

Linear Direct Axis SLD

Competitive comparison
focus:
SLD – HIWIN HT-L



Status 05/2023
Updates: 10/2024

Hand in hand for tomorrow

Executive Summary



Executive Summary

- Sales argumentation SLD available

Competitive comparison HIWIN HT-L

Why should a customer buy a SLD axis?

Overview

- High interface compatibility with various measuring systems
 - Safety-certified measuring systems available (HIWIN only in special)
- Favorable price-performance ratio also compared to mechanical axis
- Development and production in Germany
- Lightweight construction: unrivaled lightness in relation to power
- Easy to service
- Precise sizing

SCHUNK 
- Confidential Information -

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Competitive comparison HIWIN HT-L

Why should a customer buy a SLD axis?

High in

- Safety

measuring systems

- Analog 1 Vss
- Analog 1 Vss
- Digital TTL 5 V
- Digital TTL 5 V

absolute

- Endat 2.2
- BIOS C
- SSI
- HiPerface
- HiPerface saf
- HiPerface DS
- HiPerface DS
- Drive-Clp saf

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Competitive comparison HIWIN HT-L

Why should a customer buy a SLD axis?

Favorable

Application

Stroke 100

Moving m

V-max.

a-max.

Time

Price

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Competitive comparison HIWIN HT-L

Why should a customer buy a SLD axis?

Develop

SCHUNK E

Lightw

- Weight
- Profile
- Outc

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Competitive comparison HIWIN HT-L

Why should a customer buy a SLD axis?

Easy to

Precise sizing

SCHUNK Linear modules Sizing Assistant

SCHUNK Linear modules Configurator

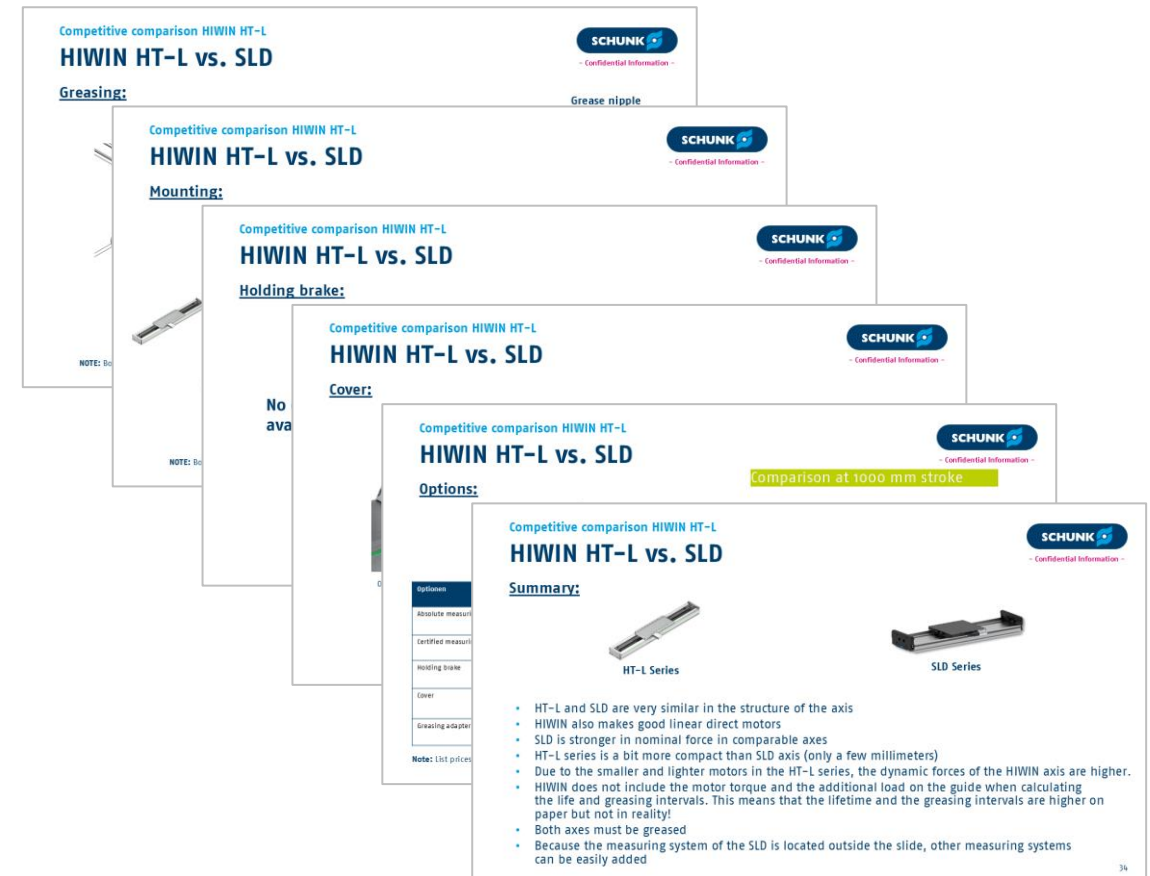
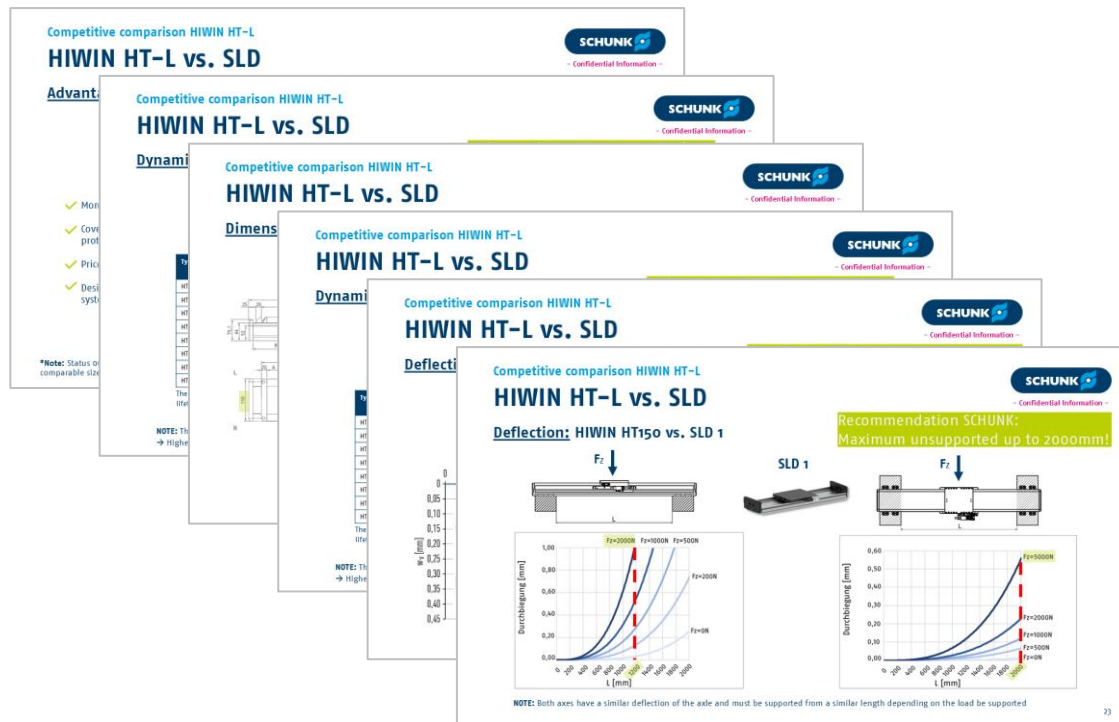
Time-discrete dynamic simulation: all forces and required currents acting on the axis are calculated at every point in time of the movement profile

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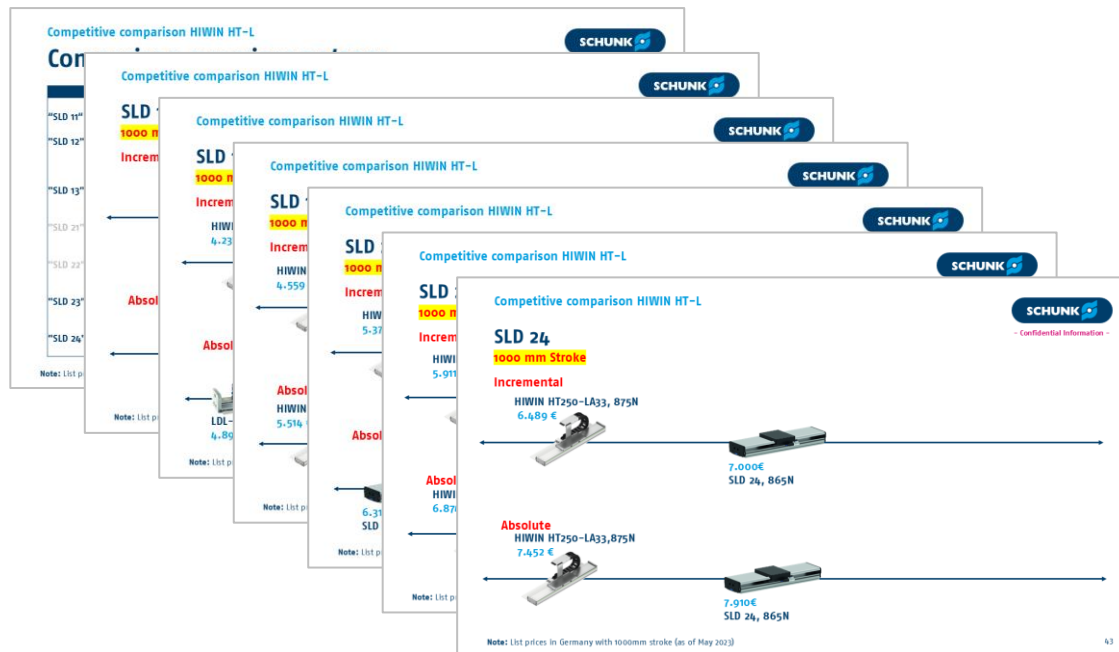
14

Executive Summary

- Detailed technical comparison available



- **Price positioning**
 - SLD/LDx – HIWIN HT-L and
 - LDL/SLD – HIWIN LMSSA available



Conclusion: SLD positioned approx. 4% above HIWIN HT-L for comparable sizes

- 1. Summary & sales argumentation**
- 2. Competitive environment**
- 3. Technical comparison**
- 4. Price positioning SLD/LDx – HIWIN HT-L**
- 5. Price positioning LDL/SLD – HIWIN LMSSA**
- 6. HIWIN Company Profile**

Sales argumentation



Why should a customer buy a SLD axis?

Why should a customer buy a SLD axis?

Overview

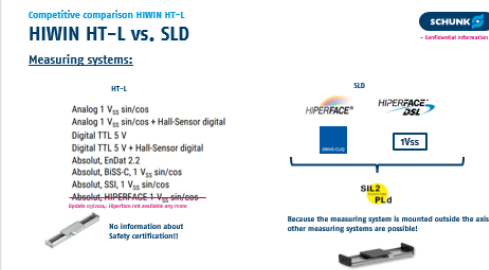
- High interface compatibility with various measuring systems
 - Safety-certified measuring systems available (HIWIN only in special)
- Favorable price-performance ratio also compared to mechanical axis
- Development and production in Germany
- Lightweight construction: unrivaled lightness in relation to power
- Easy to service
- Precise sizing

Why should a customer buy a SLD axis?

