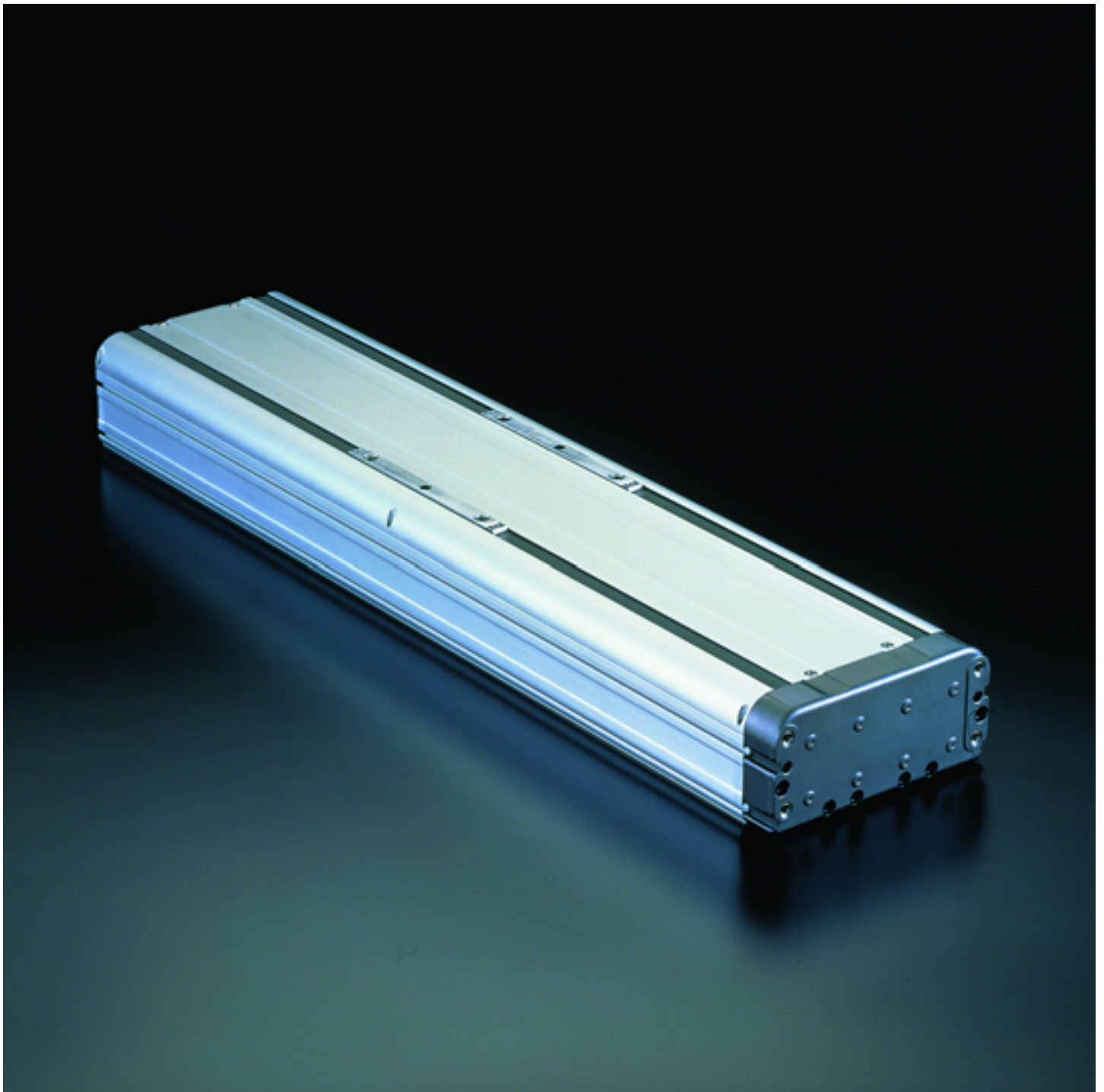


Robot Module™

Motor-free Version

Maintenance-free linear axis with K1 lubrication units
High reliability due to NSK linear guides and NSK ball screws



