3M™ Servo Rotary Tool

Technical Data Sheet

Effective Date: September 1, 2019

Product Name	**3M™ Servo Rotary Tool – 5HP, 6,000 RPM, PN06532**
Product Description	The 3M™ Servo Rotary Tool is programmed to select and maintain speeds to optimize abrasive performance. It's an ideal solution for heavy-duty applications that utilize lower RPM and require higher torque. Its 5 horsepower (3.8 kW) Servo Motor and integrated tool changer provides the power, speed control and holding torque necessary to perform many operations. Its motor shaft is configured to accept standard BT30 tapered toolholders. Standard or custom CNC tooling make it possible to utilize different 3M™ Abrasive Discs to meet application requirements. The gripper mechanism maintains the tool position while, at the same time, providing a fast-acting release for rapid tool changes. The 3M™ Servo Rotary Tool is designed to mount directly onto the 3M™ Active Compliant Tool as part of the KUKA ready2_grind system. • 5.0 horsepower (3.8 kW) servo motor (liquid cooling required) • 6,000 maximum RPM • Fully adjustable speed • Uses standard BT30 toolholders • Sealed ceramic bearings for long service life • High-speed shaft seal • Mounts directly to 3M™ Active Compliant Tool • Fail-safe pneumatic toolholder release • All fittings, fasteners, and threaded holes are metric 

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Specifications	
Tool	
Power:	5.0 hp (3.8 kW)*
Continuous Stall Torque:	5.6 lb.-ft. (7.6 N·m)*
Speed Range:	60-6,000 RPM, ±5%
Tool Weight:	30 lb. (13.6 kg)
Cooling:	Liquid
Collet	
Required Toolholder:	BT30
Retention Knob:	Parlec 3003TRK or equivalent
Clamping Supply Air:	Dry, Non-lubricated 90 psi (6.2 bar) Minimum 100 psi (6.9 bar) Maximum
Specifications subject to change without notice. These values are based on measurements taken in a laboratory environment. Real-world results may be degraded due to external factors beyond 3M's control.	

Have questions? Ask the 3M Robotics Abrasives Experts at 1-800-803-9104.

IMPORTANT NOTICE TO PURCHASER:

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty and Limited Remedy: 3M warrants this tool against defects in workmanship and materials under normal operating conditions for one (1) year from the date of purchase. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property. User must operate the tool in accordance with all applicable operating instructions, safety precautions, and other procedures stated in the operating manual to be entitled to warranty coverage. 3M shall have no obligation to repair or replace any tool or part that fails due to normal wear, inadequate or improper maintenance, inadequate cleaning, non-lubrication, improper operating environment, improper utilities, operator error or misuse, alteration or modification, mishandling, lack of reasonable care, or due to any accidental cause. If a tool or any part thereof is defective within this warranty period, your exclusive remedy and 3M's sole obligation will be, at 3M's option, to repair or replace the tool or refund the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Submitting a Warranty Claim and Product Repair after Warranty Has Expired: For warranty and repair service on ready2_grind Robotic Spindles and Compliant Force tools, please call KUKA Technical Hotline at 1-800-459-6691.

3M

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