- High interface compatibility with various measuring systems
 - Safety-certified measuring systems available (HIWIN only in special)

measuring system	HIWIN HT-L	SCHUNK SLD	Kommentar
incremental			
Analog 1 V _{SS} sin/cos	✓	✓	
Analog 1 V _{SS} sin/cos + Hall sensor digital	✓	✗	old technology
Digital TTL 5 V	✓	✗	Available in special
Digital TTL 5 V + Hall sensor digital	✓	✗	old technology
absolute			
EnDat 2.2	✓	(✓)	in preparation
BiSS C	✓	✗	
SSI	✓	✓	
Hiperface	✗	✓	
Hiperface safety	✗	✓	
Hiperface DSL	✗	✓	
Hiperface DSL safety	✗	✓	
Drive-CliQ safety	✗	✓	

see also:



Competitive comparison HIWIN HT-L vs. SLD

Measuring systems:

HT-L

- Analog 1 V_{SS} sin/cos
- Analog 1 V_{SS} sin/cos + Hall-Sensor digital
- Digital TTL 5 V
- Digital TTL 5 V + Hall-Sensor digital
- Absolute, EnDat 2.2
- Absolute, BiSS-C, 1 V_{SS} sin/cos
- Absolute, SSI, 1 V_{SS} sin/cos
- ~~Absolute, HIPERFACE-1 V_{SS} sin/cos~~

No information about Safety certification!

SLD

- HIPERFACE[®]
- HIPERFACE[®] DSL
- 1V_{SS}
- SL2[®] V1.0

Because the measuring system is mounted outside the axis other measuring systems are possible!

Why should a customer buy a SLD axis?

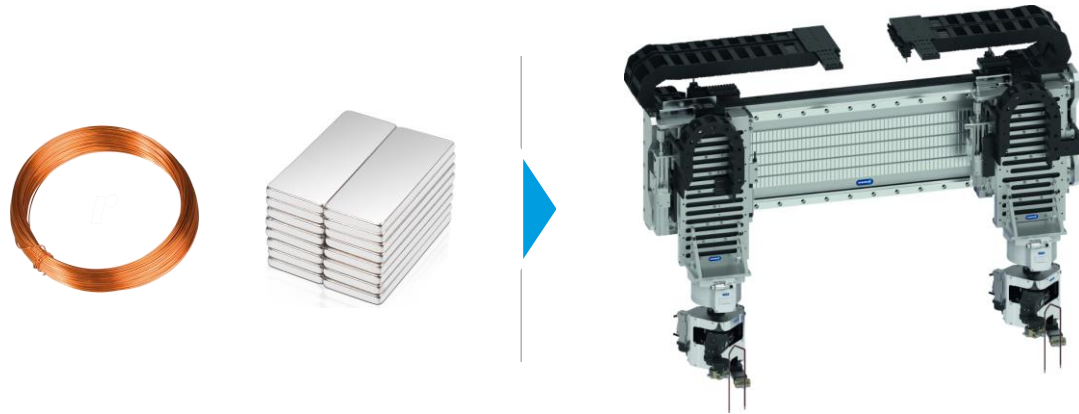
- Favorable price-performance ratio also compared to mechanical axis

Application	SLD	HIWIN	HSB Belt axle with motor and gearbox bell housing
Stroke 1000 mm	SLD 12	HT150-LA12	B140-C-ZSS
Moving mass	450 kg	max. 427 kg	450 kg
V-max.	0,67 m/s	0,67 m/s	0,67 m/s
a-max.	0,44 m/s ²	0,44 m/s ²	0,44 m/s ²
Time	3 sec.	3 sec.	3 sec.
Price	5.350,00 €	5190,72 €	7.720,00 €

Why should a customer buy a SLD axis?

- Development and production in Germany

SCHUNK Electronic Solutions – Center of Competence for Direct Drives



From motor development to motor production to the fully assembled and tested linear direct multi-axis system.


MADE IN GERMANY



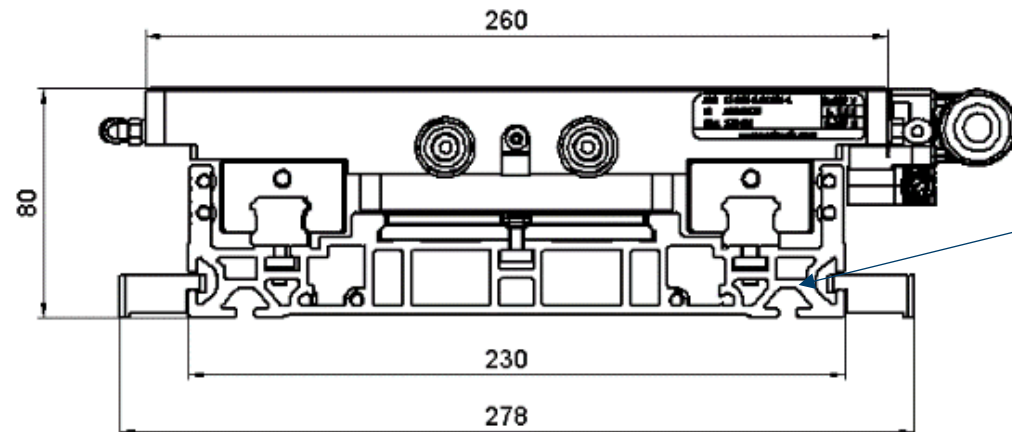
SCHUNK Electronic Solutions GmbH, St. Georgen

Maximum vertical integration

Your advantages: Quality, speed, know-how and innovation, availability, sustainability, service and support

Why should a customer buy a SLD axis?

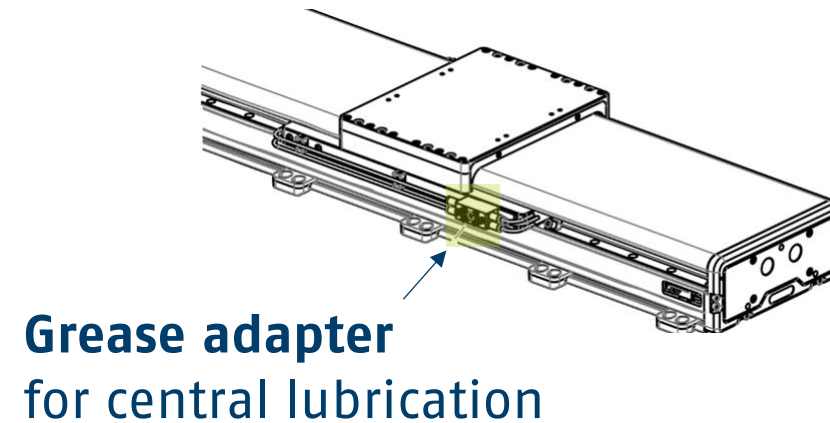
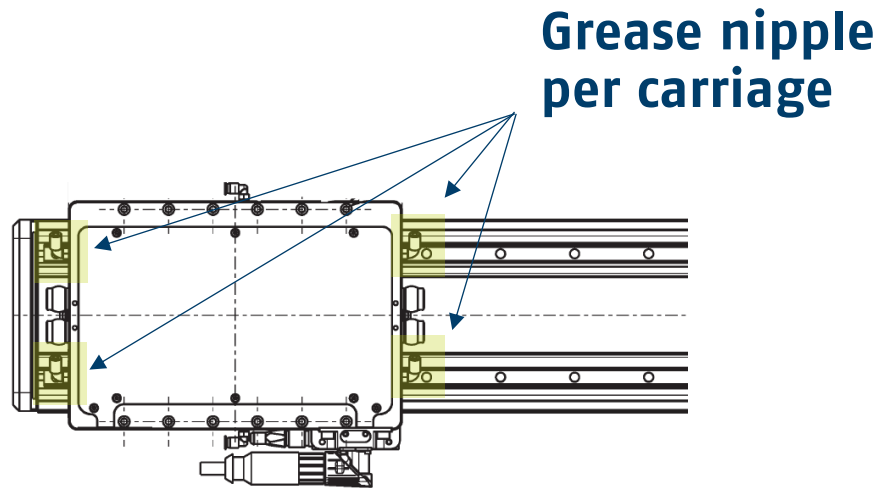
- **Lightweight construction: unrivaled lightness in relation to power**
- Weight-optimized extruded aluminum profile
- Profile can be supported for increased rigidity requirements
 - Outlook: Expansion of the SLD series with a heavy-duty variant



Special lightweight profile

Why should a customer buy a SLD axis?

- Easy to service

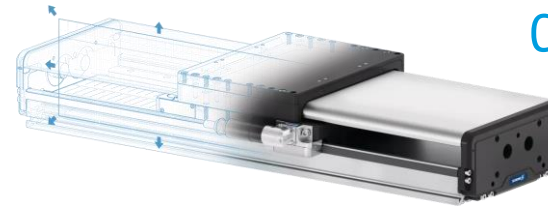


Why should a customer buy a SLD axis?

- Precise sizing



SCHUNK Linear modules
Sizing Assistant



SCHUNK Linear modules
Configurator

- Time-discrete dynamic simulation: all forces and required currents acting on the axis are calculated at every point in time of the movement profile

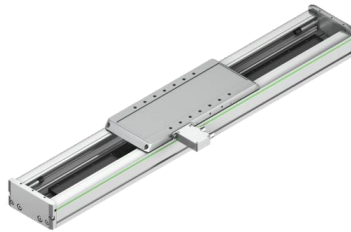
Competitive environment

Who are the competitors we are fighting with the SLD?



HIWIN HT-L vs. SLD

Nominal data:



HT-L Serie

Type	Max. Stroke [mm]	Nominal Force Fx [N]	Vmax [m/s]
HT100LA01	5.500	52	5
HT100LA02	5.450	104	5
HT150LA12	5.450	205	5
HT150LA13	5.350	308	5
HT200LA22	5.400	362	5
HT200LA23	5.300	544	5
HT250LA32	5.450	583	5
HT250LA33	5.350	875	5

Comparison pairing according to nominal force (approx.):



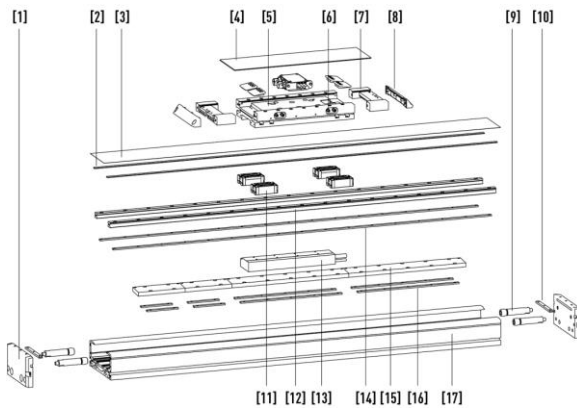
SLD Serie

Type	Max. Stroke [mm]	Nominal Force Fx [N]	Vmax [m/s]
SLD 11	5.500	165	5
SLD 12	5.440	265	5
SLD 13	5.330	375	5
SLD 14	5.190	495	5
SLD 21	5.470	285	5
SLD 22	5.440	450	5
SLD 23	5.330	665	5
SLD 24	5.190	865	5

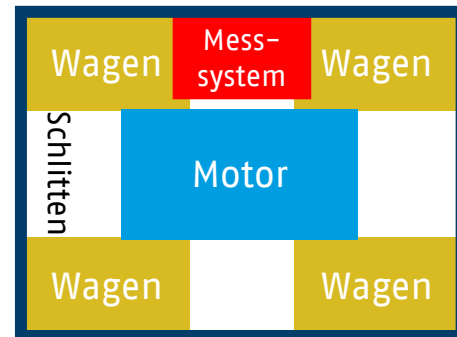
HIWIN HT-L vs. SLD

Layout:

