



air turbine spindles® for

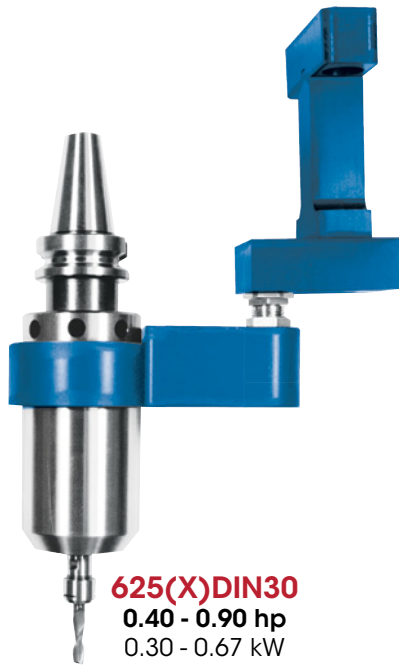
FANUC ROBODRILL

**30,000 – 75,000 rpm – power to 0.90 hp (0.67 kW)
Constant Governed High Speed and Torque**

Now your FANUC Robodrill delivers faster production 24/7



602(X)BT30
0.15 - 0.45 hp
0.11 - 0.34 kW



625(X)DIN30
0.40 - 0.90 hp
0.30 - 0.67 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

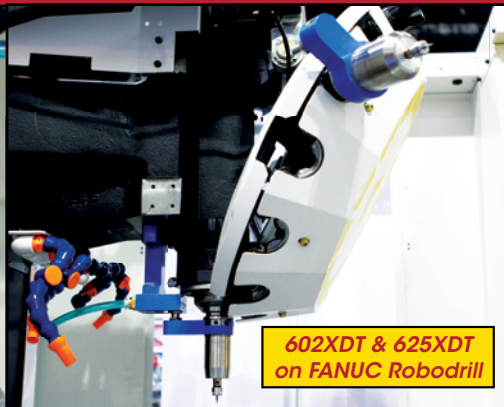
*Fully automated loading:
With our patent pending
Toolchanger Mounting
Assembly (TMA)*

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

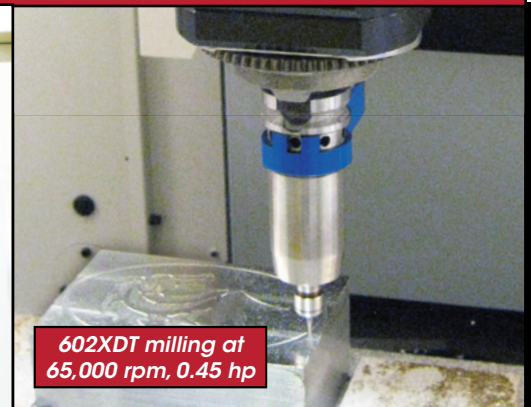
Manual or Automatic Loading to Save Time and Money.



FANUC ROBODRILL



**602XDT & 625XDT
on FANUC Robodrill**



**602XDT milling at
65,000 rpm, 0.45 hp**

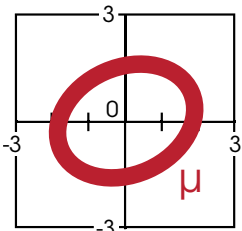
Dramatically reduce your cycle times, optimize cutting tool performance and life.

Keep continuous tool path engagement on your existing CNC at high speed even in angles and hard material. Ideal for micro machining. 30,000 - 75,000 rpm < 0.90 hp (0.67 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

Longer Tool Life

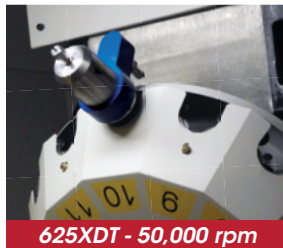
Better Surface Finish

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.

Standard ER 11 collets. Ultra precision option available.



625XDT - 50,000 rpm

Environmentally Clean

No oil required, and maintenance free.

Air Pressure:

Dry, Clean Air @ 90 psi / 6.2 bar

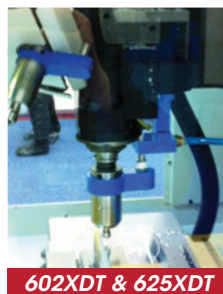
Air Consumption (Working):

602: 5 cfm / 2.36 L/s

625: 11 cfm / 5.20 L/s

Low Noise Design: Under 67 dBA

Standard Equipment: 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
∞ = Acceptable

! = Dependent upon cutting conditions
x = 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	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(X)	625(X)
Governed Speed (rpm)	40,000, 50,000, 65,000, 75,000	30,000, 40,000, 50,000	
Power (hp)	0.15 - 0.45	0.40 - 0.90	
T.I.R. at Nose	Less than 1µm		
Collet Range	1mm - 6mm		
Air Pressure	Less than 0.62 MPa (6.2 Bar)		
Air Flow	2.36 - 18.89 L/s (5 - 40 CFM) [ANR]		