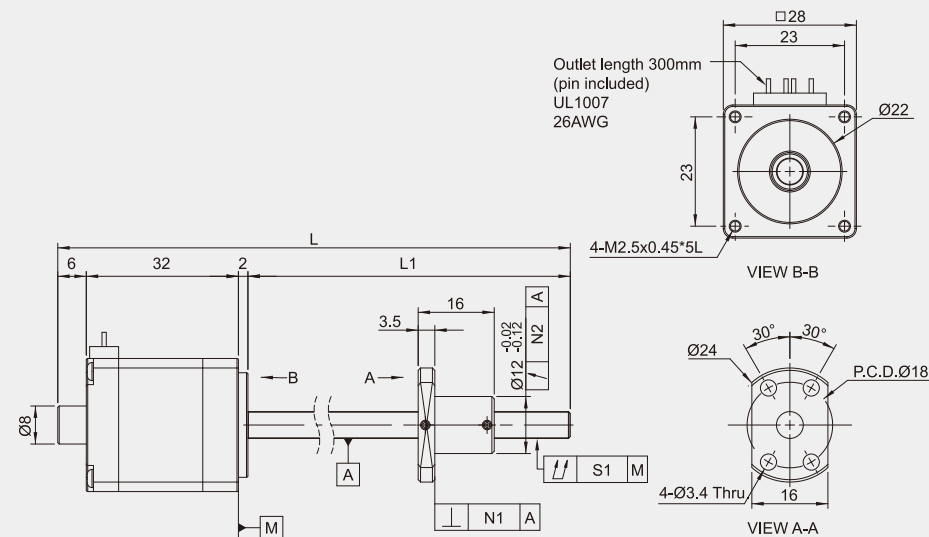


Rectangular



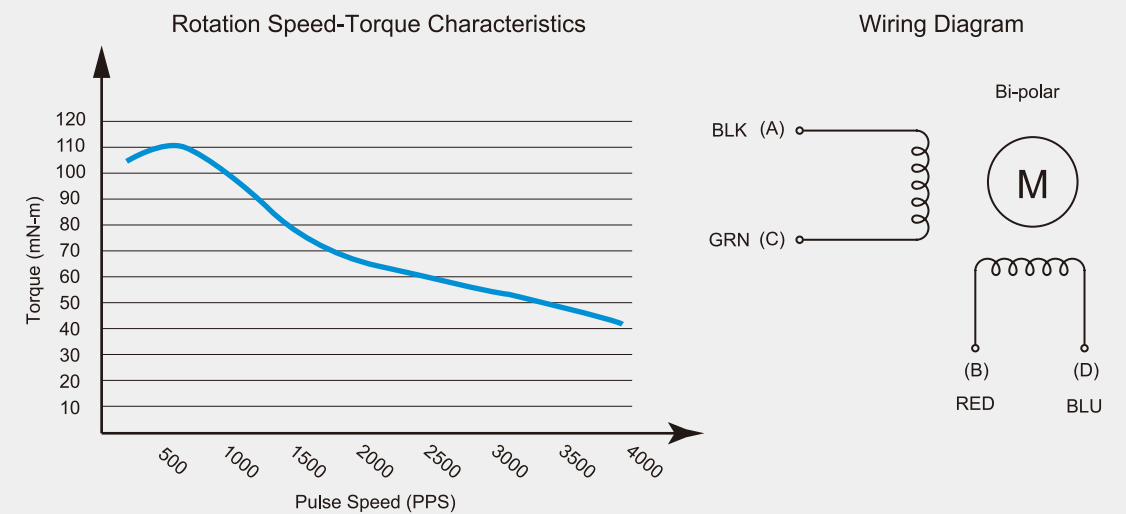
MS2P28Z-0601-F

Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	5/10 < 0.005	< 0.01
Dynamic Load Ca(N)	930			
Max. Static Load Coa(N)				



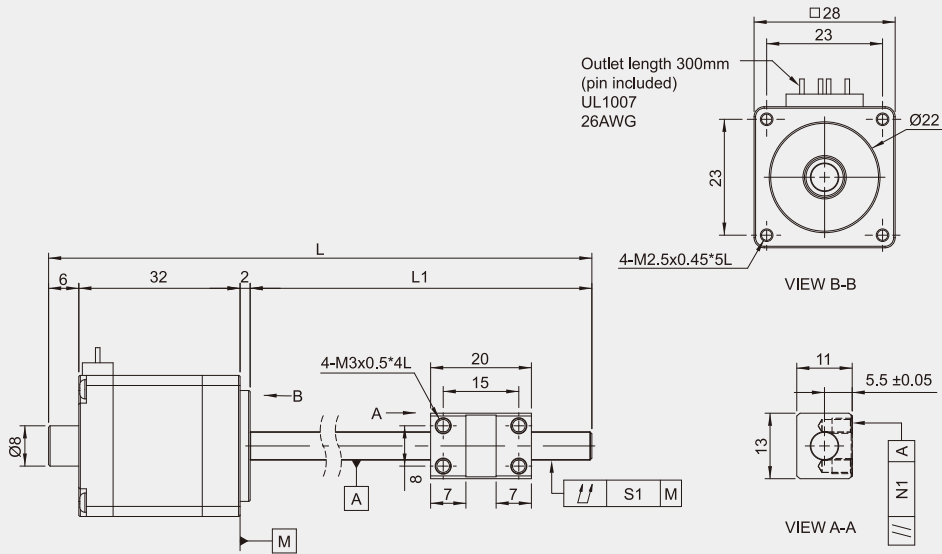
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L	S1	N1	N2	Mean Travel	Variation
MS2P28Z-0601KS-RC5□-65R105-F	40	65	105	0.035	0.01	0.012	0.018	0.018
MS2P28Z-0601KS-RC7□-65R105-F				0.045	0.014	0.02	Travel Distance':±0.05/300	
MS2P28Z-0601KS-RC5□-95R135-F	70	95	135	0.035	0.01	0.012	0.018	0.018
MS2P28Z-0601KS-RC7□-95R135-F				0.045	0.014	0.02	Travel Distance':±0.05/300	
MS2P28Z-0601KS-RC5□-125R165-F	100	125	165	0.035	0.01	0.012	0.02	0.018
MS2P28Z-0601KS-RC7□-125R165-F				0.045	0.014	0.02	Travel Distance':±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step ,unload)
Rated Voltage (V)	3.8
Current / Phase(A)	0.67
Resistor / Phase (Ω)	5.6±10%
Inductor / Phase (mH)	3.4±15%
Moment of Inertia (kg·m²)	9x10 ⁻⁷
Holding Torque (g·cm)	600