HT-L



Aufbau Schlitten



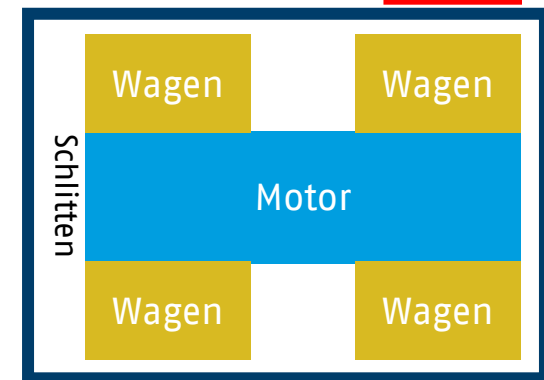
- [1] End plate
- [2] Magnetic strips
- [3] Steel cover strip
- [4] Slide cover
- [5] Slide
- [6] Grease nipple
- [7] Belt deflection
- [8] Carriage end piece
- [9] Stop buffer

- [10] Clamping plate
- [11] Carriage
- [12] Profile rail
- [13] Linear motor (forcer)
- [14] Threaded strips
- [15] Linear motor (stator)
- [16] Threaded strips
- [17] Axis body (aluminum)

SLD



Aufbau Schlitten

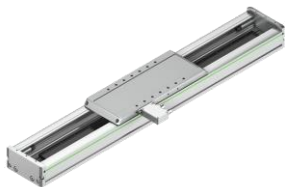
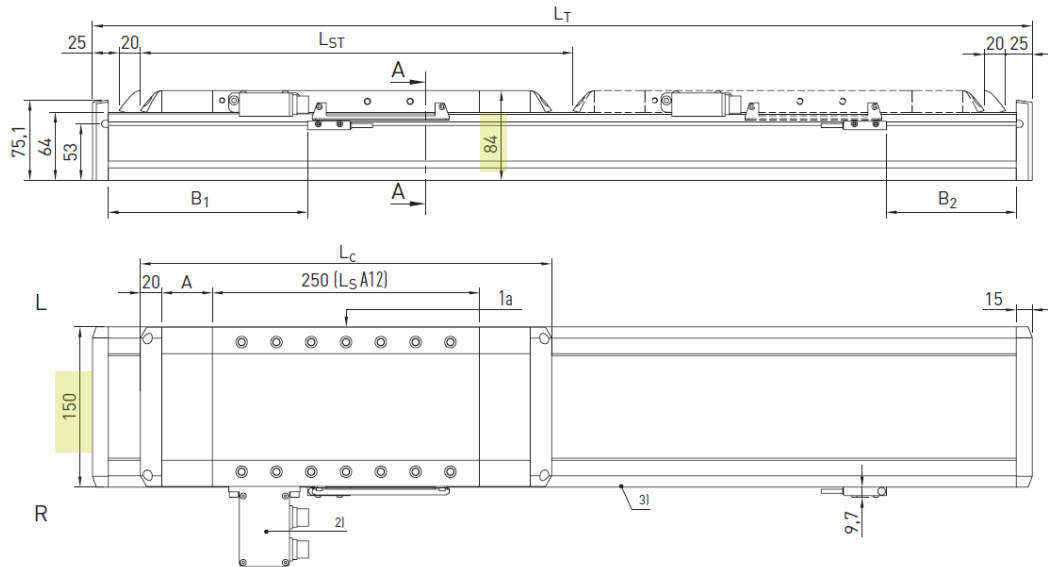


- 1 Aluminum extruded profile
- 2 Pre-loaded profiled rail guide with recirculating ball-bearing guides
- 3 Integrated secondary parts
- 4 Compact primary part slide
- 5 End plates
- 6 Motor plug
- 7 Measuring system plug

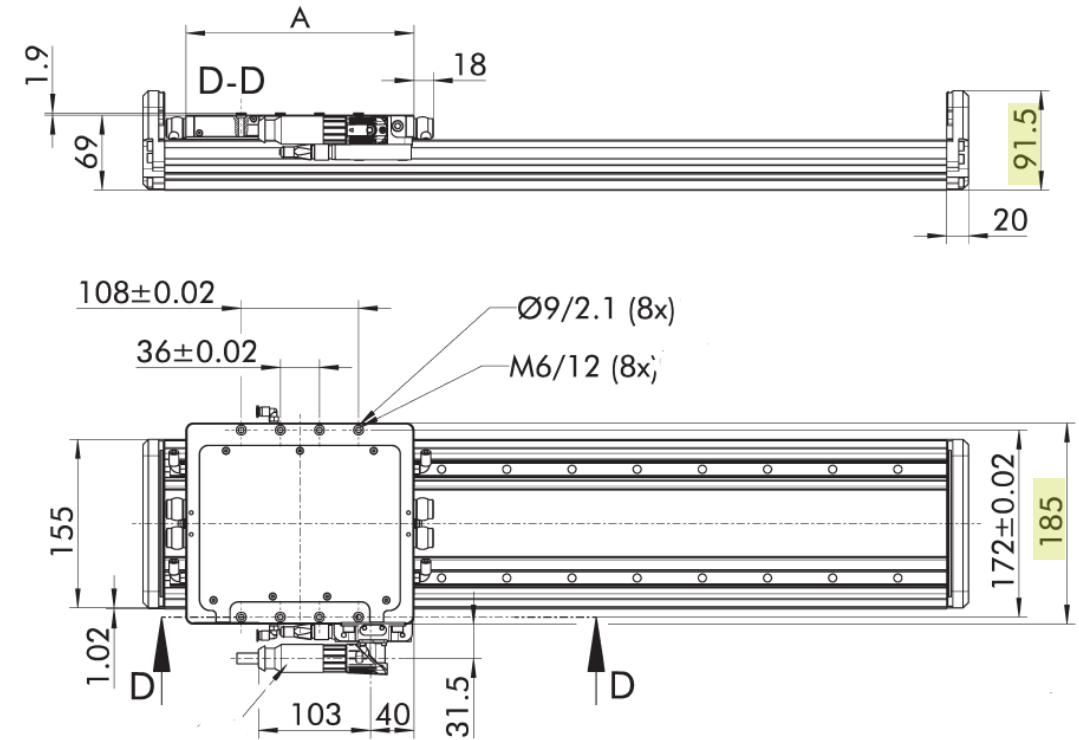
HIWIN HT-L vs. SLD

Dimensions: HIWIN HT150L vs. SLD 1

HT150L



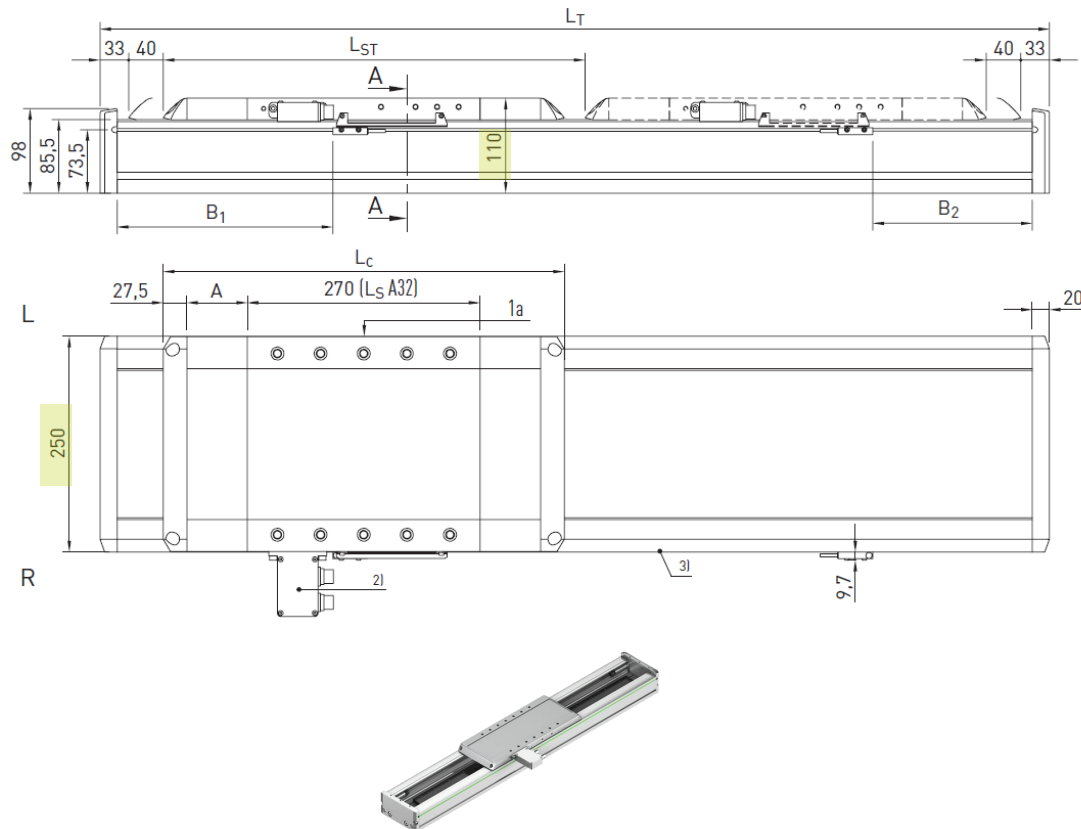
SLD 1



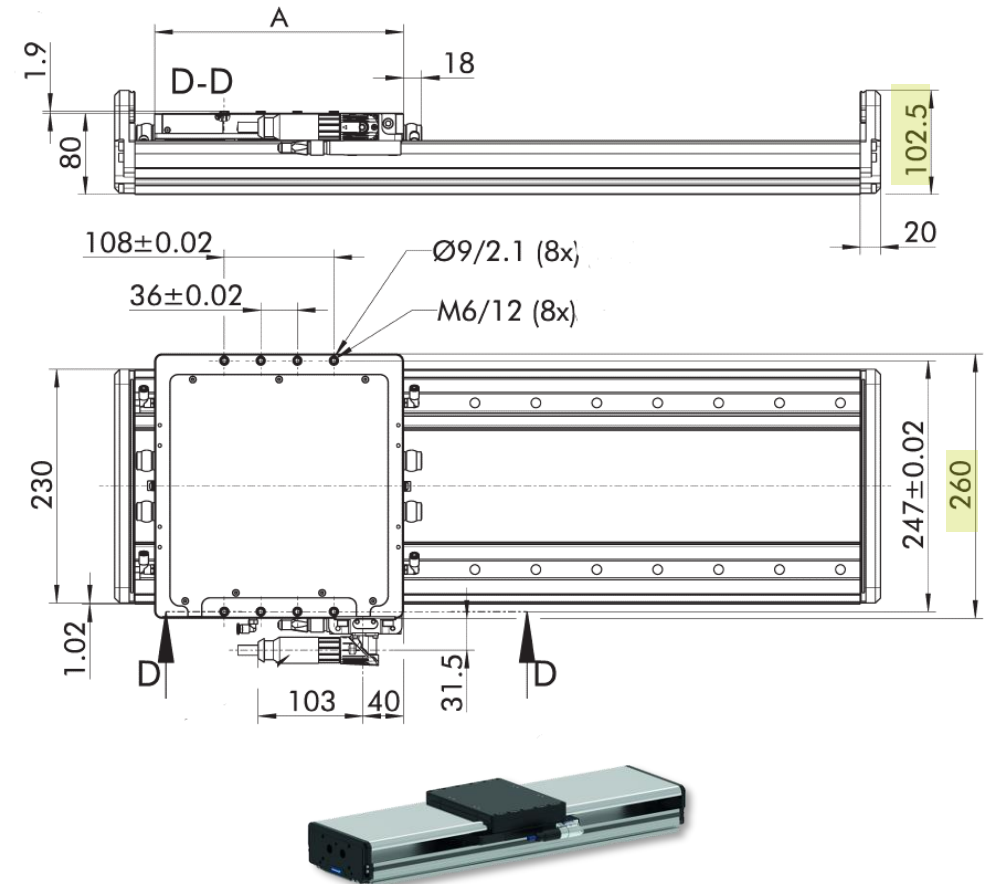
HIWIN HT-L vs. SLD

Dimensions : HIWIN HT250L vs. SLD 2

HT250L

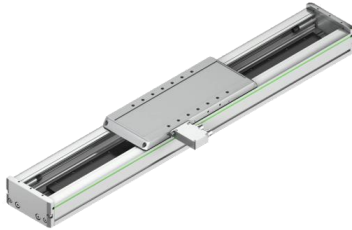


SLD 2



HIWIN HT-L vs. SLD

Dynamic forces:



