

Actuator system "LIMAline" for adjustable façade slats

*Aesthetics
meets
technology*



"LIMAline 60" slat actuator system

The slat actuator system for maximum architectural freedom

"LIMAline" from elero makes top technology invisible in the façade architecture. Inconspicuously installed in the fixed structure, the "LIMAline" system guarantees an optimum slat movement.



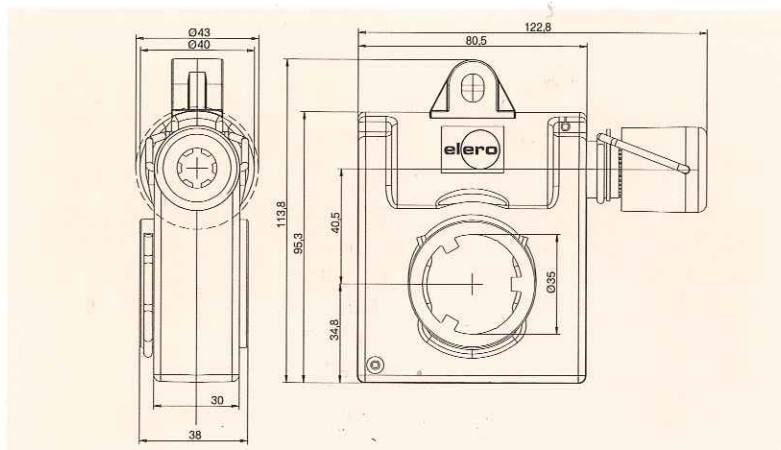
The facts

- Operates vertically and horizontally façade slats of different materials, e.g. glass, aluminium, stainless steel or photovoltaic elements
- Shading, darkening, light deflection and sun position tracking are possible
- Virtually unlimited control of daylight is possible. Important for glare-free computer workstations and conference rooms
- Rotary movements of up to 360° allow for many design possibilities on the façade. Example: slats with different front and rear sides
- Different positions, sizes and axis distances of individual slats can be realized within a slat field

The technology

- Fits into fixed structures from 50 mm width (LIMAline 60)
- All the actuator components are maintenance-free and corrosion resistant
- Temperature-dependent linear expansions are compensated
- Installation and manufacturing tolerances do not affect the function
- Each individual slat is readjustable
- Guarantees precise, clearance-free rotary movements
- Wind load, slat weight and dynamic loads are to a great extent absorbed by the fixed structure
- Can be integrated in building management systems

"LIMAline 60" slat actuator system



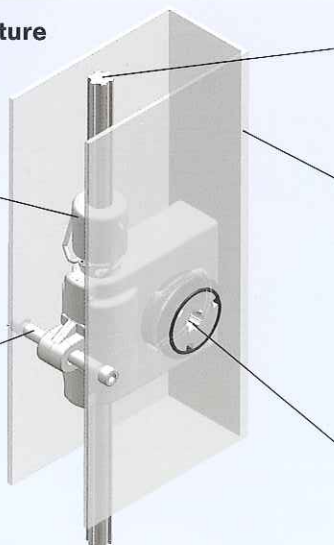
LIMAline in the fixed structure

Carrier

- for transmitting the output torque
- for readjusting the slat shaft
- for compensating linear expansions

Torque absorber, supplied by the customer

- and additional structure stiffening



Continuous profile shaft

- for transmitting the output torque
- stainless material

Fixed structure, supplied by the customer

- with radial and axial bearing, supplied by the customer (2 flange sleeves)
- The robust bearings absorb all the wind loads, slat weights and dynamic loads. Therefore, only the output torque acts on LIMAline.

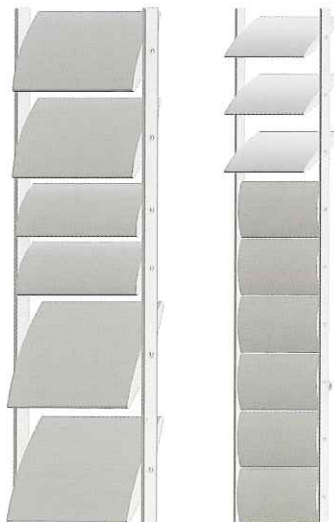
Profile bush

- for a form-locking connection of the slat shafts on both sides

Application examples

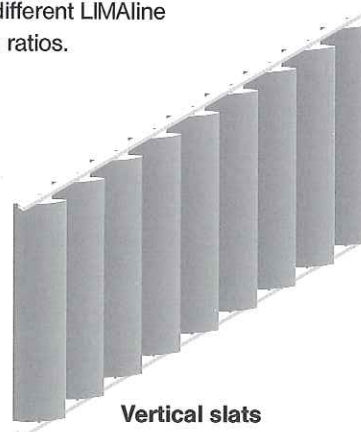
Horizontal slats

Different slat axis distances can be realized in one actuator line because of the continuous drive profile shaft.



