Precision Bench Drill Series

EACH SET INCLUDES

Main Unit + Long-Travel XY Positioning Table + Dial & Crown Vise + Irregular-Workpiece Vise



PRODUCT OVERVIEW

A compact, all-metal precision bench drill designed for watch parts, jewelry and other small components. A precision spindle, smooth linear feed and integrated LED illumination provide controlled, accurate drilling. Available in Standard, Premium and Flagship editions to suit different machining requirements.

PRODUCT HIGHLIGHTS

All-Metal Construction
Compact design for precision bench work

Precision Spindle
Spindle Runout ≤0.01 mm

Smooth Linear Feed
Controlled vertical movement with LED illumination

Flagship Edition

Model: BJTZ-01

Outer-Rotor Brushless Motor

Recommended Max. Drilling Diameter: Ø3.5 mm

No-load speed	**9600 rpm**
Rated speed	**8000 rpm**
Rated torque	**4078 gf·cm**
Stall torque	**8000 gf·cm**
Main unit weight	**4.4 kg**
Total Set Weight	**6.1 kg**

MAIN UNIT DIMENSIONS

145 × 250 × 335 mm

TRANSMISSION RATIOS:

1:1 / 1:2.5 / 2.5:1

Premium Edition

Model: BJTZ-02

45 mm DC Motor

Recommended Max. Drilling Diameter: Ø2.5 mm

No-load speed	**8000 rpm**
Rated speed	**6000 rpm**
Rated torque	**850 gf·cm**
Stall torque	**3000 gf·cm**
Main unit weight	**4.4 kg**
Total Set Weight	**6.1 kg**

MAIN UNIT DIMENSIONS

145 × 250 × 335 mm

TRANSMISSION RATIOS:

1:1 / 1:2.5 / 2.5:1

Standard Edition

Model: BJTZ-03

38 mm Compact Motor

Recommended Max. Drilling Diameter: Ø1.2 mm

No-load speed	**6000 rpm**
Rated speed	**4667 rpm**
Rated torque	**343 gf·cm**
Stall torque	**1542 gf·cm**
Main unit weight	**4.4 kg**
Total Set Weight	**6.1 kg**

MAIN UNIT DIMENSIONS:

145 × 250 × 335 mm

TRANSMISSION RATIOS:

1:1 / 1:2.5 / 2.5:1

Main Unit & Accessories

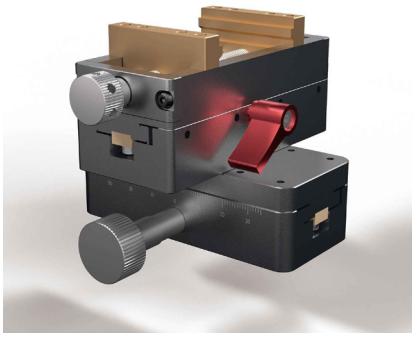
Individual product views and key specifications



Main Unit

All-metal construction with a precision spindle, smooth linear feed and integrated LED illumination for controlled drilling and precision machining of small components.

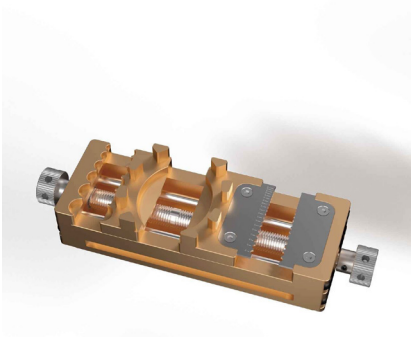
Dimensions	**145 × 250 × 335 mm**
Weight	**4.4 kg**
Material	**Aluminum**
Transmission Ratios	**1:1 / 1:2.5 / 2.5:1**



Long-Travel XY Positioning Table

Independent X- and Y-axis adjustment enables precise positioning of the workpiece during drilling and machining.

Dimensions	**100 × 100 × 76 mm**
Weight	**0.8 kg**
Material	**Brass + aluminum alloy**
X/Y travel	**±35 mm per axis**
Working Area	**70 × 70 mm**
Max. Clamping Capacity	**Approx. 64 mm**
Axis Locking	**Yes**



Dial & Crown Vise

A dedicated fixture for securely holding watch dials, crowns during precision drilling and machining.

Dimensions	**139 × 40 × 57 mm**
Weight	**0.5 kg**
Material	**Brass + aluminum alloy**
Workpieces	**Watch dials and crowns**



Irregular-Workpiece Vise

Designed to securely clamp irregularly shaped components during precision drilling and machining.

Dimensions	**134 × 40 × 32 mm**
Weight	**0.4 kg**
Material	**Brass + aluminum alloy**
Workpieces	**Irregularly shaped components**