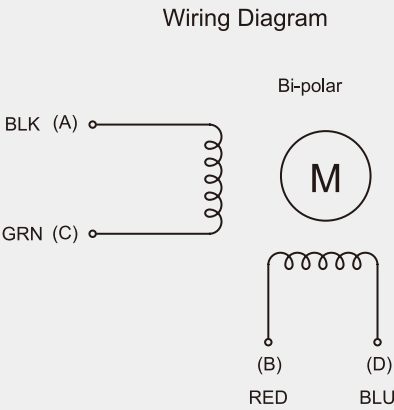
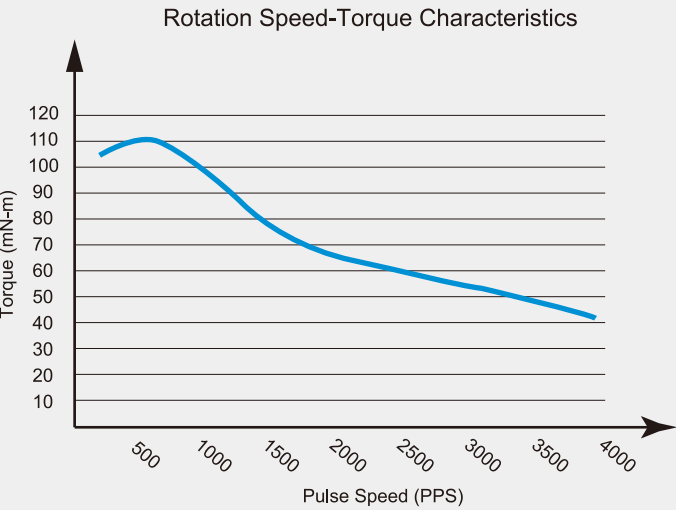
MS2P28Z-0601-H

Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



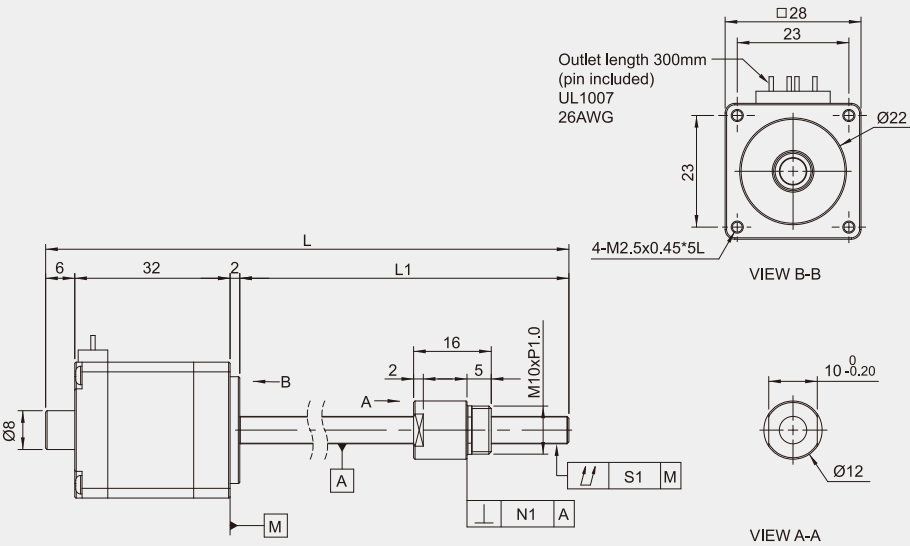
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
MS2P28Z-0601KS-RC5□-65R105-H	40	65	105	0.035	0.01	0.018	0.018
MS2P28Z-0601KS-RC7□-65R105-H				0.045	0.017	Travel Distance: ±0.05/300	
MS2P28Z-0601KS-RC5□-95R135-H	70	95	135	0.035	0.01	0.018	0.018
MS2P28Z-0601KS-RC7□-95R135-H				0.045	0.017	Travel Distance: ±0.05/300	
MS2P28Z-0601KS-RC5□-125R165-H	100	125	165	0.035	0.01	0.02	0.018
MS2P28Z-0601KS-RC7□-125R165-H				0.045	0.017	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	3.8
Current / Phase(A)	0.67
Resistor / Phase (Ω)	5.6±10%
Inductor / Phase (mH)	3.4±15%
Moment of Inertia (kg·m²)	9x10 ⁻⁷
Holding Torque (g·cm)	600



