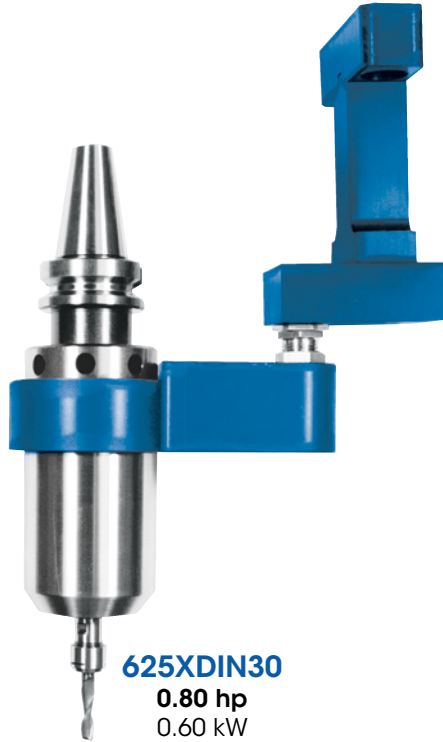


30,000 – 65,000 rpm – power to 0.80 hp (0.60 kW)  
**Now your Brother Machine delivers faster production 24/7**



**625XDIN30**  
0.80 hp  
0.60 kW

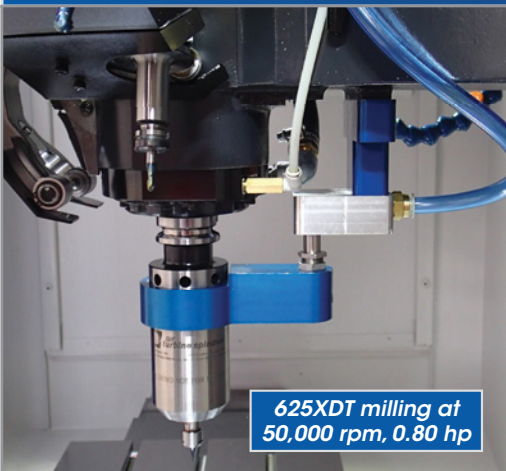
*Air Turbine Spindles®  
make your Brother  
Machine a high  
speed machine!*

*Constant Governed  
High Speed and  
Power*

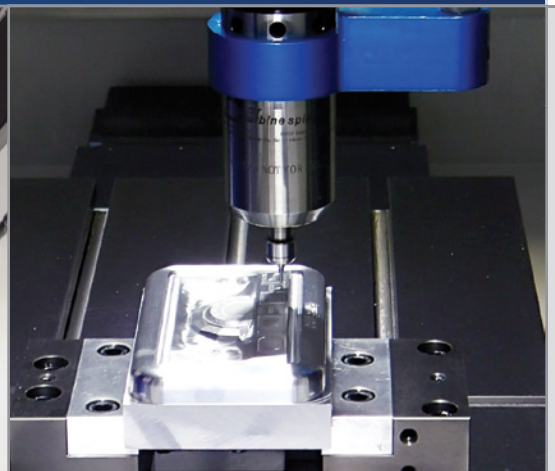
*No Duty Cycle*

*Fully automated  
loading from  
magazine*

**Automatic Loading to Save Time and Money.**



**625XDT milling at  
50,000 rpm, 0.80 hp**



**Contact Us for a Demonstration**

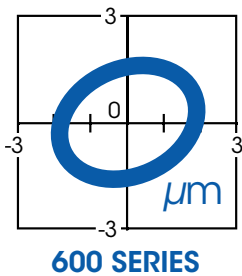
*Dramatically reduce your cycle times, optimize cutting tool performance and life.*

*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. (reference value)**



- 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.

**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):**

**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

## 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, 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	602X	625X	
Governed Speed (rpm)	40,000	30,000	
	50,000	40,000	
	65,000	50,000	
Power (hp)	0.30 - 0.47	0.80 - 0.90	
T.I.R. at Nose	Less than 1µm		
Collet Range	1mm - 6mm		
Air Pressure	Less than 6.2 Bar (0.62 MPa)		
Air Flow	7 - 30 CFM (3.30 - 14.16 L/s) [ANR]		