Technical Data sheet

Manual Grooving Machine For Aluminum Tubes

◆ Product Description

The manual convex grooving machine for aluminum tubes leads with three core advantages: cordless portability, multi-specification compatibility, and high precision with low loss. It is an ideal equipment for meeting the needs of miniaturization and on-site operation in the aluminum alloy processing field. It not only addresses the issues of power dependence and poor mobility of electric equipment but also compensates for the shortcomings of low precision and inefficiency of traditional manual tools.

- Cordless & Portable Design
- Multi-Specification Compatibility
- High-Precision Positioning & Low-Loss Processing
- Gear Reduction Labor-Saving Structure
- Low Operation Threshold & Convenient Maintenance

◆ Typical Product Data and Physical Properties

Applicable to Round Aluminum Tubes: Φ16-Φ50mm
Applicable to Rectangular Aluminum Tubes: 20×15mm, 40×30mm
Aluminum Tube Wall Thickness: 0.8-2.0mm
Processing Groove Width: 3-8mm
Processing Groove Depth: 1-3mm
Processing Groove Types: Semicircular, Rectangular

◆ Product Structure

- The manual convex grooving machine for aluminum tubes adopts a four-module structure: transmission, positioning, mold, and machine body. Its manual transmission system features an anti-slip rocker paired with a 1:200 total reduction ratio mechanism, and is equipped with overload slip protection to prevent equipment damage. The positioning fixture includes an adjustable V-shaped groove, a side pressure mechanism, and an axial stopper, ensuring precise fixing of aluminum tubes. The convex grooving mold is made of Cr12MoV material. The machine body is constructed with a cold-rolled steel frame, equipped with a stainless steel workbench surface and a storage box. Overall, it balances the characteristics of precision, compatibility, labor-saving, and portability.

Availability:

Item#	Features	Weight
1.4.24.02.0103	Manual	5.2kg

◆ Typical Applications

- The manual convex grooving machine for aluminum tubes is highly suitable for four core scenarios: on-site door and window installation, small-scale aluminum product processing, decorative aluminum tube shaping, and old aluminum part repair. It addresses the processing needs of "no power supply, high precision, and flexibility" in different scenarios, with low cost. Its advantages of cordlessness, precision, portability, and multi-compatibility are highlighted in all scenarios.

◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application related questions.

◆ Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. HORB data is for reference purposes only.