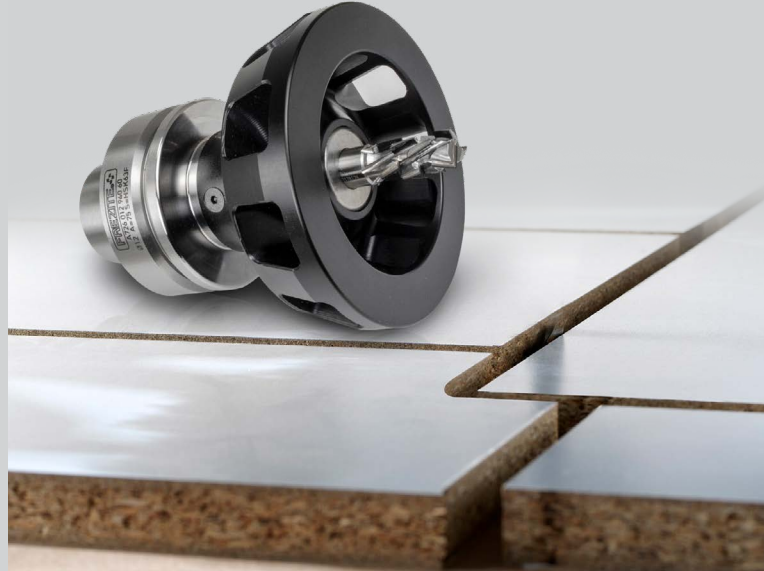


Tornado

Extraction system for milling operations

Effective removal from cutting chips

FREZITE developed an efficient cutting chips suction system for machining operations on CNC machines. This innovative vacuum system promotes fast removal of cutting chips resultant from milling, profiling and nesting operations. The use of this system ensures superior cleaning and increase the air quality, promoting health in workplace. It assures excellent chip flow, providing increased tool life.



TECHNICAL INFORMATION

- Body with high strength coating to prevent corrosion and reduce friction between the cutting chips, improving the chip flow.
- Safety seal ring to prevent the dust entry into the collet and collet nut.
- Available in three construction systems with different compromises between flexibility of use and stability.
- Possibility to adjust for different cutting heights.

APPLICATION

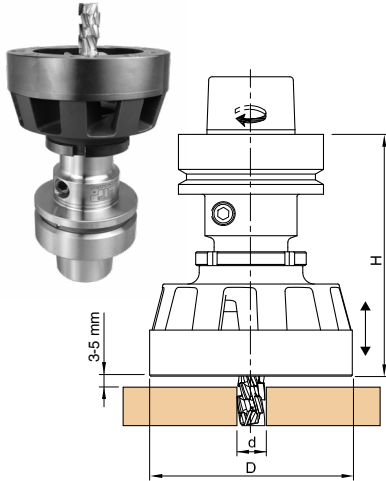
- Milling, profiling and nesting operations on CNC machines for cutting of chipboard, MDF – coated and uncoated –, Corian®, OSB (Oriented Strand Board) and HPL (High Pressure Laminate), etc.

ADVANTAGES



- Best performance.
- Lower cutting chips accumulation in the cutting area.
- Less tool wear, increasing the working life of the tool.
- Reduce the temperature in tool and cutting area.
- Prevents the dust entry into the collet and collet nut.
- Less equipment wear.
- Reduces cleaning time and operating costs.
- Work environment cleaner and healthier.

Machine Interface	HSK 63F / ISO 30 / SK 30
Tool Interface	Ø6 – Ø20 mm
Rotation	24.000 RPM máx. for HSK 63F 20.000 RPM máx. for ISO 30 and SK 30
Balancing	G2.5 (25.000 RPM)

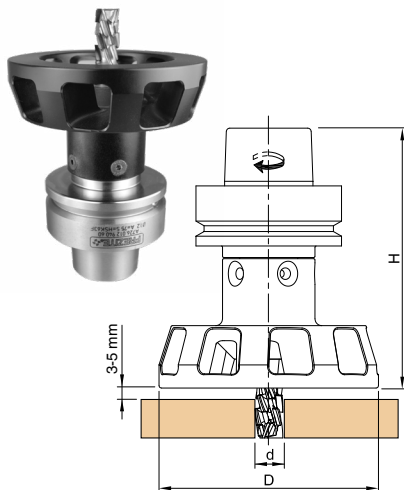


TORNADO Hidro system

- Hydrocentring clamping system
- Easy to use
- High machining stability

d	D	H	Ref.
12,0	95	110-120	A725.012.140.60
12,7	95	110-120	A725.912.140.60
19,05	95	120-130	A725.919.152.60

n max.: 24.000 rpm



TORNADO Shrink fit system

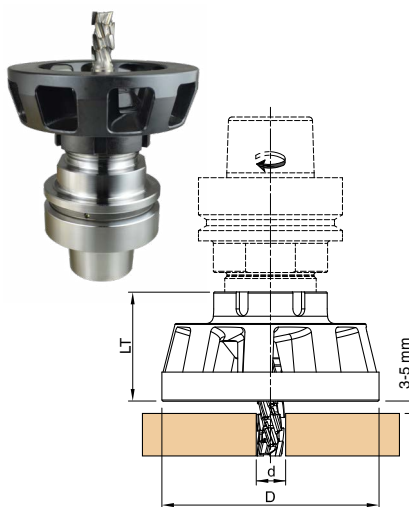
- Shrink fit system
- High machining stability

d	D	H	Ref.
12	95	87,5	A725.095.940.60

n max.: 24.000 rpm

Spare parts

	Dim.	Ref.
Suction turbine	Ø95x56xØ25	A725.095.156.25
Shrink fit chucks	HSK 63F S=Ø12	A726.012.940.60
Screw	M5x12	705.427.12



TORNADO Collet chuck system

- Collet chuck system
- Easy to use

d	D	LT	S	Ref.
6,0-20	95	40	ER32	A725.095.140.00 □

□ Safety seal ring, collet chuck, collet and clamping key not included

Spare parts

	d	Ref.
Safety Seal Ring	6,0	709.813.06
	8,0	709.813.08
	10,0	709.813.10
	12,0	709.813.12
	12,7	709.813.87
	16,0	709.813.16
	18,0	709.813.18
	20,0	709.813.20
Clamping Key		706.702