HT-L Series Catalog data

Type	Kraft Fz dyn [N]	Kraft Fy dyn [N]
HT100LA01	1.101	1.101
HT100LA02	860	860
HT150LA12	4.270	3.350
HT150LA13	3.789	3.350
HT200LA22	10.602	7.800
HT200LA23	9.640	7.800
HT250LA32	14.160	11.600
HT250LA33	13.165	11.600

The specified dynamic forces refer to a refer to a lifetime of **20,000km**

Comparison at 1000 mm stroke



SLD Catalog data

Type	Kraft Fz dyn [N]	Kraft Fy dyn [N]
SLD 11	45.079	45.079
SLD 12	45.079	45.079
SLD 13	67.619	67.619
SLD 14	67.619	67.619
SLD 21	70.794	70.794
SLD 22	70.794	70.794
SLD 23	106.190	106.190
SLD 24	106.190	106.190

The specified dynamic forces refer to the nominal lifetime (L10) referred to **100km**

SLD Serie vs. HT-L Serie

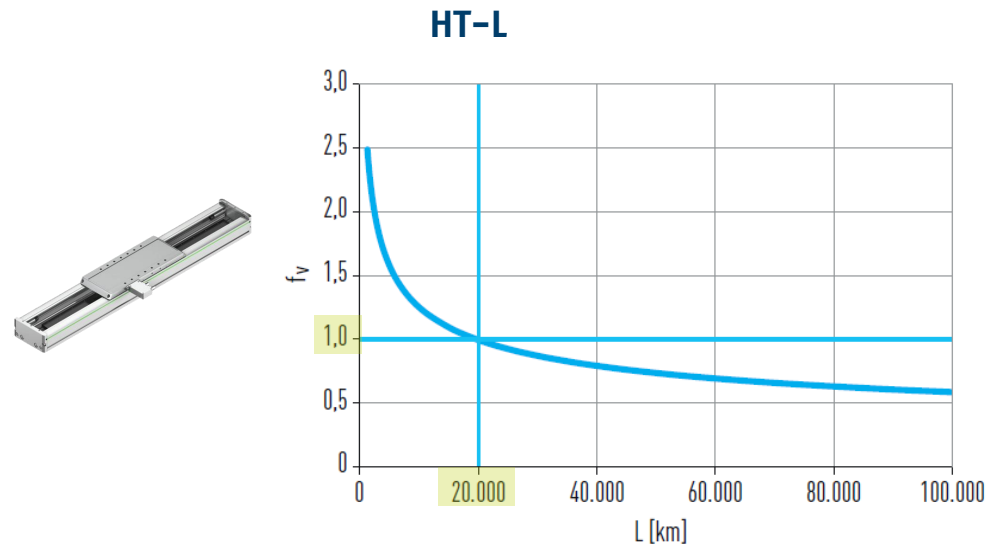
Type	Kraft Fz dyn [N]	Kraft Fy dyn [N]
SLD 11	3.002	3.002
SLD 12	1.902	1.902
SLD 13	2.853	2.853
SLD 14	1.753	1.753
SLD 21	4.242	4.242
SLD 22	2.042	2.042
SLD 23	3.063	3.063
SLD 24	863	863

The specified dynamic forces refer to the nominal lifetime (L10) referred to **20.000km**

NOTE: The dynamic forces of the SLD axis are lower compared to the HT-L series because the motors of the SLD are larger and therefore heavier.
→ Higher mass/load on the guide for the SLD axis and therefore less forces can be absorbed.

HIWIN HT-L vs. SLD

Lifetime:



$$f_v = \frac{|F_y|}{F_{y\text{dynmax}}} + \frac{|F_z|}{F_{z\text{dynmax}}} + \frac{|M_x|}{M_{x\text{dynmax}}} + \frac{|M_y|}{M_{y\text{dynmax}}} + \frac{|M_z|}{M_{z\text{dynmax}}}$$

Running performance SLD:
20.000km or 50 Mio. cycles

SLD

$$L_{10} = (P_v)^3 \times 100\text{km}$$



$$P_v = \frac{1}{\frac{|F_y|}{C_{Fy\text{dyn}}} + \frac{|F_z + F_M|}{C_{Fz\text{dyn}}} + \frac{|M_x|}{C_{Mx\text{dyn}}} + \frac{|M_y|}{C_{My\text{dyn}}} + \frac{|M_z|}{C_{Mz\text{dyn}}} + 0,08}$$

F_M = Motor tightening torque

Additional load on guide

L_{10} = Lifetime with 10% probability of failure

P_v = Comparison factor leadership load

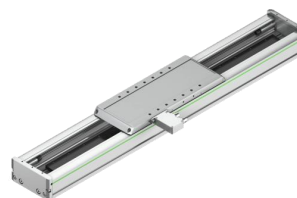
NOTE: HIWIN specifies a lifetime of 20,000km when loaded according to catalog specifications. For the SLD we specify the same lifetime

HIWIN HT-L vs. SLD

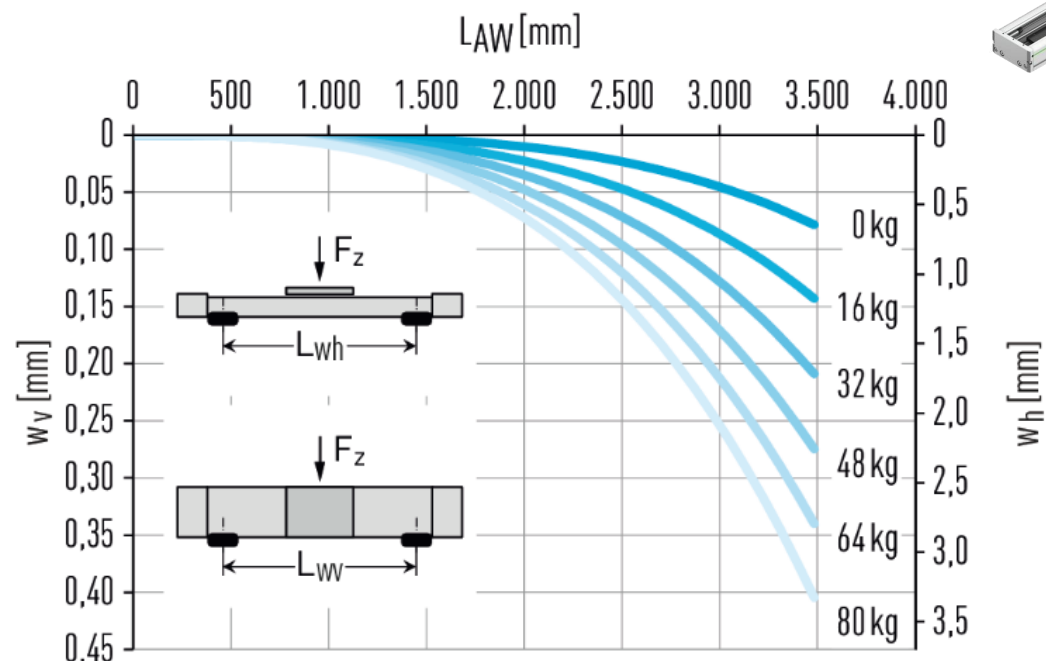
Deflection: HIWIN HT150 vs. SLD 1

The HT-L and SLD axes are only self-supporting up to a certain length unsupported!

