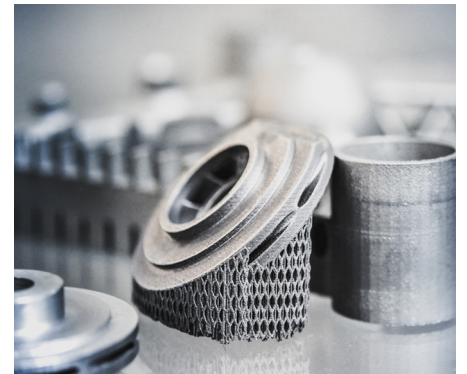
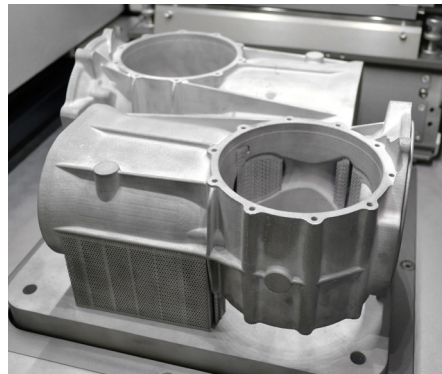
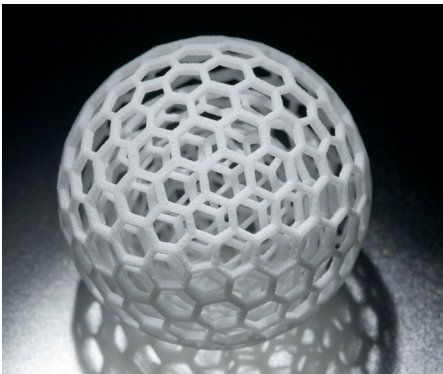
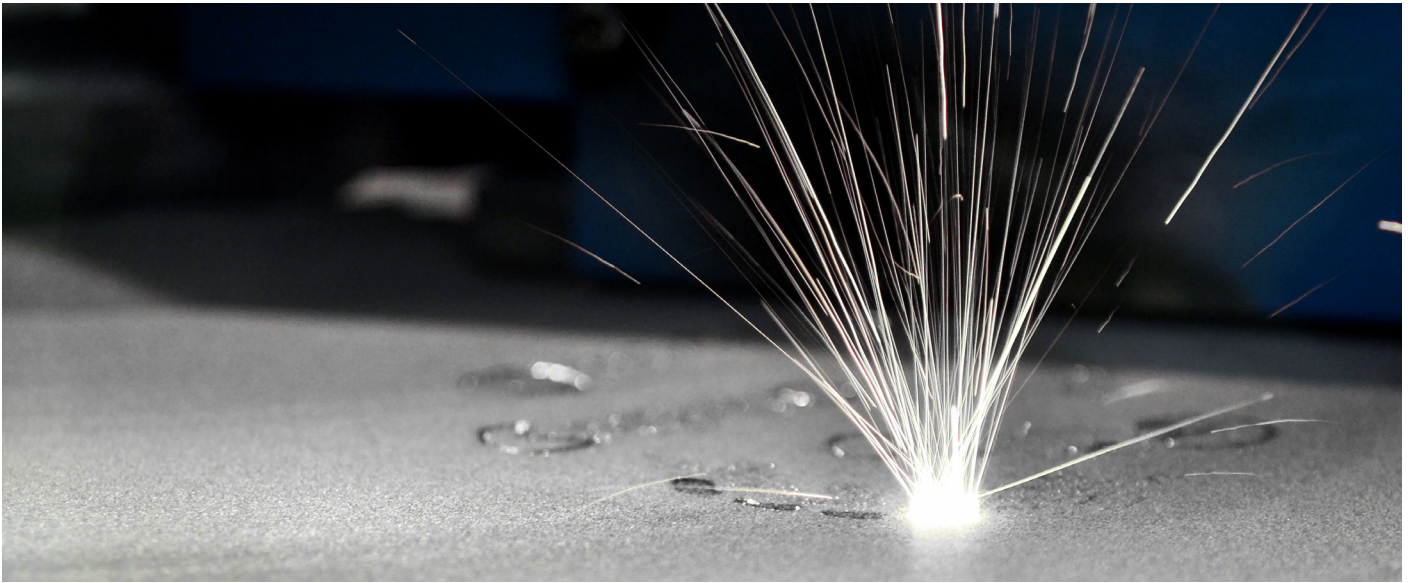