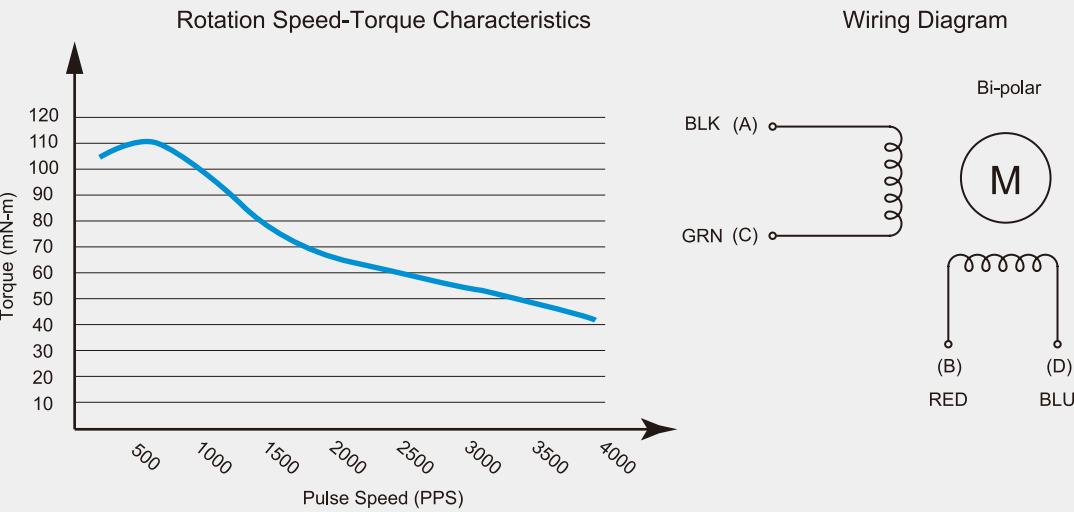
MS2P28Z-0601-M

Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



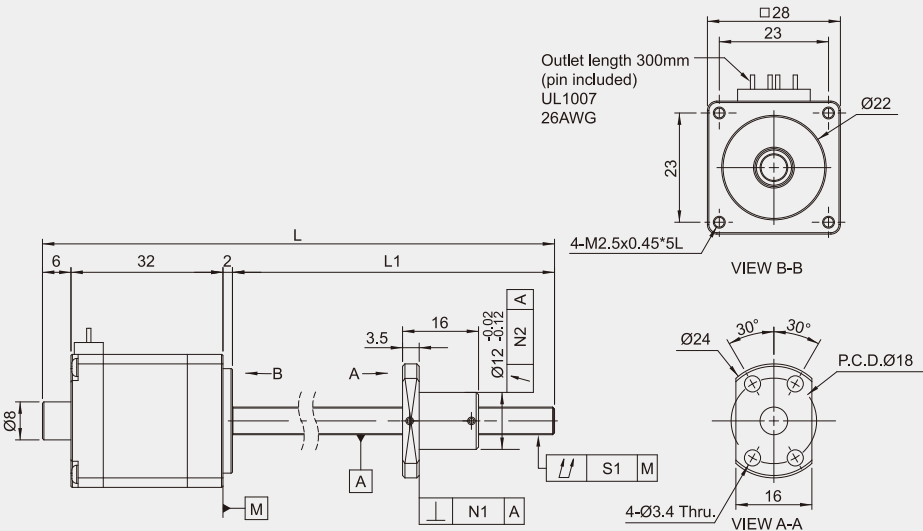
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
MS2P28Z-0601KS-RC5□-65R105-M	40	65	105	0.035	0.01	0.018	0.018
MS2P28Z-0601KS-RC7□-65R105-M				0.045	0.014	Travel Distance: ±0.05/300	
MS2P28Z-0601KS-RC5□-95R135-M	70	95	135	0.035	0.01	0.018	0.018
MS2P28Z-0601KS-RC7□-95R135-M				0.045	0.014	Travel Distance: ±0.05/300	
MS2P28Z-0601KS-RC5□-125R165-M	100	125	165	0.035	0.01	0.02	0.018
MS2P28Z-0601KS-RC7□-125R165-M				0.045	0.014	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	3.8
Current / Phase(A)	0.67
Resistor / Phase (Ω)	5.6±10%
Inductor / Phase (mH)	3.4±15%
Moment of Inertia (kg·m²)	9x10 ⁻⁷
Holding Torque (g·cm)	600



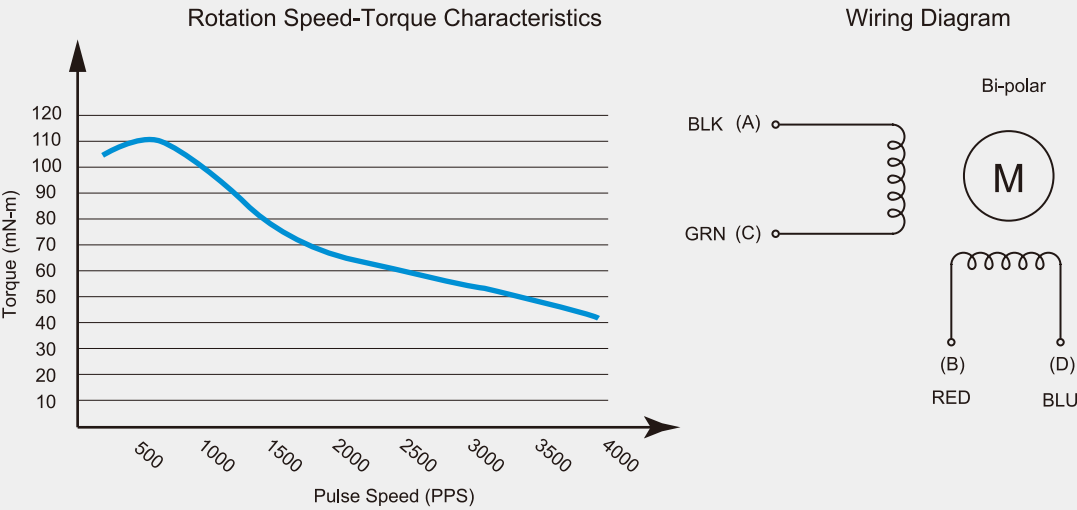
MS2P28Z-0602-F

Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



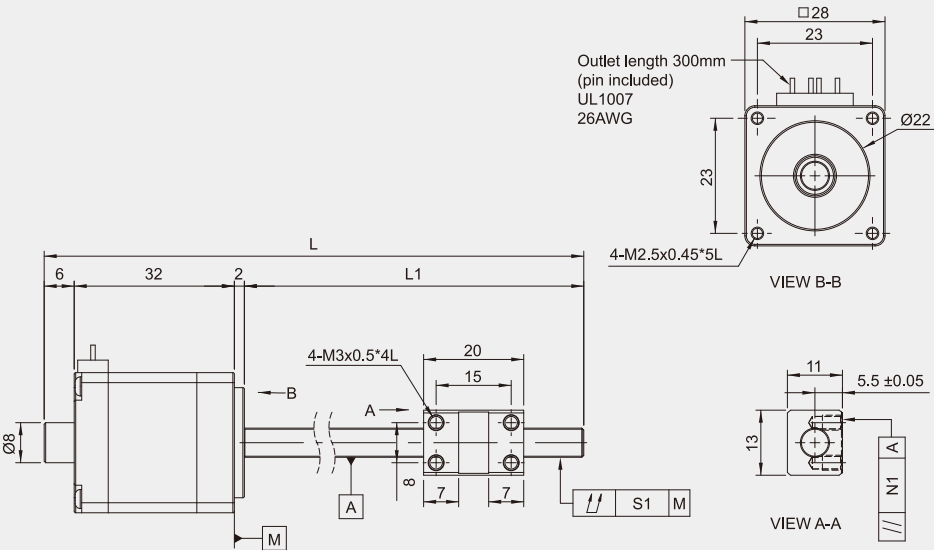
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L				Mean Travel	Variation
MS2P28Z-0602KS-RC5□-65R105-F	40	65	105	0.035	0.01	0.012	0.018	0.018
MS2P28Z-0602KS-RC7□-65R105-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
MS2P28Z-0602KS-RC5□-95R135-F	70	95	135	0.035	0.01	0.012	0.018	0.018
MS2P28Z-0602KS-RC7□-95R135-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	
MS2P28Z-0602KS-RC5□-125R165-F	100	125	165	0.035	0.01	0.012	0.02	0.018
MS2P28Z-0602KS-RC7□-125R165-F				0.045	0.014	0.02	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	3.8
Current / Phase(A)	0.67
Resistor / Phase (Ω)	5.6±10%
Inductor / Phase (mH)	3.4±15%
Moment of Inertia (kg·m ²)	9x10 ⁻⁷
Holding Torque (g·cm)	600