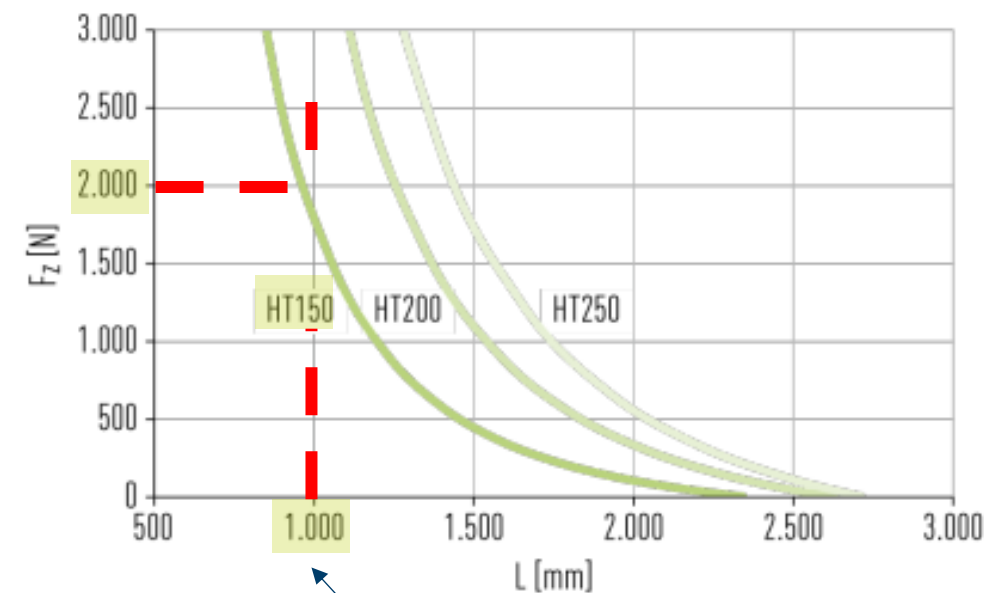
HT150



Deflection



Support

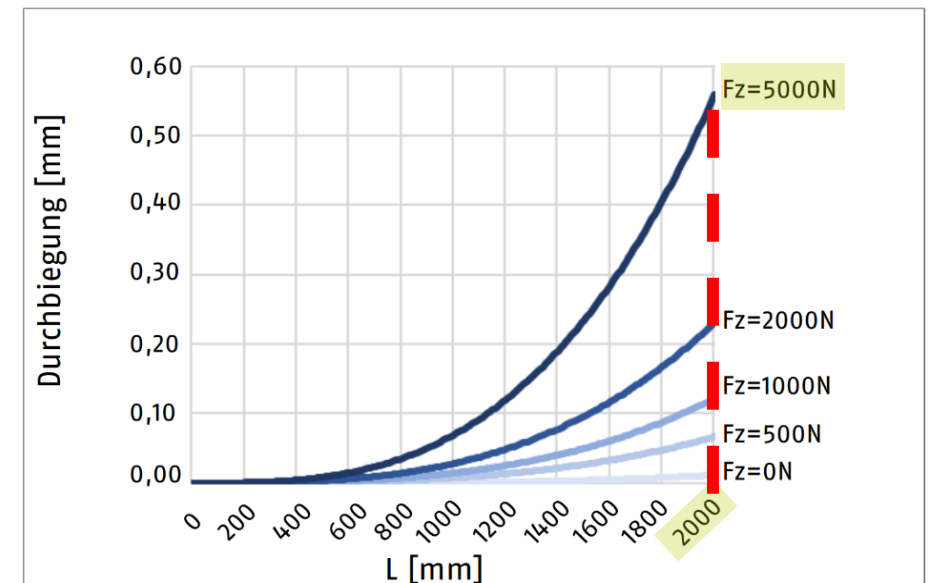
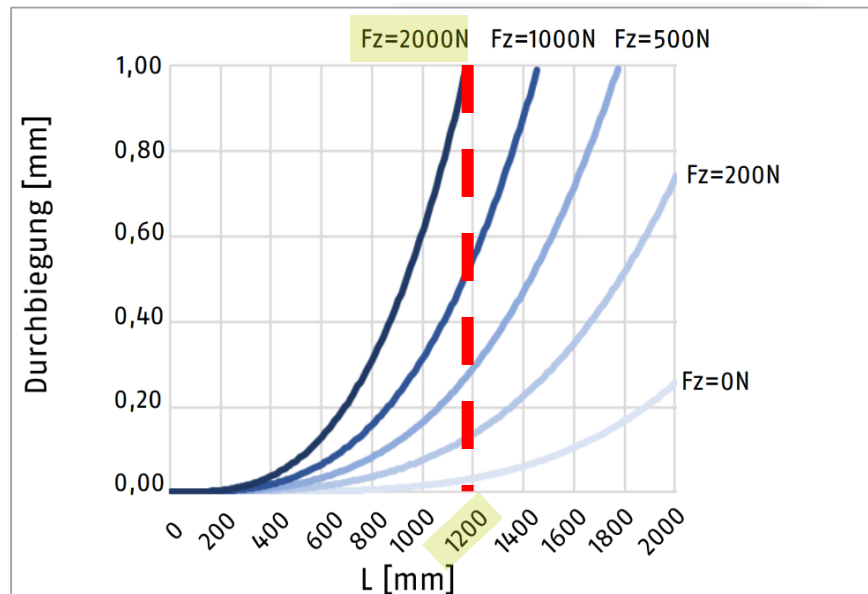
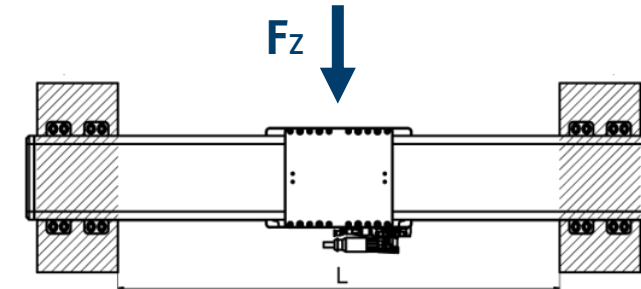
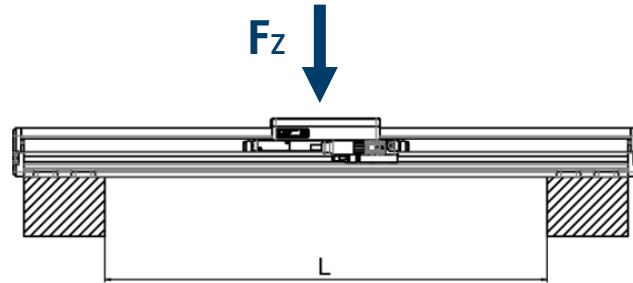


Recommended support

HIWIN HT-L vs. SLD

Deflection: HIWIN HT150 vs. SLD 1

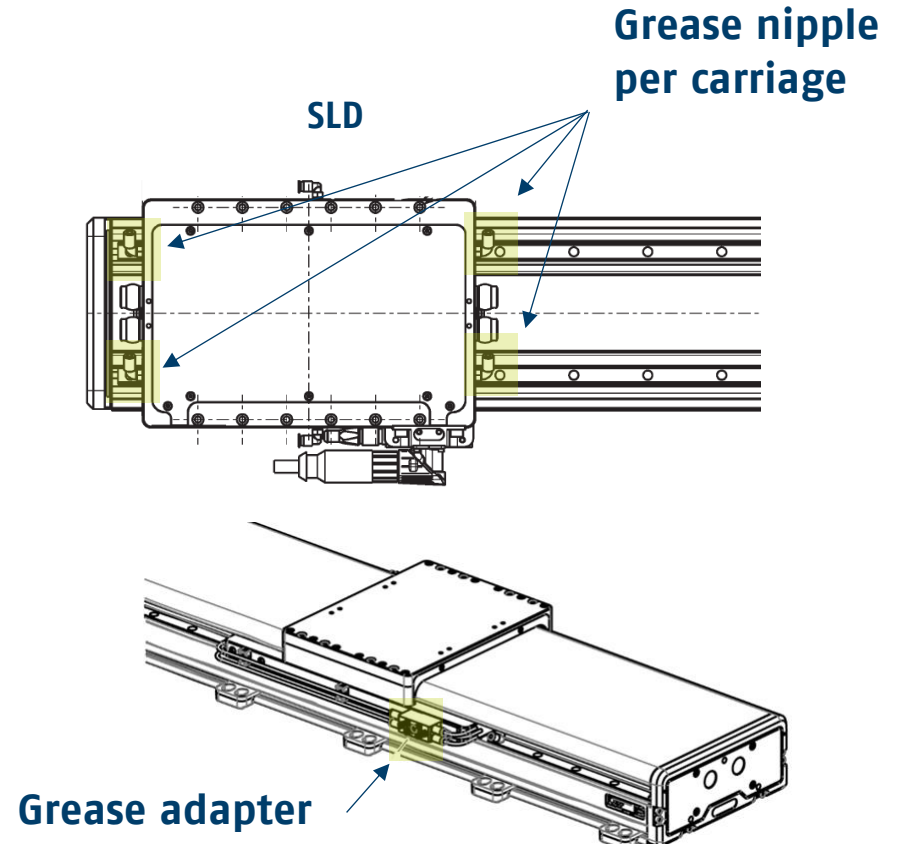
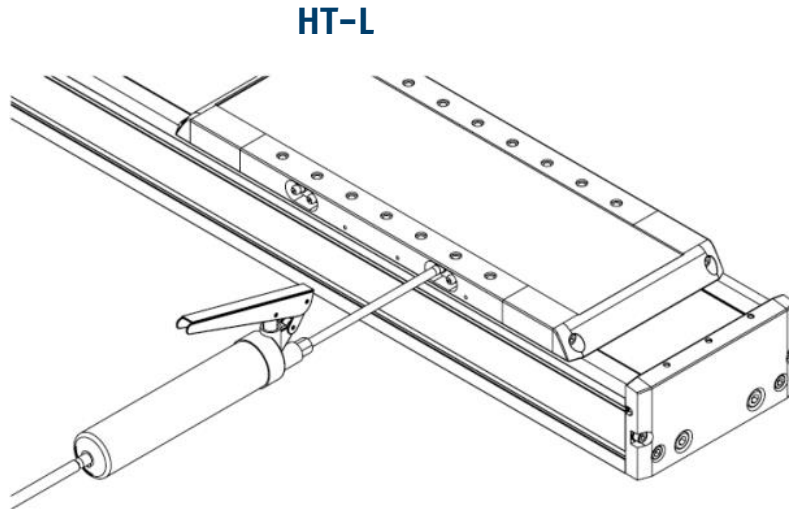
Recommendation SCHUNK:
Maximum unsupported up to 2000mm!



NOTE: Both axes have a similar deflection of the axle and must be supported from a similar length depending on the load be supported

HIWIN HT-L vs. SLD

Greasing:



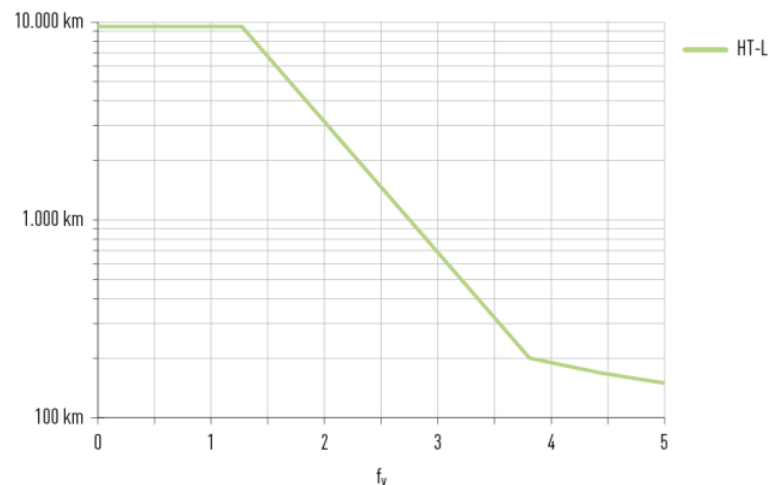
NOTE: Both axes must be relubricated after a certain period of time

Competitive comparison HIWIN HT-L

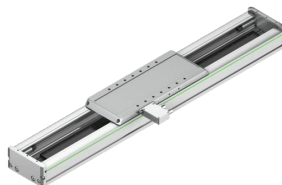
HIWIN HT-L vs. SLD

Greasing:

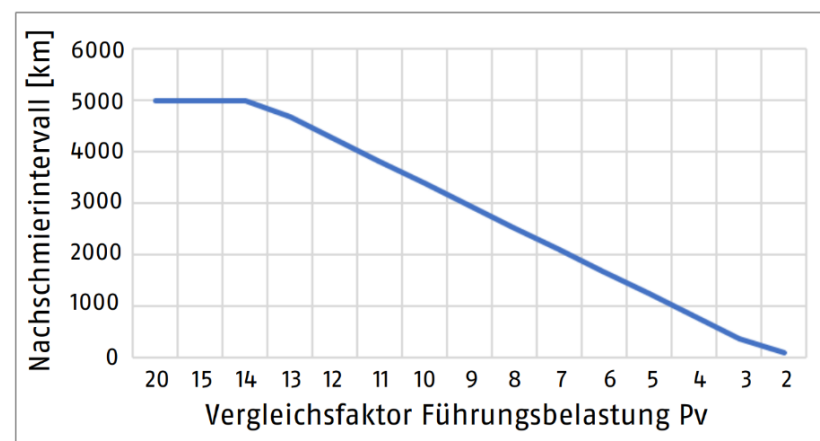
HT-L



$$f_v = \frac{|F_y|}{F_{y \text{ dynmax}}} + \frac{|F_z|}{F_{z \text{ dynmax}}} + \frac{|M_x|}{M_{x \text{ dynmax}}} + \frac{|M_y|}{M_{y \text{ dynmax}}} + \frac{|M_z|}{M_{z \text{ dynmax}}}$$



SLD



Motor tightening torque

Additional load on guide

$$P_V = \frac{|F_y|}{C_{F_y \text{ dyn}}} + \frac{|F_z + F_M|}{C_{F_z \text{ dyn}}} + \frac{|M_x|}{C_{M_x \text{ dyn}}} + \frac{|M_y|}{C_{M_y \text{ dyn}}} + \frac{|M_z|}{C_{M_z \text{ dyn}}} + 0,08$$



