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TECHNOLOGY GROUP

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MODEL 240



Model 240

Engraving Area: 247.5 Sq. In.
- *X-Axis Travel:* 16.5"
- *Y-Axis Travel:* 15"

Work-Holding Capacity
- *X-Axis:* 17"
- *Y-Axis:* Unlimited

Table Design: Open-Bed, Pass-Through
- *Table Type:* Dynagrip
- *Options:* Drilled Table Plates
- *Datum Detectors:* Optional

Vise: Optional
- *Holding Capacity:* Up to 16" L x 12" H
- *Vise Adjustment:* Up to 65° Rotation, 35° Tilt

Cylindrical: Optional
- *Holding Capacity:* .25" to 10.5" Dia. x 16" L*
- *Concentricity:* .002"

Spindle: 11/64" Diameter
- *Diamond Drag Adapter:* Standard
- *Actuation:* Adjustable Pneumatic
- *Vertical Travel:* 1"
- *Clearance:* 1" (Up to 12" Optional)
- *Speed:* 0-15,000 RPM/Variable
- *Motor:* 1/10hp DC Permanent Magnet
- *Bearings:* Three Class 7

Dimensions: 26" W x 31" D x 13" H

Weight: 68lb. Net / 81lb. Gross

*Recommended maximum engraving diameter 8.5 inches.

MODEL 240



HP3 Controller Specifications

Processor	32 Bit RISC
Communication	38.4 Kb
Drive Capability	Micro-Step
Maximum Output *	4in/sec
Resolution	12,800/inch
Drive Output	4 amps
Optional 4th Axis Cylindrical	Yes
Direct Numeric Control	Yes
Indexing Capability	Yes
True Arc Movement	Yes
True Bezier Movement	No
Programmable Setup	Yes
Integral Test Cycle	Yes
Internal Auto Fault Diagnostics	Yes
Programmable Spindle Offset	Yes
Stand Alone Operation	Yes
I/O Interface	Yes
Controlled Z-Axis	Yes
Engraving Time Display	Yes
2 1/2 Axis	Yes
3 Axis Option (3D)	Yes
Tools Supported	8
Variable Text	Yes
Serialization	Yes
Matrix	Yes
Batch	No
Independent Accel & Decel Control	Yes
Number of Feed Rates	65,000
Constant Speed	Yes
Back-up and Skip	Yes
Interface Protocol	HPGL, G/M Code
Integral Menus w/ LCD Display	Yes
Firmware Updates via FLASH	Yes
Numeric Keypad	Yes
Multiple Jobs in Memory	No
Manual Dwell Override	Yes
Manual Feed Override	Yes

*Machine dependent, specifications based on testing using Newing-Hall tables with 4:1 lead screw pitch.

300 SERIES





Model 300

Engraving Area: 247.5 Sq. In.
- *X-Axis Travel:* 16.5"
- *Y-Axis Travel:* 15"

Work-Holding Capacity
- *X-Axis:* 17"
- *Y-Axis:* Unlimited

Table Design: Open-Bed, Pass-Through
- *Table Type:* Drilled Table Plates or Dynagrip
- *Options:* Vacuum, T-Slot
- *Datum Detectors:* Optional

Vise: Optional
- *Holding Capacity:* Up to 16" L x 12" H
- *Vise Adjustment:* Up to 65° Rotation, 35° Tilt

Cylindrical: Optional
- *Holding Capacity:* .25" to 10.5" Dia. x 16" L*
- *Concentricity:* .002"

Spindle: 11/64" Diameter
- *Options:* 1/4", Collet, Diamond Drag
- *Actuation:* Adjustable Pneumatic (Stepper Optional)
- *Vertical Travel:* 1"
- *Clearance:* 1.125" (Up to 12" Optional)
- *Speed:* 0-24,000 RPM/Variable
- *Motor:* 1/5hp DC Permanent Magnet
- *Bearings:* Three Class 7
- *Multiple Spindles:* Available

Dimensions: 26" W x 31" D x 16" H

Weight: 68lb. Net / 81lb. Gross

Model 350

Engraving Area: 247.5 Sq. In.
- *X-Axis Travel:* 16.5"
- *Y-Axis Travel:* 15"

Work-Holding Capacity
- *X-Axis:* 17"
- *Y-Axis:* Unlimited

Table Design: Open-Bed, Pass-Through
- *Table Type:* Drilled Table Plates or Dynagrip
- *Options:* Vacuum, T-Slot
- *Datum Detectors:* Optional

Vise: Standard
- *Holding Capacity:* 16" L x 12" H
- *Vise Adjustment:* 65° Rotation, 35° Tilt

