



DOUBLE SUPPORT PNEUMATIC EXPANDING SHAFTS

THE POWER OF PNEUMATIC TECHNOLOGY

Our pneumatic expanding shafts deliver exceptional torque transmission, making them the ideal choice for roll rewinding and roll unwinding in packaging applications. With a cutting-edge design, these shafts serve as reliable drive shafts, ensuring smooth and efficient operations.

Expansion is achieved through a sophisticated system of inflatable chambers strategically positioned beneath each row of expanders, guaranteeing precise control and consistent performance throughout the process.

DURABLE MATERIALS FOR EXPANDING SHAFTS

Our expandable shafts feature a robust construction designed to meet your specific requirements. The shaft body is available in standard diameters, offering a compelling quality-price ratio with aluminum alloy extrusion. Additionally, upon request, we provide a wide range of steel options for the shaft body, allowing for tailored solutions.

The journal ends of our shafts are crafted from AISI 304 steel as a standard material, ensuring strength and reliability. However, we also offer various steel options to accommodate individual needs. The use of aluminum extrusion provides exceptional rigidity, comparable to AISI 304 steel's modulus of elasticity, enabling the construction of highly rigid airshafts.



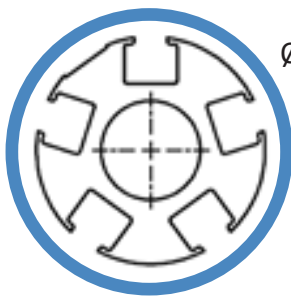
info@ejematic.com



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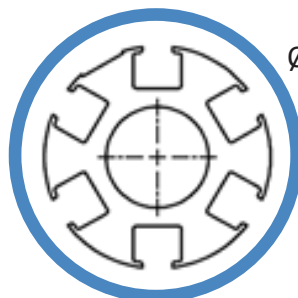


STANDARD CORE SIZE:



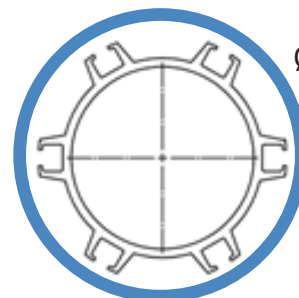
Ø 69 mm

Expansion range:
Ø 69 to Ø78mm



Ø 75 mm

Expansion range:
Ø 75 to Ø78mm

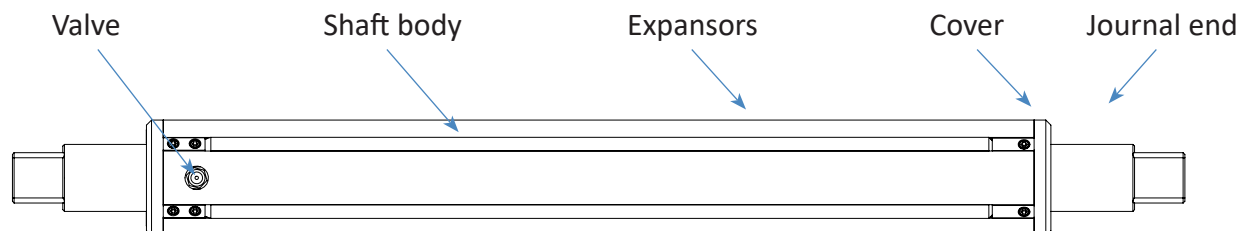


Ø 150 mm

Expansion range:
Ø 148 to Ø152mm

Special body size upon request: from Ø 25 mm to Ø 300 mm

AIR SHAFT MAIN PARTS:



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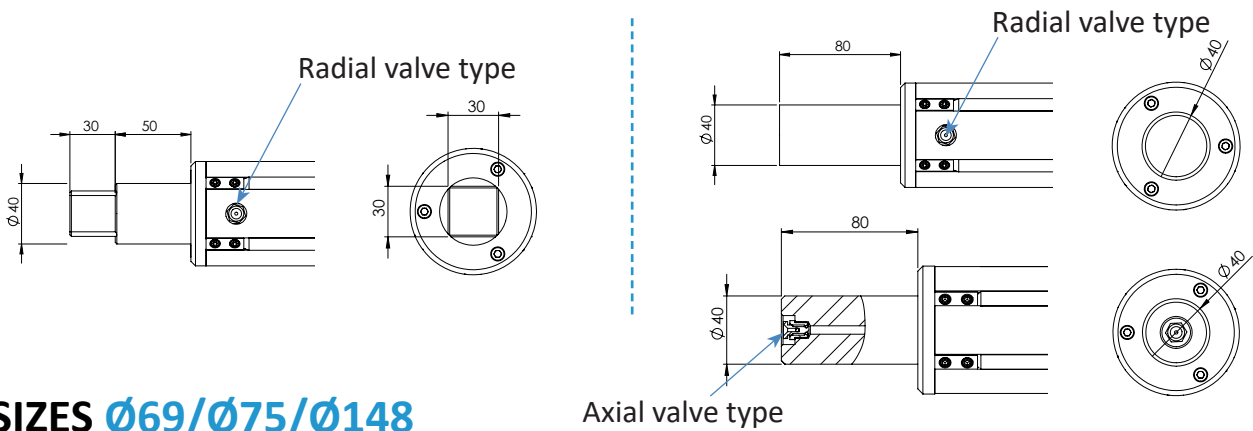
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VALVE POSITION & STANDARD JOURNAL END:

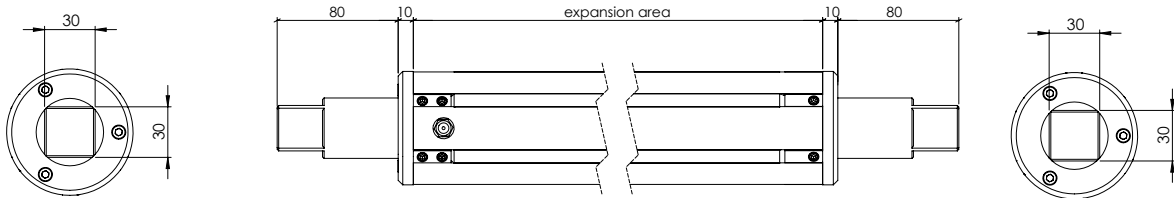
SQUARE SHAPE: 30mm side
Valve position options: Radial