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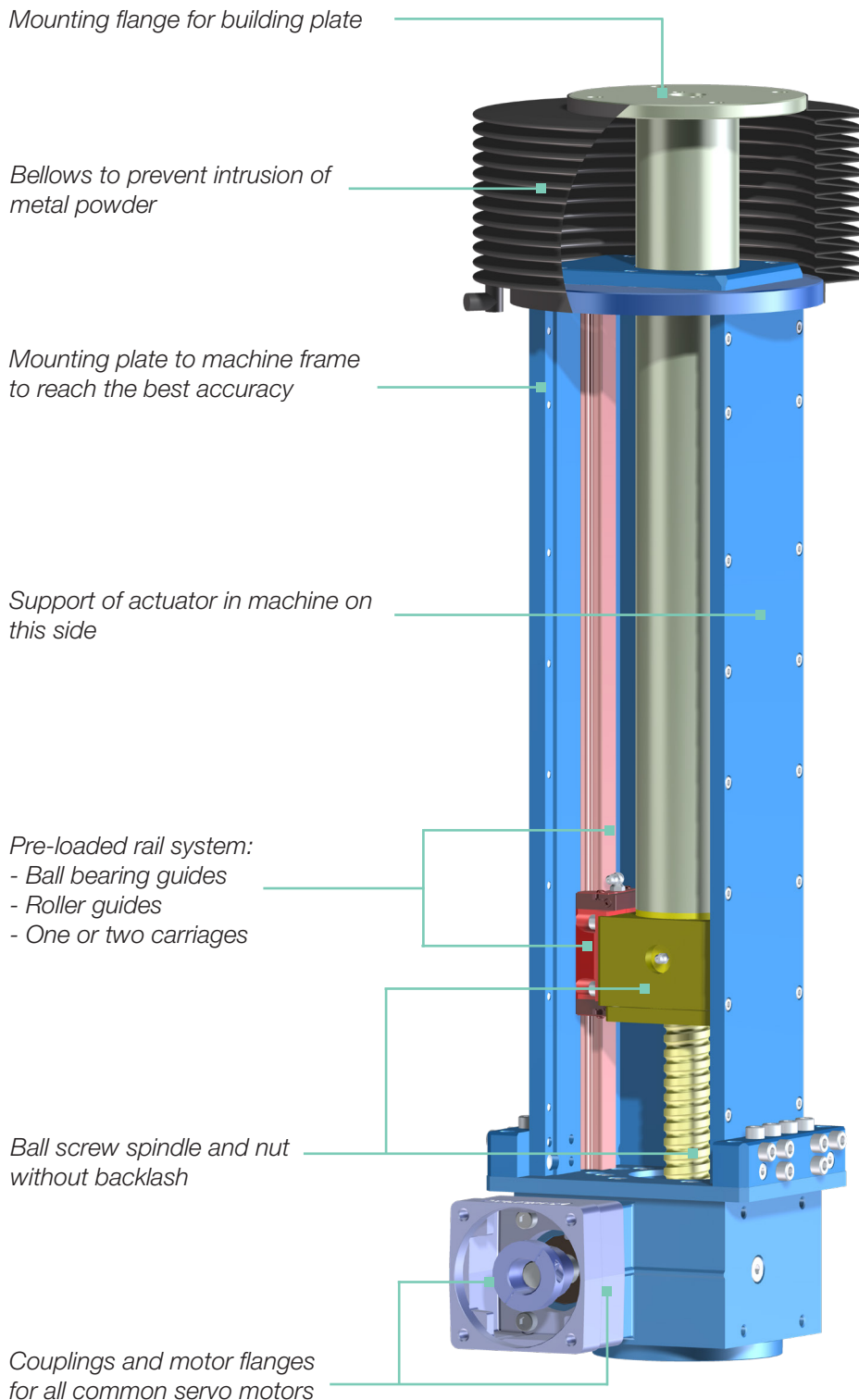


Linear Actuators
for Additive Manufacturing



Actuator with Integrated Rail System

Highest precision, defined stiffness by different carriages



Technical Data:

Max. axial force: 25 kN
Other forces upon request

Working stroke: max. 1000mm
Longer strokes upon request

Accuracy for 350mm stroke:
Diagonal movement max. 0.04mm
Turning movement max. 0.01mm
Concentricity accuracy max. \varnothing 0.08mm