Cylindrical: Standard
- *Holding Capacity:* .25" to 10.5" Dia. x 16" L*
- *Concentricity:* .002"

Spindle: 11/64" Diameter
- *Options:* 1/4", Collet, Diamond Drag
- *Actuation:* Adjustable Pneumatic (Stepper Optional)
- *Vertical Travel:* 1"
- *Clearance:* 1.125" to 12" Adjustable
- *Speed:* 0-24,000 RPM/Variable
- *Motor:* 1/5hp DC Permanent Magnet
- *Bearings:* Three Class 7
- *Multiple Spindles:* Available

Dimensions: 26" W x 31" D x 49" H

Weight: 166lb. Net / 192lb. Gross

*Recommended maximum engraving diameter 8.5 inches.

300 SERIES

CONTROLLER SPECIFICATIONS





	HP3	AMC II
Processor	32 Bit RISC	32 Bit RISC
Communication	38.4 Kb	To 115 Kb
Drive Capability	Micro-Step	Micro-Step
Maximum Output *	4in/sec	4in/sec
Resolution	12,800/inch	8,000/inch
Drive Output	4 amps	4 amps
Optional 4th Axis Cylindrical	Yes	Yes
Direct Numeric Control	Yes	No
Indexing Capability	Yes	Yes
True Arc Movement	Yes	Yes
True Bezier Movement	No	Yes
Programmable Setup	Yes	Yes
Integral Test Cycle	Yes	Yes
Internal Auto Fault Diagnostics	Yes	Yes
Programmable Spindle Offset	Yes	Yes
Stand Alone Operation	Yes	Yes
I/O Interface	Yes	Yes
Controlled Z-Axis	Yes	Yes
Engraving Time Display	Yes	Yes
2 1/2 Axis	Yes	Yes
3 Axis Option (3D)	Yes	Yes
Tools Supported	8	8
Variable Text	Yes	Yes
Serialization	Yes	Yes
Matrix	Yes	Yes
Batch	No	Yes
Independent Accel & Decel Control	Yes	Yes
Number of Feed Rates	65,000	65,000
Constant Speed	Yes	Yes
Back-up and Skip	Yes	Yes
Interface Protocol	HPGL, G/M Code	ACL, HPGL, ISO G/M Code
Integral Menus w/ LCD Display	Yes	Yes
Firmware Updates via FLASH	Yes	Yes
Numeric Keypad	Yes	Yes
Multiple Jobs in Memory	No	Yes
Manual Dwell Override	Yes	Yes
Manual Feed Override	Yes	Yes

*Machine dependent, specifications based on testing using Newing-Hall tables with 4:1 lead screw pitch.

400 SERIES







Model 400

Engraving Area: 300 Sq. In.
X-Axis Travel: 20"
Y-Axis Travel: 15"
Work-Holding Capacity
X-Axis: 21"
Y-Axis: Unlimited
Table Design: Open-Bed, Pass-Through
Table Type: Drilled Table Plates or Dynagrip
Options: Vacuum, T-Slot
Datum Detectors: Optional
Vise: Optional
Holding Capacity: 16" L x 12" H
Vise Adjustment: 65° Rotation, 35° Tilt
Cylindrical: Optional
Holding Capacity: .25" to 10.5" Dia. x 16" L*
Concentricity: .002"
Spindle: 11/64" Diameter
Options: 1/4", Collet, Diamond Drag
Actuation: Adjustable Pneumatic (Stepper Optional)
Vertical Travel: 1"
Clearance: 1.125" (Up to 12" Optional)
Speed: 0-24,000 RPM/Variable
Motor: 1/5hp DC Permanent Magnet
Bearings: Three Class 7
Multiple Spindles: Available
Dimensions: 30" W x 31" D x 26" H
Weight: 72lb. Net / 85lb. Gross

Model 450

Engraving Area: 300 Sq. In.
X-Axis Travel: 20"
Y-Axis Travel: 15"
Work-Holding Capacity
X-Axis: 21"
Y-Axis: Unlimited
Table Design: Open-Bed, Pass-Through
Table Type: Drilled Table Plates or Dynagrip
Options: Vacuum, T-Slot
Datum Detectors: Optional
Vise: Standard
Holding Capacity: 16" L x 12" H
Vise Adjustment: 65° Rotation, 35° Tilt
Cylindrical: Standard
Holding Capacity: .25" to 10.5" Dia. x 16" L*
Concentricity: .002"
Spindle: 11/64" Diameter
Options: 1/4", Collet, Diamond Drag
Actuation: Adjustable Pneumatic (Stepper Optional)
Vertical Travel: 1"
Clearance: 1.125" to 12" Adjustable
Speed: 0-24,000 RPM/Variable
Motor: 1/5hp DC Permanent Magnet
Bearings: Three Class 7
Multiple Spindles: Available
Dimensions: 30" W x 31" D x 49" H
Weight: 180lb. Net / 206lb. Gross

