October 16, 2024
NACHI-FUJIKOSHI CORP.

# Launch of the High-Performance Gear Grinding Machine “GSGT260”

1. Market trends and our initiatives

The environment surrounding the global automotive market is entering a period, so to speak significant transformation that occur once in a hundred years with the spread of electric vehicles (EV).

As automobiles are replaced by electric vehicles, there is a greater demand for noise and vibration reduction than ever before, leading to an increased need for finishing processes through grinding for high-precision gear parts used in reduction gears of EV.

This time, we launch the new high-performance gear grinding machine "GSGT260" targeted at the automotive reduction gears and industrial machinery field, aiming to capture the increasing demand for high precision in gear grinding.

2. Overview of the high-performance gear grinding machine “GSGT260”

(1) Target market and parts

Automotive reduction gears and external gear parts for the industrial machinery field

(2) Features

① High-precision machining

By adopting a high-precision, -rigidity, and -durability spindle structure, along with precision management through machining status monitoring and feedback control, we improve the accuracy and surface quality of gears, therefore reduce noise and vibration.

② High-efficiency machining

Two-axis NC loader mechanism and high-speed computing unit make workpiece switching and workpiece indexing faster, thus reducing non-griding time. Additionally, the high output and high rigidity structure contributes to increase productivity by increasing the amount of rough grinding per second.

③ Space-saving and energy-saving

Despite being high-performance, we achieve a space-saving with the compact design, approximately 40% smaller in floor space and about 20% lower in height compared to equivalent products from the competitors. Furthermore, it contributes to save energy by reducing the power consumption of the coolant and the cooling energy.

④ Variable machining applications

“GSGT260” is capable of machining gears with a maximum module of 4, outer diameter of φ20 to 260 mm, enabling high-speed and -precision mass production of gear parts for EV and HV reduction gears, as well as high-precision grinding of large gears for industrial machinery.

⑤ Proposal of optimal processing conditions

We can provide optimal performance proposals from grinding wheel design to setting grinding conditions, responding to various customer’s demands such as high precision, high efficiency, and low cost.

3. Product specifications

- Target workpiece outer diameter：φ20 ～ φ260 mm
- Max. module：m4.0
- Max. outer diameter of the grinding stone：φ300 mm
- Max. width of the grinding stone：160 mm
- Machine size：W2,266×D5,709×T2,500 mm


4. Launch date and sales target

(1) Launch date：October 2024
(2) Price：Open price
(3) Sales target：10 units per year

5. Inquiries about the new product

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