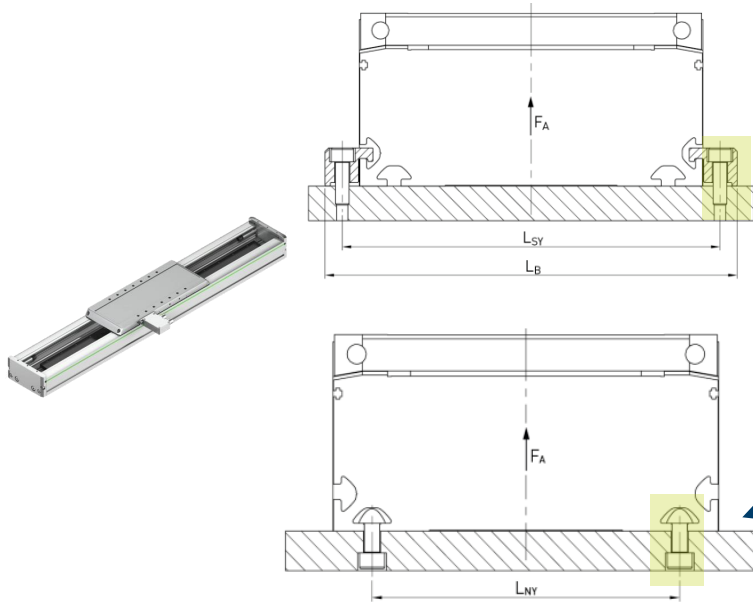
NOTE: HIWIN does not include the motor tightening torque and the additional load on the guide when calculating the lubrication intervals. This means that the lubrication intervals are higher on paper but not in reality!

Competitive comparison HIWIN HT-L

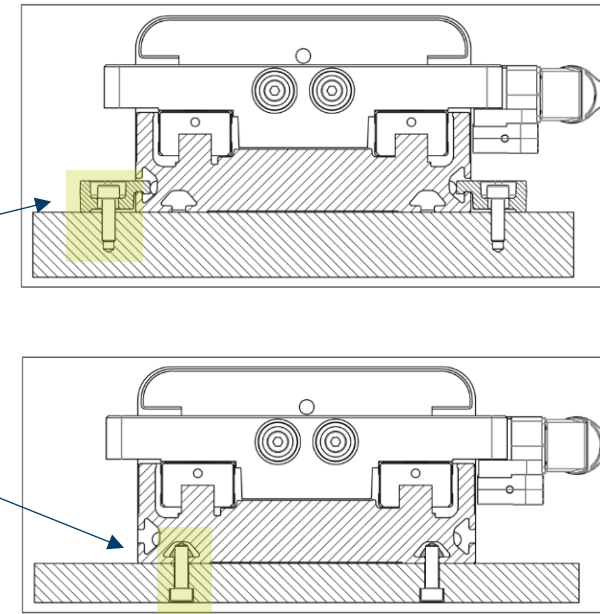
HIWIN HT-L vs. SLD

Mounting:

HT-L



SLD



Fastening strip

T-Slot Nut

NOTE: Both axes are mounted using the same mounting options

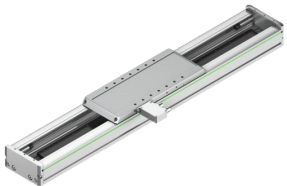
HIWIN HT-L vs. SLD

Measuring systems:

HT-L

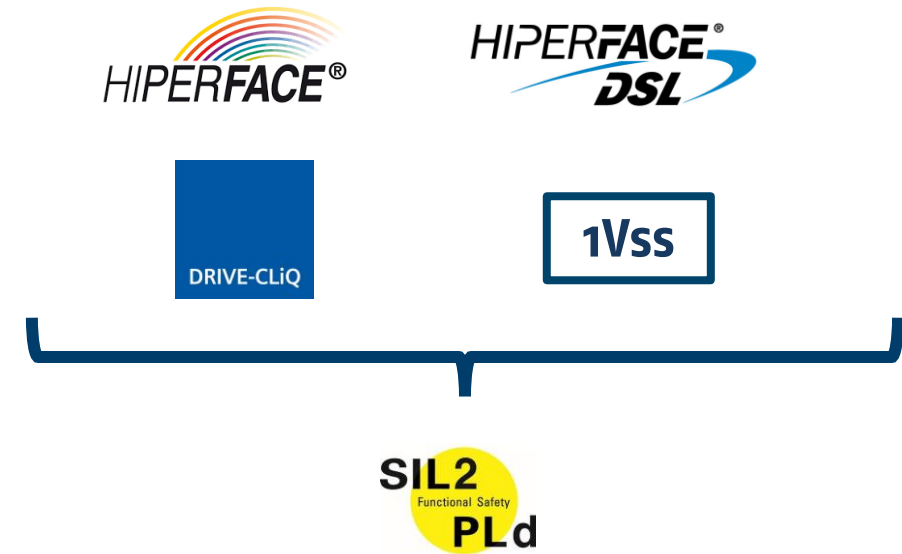
Analog 1 V_{SS} sin/cos
Analog 1 V_{SS} sin/cos + Hall-Sensor digital
Digital TTL 5 V
Digital TTL 5 V + Hall-Sensor digital
Absolut, EnDat 2.2
Absolut, BiSS-C, 1 V_{SS} sin/cos
Absolut, SSI, 1 V_{SS} sin/cos
~~Absolut, HIPERFACE 1 V_{SS} sin/cos~~

Update 09/2024: Hiperface not available any more



**No information about
Safety certification!!**

SLD



**Because the measuring system is mounted outside the axis
other measuring systems are possible!**

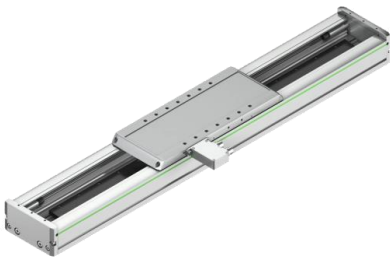


HIWIN HT-L vs. SLD

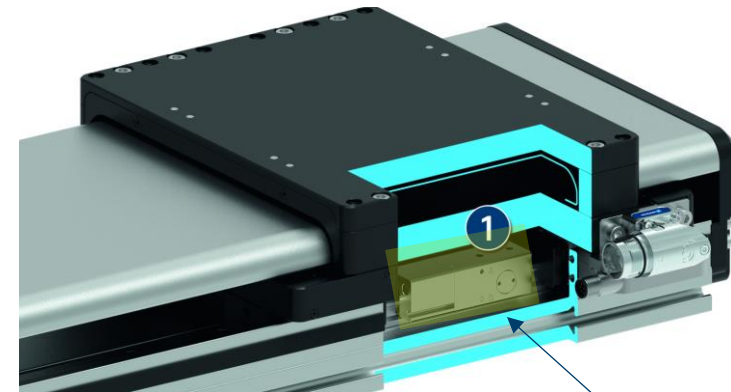
Holding brake:

HT-L

**No optional holding brake
available in the standard!**



SLD



Optional for an additional cost

**Holding brake
(pneumatic)**



Competitive comparison HIWIN HT-L

HIWIN HT-L vs. SLD

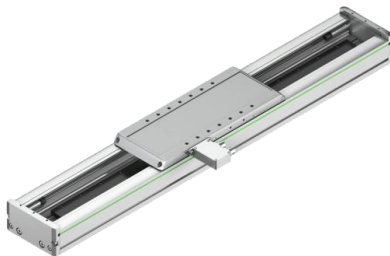
Cover:

HT-L

Covering tape

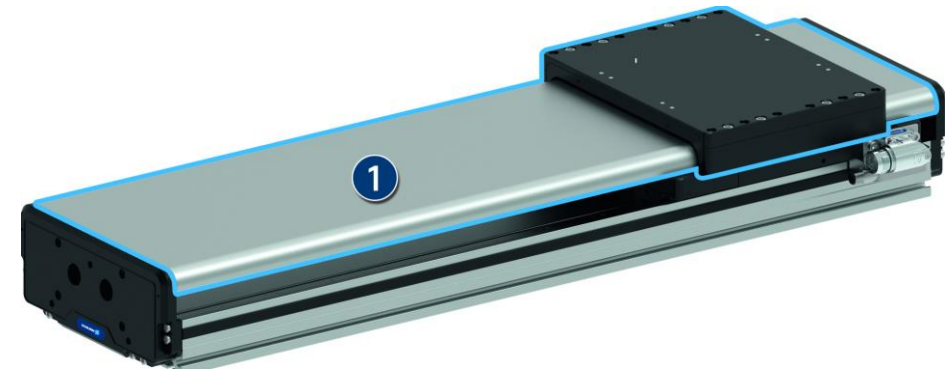


Optional for an additional cost



SLD

Cover



Optional for an additional cost

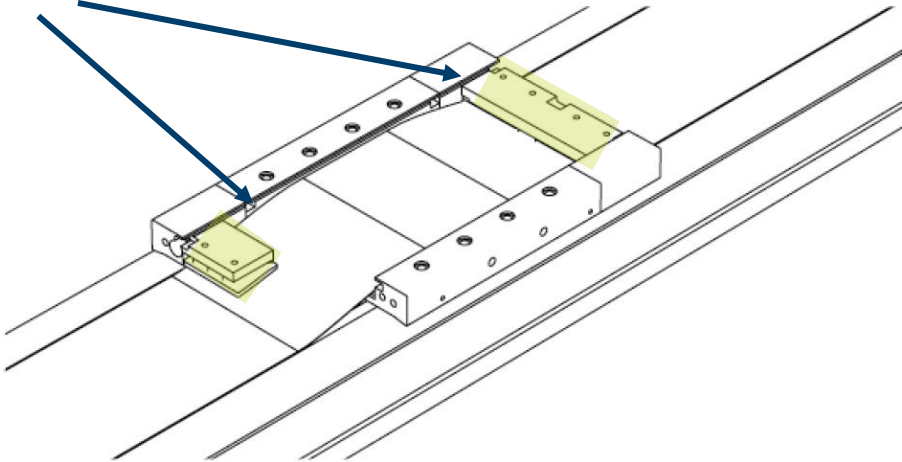


HIWIN HT-L vs. SLD

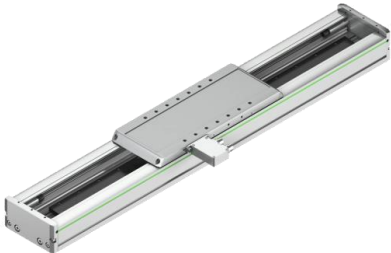
Technology cover:

