

μ ICRO FACE GEAR REDUCTION UNIT



shown here with a needle for size comparison

Design Solutions :

Motors are the most popular means of converting electrical energy into mechanical work. Increased efficiency and effective speed reduction have become vital to the medical/surgical device manufacturing industry. Delicate operations require the use of micro-motors having miniature gear heads with ratios of 1:100 or greater.

Our company specializes in such fine pitch gears, gear tools, inspection methods and engineering solutions. Ogasawara Precision Laboratory Ltd. was responsible for the design and fabrication of face gear reduction units for a major medical instrument manufacturer.

Face Gear Differential Unit :

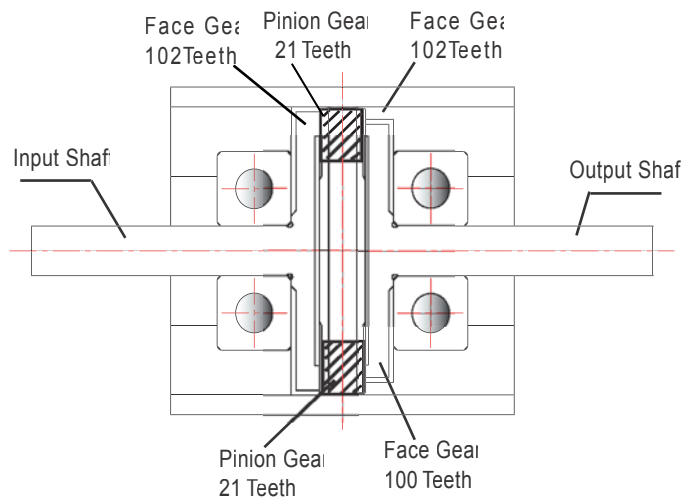
- ◆ Precision Micro mechanism's for motor speed reduction.
- ◆ High Efficiency
- ◆ Reduced Backlash
- ◆ Greater Reduction Ratio
- ◆ Unbelievably Smooth Rotation
- ◆ Compact Design
- ◆ Increased design flexibility

Ideally suited for precise positioning applications where smoother, quieter and more efficient power transmission is desired.

Precision Positioning Applications in :

- ◆ Medical Devices
- ◆ Semiconductor Manufacture
- ◆ Robotics
- ◆ Laser Technology
- ◆ Biotechnology
- + others....

Reduction Ratio 1:101



schematic figure 1-A

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