

CANTILEVER PNEUMATIC EXPANDING SHAFTS:

HARNESSING 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 CONSTRUCTION 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.

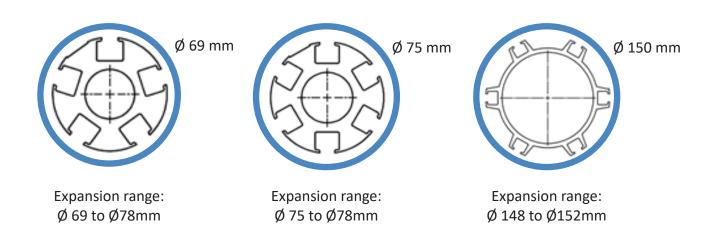








STANDARD CORE SIZE:



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

AIR SHAFT MAIN PARTS:



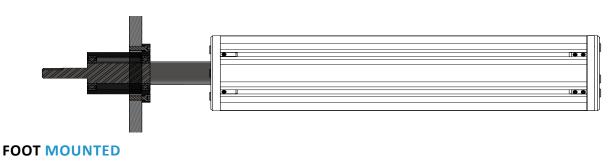


TECHNICAL INFORMATION:

Core size Ø		[mm]	ϵ	59	75	148
Expanding range with short expansors Ø		[mm]	7	73	79	152
Expanding range with long expansors $ ot\!\!/$		[mm]	7	78	84	157
Number of expansors		[N/lin m]	5	6	6	6
Grapping radial forc e (6bar)			42000	50400	50400	50400
Gripping torque transmition with cardboard cores		[N*m/lin m]				
	Rubber expansors 0,4		630	756	816	1552
	Nylon expansors 0,35		551	662	714	1358
	Aluminium expansors 0,35		551	662	714	1358
Grapping torque transmision with steel cores		[N*m/lin m]				
	Rubber expansors 0,4		1103	1323	1429	2717
	Nylon expansors 0,35		394	473	970	970
	Aluminium expansors 0,35		394	473	970	970
Air expanding shaft weight (without jornal ends nor covers)		[kg/lin m]	5,68	5,36	6,41	7,54
Recommended inflation pressure		[bar]	6	6	6	6

ASSEMBLY TO MACHINE:

FLANGE MOUNTED





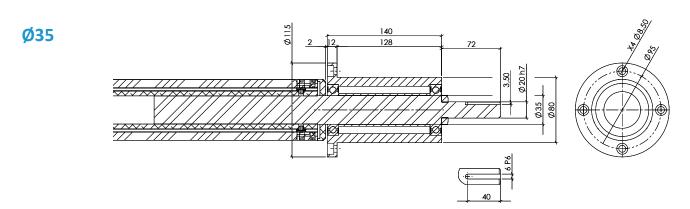






STANDARD FLANGE BUSHINGS Ø69 / Ø75:

The standard flange bushings, designed for core sizes $\emptyset69$ / $\emptyset75$ airshafts, provide a reliable anchoring solution for airshafts installed in machinery with vertical bench walls. These bushings undergo meticulous machining processes, ensuring superior rigidity and concentricity performance. By maximizing contact with the vertical bench wall, the large flange surface delivers optimal stability and precise alignment.



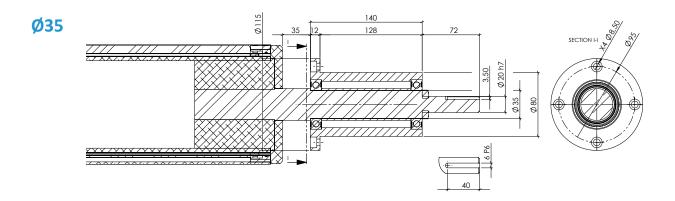
Ø45

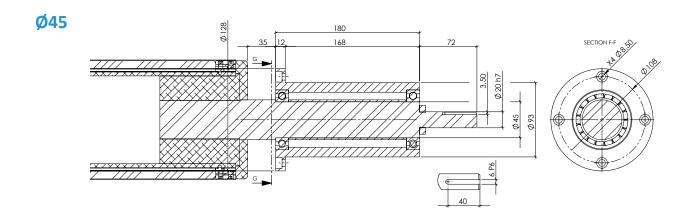




STANDARD FLANGE BUSHINGS Ø148:

The standard flange bushings, designed for core sizes $\emptyset69$ / $\emptyset75$ airshafts, provide a reliable anchoring solution for airshafts installed in machinery with vertical bench walls. These bushings undergo meticulous machining processes, ensuring superior rigidity and concentricity performance. By maximizing contact with the vertical bench wall, the large flange surface delivers optimal stability and precise alignment.