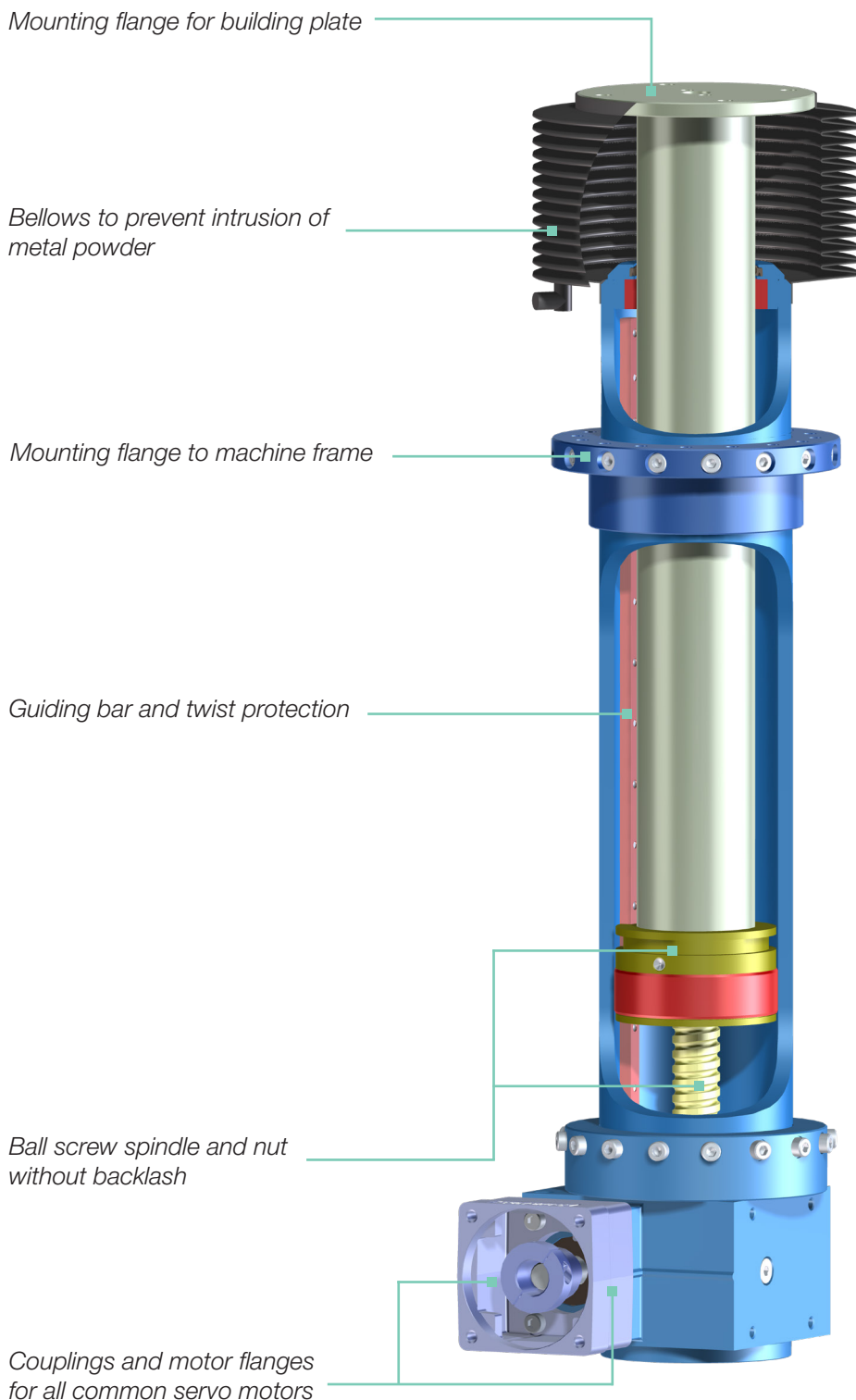
(Accuracy valid for equal load distributon)

Size: **HS25**

Other sizes upon request

Actuator with High Positioning Accuracy

No additional guiding needed



Technical Data:

