



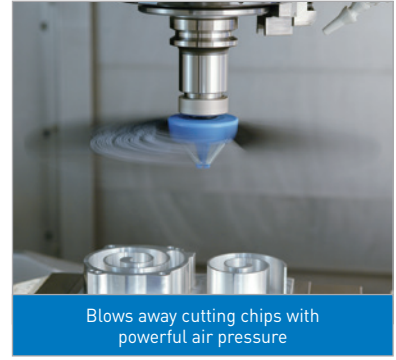
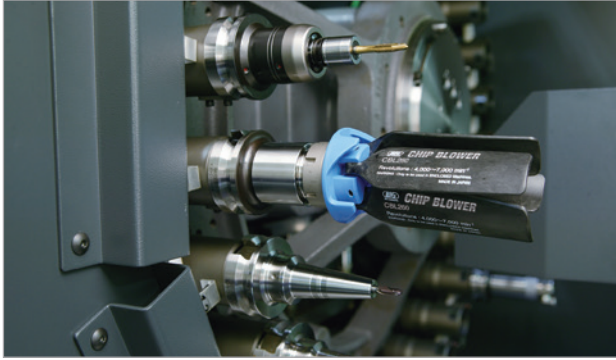
CHIP BLOWER & CHIPFAN

Automatic cleaning tools for cutting chips and coolant

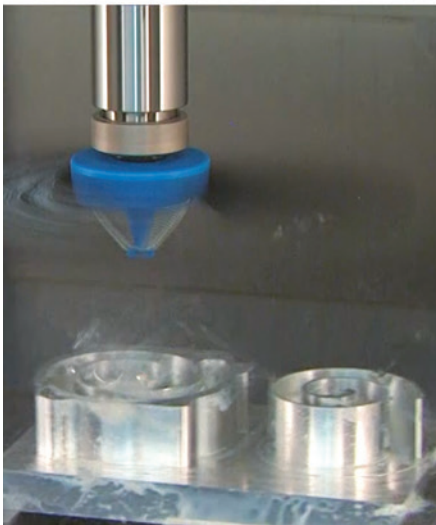
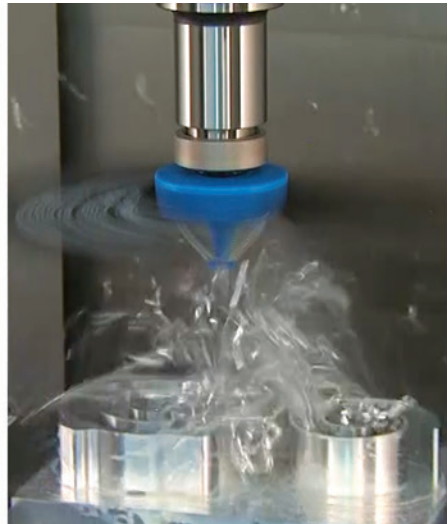
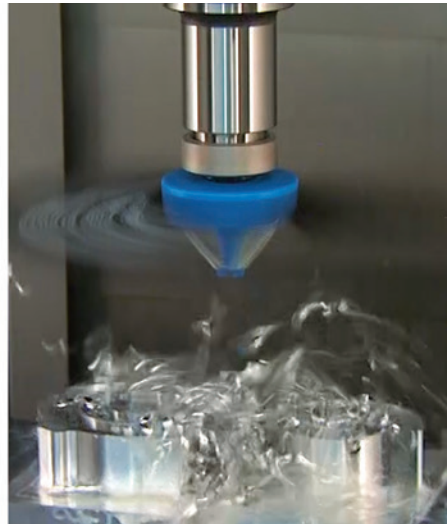
CHIP BLOWER

Air pressure removes cutting chips and coolant

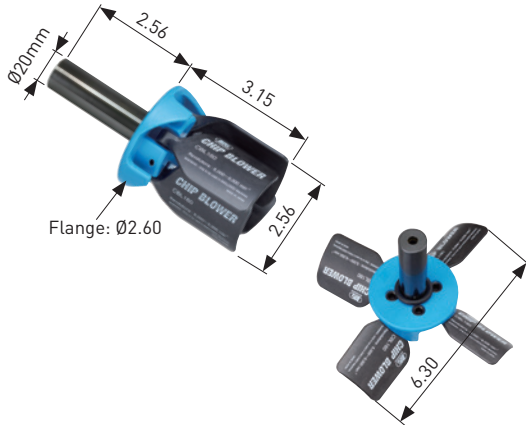
- Reduce environmental impact
- Improved machine utilization rate
- Increased productivity
- Can be used with vertical and horizontal machining centers



ST20-CBL260 — 7,000 RPM



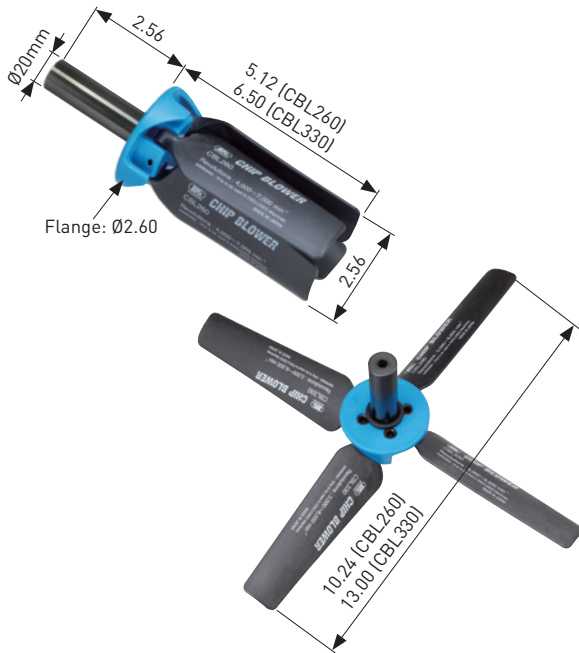
Ø160 STEEL SHANK TYPE



Catalog Number	ST20S-CBL160
Startup Spindle Speed*	500 rpm → 1,000 rpm → 2,000 rpm [.5 sec] → [.5 sec] → [.5 sec]
Recommended Spindle Speed	Min. 6,000 Max. 9,000 rpm
Rotation Direction	Forward
Distance to the Workpiece Surface to be Cleaned (with wing opened to maximum)	3.94-5.91"
Recommended Movement Feed	118-394 ipm

