

TES-2000 Digital Tube Expanding System

Transform your tube expansion process with the TES 2000 Digital Tube Expanding System – a solution designed for precision, efficiency, and ease of use.

PRECISION AND CONTROL

The TES 2000 Controller is the heart of this system, offering durable performance and effortless maintenance. Its advanced digital capabilities ensure that every tube is expanded to the exact same torque, eliminating the risks of over-rolling and distortion of tube sheet ligaments. Experience unparalleled accuracy with variable speed and torque repeatability of +/- 1%.

HIGH-TECH INNOVATION

Equipped with a state-of-the-art servo drive, the TES 2000 guarantees high-quality, repeatable results. This purely digital and modular system adapts seamlessly to a wide range of tube diameters and materials, making it the ideal choice for demanding applications. Whether you're working with standard or exotic materials, the TES 2000 delivers consistent, reliable performance every time.

DESIGNED FOR EASE AND EFFICIENCY

Simplicity meets sophistication with the TES 2000. The system is designed for easy setup, allowing you to get started quickly and efficiently. Its user-friendly interface and programmable features, including adjustable speed and torque settings, programmable timers, and report generation, provide complete control over your expansion process.

TECHNICAL SPECIFICATIONS

- Tube compatibility: ½" – 1 1/4"
- Power supply: 230V, 50/60Hz
- Supported languages: english
- System is fully CE compliant and fully adheres to RoHS standards

CUTTING-EDGE FUNCTIONS

The TES 2000 is packed with features to enhance your workflow:

- ▶ Speed and torque adjustments for precise control.
- ▶ Programmable timers for cycle start, reverse pause, and end of cycle.
- ▶ Low torque suppression timer to prevent damage.
- ▶ Internal storage for log files, supporting up to 9999 cycles.



TES-2000 MOTOR

	RPM		TORQUE NM		TORQUE FT-LBS		WEIGHT	
	MIN	MAX	MIN	MAX	MIN	MAX	KG	LBS
GEAR 1:1	400	5000	1,25 Nm	8,4 Nm	0,92 Ft-Lbs	6,20 Ft-Lbs	5 kg	11,02 lbs
GEAR 1:6	70	800	8,00 Nm	46 Nm	5,90 Ft-Lbs	33,93 Ft-Lbs		



USER-FRIENDLY INTERFACE

The Text Panel (TP) series HMI provides a straightforward, monochrome text and graphical interface with physical membrane buttons. While simple in appearance, this interface offers robust control functions and easy operation, making it accessible to users of all skill levels.

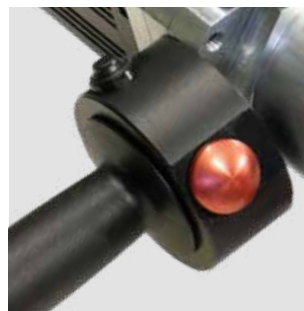
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EFFICIENCY AT ITS BEST

Designed for professionals who demand the best, the TES 2000 delivers uniform tube expansion with greater efficiency and accuracy. Its high-tech servo drive ensures that every expansion is performed to perfection, saving you time and effort.



TES units are equipped with top quality connectors.



Easy-to-access button allows for convenient work control.



TELESCOPIC SHAFT



As an option, KRAIS offer an articulated telescopic shaft - convenient way to improve efficiency and option to machine most inaccessible tubes. The telescopic shaft is useful especially to roll tubes close and deep to the shell. The shaft is easy to handle, accurate and stable at all speeds.

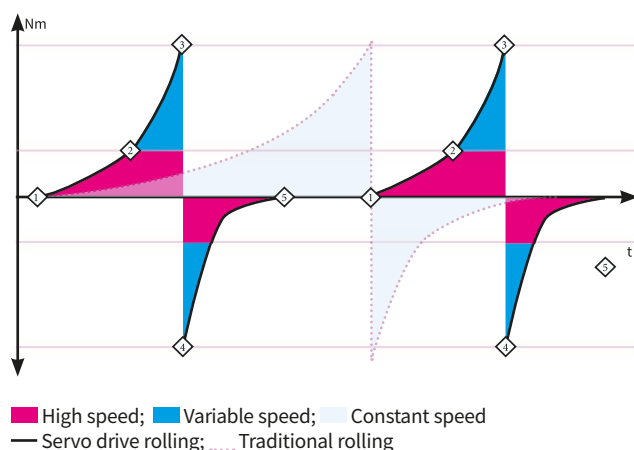


Built to work with the regular TES2000 motor and TES3000, G-1000, G-400, and G-1450 motors.

BASIC FEATURES

Overall telescopic range:..... 940 - 1480 mm (37,0" - 58,3")
 Extensibility:..... 520 mm (20,5")
 Handle part length:..... 225 mm (8,9")
 Weight:..... 8 kg (17,6 Lbs)
 Max. torque: 120 Nm (88,5 FtLbs)

SERVO DRIVE WORKING SCHEME



FLEXHOLDER

To work with TES3000 controllers we recommend arm FlexHolder. This connection allows you to create a mobile workstation with an above average performance!

