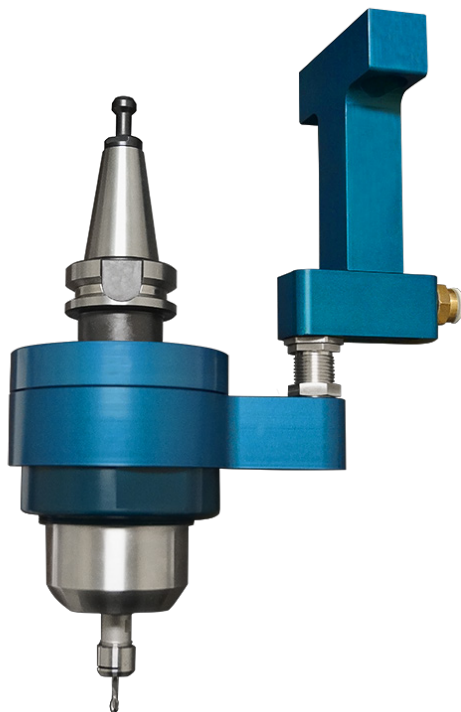


30,000 – 65,000 rpm – power to 0.76 hp (0.57 kW)  
**Constant Governed High Speed and Torque**

*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*

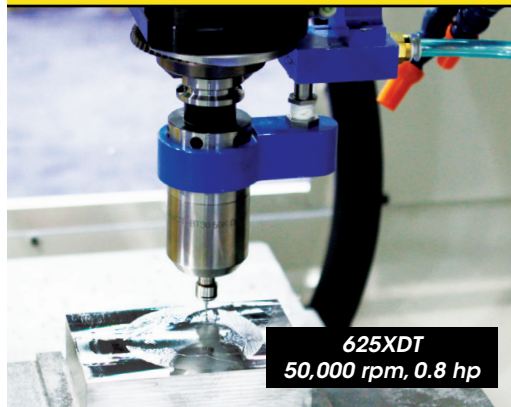
*Call for a Demonstration*

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

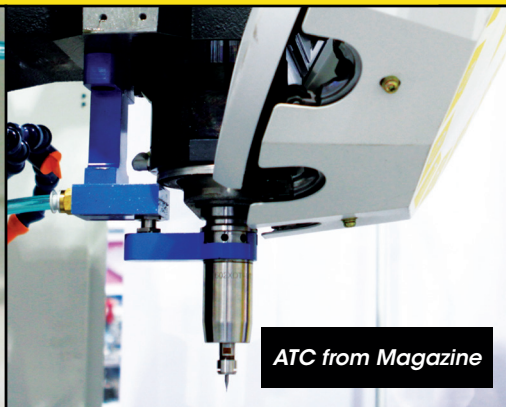
*HSK, CAT, BT, DIN available for any CNC  
Manual Connection also Possible*

**+1 561-994-0500 - [airturbinetools.com](http://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



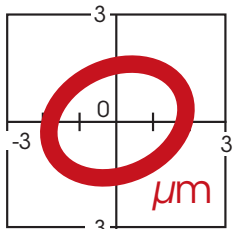
*Dramatically reduce your cycle times.  
Optimize cutting tool performance and life.*

*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**

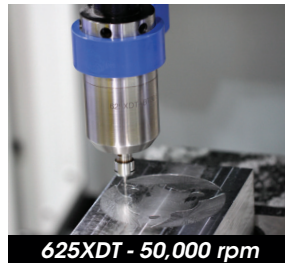
**Longer Tool Life**

**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.**



## 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

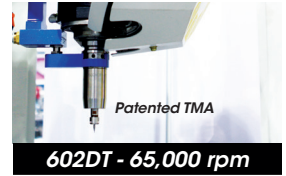
**Standard Equipment:** 0.3μm High Flow Filter/Extractor



## Automatic Toolchanger

No need for operator downtime.

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



## 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<br>50,000<br>65,000          | 30,000<br>40,000<br>50,000<br>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**

**+49-1716513614 - airturbinetools.com**