Max. axial force: 25 kN
Other forces upon request

Working stroke: max. 500mm

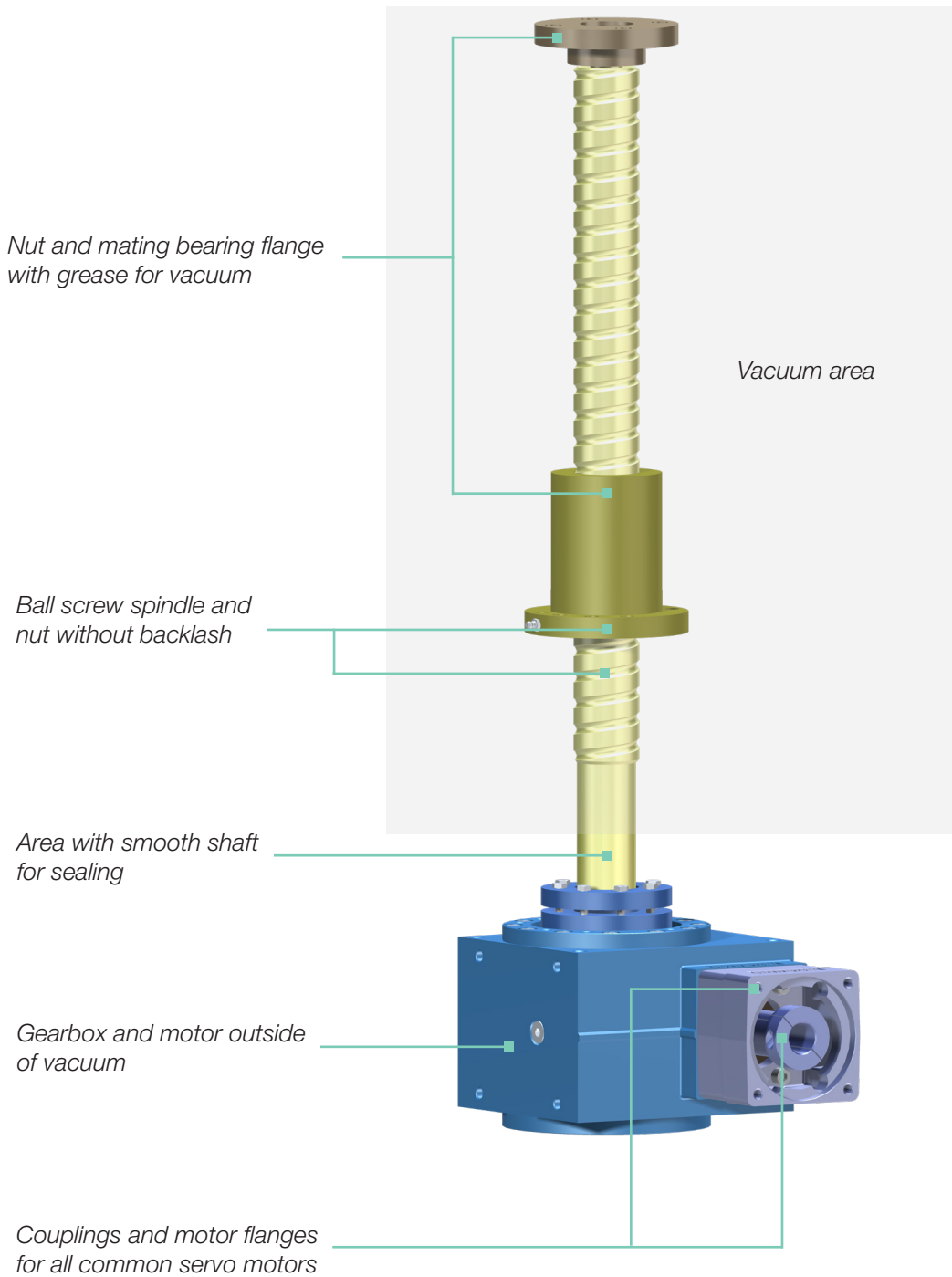
Accuracy for 350mm stroke:
Diagonal movement max. 0.2mm
Turning movement max. 0.2mm
Concentricity accuracy max. \varnothing 0.5mm

(Accuracy valid for equal load distribution)