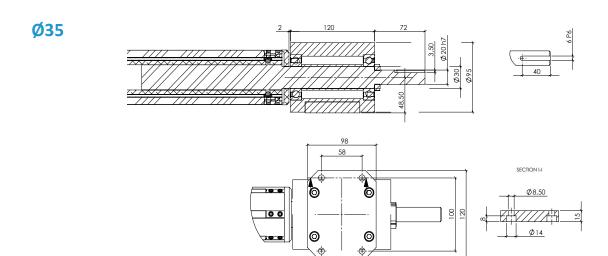


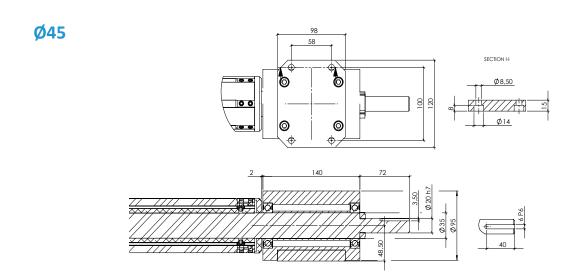




STANDARD FOOT BUSHINGS Ø69/Ø75:

Our standard foot bushing for Airshaft \emptyset 69/ \emptyset 75 provide a reliable anchoring solution for cantilever airshafts in machinery with horizontal bench. This two-part foot bushing assembly has been meticulously designed and manufactured to ensure optimal rigidity and concentricity performance.

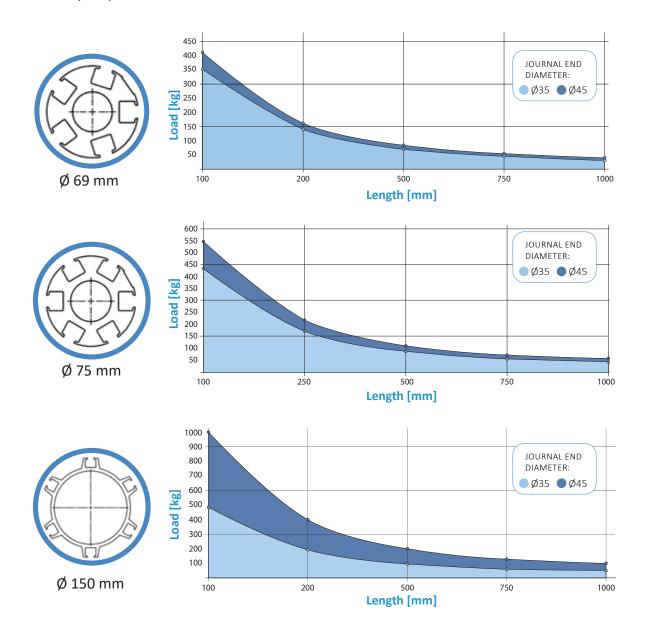






EXPANDABLE SHAFT SELECTION TABLE:

The expanding shaft selection table is a comprehensive overview of parameters to consider when selecting the appropriate expanding shaft for a specific application. It includes key factors such as roll weight, roll length, and other relevant specifications. The table is a valuable tool for ensuring the correct and optimal functioning of the expanding shaft in machinery. For precise recommendations, it is advisable to consult the technical team.







ORDER CHECKBOX:

ASSEMBLY TO MACHINE									
Cantilever Airshaft □ Flange mounted bushings for Ø35 journal end □ Flange mounted bushings for Ø45 journal end □ Foot mounted bushings for Ø45 journal end □ Foot mounted bushings for Ø45 journal end									
CORE DIAMETER AND NUMBER OF EXPANSORS									
Ø69 □ 5 expansors [☐ 6 expansors	Ø75 □ 6 expansors		Ø150 □ 6 expansors	□Special				
VALVE POSITION									
	Journal end ☐ Back air inlet		Covers ☐ Frontal air inlet						
CONTROL TENSION BRAKES									
☐ Powder Brake	□ 6	6N/m □ 12N/m	□ 25N/m	□ 50N/m					
☐ Mecanical Brake (Axial A	Adjustable) 🗆 2	2N/m □ 6N/m	□ 12N/m						
☐ Mecanical Brake (Radial	Adjustable) \square 2	2N/m □ 6N/m	□ 12N/m						
EXPANSORS									
Expansors	☐ Lineal		☐ Section						
Materials	□ Rubber		☐ Aluminum		☐ Special				
Expansion range	□ + Ø 4mm		□ + Ø 9mm		☐ Special				
CONSTRUCTION MATERIALS									
Journal end	□ Steel		☐ AISI 304		☐ Special				
Core	☐ Aluminum all	loy extrusion	□ Steel		☐ Special				
Covers	☐ Aluminum		☐ AISI 304		☐ Special				
Bushings	☐ Steel		☐ AISI 304		☐ Special				