Model 460

Engraving Area: 300 Sq. In.
X-Axis Travel: 20"
Y-Axis Travel: 15"
Work-Holding Capacity
X-Axis: 21"
Y-Axis: Unlimited
Table Design: Open-Bed, Pass-Through
Table Type: T-Slot & Table Plates or Dynagrip
15" Vertical Travel, 90° Tilt
Options: Vacuum, Dynagrip
Datum Detectors: Optional
Vise: Optional
Holding Capacity: 16" L x 12" H
Vise Adjustment: 360° Rotation, 90° Tilt
Cylindrical: Optional Single/Dual
Holding Capacity: .25" to 10.5" Dia. x 16" L*
Concentricity: .002"
Spindle: 11/64" Diameter
Options: 1/4", Collet, Diamond Drag
Actuation: Adjustable Pneumatic (Stepper Optional)
Vertical Travel: 1"
Clearance: 1.125" to 15" Adjustable
Speed: 0-24,000 RPM / Variable
Motor: 1/5 hp DC Permanent Magnet
Bearings: Three Class 7
Multiple Spindles: Available
Dimensions: 30" W x 31" D x 62" H
Weight: 372lb. Net / 425lb. Gross

*Recommended maximum engraving diameter 8.5 inches.

600 SERIES





Model 600

Engraving Area: 720 Sq. In.
- *X-Axis Travel:* 30"
- *Y-Axis Travel:* 24"

Work-Holding Capacity
- *X-Axis:* 31.75"
- *Y-Axis:* Unlimited

Table Design: Open-Bed, Pass-Through
- *Table Type:* Tooling Plate
- *Options:* Vacuum, T-Slot, Dynagrip
- *Datum Detectors:* Optional

Vise: Optional
- *Holding Capacity:* 16" L x 12" H
- *Vise Adjustment:* 360° Rotation, 35° Tilt

Cylindrical: Optional
- *Holding Capacity:* .25" to 10.5" Dia. x 16" L*
- *Concentricity:* .002"

Spindle: 11/64" Diameter
- *Options:* 1/4", Collet, Diamond Drag
- *Actuation:* Adjustable Pneumatic (Stepper Optional)
- *Vertical Travel:* 1"
- *Clearance:* 1.125" (Up to 12" Optional)
- *Speed:* 0-24,000 RPM/Variable
- *Motor:* 1/5hp DC Permanent Magnet
- *Bearings:* Three Class 7
- *Multiple Spindles:* Available

Dimensions: 40" W x 41" D x 26" H

Weight: 240lb. Net / 280lb. Gross

Model 650

Engraving Area: 720 Sq. In.
- *X-Axis Travel:* 30"
- *Y-Axis Travel:* 24"

Work-Holding Capacity
- *X-Axis:* 31.75"
- *Y-Axis:* Unlimited

Table Design: Open-Bed, Pass-Through
- *Table Type:* Tooling Plate
- *Options:* Vacuum, T-Slot, Dynagrip
- *Datum Detectors:* Optional

Vise: Standard
- *Holding Capacity:* 16" L x 12" H
- *Vise Adjustment:* 360° Rotation, 35° Tilt

Cylindrical: Standard
- *Holding Capacity:* .25" to 10.5" Dia. x 16" L*
- *Concentricity:* .002"