Size: **HS25**
Other sizes upon request

Actuator with Rotating Spindle

Partially mounted in vacuum area, additional guiding needed



Sizes: **HS10, HS25, HS50 and HS100**

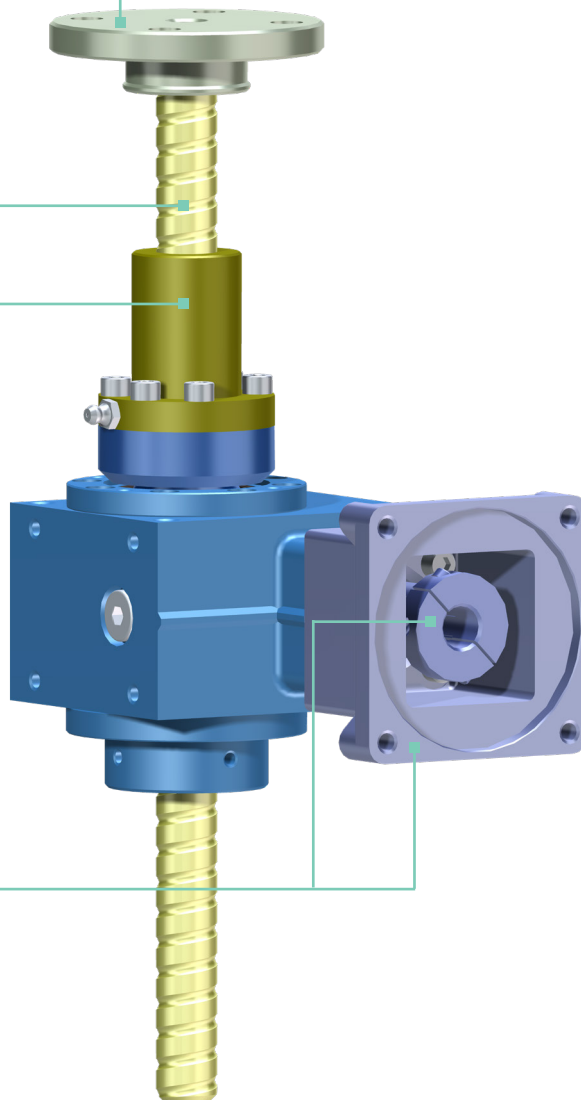
Actuator with Non-Rotating Spindle

Additional guiding needed

Fixing flange with reduced axial runout

Ball screw spindle and nut without backlash

Couplings and motor flanges for all common servo motors



Sizes: **HS10, HS25, HS50 and HS100**



General Data

Self-locking quality	No
Max. duty cycle (depending on load and cycle)	up to 100 % ¹⁾
Ratio of gearbox	3.0, 6.75 and 29
Motors	3-phase AC- and servomotors
Brake required	Yes

Gearbox		HS 10		HS 25	
Non-rotating spindle					
Ball screw drive		20x10	20x20	32x10	32x20
Max. load during travel	[kN]	9	5	25	25 ²⁾
Max. static load	[kN]	9	9	35	25
Max. input speed	[min ⁻¹]	5000		5000	
Max. traveling speed	[mm/s]	275	555	275	555
Dyn. load capacity C	[kN]	11.9	11.9	36.6	27.5
Rotating Spindle					
Ball screw drive		32x10	32x20	40x10	40x20
Max. load during travel	[kN]	10	5	25	25 ²⁾
Max. static load	[kN]	18	18	45	45
Max. input speed	[min ⁻¹]	5000		5000	
Max. traveling speed	[mm/s]	275	555	275	555
Dyn. load capacity C	[kN]	36.6	27.5	92.6	75.2
Lifting Cylinder					
Ball screw drive		25x10	25x20	40x10	40x20
Max. load during traveling	[kN]	10	5	25	25 ²⁾
Max. static load	[kN]	18	13	45	45
Max. input speed	[min ⁻¹]	5000		5000	
Max. traveling speed	[mm/s]	275	555	275	555
Dyn. load capacity C	[kN]	19.8	14.9	64.7	75.2
Gearbox		HS 50		HS 100	
Non-Rotating Spindle					
Ball screw drive		40x10	40x20	50x20	
Max. load during traveling	[kN]	50	50 ³⁾	100 ⁴⁾	
Max. static load	[kN]	90	65	160	
Max. input speed	[min ⁻¹]	4000		3000	
Max. traveling speed	[mm/s]	220	440	330	
Dyn. load capacity C	[kN]	92.6	75.2	195	
Rotating Spindle					
Ball screw drive		50x20	63x20	63x20	80x20
Max. load during traveling	[kN]	50 ³⁾	50 ³⁾	100 ⁴⁾	100 ⁴⁾
Max. static load	[kN]	90	90	180	180
Max. input speed	[min ⁻¹]	4000		3000	
Max. traveling speed	[mm/s]	440	440	330	330
Dyn. load capacity C	[kN]	160	248	248	359
Lifting Cylinder					
Ball screw drive		50x20		63x20	80x20
Max. load during traveling	[kN]	50 ³⁾		100 ⁴⁾	100 ⁴⁾
Max. static load	[kN]	90		180	180
Max. input speed	[min ⁻¹]	4000		3000	
Max. traveling speed	[mm/s]	440		330	330
Dyn. load capacity C	[kN]	160		248	359

¹⁾ Duty cycles over 50% upon request.

