

KK module series HTKK100

TTK100 · TTK module series

Use the dimensions and motion rows for the exact model. Keep load, speed and positioning conditions together when comparing candidates.



TTK series illustration

Reviewed specifications

Parameter	Value	Applies to
Starting torque	17 / 20 / 23 / 25 / 15 N-cm	
Rail length	980 / 1080 / 1180 / 1280 / 1380 mm	
Maximum speed	750 mm/s	Lead code 20; Precision grade
Maximum speed	510 mm/s	Lead code 20; Precision grade
Maximum speed	750 mm/s	Lead code 20; Standard grade
Maximum speed	530 mm/s	Lead code 20; Standard grade
Maximum speed	630 mm/s	Lead code 20; Standard grade
Maximum speed	440 mm/s	Lead code 20; Precision grade

Installation drawings are in the separate dimension atlas.
 emmy@htrobot.com www.htrobot.com

Engineering reference

Maximum-speed

Lead(mm)	Rail length L2(mm)	Precision P	General C
20	980	1120 mm/s	800 mm/s
20	1080	980 mm/s	800 mm/s
20	1180	750 mm/s	750 mm/s
20	1280	510 mm/s	630 mm/s
20	1380	440 mm/s	530 mm/s

Rail length L2 is distinct from travel stroke. These values remain source references.

Accuracy class

Rail length(mm)	Grade P/C	Position characteristic(as printed)	Position accuracy(as printed)	Travel parallelism(as printed)	Starting torque
980/1080	P	±0.005	0.035	0.025	17 N-cm
980/1080	C	±0.01	-	-	12 N-cm
1180	P	±0.005	0.040	0.03	20 N-cm
1180	C	±0.01	-	-	12 N-cm
1280	P	±0.005	0.045	0.035	23 N-cm
1280	C	±0.01	-	-	15 N-cm
1380	P	±0.005	0.05	0.04	25 N-cm
1380	C	±0.01	-	-	15 N-cm

values and grade letters are retained.

At rail1380, the source positional-accuracy cell reads005;
its intended decimal value requires confirmation.

Ball-screw ratings, TKK10020

Parameter	Current source value
Nominal diameter(as printed)	20
Lead	20 mm
Ball screw dynamic rating(pair as printed)	7046 / 4782 N
Ball screw static rating(pair as printed)	12544 / 9163 N

The paired screw-rating numbers remain in printed order;
grade correspondence is not stated.

Guide ratings, TKK10020

Slide type	Dynamic rating	Static rating
A	39200 N	63406 N
S	- N	- N

Permissible static moments, TKK10020

Slide	Pitch MP	Yaw MY	Roll MR
A1	960 N-m	960 N-m	2205 N-m
A2	4763 N-m	4763 N-m	4410 N-m
S1	- N-m	- N-m	- N-m

Slide	Pitch MP	Yaw MY	Roll MR
S2	- N-m	- N-m	- N-m

Application notes

Application reference: The source family description integrates a ball screw with a U-shaped guide for compact linear motion, listing semiconductor, medical, automotive and automation equipment.

Installation reference: Source optional accessories:aluminum cover,bellows,motor-adaptor flange and limit switch. The chosen motor/flange fit requires its own source dimensions.

Sensor ordering reference: S0:limit rail only;

S1:Omron SX671;

S2:Omron SX674;

S3:SUNXGL-12F;

S4:SUNXGL-N12F-PX10;

no mark:no switch.

Ordering reference: Source sizes60/86/100;

TKK100 lead20mm;

ordering rail list980/1080/1180/1280/1380mm. P:precision/C:general;

A:standard slide/S:light slide;

slide quantity1/2.