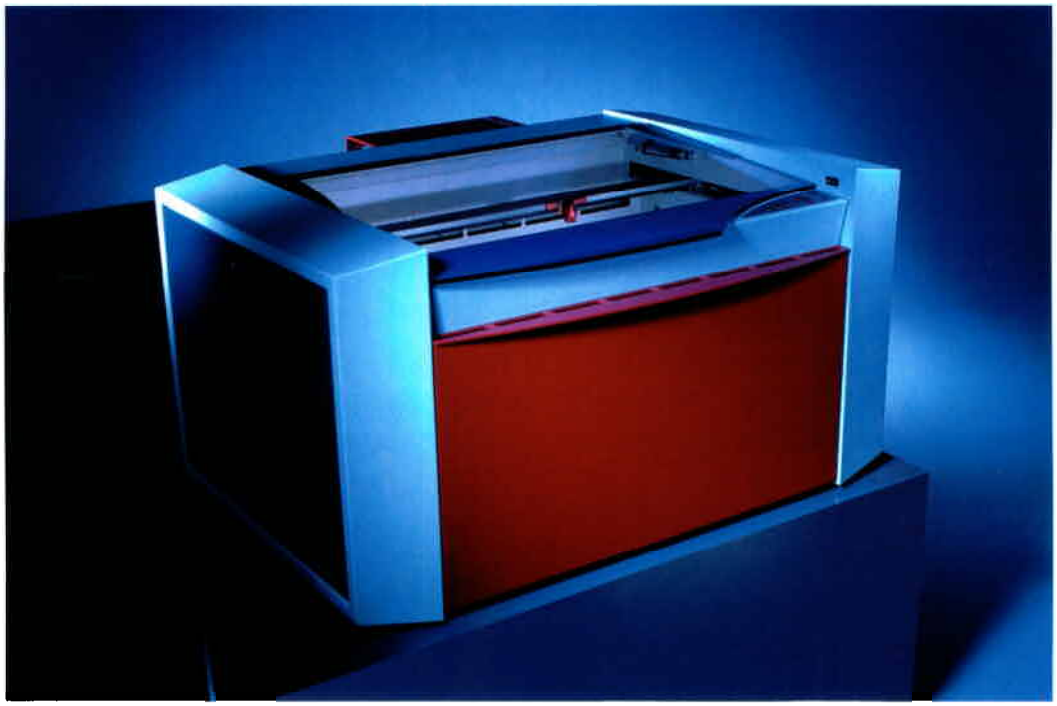
Spindle: 11/64" Diameter
- *Options:* 1/4", Collet, Diamond Drag
- *Actuation:* Adustable Pneumatic (Stepper Optional)
- *Vertical Travel:* 1"
- *Clearance:* 1.125" to 12" Adjustable
- *Speed:* 0-24,000 RPM/Variable
- *Motor:* 1/5hp DC Permanent Magnet
- *Bearings:* Three Class 7
- *Multiple Spindles:* Available

Dimensions: 40" W x 41" D x 62" H

Weight: 415lb. Net / 480lb. Gross

*Recommended maximum engraving diameter 8.5 inches.

SPEEDY LASER



SPEEDY LASER

Laser Power: 25 to 100 Watts
Maximum Speed: 78" per second
Engraving Area: 29"x 17.3"
Standard: Red Dot Laser Pointer, Auto Focus, Electronic Z-Axis
Accessories: Rotary Attachment, Air Assist, Cutting Table
Resolution: Up to 1000 PPI
Electrical Requirements: 110 Volts

- "Quick Fire" Mode for Quality Marking
- 3 Year Warranty
- 3-D Engraving
- Enclosed Mechanics for Precision Engraving and Dust Protection
- Servomotors

"Machine-talks-back" software for easy positioning, filter analysis, machine check, and database of engraved objects with time indication and export function.

SPEEDY LASER

SPEEDY LASER

Space

At 42" x 35" the Trotec Laser fits in almost anywhere without compromising the engraving area. A generous 29" x 17.3" engraving area allows ample space for most work.

A.D. - Logic System Advanced Driver Logic

Layout to finished job is easy using A.D. logic software. Combining a graphic package (such as CORELDRAW™) with the Trotec Manager offers fast, error-free engraving. Predefined materials, online filter information and automatic cutting lines are all features that will add to your profits.



Communication

Total communication between your computer and the laser means high standards of engraving. Automatic focusing and on-screen laser pointer, with visual cross, put you in complete control. This allows the laser to engrave with accuracy and precision.

Speed

A maximum speed of 78 inches per second saves you money. The Trotec Laser engraves your job quickly, with the highest possible precision using the software's "Quick Fire Method".

Mechanics

Trotec sets milestones in mechanics. The fully enclosed rail system without pulleys offers absolute precision engraving. The new "In-pack" system keeps the optics and moving parts hidden and protected from dust.

Material	Engraving	Cutting
Rubber	Yes	Yes
Acrylic plastic cast	Yes	Yes
Acrylic plastic extruded	Yes	Yes
Metal laminated	Yes	No
Tin, Stainl. Steel (w. paste)	Yes	No
Aluminum anodized	Yes	No
Cork	Yes	Yes
Cardboard	Yes	Yes
Delrin (Seal Presses)	Yes	Yes
Glass	Yes	No
Leather	Yes	Yes
Marble	Yes	No
Syntheic materials (special)	Yes	Yes
Wood	Yes	Yes

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