

"The world's smallest angle spindle"

capable of chamfering / deburring the inside of $\phi 18$ mm I.D. pipes

*Among commercially available products according to Nakanishi survey, as of January 1, 2026.

Angle Spindle with Ultra-Compact Head

RAM-3014

For use with $\phi 1.6$ mm diameter tools

This product is an angle spindle featuring the world's smallest head. Electroplated diamond burs and Counterclockwise carbide chamfer cutter solve chamfering and deburring challenges for aluminum and stainless steel parts.



Shown in actual size



Machining data Inner Cross Hole Chamfering for a $\phi 21$ mm I.D. Pipe

Machine tool	Machining center (Sodick Co., Ltd. / MC430L)
Workpiece	Aluminum (O.D.: $\phi 25$ mm, I.D.: $\phi 21$ mm, Side hole diameter: $\phi 2$ mm)
Tool	Counterclockwise carbide chamfer cutter (67102)
Rotational speed	Output: $13,630 \text{ min}^{-1}$ / Input: $15,000 \text{ min}^{-1}$
Feed rate	500 mm/min
Depth of cut	0.1 mm

Check out
the video
for more details.