Horizontal slats

Different slat positions can be realized in one actuator line because of different LIMAline transmission ratios.



Vertical slats

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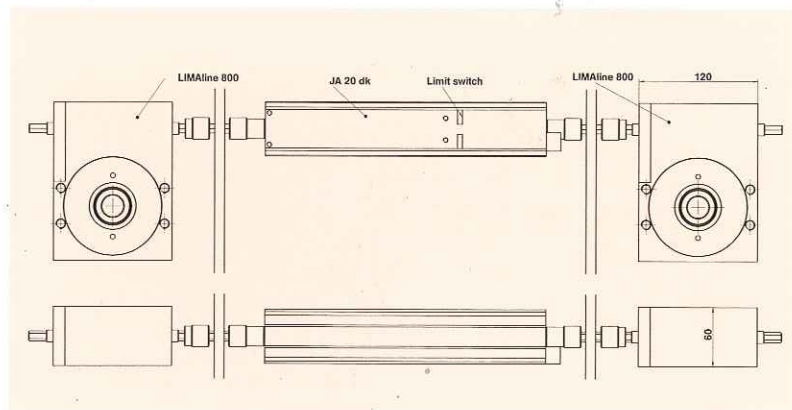
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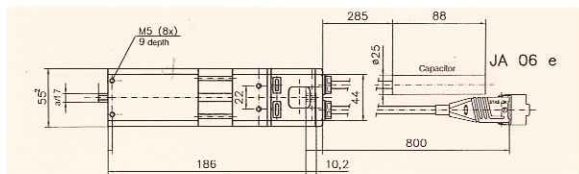
"JA" drives

The optimum drive for the optimum actuator system

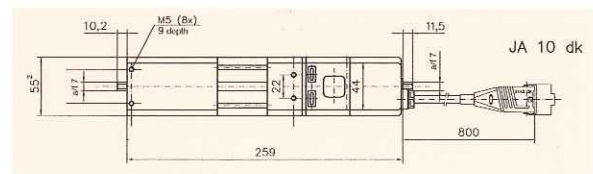
Thanks to its design and its dimensions, the "JA" drive from elero is the ideal drive solution for LIMAline systems in the fixed structure supplied by the customer.



























Dimensions of the JA drives



Single output operation for right hand installation



Double output operation

Type	JA 06 e	JA 03 dk	JA 04 dk	JA 06 dk	JA 10 dk	JA 20 dk
Torque in Nm	6	3	4	6	10	20
Limit switch range in turns	85	85	85	85	85	85
Revolutions per min	26	26	26	26	26	26
Power in W	100	100	100	100	120	190
Current consumption in A	0.45	0.45	0.45	0.45	0.53	1.05
Tension in V	230	230	230	230	230	230
Frequency in Hz	50	50	50	50	50	50
Motor rating in min – intermittent	6	6	6	6	6	4
Insulation class	F	F	F	F	F	F
Capacitor	external	internal	internal	internal	internal	internal
Cable length with plug Stas 3 in m	0.8	0.8	0.8	0.8	0.8	0.8
Cable cross section in mm ²	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75	4 x 0.75
Max. ambient temperature	-20 °C – +60 °C					
Protection type splashproof						
VDE, EMC label						
VDE label						
CE label						

elero – your competent partner for façade solutions

Mobile façades with elero

Lots of perfectly satisfied customers – whether architects, façade constructors or contractors – are the best proof that elero is the ideal partner for modern façade architecture. Extraordinary architecture demands extraordinary solutions in terms of actuator technology: We would be happy to advise you on your projects.



You supply the aesthetics, we supply the technology!



RWA
tested

elero GmbH · Linearantriebstechnik

Nassaeckerstrasse 11

D-07381 Poessneck

Phone +49 (0) 36 47/ 46 07- 0

Fax Reception +49 (0) 36 47/ 46 07- 40

Fax Purchasing department - 41 / Sales department - 42

Head office:

Linsenhofer Strasse 59-63

D-72660 Beuren

Phone +49 (0) 70 25/ 13-01

Fax Reception +49 (0) 70 25/ 13-212

info@elero-linear.de

<http://www.elero-linear.com>