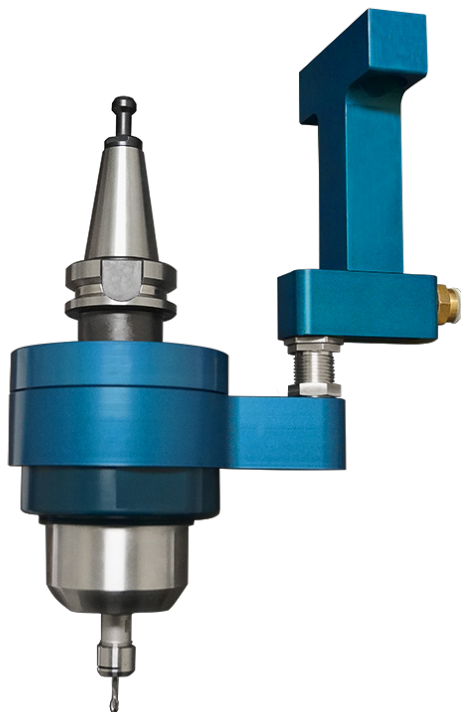


30,000 – 65,000 rpm – power to 0.76 hp (0.57 kW)
Constant Governed High Speed and Torque

The High Speed Option From Air Turbine Spindles®



602BT30
0.15 - 0.2 hp
0.11 - 0.15 kW



625XDIN30
0.72 - 0.76 hp
0.54 - 0.57 kW

*With patented governed
high speed and torque
Air Turbine Spindles®,
your FANUC Robodrill is a
high speed machine!*

No Duty Cycle

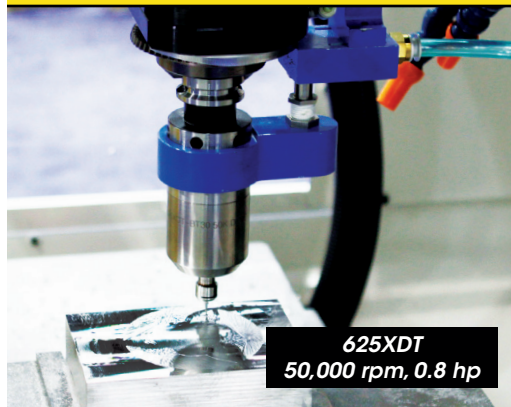
Call for a Demonstration

*Fully automated loading:
With our patent pending
Toolchanger Mounting
Assembly (TMA)*

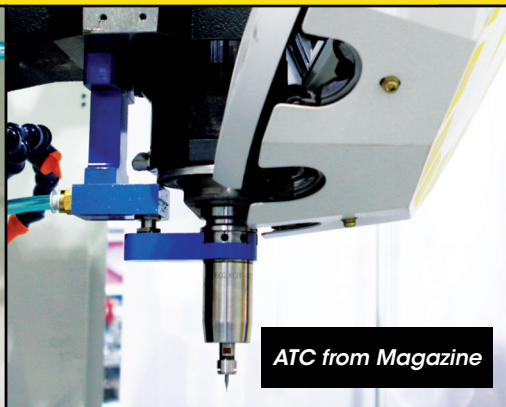
*HSK, CAT, BT, DIN available for any CNC
Manual Connection also Possible*

+1 561-994-0500 - airturbinetools.com

Optional Automatic Loading to Save Time and Money.



625XDT
50,000 rpm, 0.8 hp



ATC from Magazine



602DT
65,000 rpm, 0.2 hp



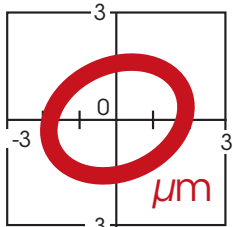
*Dramatically reduce your cycle times.
Optimize cutting tool performance and life.*

*Keep continuous tool path engagement on your existing CNC at high speed even in angles and hard material. Ideal for micro machining.
30,000 - 65,000 rpm < 0.76 hp (0.57 kW)*

Accuracy

Most of the problems that occur in micro machining come from a lack of RPM and poor dynamic runout. **Air Turbine Spindles®** use the highest quality runout and balancing systems on the market today. This creates the best dynamic runout accuracy and governed high speed precision.

Runout measured at the nose of spindle.
(reference value)



600 SERIES

Improved Machining Cycle Times

Better Surface Finish

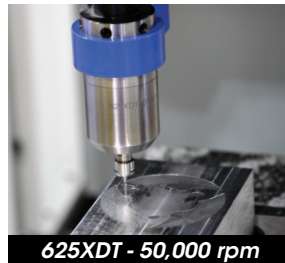
Longer Tool Life

Automatic Loading

Super Low Vibration Design

Powerful, totally oil-free low friction motor produces extremely low vibration and heat in continuous 24/7 operation. No thermal expansion, great reliability.

Ultra Precision ER 11 collets standard.



625XDT - 50,000 rpm

Environmentally Clean

No oil required and maintenance free.

Air Pressure:

Dry, Clean Air @ 90 psi (6.2 bar)

Air Consumption (Working):

602: 5 - 6 cfm (2.36 - 3.30 L/s)

625X: 22 - 30 cfm (10.38 - 14.16 L/s)

Low Noise Design: Under 78 dBA

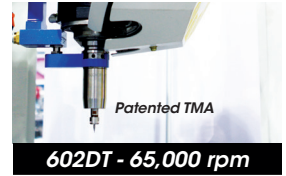
Standard Equipment: 0.3μm High Flow Filter/Extractor



Automatic Toolchanger

No need for operator downtime.

Automatically load **Air Turbine Spindles®** with our wrap around Toolchanger Mounting Assembly.



602DT - 65,000 rpm

Superior Technology

- Unique patented direct drive with no vanes, gears or brushes to wear or burn.
- No heat and no duty cycle- 24/7 operation.
- Governor keeps Constant High Speed + Torque on tool path in angles and corners.

Spindle Selection

√ = Optimum

∞ = Acceptable

! = Dependent upon cutting conditions

x = Not recommended for use

		602	625X
Drill	Ø 0.1 - 0.3mm	√	√
	Ø 0.3 - 0.5mm	∞	√
	Ø 0.5 - 1.0mm	!	√
	Ø 1.0 - 1.5mm	x	∞
	Ø 1.5 - 2.0mm	x	!
Endmill	Ø 0.1 - 1.0mm	√	√
	Ø 1.0 - 2.0mm	√	√
	Ø 2.0 - 3.5mm	!	√
	Ø 3.5 - 5.0mm	x	∞
	Ø 5.0 - 6.0mm	x	!
Jig Grinding		x	!
Specifications		602	625X
Governed Speed (rpm)		40,000 50,000 65,000	30,000 40,000 50,000 65,000
Power (hp)		0.15 - 0.20	0.72 - 0.76
T.I.R. at Nose		Less than 2μm	
Collet Range		0.5mm - 7mm	
Air Pressure		6.2 Bar (0.62 MPa)	
Air Flow		7 - 30 CFM (3.30 - 14.16 L/s) [ANR]	

air turbine spindles® for

**FANUC
ROBODRILL**

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