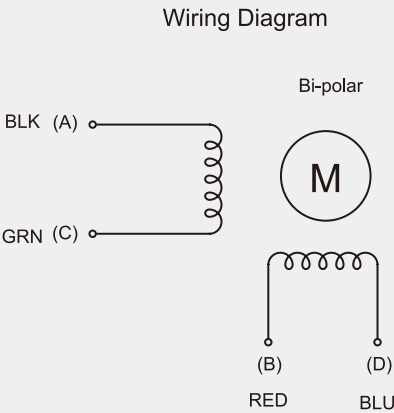
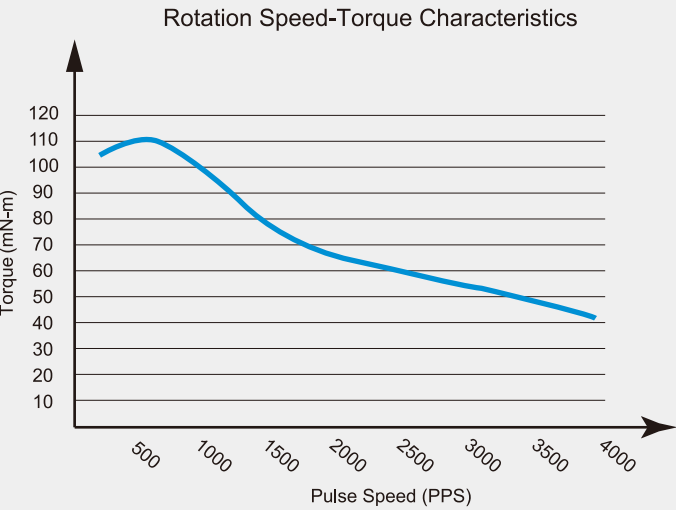
MS2P28Z-0602-H

Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



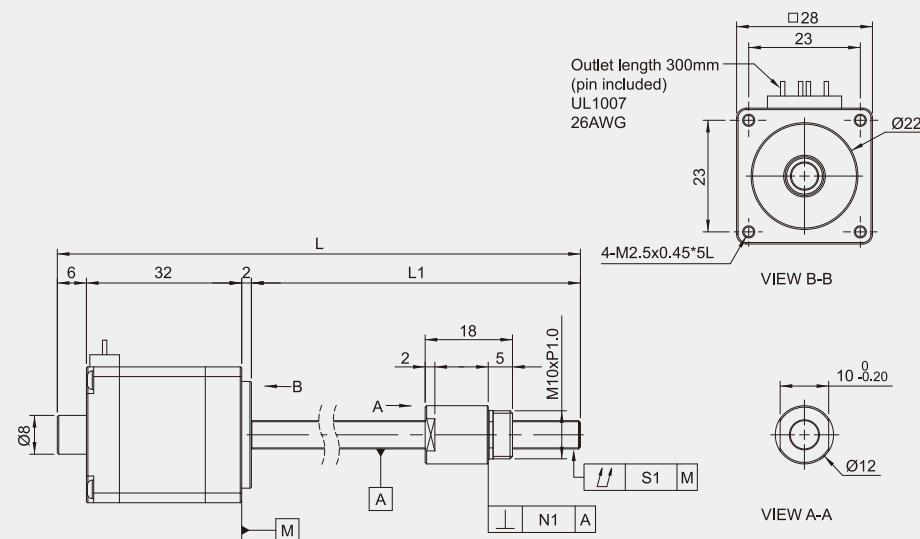
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
MS2P28Z-0602KS-RC5□-65R105-H	40	65	105	0.035	0.01	0.018	0.018
MS2P28Z-0602KS-RC7□-65R105-H				0.045	0.017	Travel Distance: ±0.05/300	
MS2P28Z-0602KS-RC5□-95R135-H	70	95	135	0.035	0.01	0.018	0.018
MS2P28Z-0602KS-RC7□-95R135-H				0.045	0.017	Travel Distance: ±0.05/300	
MS2P28Z-0602KS-RC5□-125R165-H	100	125	165	0.035	0.01	0.02	0.018
MS2P28Z-0602KS-RC7□-125R165-H				0.045	0.017	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	3.8
Current / Phase(A)	0.67
Resistor / Phase (Ω)	5.6±10%
Inductor / Phase (mH)	3.4±15%
Moment of Inertia (kg·m²)	9x10 ⁻⁷
Holding Torque (g·cm)	600



MS2P28Z-0602-M

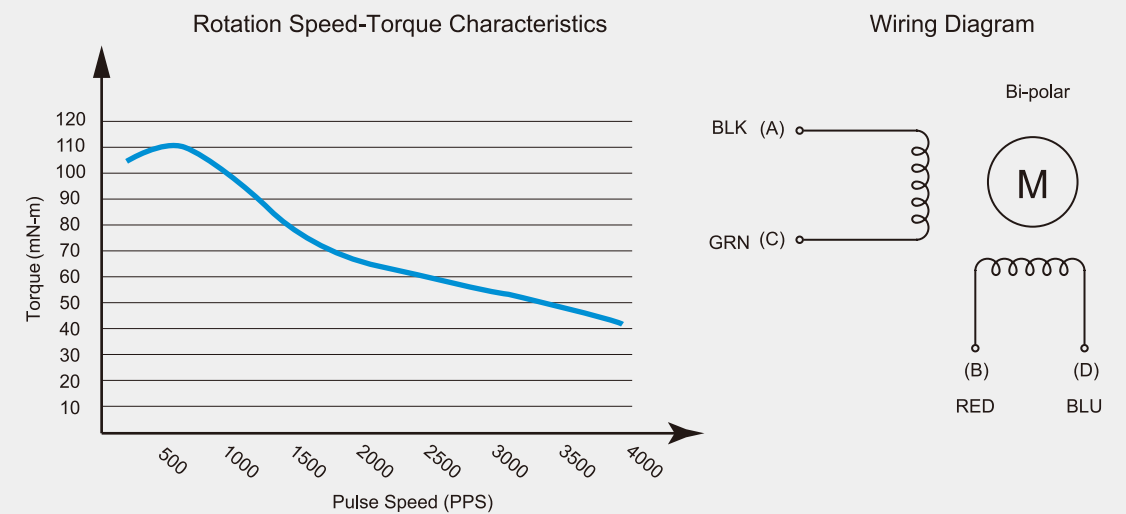
Rolled Ball Screw				
Nominal Dia(mm)	6			
Ball Dia(mm)	0.8			
Lead(mm)	2			
B.C.D(mm)	6.2			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	550			
Max. Static Load Coa(N)	930			



Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
MS2P28Z-0602KS-RC5□-65R105-M	40	65	105	0.035	0.01	0.018	0.018
MS2P28Z-0602KS-RC7□-65R105-M				0.045	0.014	Travel Distance: ±0.05/300	
MS2P28Z-0602KS-RC5□-95R135-M	70	95	135	0.035	0.01	0.018	0.018
MS2P28Z-0602KS-RC7□-95R135-M				0.045	0.014	Travel Distance: ±0.05/300	
MS2P28Z-0602KS-RC5□-125R165-M	100	125	165	0.035	0.01	0.02	0.018
MS2P28Z-0602KS-RC7□-125R165-M				0.045	0.014	Travel Distance: ±0.05/300	

