

Gear Chamfering Machine

CF26A

The solution for high precision gear
chamfering without burrs.



■ Chamfering -with High Speed, Precision and Efficiency-

- The CF26A utilizes generating cutting with our special ChamferX cutting tools, eliminating burrs in the tooth flank and end face.
- The CF26A removes end-face burrs remaining from gear hobbing.
- Using the Nidec cutting-edge tool design simulation software, specific defined chamfering shapes are created including tooth root and complete edges up to 1mm or more.

Cutting example

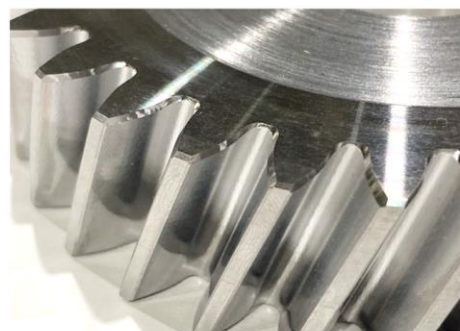


High-accuracy gears
for Electric Vehicles

Before



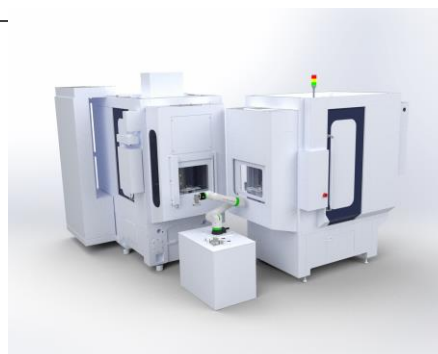
After



■ Automation

- Proven fully integrated automation systems according to customer's request.

- ✓ Robot
- ✓ Gantry Loader



Special cutting tool

ChamferX

Provides ideal chamfering shapes based on Nidec's newly developed tool design simulation software



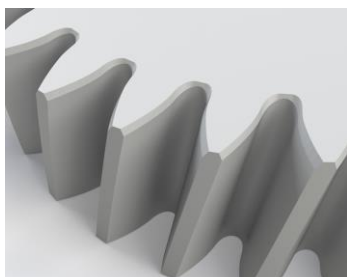
■ ChamferX



- For high-precision and high-efficiency cutting chamfering, we have developed special **ChamferX** chamfering tool exclusively for use with the CF26A.
- Using the cutting-edge tool design simulation function, the specified chamfering shapes are cut during the actual machining.
- With long tool life and simple resharpener and recoating, consumable tool cost is low.

■ Mechanism

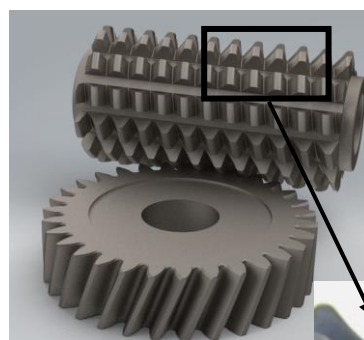
- ChamferX removes burrs in the end face of workpiece with generating cutting.
- State-of-the-art tool design simulation software creates the specific design of the special cutting tools.



Simulation result



Cutting result



Tooth profile