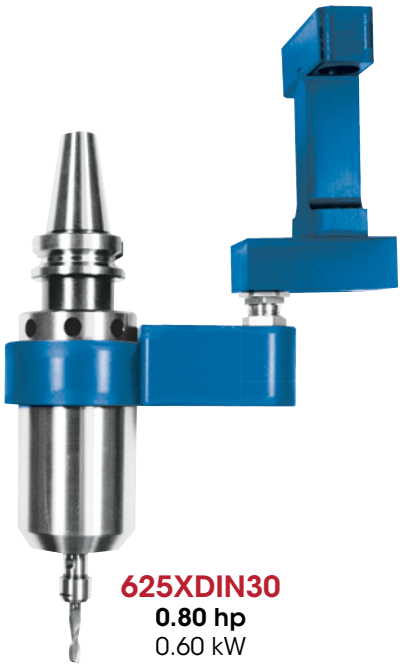
air turbine spindles® for FANUC ROBODRILL

30,000 – 65,000 rpm – power to 0.80 hp (0.60 kW)
Constant Governed High Speed and Torque

New High Speed Option with Air Turbine Spindles®

602XBT30
0.30 - 0.47 hp
0.22 - 0.34 kW



625XDIN30
0.80 hp
0.60 kW

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

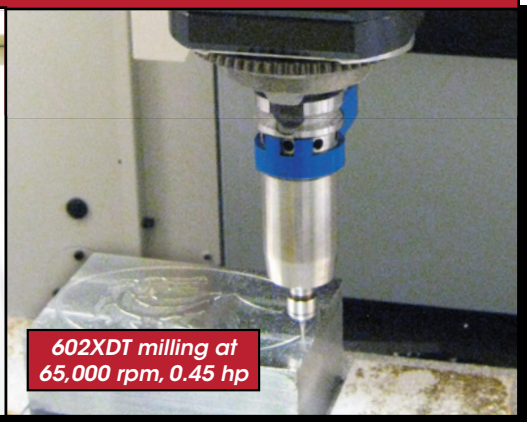
No Duty Cycle

Call for a Demonstration

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

CAT, BT, DIN, HSK available
Manual Connection also Possible

Manual or Automatic Loading to Save Time and Money.



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air turbine spindles®

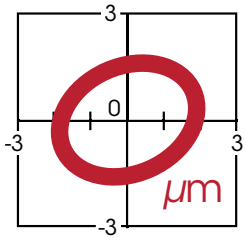
Dramatically reduce your cycle times, optimize cutting tool performance and life.

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 < 0.80 hp (0.60 kW)

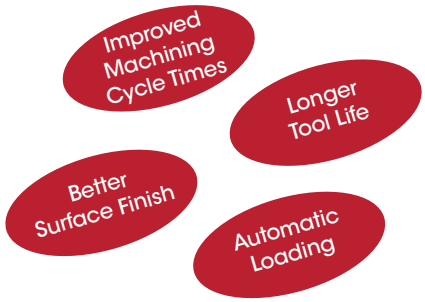
Accuracy

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. (refrence value)



600 SERIES



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):
602X: 7 - 10 cfm (3.30 - 4.27 L/s)
625X: 22 - 30 cfm (10.38 - 14.16 L/s)

Low Noise Design: Under 67 dBA

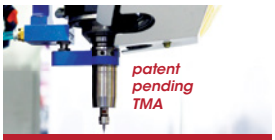
Standard Equipment: 0.3µm High Flow Filter/Extractor

602XDT & 625XDT

Automatic Toolchanger

No need for operator downtime.

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



602XDT - 65,000 rpm

Superior Technology

- Unique patented direct drive with no vanes, gears or brushes to wear, burn or break.
- Cooled by turbine air for 24/7 operation. No oil or control system required. No Duty Cycle.
- Governor keeps Constant High Speed + Torque on tool path in angles and corners.

Spindle Selection

√ = Optimum **! = Dependent upon cutting conditions**
∞ = Acceptable **× = Not recommended for use**

		602(X)	625(X)
Drill	Ø 0.1 - 0.3mm	√	√
	Ø 0.3 - 0.5mm	∞	√
	Ø 0.5 - 1.0mm	!	√
	Ø 1.0 - 1.5mm	×	∞
	Ø 1.5 - 2.0mm	×	!
Endmill	Ø 0.1 - 1.0mm	√	√
	Ø 1.0 - 2.0mm	√	√
	Ø 2.0 - 3.5mm	!	√
	Ø 3.5 - 5.0mm	×	∞
	Ø 5.0 - 6.0mm	×	!
Jig Grinding		×	!

Specifications	602X	625X
Governed Speed (rpm)	40,000 50,000 65,000	30, 000 40,000 50,000
Power (hp)	0.30 - 0.47	0.80
T.I.R. at Nose	Less than 2µm	
Collet Range	0.5mm - 6mm	
Air Pressure	Less than 6.2 Bar (0.62 MPa)	
Air Flow	7 - 30 CFM (3.30 - 14.16 L/s) [ANR]	

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