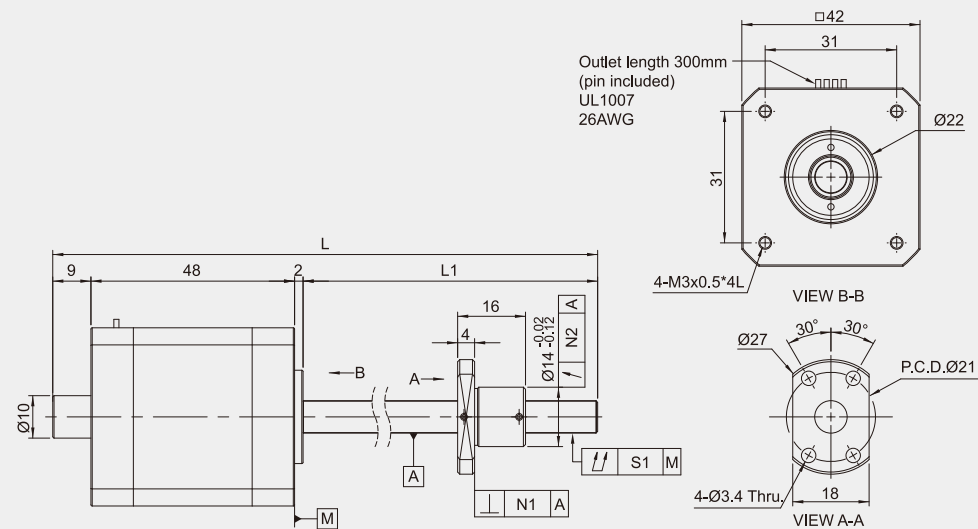
Specification

Motor	
Phase	2
Step Angle	1.8°±5%(Full step , unload
Rated Voltage (V)	3.8
Current / Phase(A)	0.67
Resistor / Phase (Ω)	5.6±10%
Inductor / Phase (mH)	3.4±15%
Moment of Inertia (kg·m²)	9x10 ⁻⁷
Holding Torque (g·cm)	600



MS2P42Z-0801-F

Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			

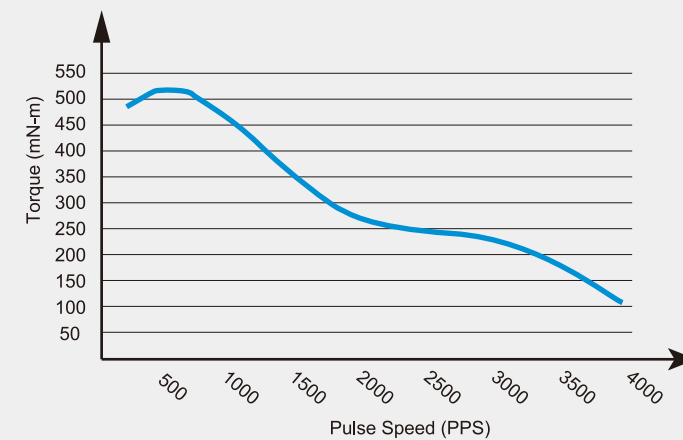


Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L	S1	N1	N2	Mean Travel	Variation
MS2P42Z-0801KS-RC5□-65R124-F	40	65	124	0.035	0.01	0.012	0.018	0.018
MS2P42Z-0801KS-RC7□-65R124-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
MS2P42Z-0801KS-RC5□-95R154-F	70	95	154	0.035	0.01	0.012	0.018	0.018
MS2P42Z-0801KS-RC7□-95R154-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
MS2P42Z-0801KS-RC5□-125R184-F	100	125	184	0.035	0.01	0.012	0.02	0.018
MS2P42Z-0801KS-RC7□-125R184-F				0.045	0.014	0.02	Travel Distance:±0.05/300	

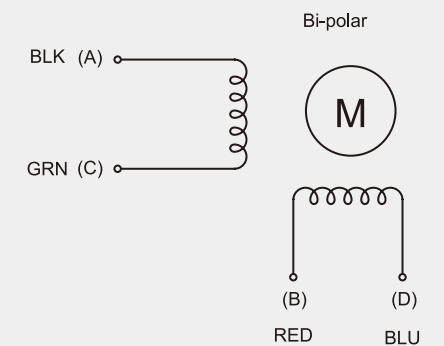
Specification

Motor	
Phase	2
Step Angle	1.8°±5%(Full step , unload)
Rated Voltage (V)	4.4
Current / Phase(A)	0.8
Resistor / Phase (Ω)	5.5±10%
Inductor / Phase (mH)	1.5±15%
Moment of Inertia (g·m²)	50
Holding Torque (mg·cm)	450