CIRCULAR SHAPE: \varnothing 40 mm
Valve position options: Radial or axial

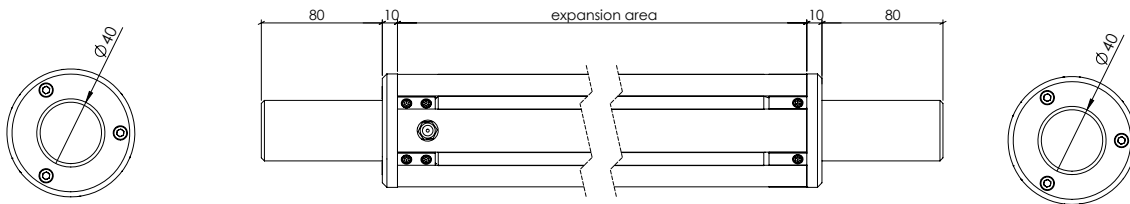


SIZES \varnothing 69/ \varnothing 75/ \varnothing 148

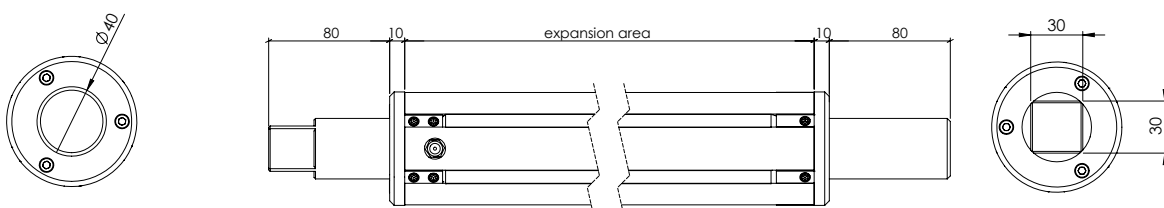
DOUBLE SQUARE SHAPE: 30 mm side



DOUBLE CIRCULAR SHAPE: \varnothing 40 mm



SQUARE 30mm side + CIRCULAR SHAPE: \varnothing 40 mm



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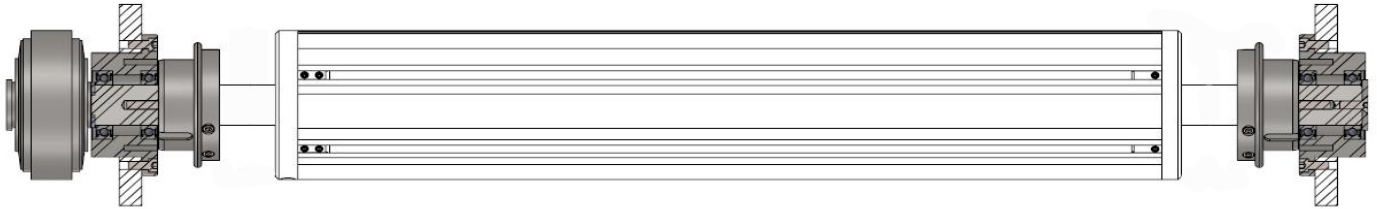
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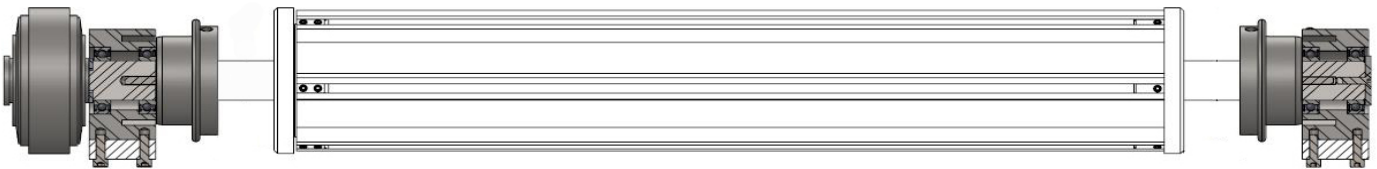
ASSEMBLY TO MACHINE:

Ejematic offers flange mounted and foot mounted safety chucks and also offers rolling supports to cover all airshaft assembly to machine typologies.

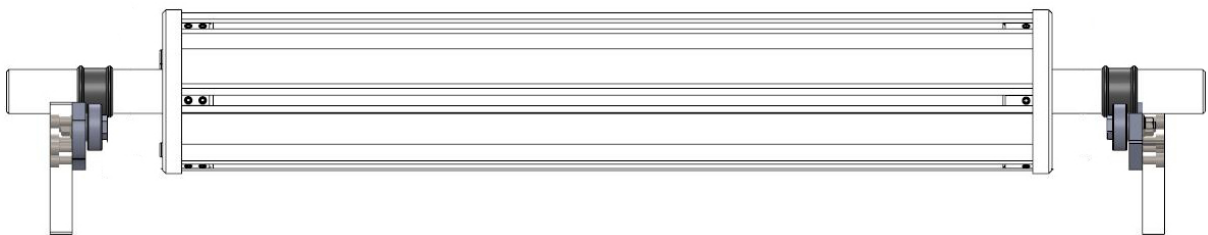
SAFETY CHUCK **FLANGE MOUNTED**



SAFETY CHUCK **FOOT MOUNTED**



ROLLING **SUPPORT**



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TECHNICAL INFORMATION:

Core size \varnothing		[mm]	69	75	148
Expanding range with short expanders \varnothing		[mm]	73	79	152
Expanding range with long expanders \varnothing		[mm]	78	84	157
Number of expanders		[N/lin m]	5	6	6
Gripping radial force (6bar)			42000	50400	50400
Gripping torque transmission with cardboard cores		[N*m/lin m]			
Gripping torque transmission with steel cores	Rubber expanders 0,4		630	756	816
	Nylon expanders 0,35		551	662	714
	Aluminium expanders 0,35		551	662	714
Gripping torque transmission with steel cores		[N*m/lin m]			
	Rubber expanders 0,4		1103	1323	1429
	Nylon expanders 0,35		394	473	970
	Aluminium expanders 0,35		394	473	970
Air expanding shaft weight (without journal ends nor covers)		[kg/lin m]	5,68	5,36	6,41
Recommended inflation pressure		[bar]	6	6	6





ORDER CHECKBOX:

ASSEMBLY TO MACHINE

Double support air shaft

- | | | | | | |
|--|--|--|--|---|----------------------------------|
| <input type="checkbox"/> Safety chuck flange mounted (square journal ends) | <input type="checkbox"/> Safety chuck foot mounted (square journal ends) | <input type="checkbox"/> Safety chuck flange mounted + rolling suport (square + circular journal ends) | <input type="checkbox"/> Safety chuck foot mounted + rolling suport (square + circular journal ends) | <input type="checkbox"/> Rolling supports (double circular) | <input type="checkbox"/> Special |
|--|--|--|--|---|----------------------------------|

CORE DIAMETER AND NUMBER OF EXPANSORS

- | | | | | |
|---|--------------------------------------|---|--|----------------------------------|
| <input type="checkbox"/> 5 expandors $\varnothing 69$ | <input type="checkbox"/> 6 expandors | <input type="checkbox"/> 6 expandors $\varnothing 75$ | <input type="checkbox"/> 6 expandors $\varnothing 150$ | <input type="checkbox"/> Special |
|---|--------------------------------------|---|--|----------------------------------|

JOURNAL ENDS AND VALVE POSITION

Double Square

- Axial valve

Double Circular

- Axial valve Radial

Square + Circular

- Circular axial valve Square radial valve
 Circular radial valve

CONTROL TENSION BRAKES

- | | | | | |
|--|-------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> Powder Brake | <input type="checkbox"/> 6N/m | <input type="checkbox"/> 12N/m | <input type="checkbox"/> 25N/m | <input type="checkbox"/> 50N/m |
| <input type="checkbox"/> Mecanical Brake (Axial Adjustable) | <input type="checkbox"/> 2N/m | <input type="checkbox"/> 6N/m | <input type="checkbox"/> 12N/m | |
| <input type="checkbox"/> Mecanical Brake (Radial Adjustable) | <input type="checkbox"/> 2N/m | <input type="checkbox"/> 6N/m | <input type="checkbox"/> 12N/m | |

EXPANSORS

- | | | | |
|------------------------|--|--|----------------------------------|
| Expandors | <input type="checkbox"/> Lineal | <input type="checkbox"/> Section | |
| Materials | <input type="checkbox"/> Rubber | <input type="checkbox"/> Aluminum | <input type="checkbox"/> Special |
| Expansion range | <input type="checkbox"/> + \varnothing 4mm | <input type="checkbox"/> + \varnothing 9mm | <input type="checkbox"/> Special |

CONSTRUCTION MATERIALS

- | | | | |
|----------------------|---|-----------------------------------|----------------------------------|
| Journal end | <input type="checkbox"/> Steel | <input type="checkbox"/> AISI 304 | <input type="checkbox"/> Special |
| Core | <input type="checkbox"/> Aluminum alloy extrusion | <input type="checkbox"/> Steel | <input type="checkbox"/> Special |
| Safety chucks | <input type="checkbox"/> Steel | <input type="checkbox"/> AISI 304 | <input type="checkbox"/> Special |