General

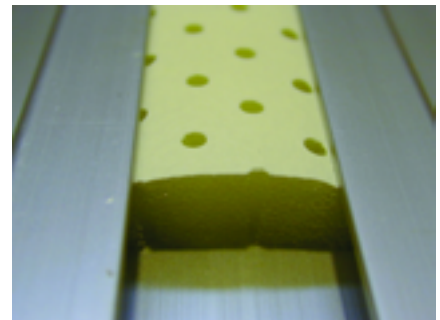
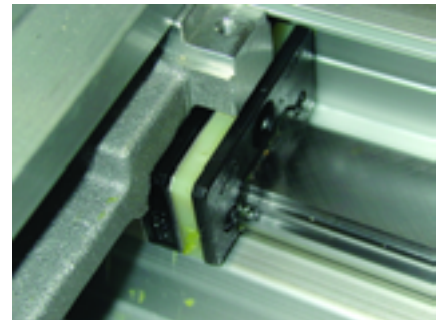
Robot Modules are complete linear axis systems with high precision for various automation applications in the semiconductor, electronic, medical, assembly and production areas. By the use of the high-quality NSK linear guides and NSK ball screws you can reach a high mechanical reliability.

NSK offers this sophisticated technology in an aluminium housing with an ergonomic design, on which you can assemble your servomotors.

Advantages

Utilisation of the Robot Module gives you the following advantages:

- The mechanical construction is like a machining table and you reach a high mechanical reliability.
- You save the costs of the construction of your own axis.
- Modular System: Combinations of the axis are free selectable - from a single axis system up to a portal robot with 3 axes.
- With the K1 lubrication unit the modules are maintenance-free for up to 5 years, depending on the load and duty cycle.
- The seal belt offers excellent protection against contamination entering the Robot Module.
- Due to noise isolation, operation of the axis with noise below 70dB is possible.¹⁾
- Prepared for the assembly of European motors (e.g. MKD025B-144)



Technical Data

	H Module	M Module
Reference number	XY-HRS□□□-RH200U03	XY-HRS□□□-RM200U03
Stroke [mm]	300, 400, 500, 600, 800, 1000	250, 350, 450, 550, 750, 950
Max. velocity [mm/s]	1200 ¹⁾	
Max. load [kg]	80 ¹⁾	40 ¹⁾
Max. torque [Nm]	3,82	3,82
Max. acceleration ²⁾ [m/s ²]	50	50
Transportable moment ³⁾		
Rolling moment [Nm]	600	70
Pitching moment [Nm]	450	120
Yawing moment [Nm]	400	120
Repeatability [μm]	±10 ¹⁾	
Lead ball screw [mm]	20	
Environmental conditions	0...40°C, no condensation	

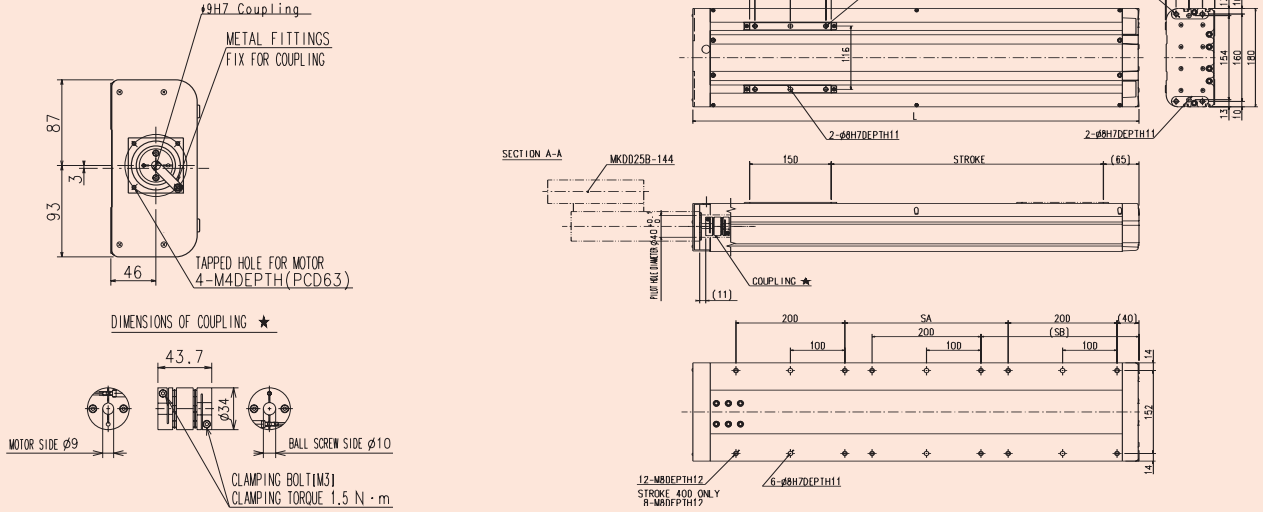
1) These values are depending from the used motor and from the driver and are valid for the optional available axis with motor.