Rotation Speed-Torque Characteristics

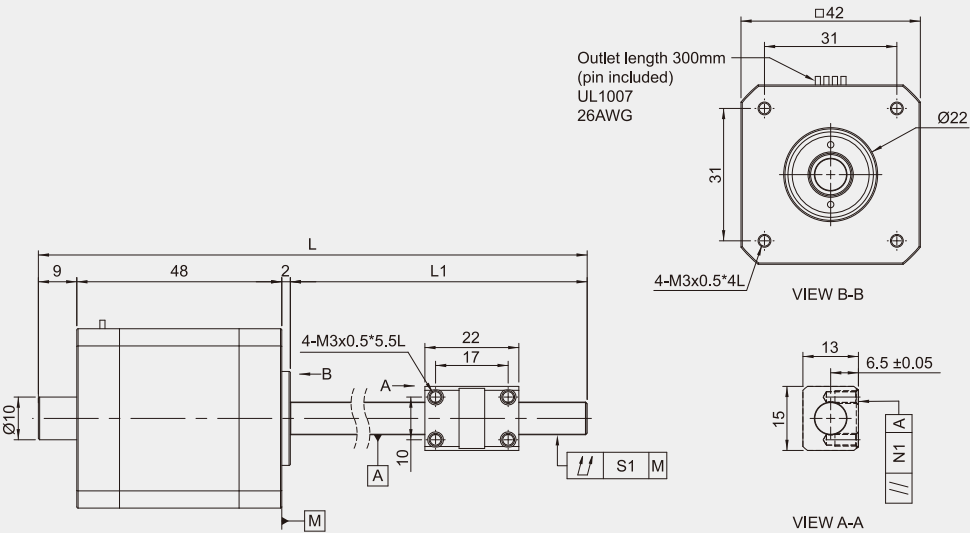


Wiring Diagram



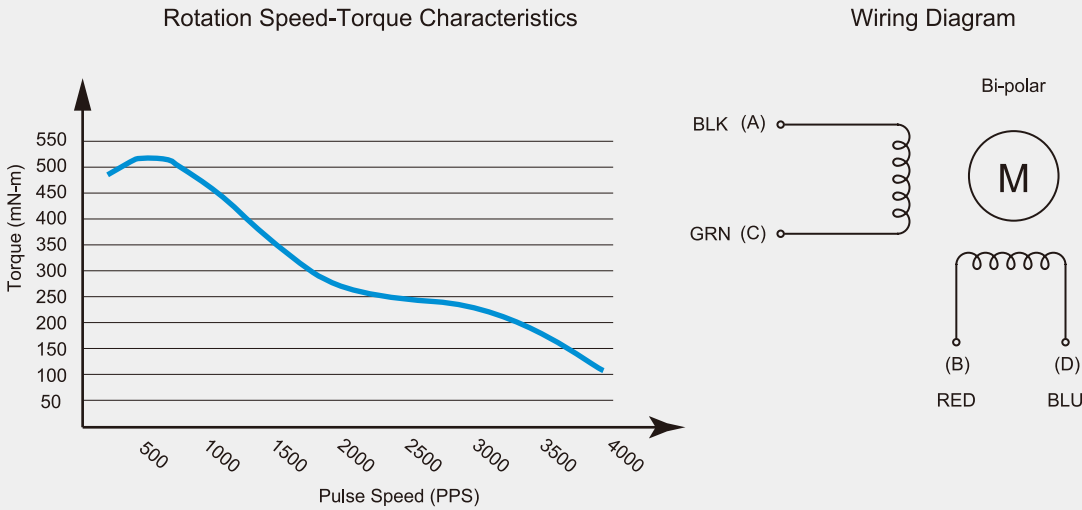
MS2P42Z-0801-H

Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



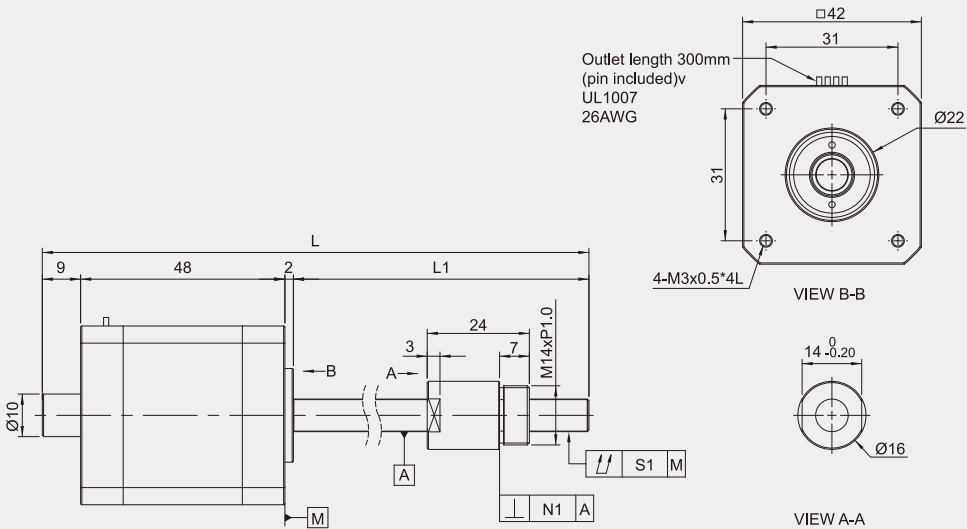
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
MS2P42Z-0801KS-RC5□-65R124-H	40	65	124	0.035	0.01	0.018	0.018
MS2P42Z-0801KS-RC7□-65R124-H				0.045	0.014	Travel Distance: ±0.05/300	
MS2P42Z-0801KS-RC5□-95R154-H	70	95	154	0.035	0.01	0.018	0.018
MS2P42Z-0801KS-RC7□-95R154-H				0.045	0.014	Travel Distance: ±0.05/300	
MS2P42Z-0801KS-RC5□-125R184-H	100	125	184	0.035	0.01	0.02	0.018
MS2P42Z-0801KS-RC7□-125R184-H				0.045	0.014	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	4.4
Current / Phase(A)	0.8
Resistor / Phase (Ω)	5.5±10%
Inductor / Phase (mH)	1.5±15%
Moment of Inertia (g·m ²)	50
Holding Torque (mg·cm)	450



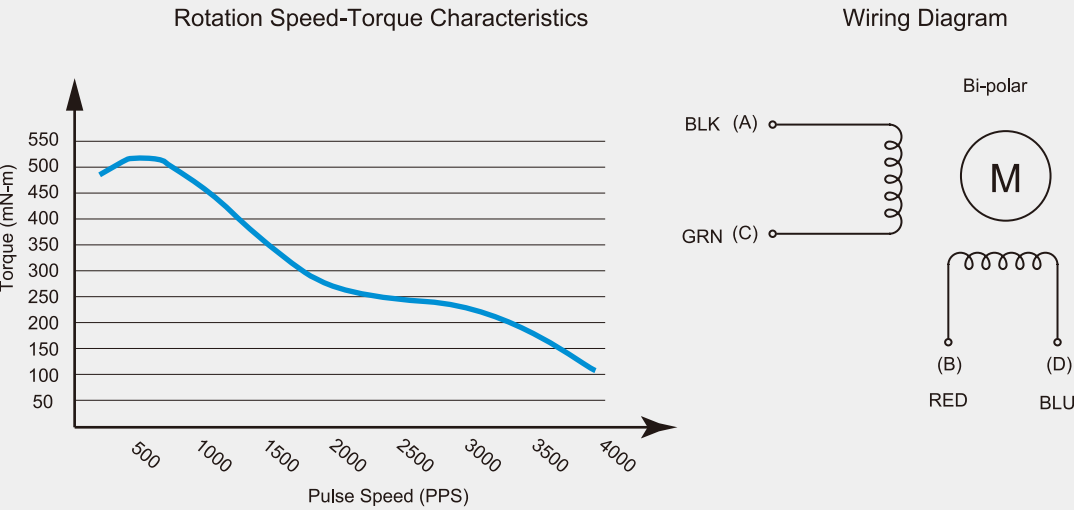
MS2P42Z-0801-M

Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	0.8			
Lead(mm)	1			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	700			
Max. Static Load Coa(N)	1420			



