5AX-130, 5AX-201

NIKKEN
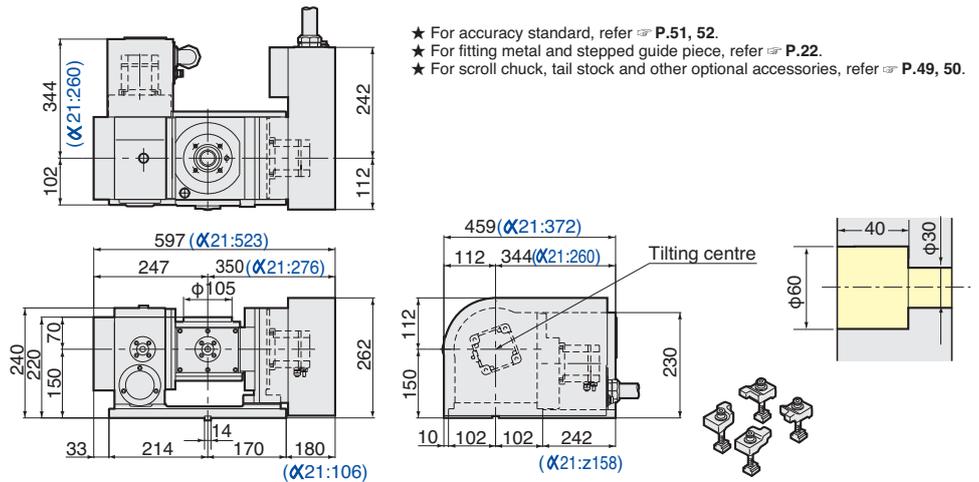
External dimensions will be different according to the type of the servo motors. Dimensions with FANUC motor or with NIKKEN α21 controller (α21:) are shown. Please contact with us for CAD data (2D:DXF, 3D:PARASOLID).
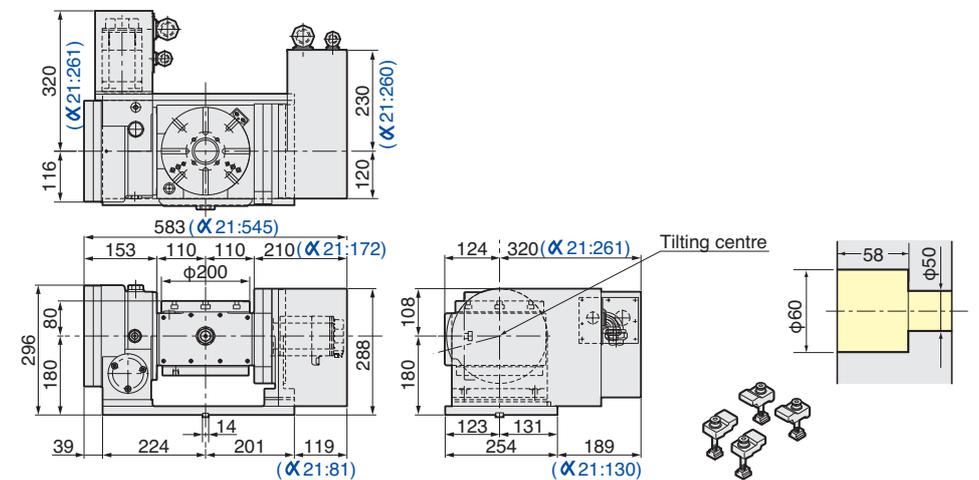
5AX-130

Photo shows with φ130mm plate.

★ For accuracy standard, refer ☞ **P.51, 52**.
★ For fitting metal and stepped guide piece, refer ☞ **P.22**.
★ For scroll chuck, tail stock and other optional accessories, refer ☞ **P.49, 50**.

Tilting centre

Centre height of high column table is 65mm higher than that of standard table, refer ☞ **P.45**
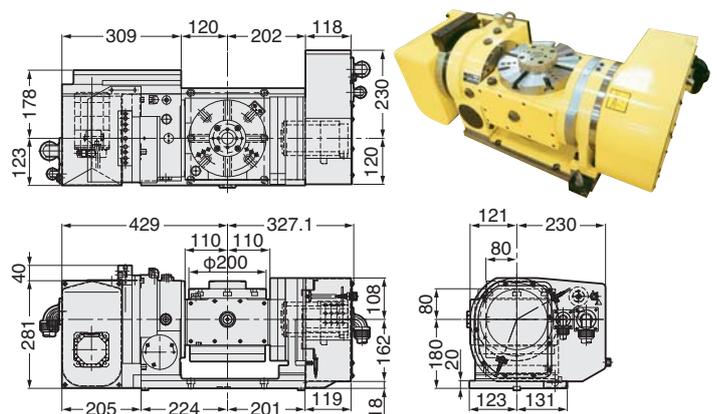
5AX-201 NEW

Tilting centre

Built-in type 4 ports rotary joint can be attached on standard type as an option. (High column type is not necessary.)

■ The Area of Noninterference in Tilting Position.

Angle	5AX-130	5AX-201
0°∼45°	φ135, 25	φ210, 41
0°∼90°	φ300, φ135, 37	φ350, φ310, φ210, 12, 41
0°∼105°	15°, φ235, φ135, 70	15°, φ250, φ210, 90

■ 5AX-201BAFA   The tilting axis motor is mounted at back side.

■ Calculation Method of Drilling Thrust Load

$$T = 9.8 \times (0.711 \times HB \times f^{0.8} \times D^{0.8} + 0.0022 \times HB \times D^2)$$

 T: Thrust load (N)
 f: Feed per one revolution (mm/rev)
 HB: Brinell hardness of the work piece
 D: Diameter of drill (mm)

For example, in case of drilling an aluminium
 (HB:100, D:φ9.5mm, F:0.2mm/rev),
the calculation method is as follows.

$$9.8 \times (0.711 \times 100 \times 0.2^{0.8} \times 9.5^{0.8} + 0.0022 \times 100 \times 9.5^2) = 1359N$$

This is the thrust load of new drill. When the drill weared, thrust load will increase. (140∼160%)