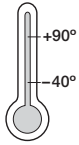




# DryLin® SHT | Linear Slide Tables

Dry running maintenance-free slide tables operate with iglidur bearings and are available in a wide variety of configurations, including various combinations of screw, housing and shaft materials, which allows you to implement low weight, low corrosion and low cost solutions.



## Technical Data

### Liner material:

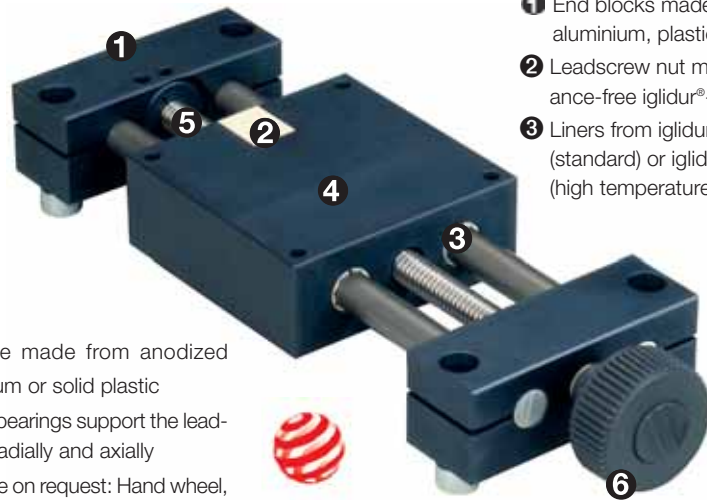
- iglidur® J
- iglidur® X

### Shaft materials:

- Anodized aluminium
- Case-hardened steel
- Stainless steel

### Leadscrew materials:

- Steel
- Stainless steel
- Hard anodized aluminium



- 1 End blocks made from anodized aluminium, plastic or zinc die-casting
- 2 Leadscrew nut made from maintenance-free iglidur®-material
- 3 Liners from iglidur® J ▶ Page 3.2 (standard) or iglidur® X ▶ Page 6.2 (high temperature material)

- 4 Carriage made from anodized aluminium or solid plastic
- 5 iglidur® bearings support the lead-screw radially and axially
- 6 Available on request: Hand wheel, clamp, position indicator



reddot design award  
winner 2006

## Structure of the part number:

SHT - 12 - AWM - 150 - HR - ES



### Leadscrew material

Leave blank	= Steel (standard)
ES	= Stainless steel
AL	= Hard anodized aluminium

### Additional options

Leave blank	= Standard
HR	= Hand wheel
PA	= Position indicator
HK	= Leadscrew clamping
HK-PA-HR	= Different combinations
Z	= No machining (TR10x2)
PL	= preload
HTX	= High temp. version

### Length of stroke

### Shaft material

AWM	= Hard anodized aluminium
SWM	= Case-hardened steel
EWM	= Stainless steel

### Dimensions

1040	= shaft Ø 10 mm, TR10x2 (SLW)
12	= shaft Ø 12 mm, TR10x2
1660	= shaft Ø 16 mm, TR14x4 (SLW)
20	= shaft Ø 20 mm, TR18x4
2080	= shaft Ø 20 mm, TR18x4 (SLW)
25	= shaft Ø 25 mm, TR10x2 (SET)
30	= shaft Ø 30 mm, TR24x5

### Type

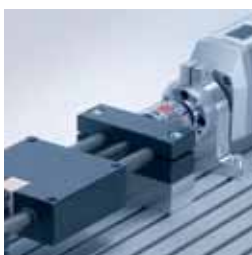
SHT	= Basic ▶ Page 65.5
SHTP	= Cost-effective ▶ Page 65.8
SLW	= Compact ▶ Page 65.10
SHTC	= Flexible ▶ Page 65.12
SHTS	= Fast ▶ Page 65.13
SET	= EasyTube ▶ Page 65.14



High dirt resistance



Cost-effective and reliable at the same time



Modular design, allows easy installation

DryLin® SHT

Phone +44 (0) 16 04 - 67 72 40  
Fax +44 (0) 16 04 - 67 72 45

igus® UK Ltd

Internet [www.igus.co.uk](http://www.igus.co.uk)  
E-mail [sales\\_uk@igus.co.uk](mailto:sales_uk@igus.co.uk)



# DryLin® SHT | Design/Calculation

DryLin® linear lead screw units have been developed for position settings of all types. The linear setting is achieved by means of trapezoidal lead screw that can be operated manually or by motor. The maximum linear continuous speed is 1 m/min. The suitability of the linear slide unit for an application can be checked using the graphs below.