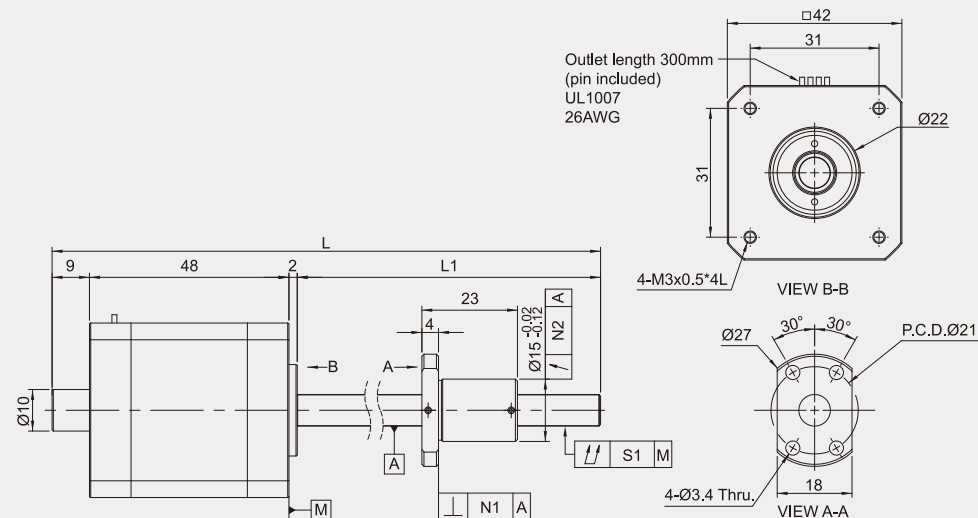
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
MS2P42Z-0801KS-RC5□-65R124-M	40	65	124	0.035	0.01	0.018	0.018
MS2P42Z-0801KS-RC7□-65R124-M				0.045	0.014	Travel Distance: ±0.05/300	
MS2P42Z-0801KS-RC5□-95R154-M	70	95	154	0.035	0.01	0.018	0.018
MS2P42Z-0801KS-RC7□-95R154-M				0.045	0.014	Travel Distance: ±0.05/300	
MS2P42Z-0801KS-RC5□-125R184-M	100	125	184	0.035	0.01	0.02	0.018
MS2P42Z-0801KS-RC7□-125R184-M				0.045	0.014	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	4.4
Current / Phase(A)	0.8
Resistor / Phase (Ω)	5.5±10%
Inductor / Phase (mH)	1.5±15%
Moment of Inertia (g·m²)	50
Holding Torque (mg·cm)	450



MS2P42Z-0802-F

Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			

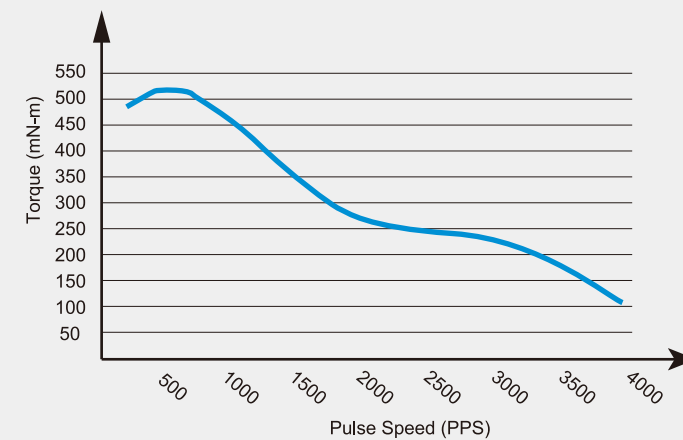


Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Flanged Nut Verticality	Nut Deviation Tolerance	Lead Accuracy	
		L1	L	S1	N1	N2	Mean Travel	Variation
MS2P42Z-0802KS-RC5□-65R124-F	40	65	124	0.035	0.01	0.012	0.018	0.018
MS2P42Z-0802KS-RC7□-65R124-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
MS2P42Z-0802KS-RC5□-95R154-F	70	95	154	0.035	0.01	0.012	0.018	0.018
MS2P42Z-0802KS-RC7□-95R154-F				0.045	0.014	0.02	Travel Distance:±0.05/300	
MS2P42Z-0802KS-RC5□-125R184-F	100	125	184	0.035	0.01	0.012	0.02	0.018
MS2P42Z-0802KS-RC7□-125R184-F				0.045	0.014	0.02	Travel Distance:±0.05/300	

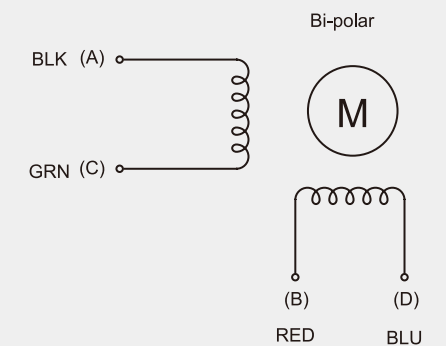
Specification

Motor	
Phase	2
Step Angle	1.8°±5%(Full step , unload)
Rated Voltage (V)	4.4
Current / Phase(A)	0.8
Resistor / Phase (Ω)	5.5±10%
Inductor / Phase (mH)	1.5±15%
Moment of Inertia (g·m²)	50
Holding Torque (mg·cm)	450

Rotation Speed-Torque Characteristics

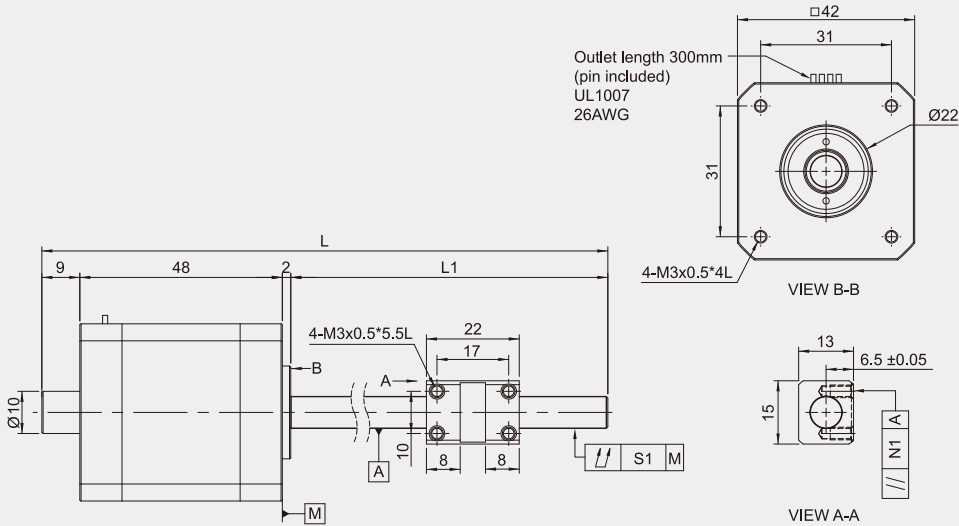


Wiring Diagram



MS2P42Z-0802-H

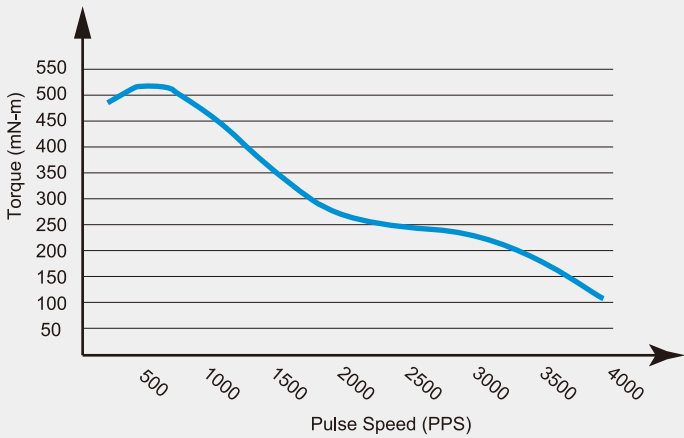
Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			



