

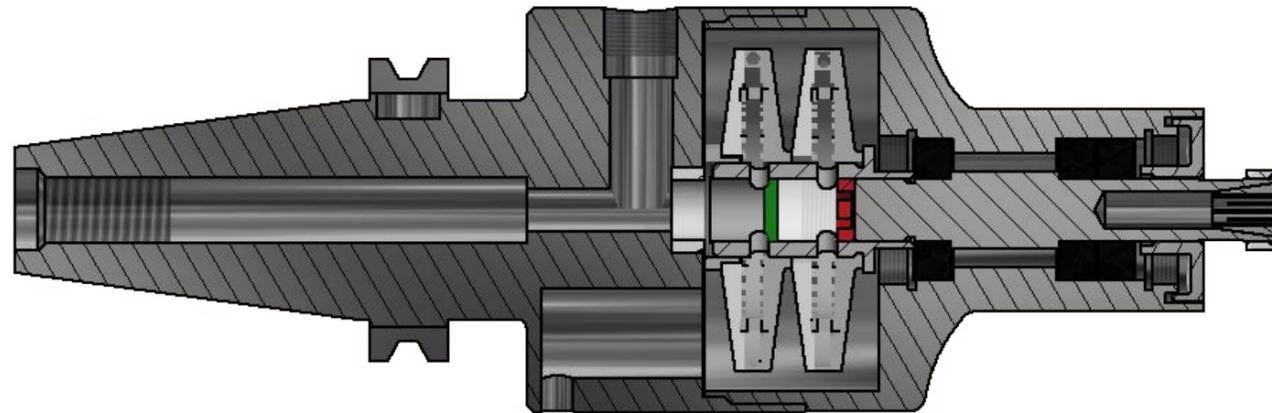
How do I change speed?

Our patent pending system makes it very easy to change speed and power rating in a minute with our patented double turbine.

A hex key fits through the air shaft at the back of the spindle. The flow control screw is turned up or down by the hex key to switch speeds, as displayed below in the red and green positions below.



Patents issued and pending.



Green Position - Single Turbine Mode.
Red Position - Double Turbine Mode.

The hex key inserted through the rear of the spindle switches the position of an internal screw - controlling flow of compressed air to supply one or both turbines operating at different speeds with single or double turbine power ratings.

Your turbine's governor increases air flow on demand to maintain rated speed under cutting load. As a result your peripheral speed at 25,000 to 50,000 rpm stays in high cuts.



625XVS Shown with Collar Assembly for ATC

New VARIABLE SPEED



625XVS:

30,000 - 0.4HP
50,000 - 0.7HP



650XVS:

25,000 - 0.7HP
40,000 - 1.1HP

With Air Turbine Spindles® you do not sacrifice power to get high speed



650XVS Shown with Collar Assembly for ATC

Change high speeds and power in moments

Just insert and turn a Hex Key

Flexibility for multiple applications

Direct drive reliability - low heat - No duty cycle

THE 625XVS

SWITCH BETWEEN 30,000 AND 50,000 RPM IN MOMENTS

30,000 0.4HP in single turbine mode

50,000 0.7 HP in twin turbine mode

General Specifications	Single Turbine Mode	Double Turbine Mode
Selectable Speed RPM	30,000	50,000
Power Rating HP (kW)	0.4 (.3)	0.7 (.5)
Inlet Air Pressure	90 PSI (6.2 Bar)	90 PSI 6.2 Bar
Air Consumption Idle cfm (l/s)	10.5 (4.9)	11 (5.2)
Sound Level	Less Than 78 dBA	Less Than 78 dBA
Max Shank Capacity	ER11 - 1/4" (6mm)	ER11 - 1/4" (6mm)



THE 650XVS

SWITCH BETWEEN 25,000 AND 40,000 RPM IN ONE POWERFUL SPINDLE

25,000 0.7 HP in single turbine mode

40,000 1.4 HP in twin turbine mode



Variable Speed Benefits

The unmatched ability to combine the flexibility of variable speed with maintenance free, governed power, redefines the way micro machining is accomplished.

Air Turbine Spindles® are powerful direct drives with just 2 moving parts, low heat, and have no duty cycle.

High speed machines are expensive, take up valuable shop space and often go unused. Air Turbine Spindles® create a flexible and cost effective alternative for all CNC machines

Our governed Speeds do not drop as your tool engages

We routinely deliver 6 - 10x faster cycles

Optimize your cutting tool performance and life

Direct Drive Reliability with low heat

2µ precision - No thermal effect on accuracy

No machine spindle wear



General Specifications	Single Turbine Mode	Double Turbine Mode
Selectable Speed RPM	25,000	40,000
Power Rating HP (kW)	0.7 (0.50)	1.4 (1.04)
Inlet Air Pressure	90 PSI (6.2 Bar)	90 PSI (6.2 Bar)
Air Consumption Idle cfm (l/s)	16 (7.56)	18 (8.49)
Air Consumption Working Flow cfm (l/s)	19 (8.97)	40 (18.89)
Sound Level	Less Than 67 dBA	Less Than 67 dBA

CAT, DIN, BT, HSK and straight shank JS configurations available.

