

Noztek Tolerance Puller

The Noztek Tolerance Puller:
Advanced 3D extrusion.



Overview

The Noztek Tolerance Puller is engineered to precisely reduce filament from a larger bore diameter in a pellet extruder to a specified target diameter, ensuring unparalleled accuracy and efficiency in filament production through high-precision monitoring and automated adjustments. By integrating cutting-edge laser technology with intelligent automation, it guarantees consistent accurate filament quality, making it an essential tool for professional 3D printing and extrusion applications.

The Noztek Tolerance Puller is fully compatible with our range of extruders and the Noztek Winder 2.0, forming a fully integrated filament production system. The puller ensures precise filament diameter control, while the winder efficiently collects and winds the filament onto spools, optimizing the entire extrusion and winding process for seamless integration and optimal performance.

Technical specifications

General features	<p>Automatic mode: This user-friendly mode automates the tolerance pulling process, requiring only an initial setup to configure the target filament diameter, starting speed, and distance to the extruder. It's perfect for seamless extrusion runs directly from your extruder.</p> <hr/> <p>Laser Accuracy: The high-precision, industrial-grade laser sensor from Keyence measures filament diameter with an accuracy of up to 0.001mm. It Provides real-time filament diameter monitoring for continuous precision.</p> <hr/> <p>Automated Error Correction – Proprietary software analyzes data and automatically adjusts settings for optimal accuracy. Utilizes an error correction algorithm to maintain precise preset filament tolerances.</p> <hr/> <p>Algorithm-driven adjustments: Optimizes filament consistency, minimizing errors and waste</p> <hr/> <p>Tension pulley system: Ensures reliable and accurate filament production.</p> <hr/> <p>Smart motor speed adjustments: Dynamically fine-tunes speed based on filament diameter</p> <hr/> <p>Plug & Play: Straight from the box, the Tolerance Puller is ready to be used, just like all our other machines.</p> <hr/> <p>Color/Finish: Brushed stainless steel chassis or black powder coat chassis.</p> <hr/> <p>Dimensions: L: 28 cm x W: 28 cm x H: 36 cm.</p> <hr/> <p>Weight: 7 kg.</p>
Output capacity	<p>Pulling speed: Maximum 10 meters a minute.</p> <hr/> <p>Filament Diameter: Ranges from a minimum detection of 0.2mm to a maximum of 5mm.</p>
Certification	<p>CE certified: For compliance with safety and quality standards.</p>

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For more detailed information, please refer to the Noztek Touch user manual or feel free to contact our dedicated Noztek expert team for direct support and guidance.