The following trapezoidal lead screw drive sizes are used in SHT linear tables:

- TR 10x2: SHT-12, SHTC-12, SHTP-12, SLW-1040, SLW-1040-ES, SET-25
- TR 14x4: SLW-1660
- TR 18x4: SHT-20, SHTC-20, SLW-2080
- TR 24x5: SHT-30, SHTC-30

Please note that the loads given are axial loads. Radial loads are not given for trapezoidal lead screws. For horizontal mounting with symmetrical loads, the following equation can be used:  
 $F_{axial} = F_{radial} \times 0.25$  (for horizontal mounting)

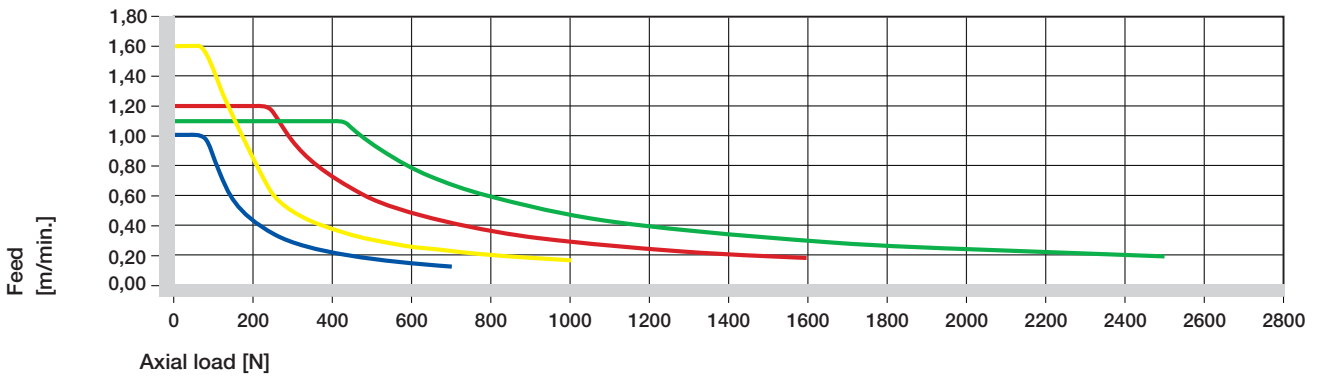
DryLin® SHT

Phone +44 (0) 16 04 - 67 72 40  
 Fax +44 (0) 16 04 - 67 72 45

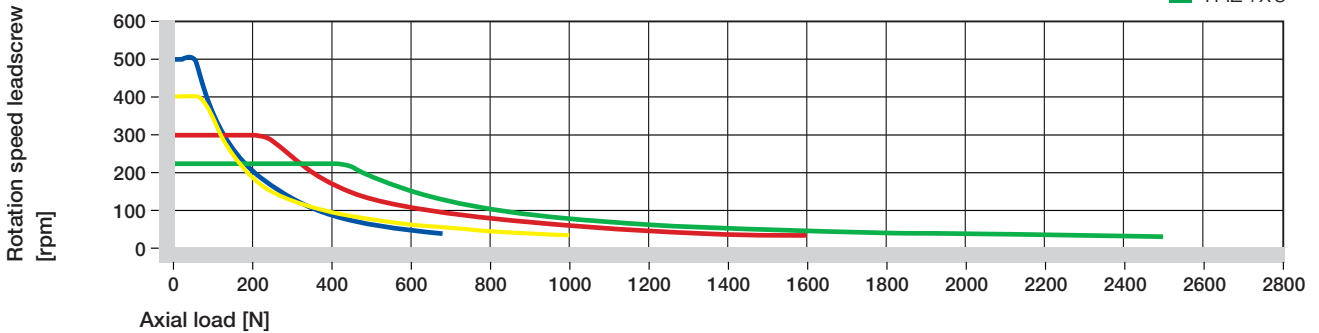
iglus® UK Ltd

Internet [www.igus.co.uk](http://www.igus.co.uk)  
 E-mail [sales\\_uk@igus.co.uk](mailto:sales_uk@igus.co.uk)

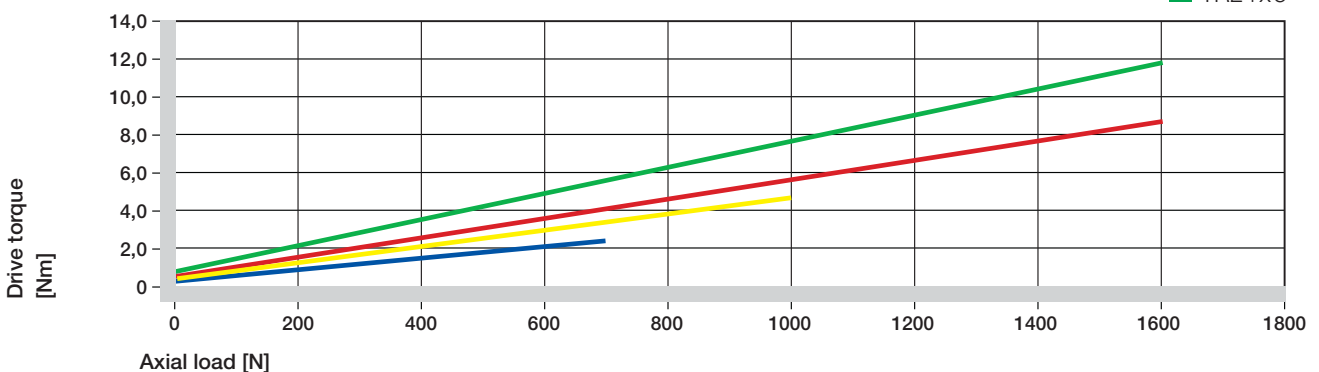
Max. feed [m/min.]