*The wing may open during ATC when it is used with an ultra-high speed ATC machining center

Ø260 & Ø330 STEEL SHANK TYPE



Catalog Number	ST20S-CBL260	ST20S-CBL330
Startup Spindle Speed*	500 rpm → 1,000 rpm → 2,000 rpm [.5 sec] → [.5 sec] → [.5 sec]	
Recommended Spindle Speed	Min. 4,000 Max. 7,000 rpm	Min. 3,000 Max. 6,000 rpm
Rotation Direction	Forward	
Distance to the Workpiece Surface to be Cleaned (with wing opened to maximum)	3.94-5.91"	
Recommended Movement Feed	118-394 ipm	

*The wing may open during ATC when it is used with an ultra-high speed ATC machining center

Repair Kit

Catalog Number
RK-CBL160
RK-CBL260
RK-CBL330



- Repair kit contains 4x replacement blades, 4x springs and 4x pins
- Additional springs are available in sets of 10x [CBL-SP-10P]

CAUTION

- **Startup Spindle Speed** — In recent high-speed machining centers, the machine spindle rotation rise has become faster. A sudden command for spindle speed may create a strong impact on the wing as it opens; therefore, be sure to rotate it at the startup speed in the table above before raising it to the designated spindle speed.
- The spindle speed and the distance to the workpiece surface in the above table differ depending on the weight of the cutting chips. Be sure to confirm before use.
- The wing may open during ATC when it is used with an ultra-high speed ATC machining center.
- When supplying coolant with center through, be sure to stop the spindle rotation first.
- This product must be used only with a machine with a full cover.
- Never modify this product in any way.
- The dedicated spring must be replaced after about 20,000 use cycles. Send back the unit for replacement through your supplier.
- Although the wing is made of high-strength carbon fiber reinforced resin, it may be worn out or damaged due to the collision of cutting chips or impact when opening/closing. If wear and damage progress, the wing may snap and fly out during use. Be sure to periodically check the damage of the wing visually and replace it as needed. Send back the unit for replacement through your supplier. Individual wings are not available for sale.
- The cylindrical shank outer diameter of the chip blower is Ø20. Use a BIG NEW BABY CHUCK for the holder. Grasping with a holder with low inner diameter collapsibility is dangerous and must be avoided.

CLEANERS



CHIPFAN

Chip & Coolant Fan!

Fast, safe chip and coolant cleaning without stopping production. Your machine spindle spins the ChipFan blades to provide high-volume air cleaning power.

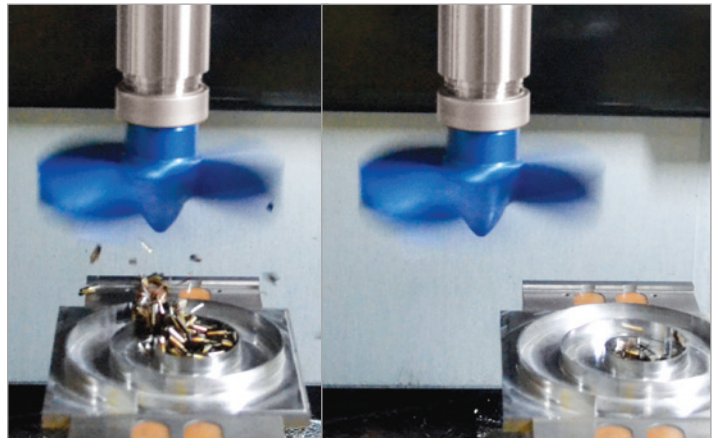
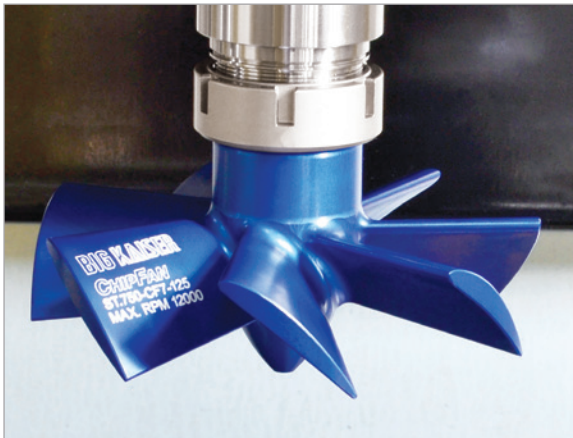
- Coolant through
- 12,000 RPM Max
- Safe, fast method of removing chips and coolant
- Balanced integral design for high speed
- Made from high-strength aluminum with anodized coating for long life and durability
- Quieter work environment



Catalog Number
ST.750-CF125

DIMENSIONS

Shank: \varnothing .750"
Blade: \varnothing 4.92"
Length: 2.36"



OPERATING INSTRUCTIONS

- Use in enclosed machine centers
- Install into a collet chuck
- Rotation is clockwise
- Optimum feed rate is 120-390 in/min