HT-L

Sliding blocks = permanent friction

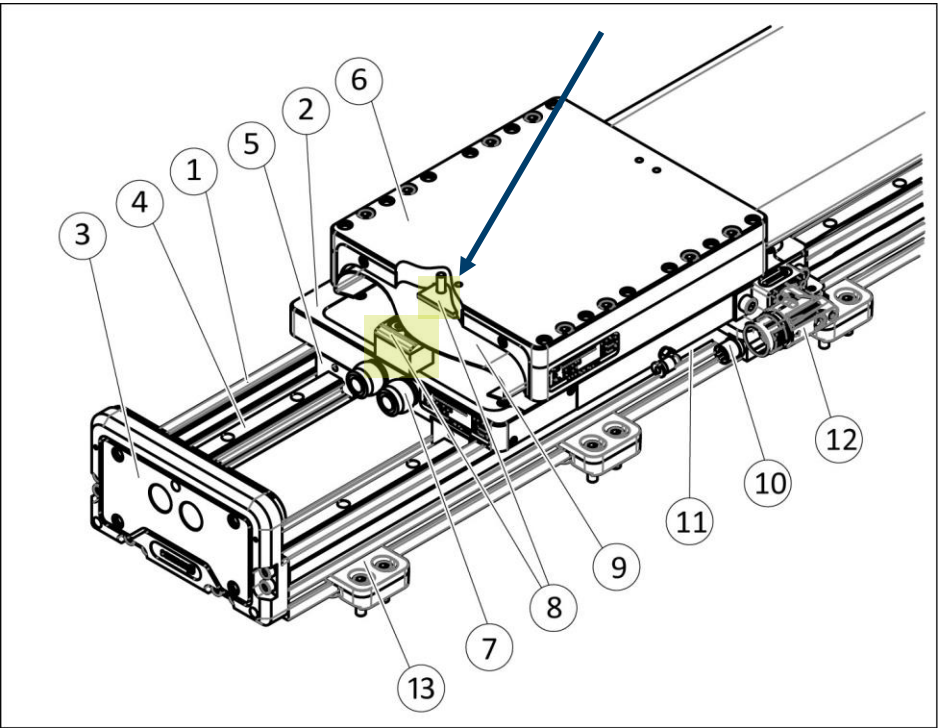


Similar structure of the cover as for our HSB axes



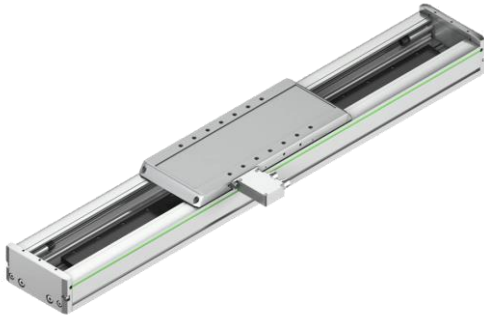
SLD

Sliding blocks only effective from 1.5Meter



HIWIN HT-L vs. SLD

Services:



HIWIN

Services:

- Support in the design of the axis
- Providing CAD data
- Offer of own drive controller

SW-Services:

- Motor parameters only for own HIWIN controller
- Design and configuration tool for single axes and axis systems incl. lifetime information



SCHUNK

Services:

- Axis design support
- Commissioning support
- Providing CAD data
- Consulting drive controllers for BOSCH and SIEMENS
- Information on detailed lifetime and greasing intervals

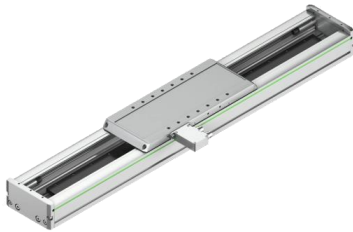
SW-Services:

- Motor parameters for BOSCH, SIEMENS and Beckhoff drive controllers
- Design and configuration tool for single axes (available end of 2023)

Competitive comparison HIWIN HT-L

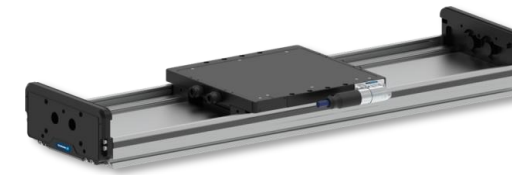
HIWIN HT-L vs. SLD

Options:



HT-L Series

Optionen		Aufpreis
Absolute measuring system	✓	1000 € (stroke and size independent)
Certified measuring system	✗	- €
Holding brake	✗	- €
Cover	✓	HT150L: 300 € HT200L: 370 € HT250L: 700 €
Greasing adapter	✗	- €



SLD Series

Optionen		Aufpreis
Absolute measuring system	✓	900 € (stroke and size independent)
Certified measuring system	✓	0 € (Cost neutral)
Holding brake	✓	992 € (stroke and size independent)
Cover	✓	SLD 1: 470 € SLD 2: 500 €
Greasing adapter	✓	SLD 1: 220 € (Stroke independent) SLD 2: 252 € (Stroke independent)

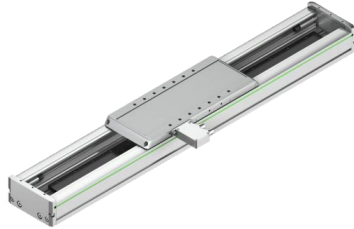
Note: List prices in Germany with 1000mm stroke (as of May 2023)

HIWIN price development / running meter

Typ	Hub 1000 mm	+ 1000 mm	+ 1000 mm
Absolute measuring system			
HT100-LA02	5.440 €	1.298 €	1.298 €
HT150-LA12	5.191 €	1.277 €	1.277 €
HT150-LA13	5.514 €		
HT200-LA22	5.743 €	1.511 €	1.511 €
HT200-LA23	6.332 €		
HT250-LA32	6.874 €	1.778 €	1.778 €
HT250-LA33	7.452 €		
Incremental measuring system			
HT100-LA02	4.488 €	1.140 €	1.140 €
HT150-LA12	4.237 €	1.118 €	1.118 €
HT150-LA13	4.559 €		
HT200-LA22	4.785 €	1.352 €	1.352 €
HT200-LA23	5.374 €		
HT250-LA32	5.911 €	1.620 €	1.620 €
HT250-LA33	6.489 €		

HIWIN HT-L vs. SLD

Summary:



HT-L Series

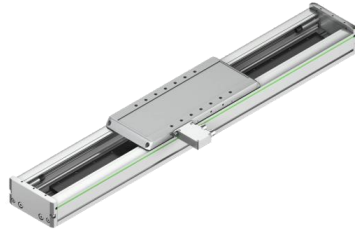


SLD Series

- HT-L and SLD are very similar in the structure of the axis
- HIWIN also makes good linear direct motors
- SLD is stronger in nominal force in comparable axes
- HT-L series is a bit more compact than SLD axis (only a few millimeters)
- Due to the smaller and lighter motors in the HT-L series, the dynamic forces of the HIWIN axis are higher.
- HIWIN does not include the motor torque and the additional load on the guide when calculating the life and greasing intervals. This means that the lifetime and the greasing intervals are higher on paper but not in reality!
- Both axes must be greased
- Because the measuring system of the SLD is located outside the slide, other measuring systems can be easily added

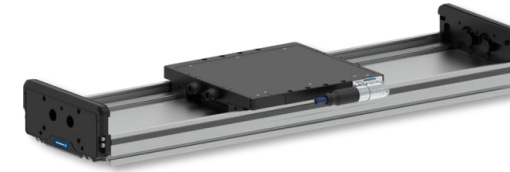
HIWIN HT-L vs. SLD

Advantages of the axes in direct comparison:



HT-L Series

- ✓ More compact design
- ✓ Cover strip seals complete axis (but no indication of IP protection class)
- ✓ Price approx. 6% lower for comparable sizes*.
- ✓ Design and configuration tool for single axes and axis systems



SLD Series

- ✓ Higher forces with comparable sizes
- ✓ Linear direct motors Made in Germany
- ✓ Wider range of options (holding brake, lubrication adapter)
- ✓ Other measuring systems can easily be added
- ✓ Certified measuring systems

***Note:** Status 09/2024: at start of sales list prices were kept approx. 6% above HIWIN on purpose, since SLD axis is better in terms of performance for comparable sizes.

Comparison overview 09/2024

		1000 mm Hub	
		Inkrementell	Absolut
"SLD 11"	HT100-LA02, 104 N	4.488	5.440 €
	SLD 11, 165 N	4.110 €	5.020 €
"SLD 12"	HIWIN HT150-LA12, 205 N	4.237 €	5.191 €
	SLD 12, 265 N	4.440 €	5.350 €
	LDN-EL-0200, 205 N	4.760 €	5.340 €
	LDL-UL-0200, 180 N	4.250 €	4.890 €
"SLD 13"	HIWIN HT150-LA13, 308 N	4.559 €	5.514 €
	SLD 13, 375 N	4.840 €	5.750 €
	LDN-EG-0300, 280 N	5.300 €	5.890 €
"SLD 21"	HIWIN HT200-LA22, 362 N	4.785 €	5.743 €
	SLD 21, 285 N	5.010 €	5.920 €
	LDM-ES-0200, 220 N	6.490 €	7.070 €
"SLD 22"	HIWIN HT200-LA23, 544 N	5.374 €	6.332 €
	SLD 22, 450 N	5.400 €	6.310 €
	LDM-EL-0400, 370 N	7.370 €	7.950 €
"SLD 23"	HIWIN HT250-LA32, 583 N	5.911 €	6.874 €
	SLD 23, 665 N	6.250 €	7.160 €
"SLD 24"	LDT-EL-0600, 500 N	8.780 €	9.360 €
	HIWIN HT250-LA33, 875 N	6.489 €	7.452 €
	SLD 24, 865 N	7.000 €	7.910 €

Note: List prices in Germany with 1000mm stroke (as of May 2023)

SLD 11

1000 mm Stroke

Incremental



Absolute



SLD 12

1000 mm Stroke

Incremental

HIWIN HT150-LA12, 205N

4.237 €



LDL-UL-0200, 180N

4.250€



4.440€

SLD 12, 265N

LDN-EL-0200, 205N

4.760€



Absolute

HIWIN HT150-LA12, 205N

5.191 €



LDL-UL-0200, 180N

4.890€



LDN-EL-0200, 205N

5.340€



5.350€

SLD 12, 265N

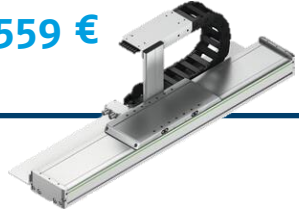
SLD 13

1000 mm Stroke

Incremental

HIWIN HT150-LA13, 308N

4.559 €



4.840€

SLD 13, 375N

LDN-EG-0300, 280N

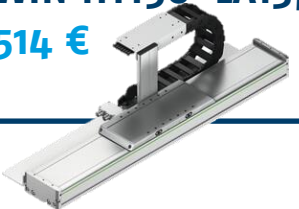
5.300€



Absolute

HIWIN HT150-LA13, 308N

5.514 €



5.750€

SLD 13, 375N

LDN-EG-0300, 280N

5.890€



SLD 21

1000 mm Stroke

Incremental

HIWIN HT200-LA22, 362N

4.785 €



5.010€

SLD 21, 285N

LDM-ES-0200, 220N

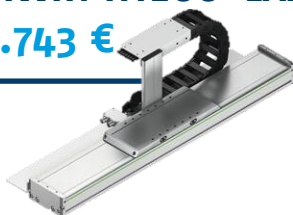
6.490€



Absolute

HIWIN HT200-LA22, 362N

5.743 €

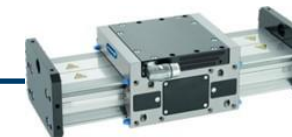


5.920€

SLD 21, 285N

LDM-ES-0200, 220N

7.070€



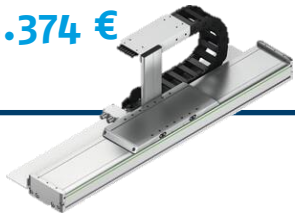
SLD 22

1000 mm Stroke

Incremental

HIWIN HT200-LA23, 544N

5.374 €



5.400€

SLD 22, 450N

LDM-EL-0400, 370N

7.370€



Absolute

HIWIN HT200-LA23, 544N

6.332 €



LDM-EL-0400, 370N

7.950€



6.310€

SLD 22, 450N

SLD 23

1000 mm Stroke

Incremental

HIWIN HT250-LA32, 583N
5.911 €



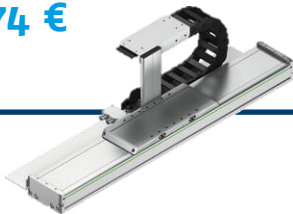
6.250€
SLD 23, 665N

LDT-EL-0600, 500N
8.780€



Absolute

HIWIN HT250-LA32, 583N
6.874 €



7.160€
SLD 23, 665N

LDT-EL-0600, 500N
9.360€



Note: List prices in Germany with 1000mm stroke (as of May 2023)