2) Theoretical possible acceleration with small loads.

3) The transportable moment is expressed as a value at which the rated fatigue life of the linear guide will be 10000km when any unidirectional moment acts continuously on the linear guide.

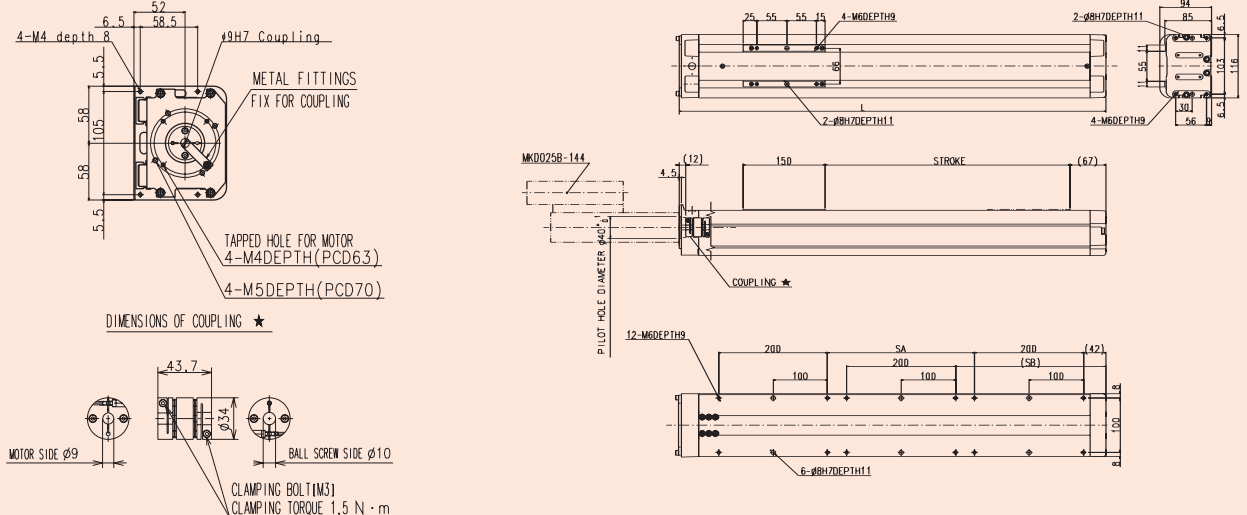
Drawings

H Module



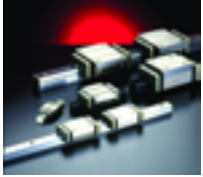
Reference number	Stroke [mm]	L [mm]	SA [mm]	SB [mm]	SD [mm]	Mass [kg]	Motor flange PCD [mm]
XY-HRS030-RH200U03	300	619	100	190	310	16	63
XY-HRS040-RH200U03	400	719	200	240	410	18	63
XY-HRS050-RH200U03	500	819	300	290	510	20	63
XY-HRS060-RH200U03	600	919	400	340	610	22	63
XY-HRS080-RH200U03	800	1119	600	440	810	26	63
XY-HRS100-RH200U03	1000	1319	800	540	1010	31	63

M Module

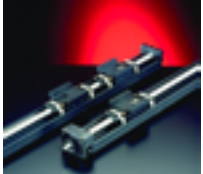


Reference number	Stroke [mm]	L [mm]	SA [mm]	SB [mm]	SD [mm]	Mass [kg]	Motor flange PCD [mm]
XY-HRS025-RM200U03	250	585	70	177	260	7,9	63 or 70
XY-HRS035-RM200U03	350	685	170	227	360	8,9	63 or 70
XY-HRS045-RM200U03	450	785	270	277	460	9,9	63 or 70
XY-HRS055-RM200U03	550	885	370	327	560	10,9	63 or 70
XY-HRS075-RM200U03	750	1085	570	427	760	13,9	63 or 70
XY-HRS095-RM200U03	950	1285	770	527	960	16,9	63 or 70

Our Products



Linear guides



Monocarrier



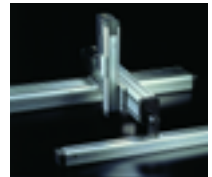
Megatorque Motor®



Ball screws



Translide



Robot Module

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