

Achieve
easy deburring
with BARRIQUAN.



DEBURRING TOOL HOLDER
BARRIQUAN
BRQ-TX01 FOR MACHINING CENTER

Floating function of Barriquan solves all problems in deburring automation!!



Remaining Burr



Cutting Too Deep

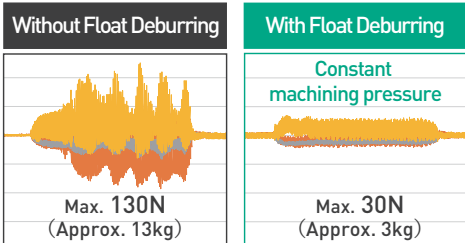
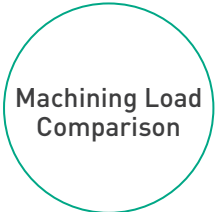


Complicated Workpiece Shape

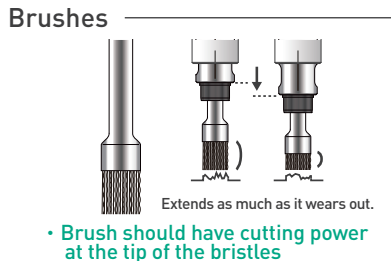
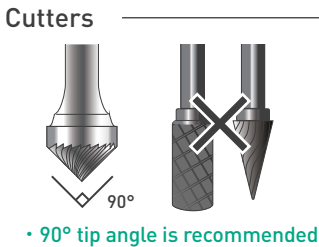
What is **Float Deburring** which enables automated deburring?



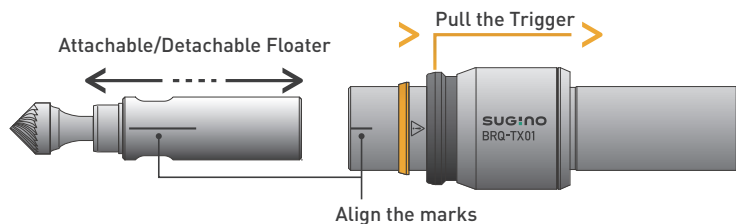
It is a machining method that prevents burrs from being left behind and workpieces from being over-shaved by aligning the tool to the shape of the workpiece at a constant pressure.



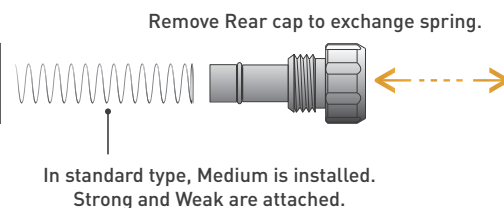
Suitable tools for Float Deburring



1. Detachable Floater



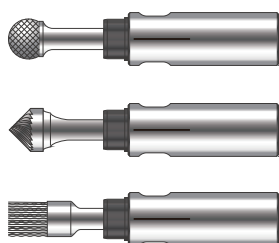
2. Exchangeable Spring



1. Change Floater in 3 seconds!

You can pull trigger and change floater in 3 seconds. No need to waste your time for tool change.

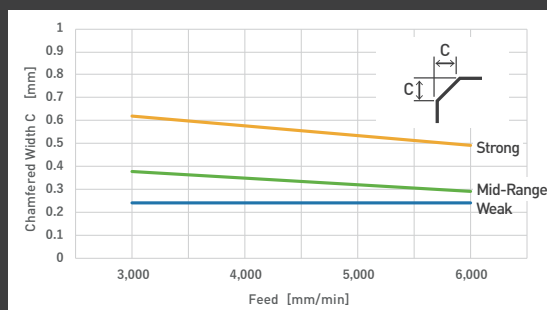
No tool is required for daily maintenance. Daily maintenance will extend lifetime of Barriquan.



2. Spring change manually (no tool required)

You can detach rear cap manually (no tool is required). Please choose best spring to adjust cutting amount.

Relationship between Feed Speed and Chamfer width by Spring



Machine = Sugino SC-V30a
Material = Steel
Spindle Speed = 8,000min⁻¹

Specifications

Model	BRQ-TX01
Series	BARRIQUAN
Shank size	φ20 × 40L
Length without shank	72mm
Body diameter	φ29
Weight	270g
Max. Spindle Speed	12,000min ⁻¹
Collet	φ6 (standard)
	φ3 (option)
	φ6.35 = 1/4 inch (option)
	φ3.175 = 1/8 inch (option)
Spring	Medium (installed inside body when you receive)
	Weak (attached with BRQ-TX01)
	Strong (attached with BRQ-TX01)

Corresponds to allowable speed of 12,000min⁻¹
High feed rate shortens CT and provides stable finishing.

Example of deburring finish with different spindle speed.

Entrance area

Spindle Speed 5,000 min⁻¹

Max. Chamfered Width 0.49mm
 Min. Chamfered Width 0.24mm

Deburring width is not stable at entrance area.

Spindle Speed 12,000 min⁻¹

Max. Chamfered Width 0.37mm
 Min. Chamfered Width 0.37mm

With higher spindle speed, deburring width is stable even at entrance area.

Feed = 6,000 mm/min
 Material = Steel

SUGINO
SUPER! TECHNOLOGY

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More Information

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