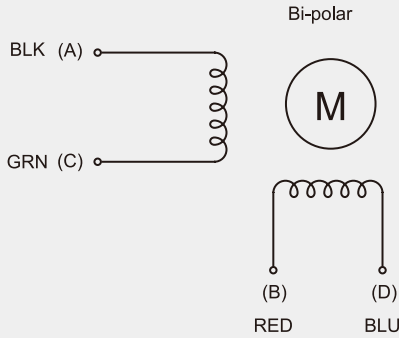
Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Parallelism Tolerance	Lead Accuracy	
		L1	L			Mean Travel	Variation
MS2P42Z-0802KS-RC5□-65R124-H	40	65	124	0.035	0.01	0.018	0.018
MS2P42Z-0802KS-RC7□-65R124-H				0.045	0.014	Travel Distance: ±0.05/300	
MS2P42Z-0802KS-RC5□-95R154-H	70	95	154	0.035	0.01	0.018	0.018
MS2P42Z-0802KS-RC7□-95R154-H				0.045	0.014	Travel Distance: ±0.05/300	
MS2P42Z-0802KS-RC5□-125R184-H	100	125	184	0.035	0.01	0.02	0.018
MS2P42Z-0802KS-RC7□-125R184-H				0.045	0.014	Travel Distance: ±0.05/300	

Motor	
Phase	2
Step Angle	1.8°±5%(Full step, unload)
Rated Voltage (V)	4.4
Current / Phase(A)	0.8
Resistor / Phase (Ω)	5.5±10%
Inductor / Phase (mH)	1.5±15%
Moment of Inertia (g·m ²)	50
Holding Torque (mg·cm)	450

Rotation Speed-Torque Characteristics

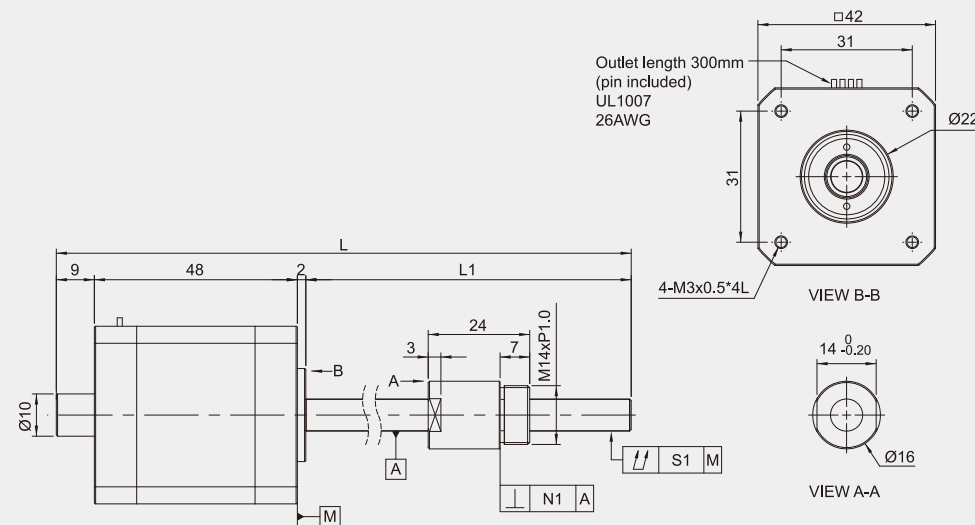


Wiring Diagram



MS2P42Z-0802-M

Rolled Ball Screw				
Nominal Dia(mm)	8			
Ball Dia(mm)	1.2			
Lead(mm)	2			
B.C.D(mm)	8.3			
Thread Direction	Right Hand			
Circuits	1 Return x 3 Circuits			
Accuracy	C5X	C5Y	C7Y	C7Z
Axial Backlash	0	< 0.005	< 0.005	< 0.01
Dynamic Load Ca(N)	1700			
Max. Static Load Coa(N)	3200			

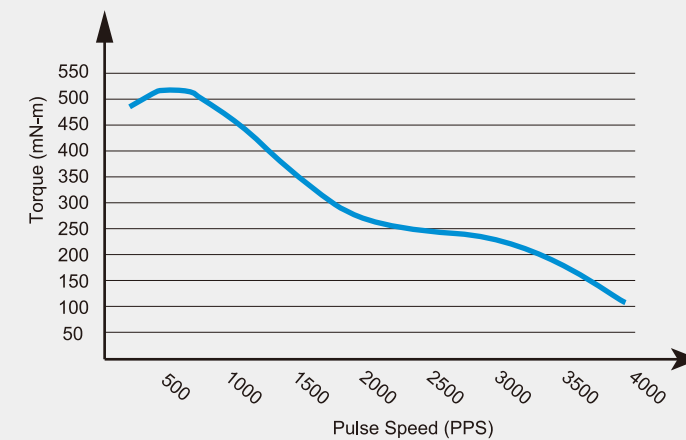


Specification	Stroke	Shaft Length		Cumulative Deviation Tolerance	Nut Verticality Tolerance	Lead Accuracy	
		L1	L	S1	N1	Mean Travel	Variation
MS2P42Z-0802KS-RC5□-65R124-M	40	65	124	0.035	0.01	0.018	0.018
MS2P42Z-0802KS-RC7□-65R124-M				0.045	0.014	Travel Distance:±0.05/300	
MS2P42Z-0802KS-RC5□-95R154-M	70	95	154	0.035	0.01	0.018	0.018
MS2P42Z-0802KS-RC7□-95R154-M				0.045	0.014	Travel Distance:±0.05/300	
MS2P42Z-0802KS-RC5□-125R184-M	100	125	184	0.035	0.01	0.02	0.018
MS2P42Z-0802KS-RC7□-125R184-M				0.045	0.014	Travel Distance:±0.05/300	

Specification

Motor	
Phase	2
Step Angle	1.8°±5%(Full step , unload)
Rated Voltage (V)	4.4
Current / Phase(A)	0.8
Resistor / Phase (Ω)	5.5±10%
Inductor / Phase (mH)	1.5±15%
Moment of Inertia (g·m²)	50
Holding Torque (mg·cm)	450

Rotation Speed-Torque Characteristics



Wiring Diagram