Max. permissible rotation speed lead screw [rpm]

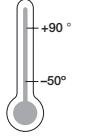


Drive torque [Nm]

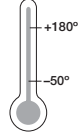




**NEW!**  
High temperature  
version



Standard



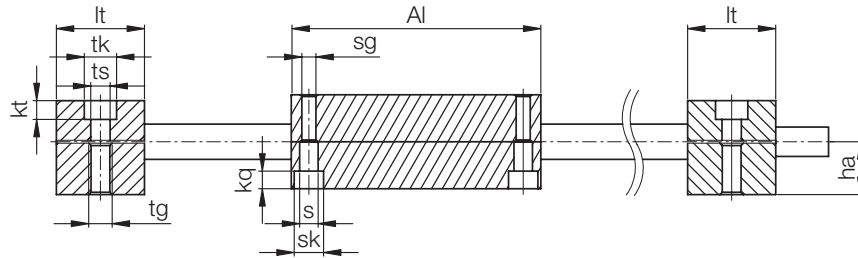
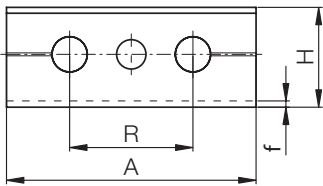
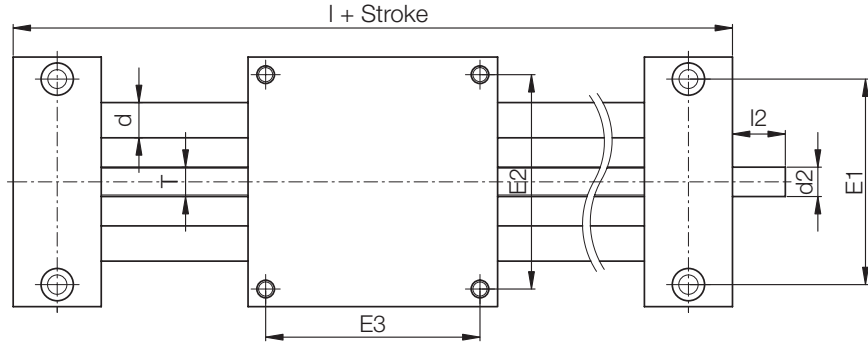
High temperature

## Special properties

- Solid design
- 3 different sizes
- Different shaft and leadscrew materials offering highest flexibility
- Maintenance-free and corrosion resistant
- TR10x2, TR18x4, TR24x5
- Preload version available ► Page 65.6
- High temperature version available. Temperatures up to +180 °C possible. Shafts and leadscrews made from stainless steel.



reddot design award  
winner 2006



## Lengths [mm] and Weight

Part No.	Maximum Stroke length [mm]	Aluminium Shaft		Steel Shaft		Max. static load-bearing capacity	
		Weight [kg]	Additional weight (per 100 mm) [kg]	Weight [kg]	Additional weight (per 100 mm) [kg]	axial [N]	radial [N]
SHT-12-AWM	750	1,1	0,1	1,3	0,2	700	2800
<b>NEW!</b> SHT-12-EWM-HTX**	750	1,1	0,1	1,3	0,2	700	2800
SHT-20-AWM	1000	3,2	0,3	3,9	0,6	1600	6400
SHT-30-AWM	1250	8,6	0,6	10,9	1,4	2500	10000

## Dimensions [mm]

Part No.	A	Al	H	E1	E2	E3	I	R	f	lt	tk	ts
	-0,3	-0,3		±0,15	±0,15	±0,15				±0,1		
SHT-12-AWM	85	85	34	70	73	73	145	42	2	30	11	6,6
<b>NEW!</b> SHT-12-EWM-HTX**	85	85	34	70	73	73	145	42	2	30	11	6,6
SHT-20-AWM	130	130	48	108	115	115	202	72	2	36	15	9,0
SHT-30-AWM	180	180	68	150	158	158	280	96	4	50	20	13,5

Part No.	tg	kt	s	sk	sg	kq	d	T	l2	d2	ha
		±0,1								Standard	
SHT-12-AWM	M8	6,4	6,3	10	M6	6,0	12	TR10 x 2	17	TR10 x 2*	18
<b>NEW!</b> SHT-12-EWM-HTX**	M8	6,4	6,3	10	M6	6,0	12	TR10 x 2	17	TR10 x 2*	18
SHT-20-AWM	M10	8,6	6,4	11	M8	7,0	20	TR18 x 4	26	12 h9	23
SHT-30-AWM	M16	12,6	11,0	18	M12	10,6	30	TR24 x 5	38	14 h9	36

\* TR10x2 leadscrew end unmachined

\*\* High temperature version with shafts and leadscrew made from stainless steel.

More dimensions in preparation. Bearing material: iglidur® X, ► Chapter 6

Order example:



More details on part no. options: ► Page 65.2

