

PRODUCTS

LINEAR STAGES AND ROTARY TABLES WITH DIRECT DRIVE



SINADRIVES[®]
DIRECT DRIVE EXPERTS

The products can differ slightly from the standard versions illustrated in this brochure.

Linear Motor Stages



**Functional
Safety**



MLS 1

Fully open basic model, ideal for high dynamics and loads.



**Functional
Safety**



MLS 2

Advanced model. Fitted with lateral protections, best quality guiding and central lubrication.



**Functional
Safety**



MLS 3

Rigid cover model. Available with ISO3 Certificate for cleanroom. Also suitable for dirty environments.



**Functional
Safety**



MLS 4

Fully closed model, ideal for usage in harsh environments.



**Functional
Safety**



MLZ 2

Linear motor stage with iron core motor.
Variable installation position and optional gravity compensation.



**Functional
Safety**



MLSZ 5

Dynamic linear unit with iron core linear motor and optional clamping elements.

Linear Motor Stages



**Functional
Safety**



MLE 2

Linear motor stage with iron core motor. Available with ISO3 Certificate for cleanroom.



MLE 3

Compact size linear motor stage with iron core motor.



**Functional
Safety**



MLE 5

Mid size linear motor stage with iron core motor and a wide choice of forcers.



**Functional
Safety**



MLE 7

High performance linear motor stage with iron core high force density motor.



**Functional
Safety**



MCE 3

Linear motor stage with iron core motor with a very compact design (WxH 114x41mm).



**Functional
Safety**



MLU 3

Linear unit with ironless motor. Its light weight and compact design offers a good choice for a wide range of applications.

Torque motors and rotary tables

Why choose a SINADRIVES torque motor?

- Improve the performance of your machine thanks to the experience of the market leader in Direct Drive technology.
- Reduce space and maintenance thanks to advanced technology.
- Reduce assembly time and mechanical adjustments thanks to the most compact brushless motor technology on the market.

Get more information on our website.
www.sinadrives.com



MRT020005

Compact rotary table with torque motor and hollow shaft. With absolute encoder and different mounting interfaces.



**Functional
Safety**

MRT030028

Compact mid size rotary table with core torque motor and hollow shaft. With absolute encoder and different mounting interfaces.



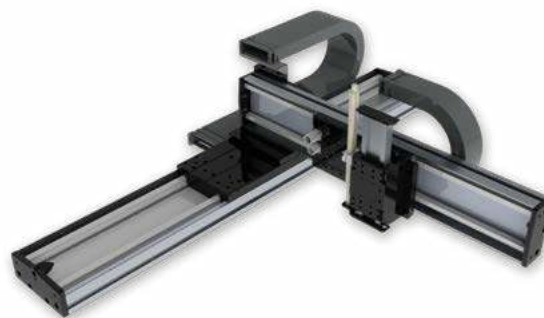
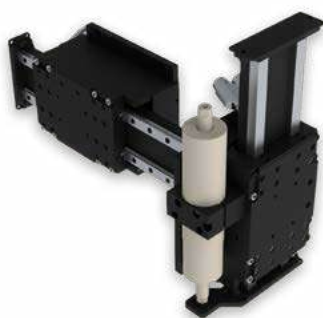
**Functional
Safety**

MRT060173

Compact big size rotary table with torque motor and hollow shaft for high torque applications. With absolute encoder and different mounting interfaces.

Axes combinations and portals

SINADRIVES multi-axis systems consists of combinations of direct drive linear modules in different arrangements. Choose the suitable configuration for your application. Based on your technical data, we will suggest you the best solution together with a 3D model. Save money and time by choosing SINADRIVES solutions.



Our certifications



Clean room classifications determine particles maximum concentration limits, according to number of particles and their size. The most common classification system is ISO 14644-1: 2015 standard. Based on this, some of the SINADRIVES linear stages are ISO 3 certified.



With functional safety integrated in Endat 2.2 protocol, SINADRIVES linear modules reach Performance level D, providing a double functional safety. It also allows saving data as configuration, settings and earnings in internal memory.



The CE (European Conformity) mark indicates that a product complies with European Union (EU) regulations and directives regarding health, safety and environmental protections.



UL is an accredited standard developer in the U.S. and Canada that certifies that products are built correctly for the highest safety. Similarly, CSA certification mark indicates that a product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.

Suggestion of compatible widely used servo amplifiers with our linear motor stages



Encoder reading head output

Absolute E -	Incremental
Endat 2.2	4C - 1Vpp - 40um Period
B - Biss/C	5G - TTL - 50um resolution
D - Drivecliq	
F - Fanuc	
H - Hiperface	
L - Hiperface DSL	
M - Mitsubishi	
P - Panasonic	
S - SSI	

Whole mecatronic systems

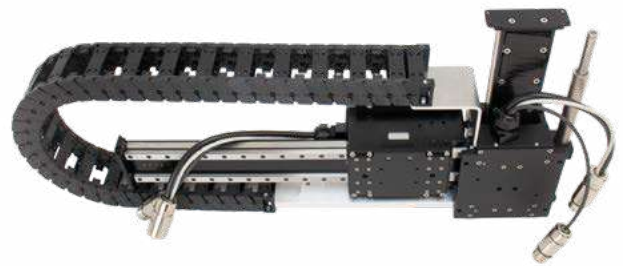
Use our turnkey customized solutions to reduce time to market. Benefit of our experience to get the best solution based on direct drive technology.



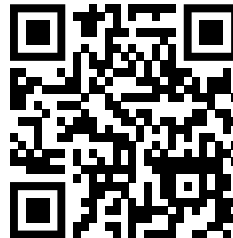
Four axes & eight carriage systems based on granite profiles, to reach the highest straightness and flatness, combined with a 50 nm high resolution encoder to obtain the best accuracy and repeatability.

About us

As a competent partner in electromechanical solutions, SINADRIVES provides innovative products for fast and precise positioning. Thanks to Standard Plug & Play linear units and our direct drive technology, we can offer customized and flexible solutions, for packaging, plastics, pharmaceutical, or photovoltaic sectors.



- Get more information on our website.
www.sinadrives.com



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