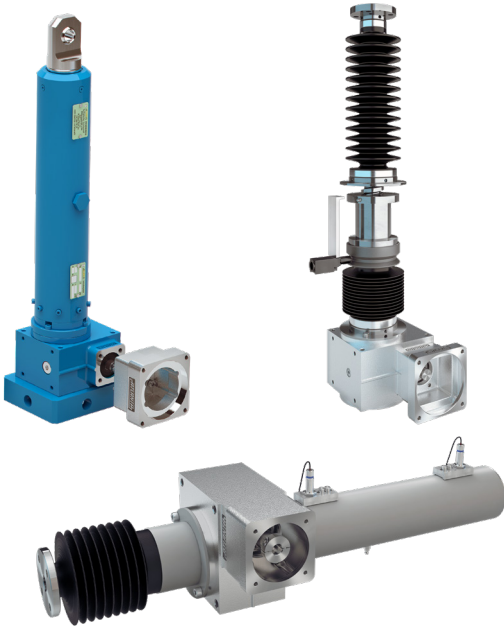
²⁾ For i=3 F_{max} = 15kN

³⁾ For i=3 F_{max} = 30kN

⁴⁾ For i=3 F_{max} = 80kN

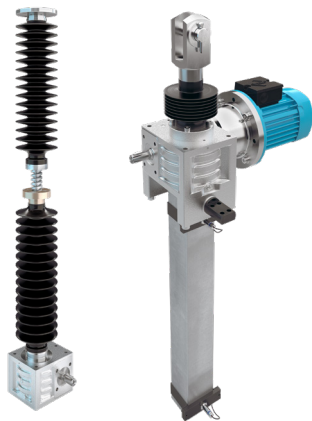
ATLANTA Linear Actuators Overview

HS - High Performance Screw Jack Gearbox



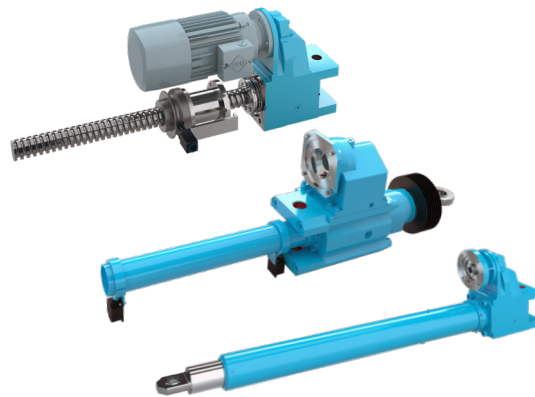
- Sizes: HS10, HS25, HS50 and HS100
- Load capacity: 5 to 100 kN
- Travelling speed: up to 550mm/s
- Design with ball-screw spindle drive
 - Rotating spindle
 - Non-rotating spindle
 - Lifting cylinder

TS - Standard Screw Jack Gearbox

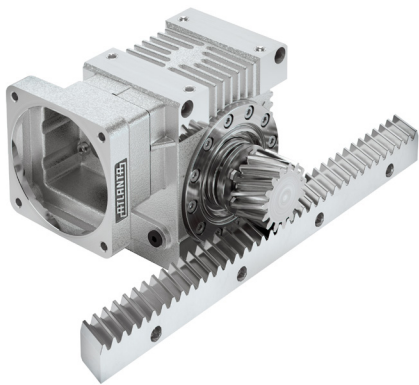


- Sizes: TS2, TS5, TS10, TS25, TS50 and TS100
- Load capacity: 2 to 100 kN
- Travelling speed: up to 25mm/s
- Design with trapezoidal spindle drive:
 - Rotating spindle
 - Non-rotating spindle

EH - High Thrust Linear Actuator



- Sizes: EH4 and EH8
- Load capacity: 30 to 160 kN
- Travelling speed:
 - Trapezoidal spindle drive: up to 83mm/s
 - Ballscrew spindle drive: up to 230mm/s
- Design with trapezoidal spindle drive:
 - Non-rotating spindle
- Design with ball screw spindle drive:
 - Rotating spindle
 - Lifting cylinder



Servo Drive Systems

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