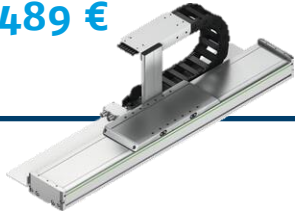
SLD 24

1000 mm Stroke

Incremental

HIWIN HT250-LA33, 875N

6.489 €



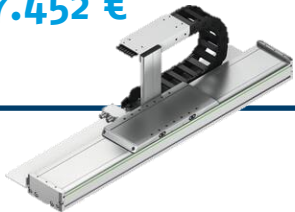
7.000€

SLD 24, 865N

Absolute

HIWIN HT250-LA33,875N

7.452 €



7.910€

SLD 24, 865N

Pricing LDL – SLD – HIWIN



01.08.2023 – Julian Kümmerling

Price Update:

09/2024 – Alexander Löffler,
Markus Hanselmann



Hand in hand for tomorrow

Initial situation and Target

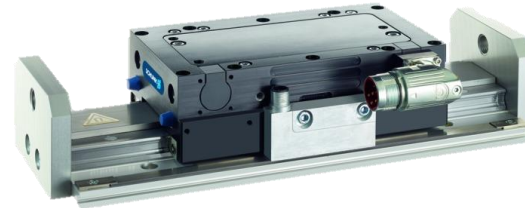
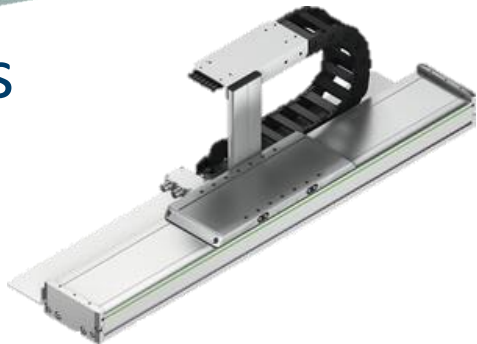
- LDL axis significantly more expensive and artificially expensive

Target

- SLD in competition with HIWIN HT-L → **premium range**
- LDL in competition with HIWIN LMSSA → **economy range**



VS



VS



Comparison Overview 09/2024

Name	100 mm stroke	1000 mm stroke	2000 mm stroke
SLD 11	3.440 €	4.110 €	4.900 €
SLD 12	3.770 €	4.440 €	5.230 €
LDL-US-0100	2.460 €	3.580 €	4.830 €
LDL-UL-0200	3.130 €	4.250 €	5.500 €
LMSSA-13S100	2.380 €	3.610 €	4.880 €
LMSSA-13S200	2.580 €	3.780 €	5.040 €

LDL-US-0100

Incremental, 100 mm stroke



Incremental, 1000 mm stroke



Incremental, 2000 mm stroke



All pricing information status 09/2024

LDL-UL-0200

Incremental, 100 mm stroke



Incremental, 1000 mm stroke



Incremental, 2000 mm stroke



All pricing information status 09/2024

General



- Confidential Information -

HIWIN®

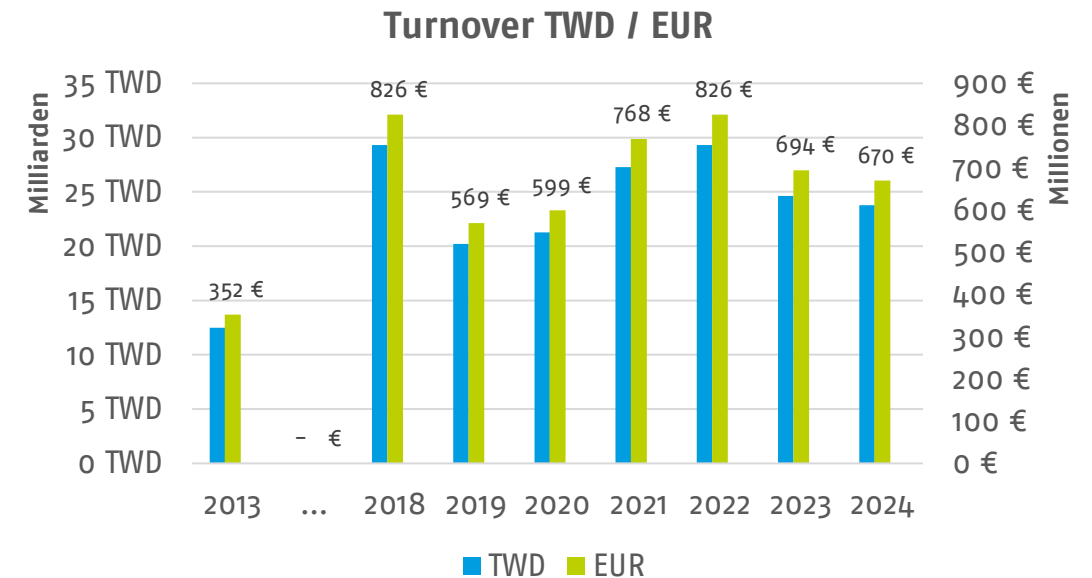
- **HIWIN** Technologies Corporation
- Established 1989
- Headquarter: Taichung, Taiwan (Republic China)

Capital

- 3,5 Billion TWD // 98,5 Mio. EUR

Number of employees

- worldwide: 6.423 (03/2024)



Websites

- <https://www.hiwinglobal.com/>
- <https://www.hiwin.tw/>
- <https://www.hiwin.de/> + local websites .it/.fr/...

Global Footprint



- Confidential Information -

HIWIN[®]

Overseas subsidiaries (Plants)

- Germany, Japan, United States, Italy, Switzerland, Czech Republic, France, Singapore, South Korea, China



R&D Centers

- Tokyo (Japan)
- Offenburg (Germany)
- HIWIN – National Tsing Hua University Joint R&D Center (Taiwan)



Affiliated companies

- mega-fabs Motion System Ltd.; Haifa (Israel);
<https://mega-fabs.com/>
- HIWIN U.K. (Matrix Precision), Coventry (UK);
<https://www.matrix-machine.com/>
- HIWIN MIKROSYSTEM (est. 1997, Taichung, Taiwan);
<https://www.hiwinmikro.tw/en>



Positioning

- HIWIN comes from "HI-tech WINner" and means, "With us, you are a hi-tech winner."
- Positioning as innovation leader, technology leader

Product Portfolio

Product portfolio differs significantly depending on location / subsidiary / website

Components



System Component



Subsystems



Complete Machines



Product portfolio - 14 main product groups

focus for HIWIN linear
axis business is Germany
→ Special machinery

Location

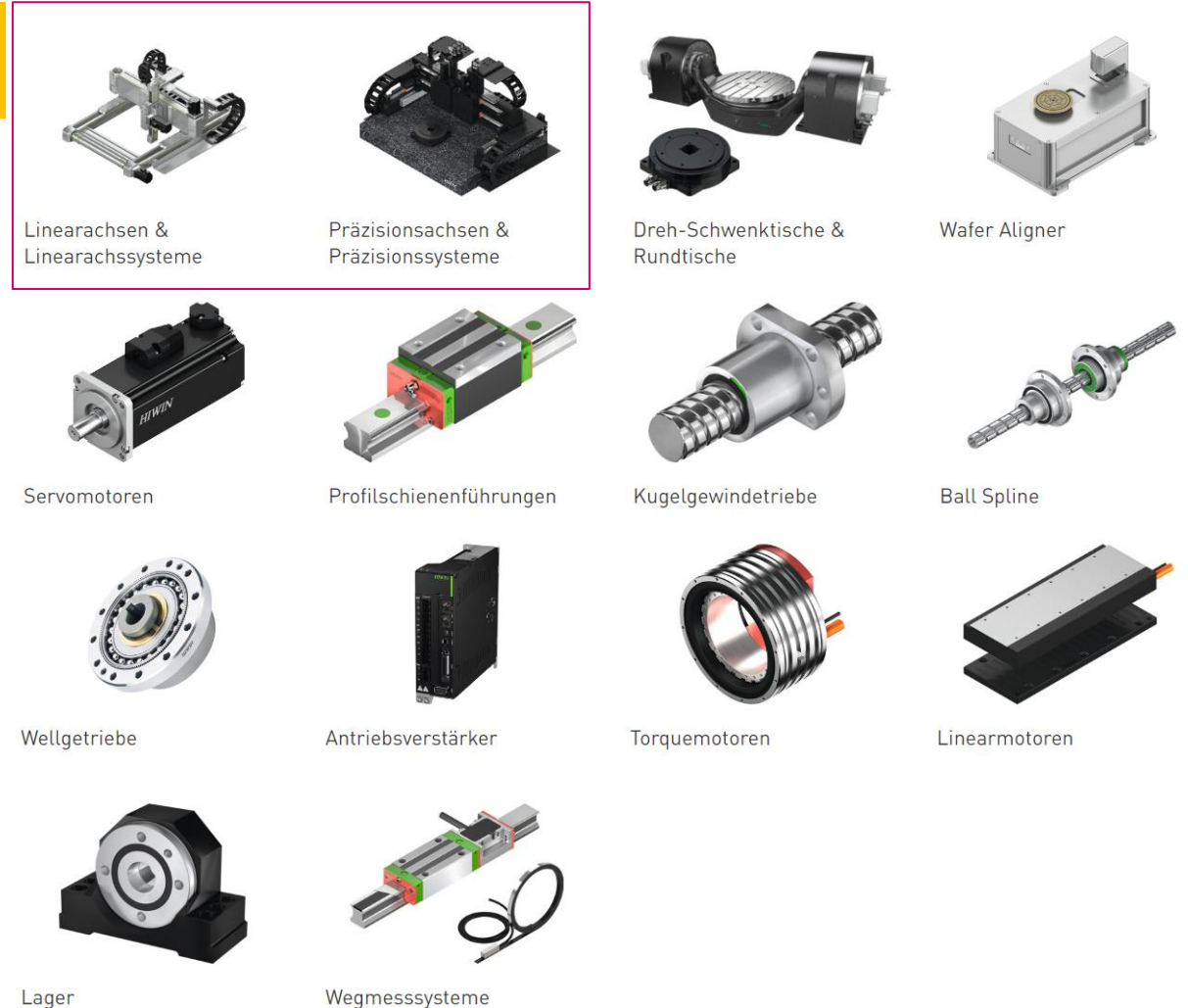
- HIWIN GmbH, Offenburg (Baden-Württemberg)
→ European Headquarter (Plant, R&D)
- Established 04/1993: HIWIN incorporates insolvent company "Holzer Kugelgewindespindeln (ball screw spindles)"

Number of employees

- Germany, Offenburg: >500 (2023)

Website:

- <https://www.hiwin.de/>





Hand in hand for tomorrow

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