



CHAMPION 305TC/370TC PROGRAMMABLE PAPER CUTTERS

PRODUCT OVERVIEW



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The Champion series of paper cutters continue to forge the Challenge tradition of innovation, delivering strength, reliability, and easy to use controls to the 30" and 37" cutter markets.

SAFE

Challenge cutters are designed and made to the highest safety standards in the market. Standard safety features begin with a state-of-the-art light beam curtain system and a two-hand timed cut activation system that protect the operator specifically in the cutting zone. A dedicated push-out button moves stock out from under the knife & clamp, and the soft pre-clamping system protects the operator during normal handling of material. The Champion's safety systems are assured by 3rd party oversight through UL and cUL listing and meet CE (European) and ANSI (North American) requirements.

PRECISE

The foundational purpose of a paper cutter is precise cuts. The Champion cutting performance is accurate within +/- 0.002" (0.05mm). Powerful hydraulic clamping and cut systems provide the needed force to hold stocks in place until the cut cycle is completed. Repetitive cuts, whether they are entered manually, programmed into a job, or calculated using the machine's computer, will result in the most accurate cuts possible.

DURABLE

As the most experienced manufacturer of paper cutters in the world (since 1887), Challenge is famous for building machines that last. The Champion's construction remains true to reputation providing decades of consistent quality cutting. Solid steel construction and elite durable materials provide reliable performance in production environments of one to two shift daily operations. USA Made Challenge cutters lead the competition as the lowest cost of ownership for the life of the equipment in their respective market sizes.

ERGONOMIC

For higher volume production, Challenge offers an exclusive Ergo-Touch cut button option to minimize the threat of repetitive stress injury. With this option, the spring loaded cut buttons are replaced by two light activated switches which will reduce hand and wrist fatigue while maintaining maximum safety.

LOW MAINTENANCE

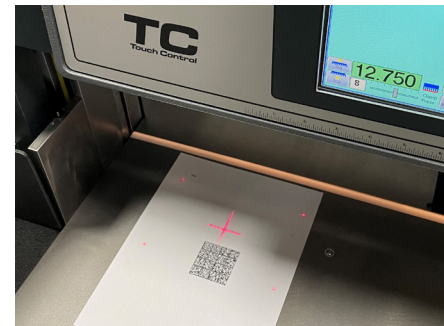
- Stainless steel table - a rust-free robust solid 1 inch (25mm) thick metal table front to back. No hydraulic paper cutter in the marketplace comes close to matching the solid construction of this table.
- Easy access to a minimal amount of lubrication points.
- Ultra High Molecular Weight pads on the knife bar guides never require grease, and remain slick and smooth through millions of cut cycles.
- Composite bushings on knife bar and clamp linkages eliminate any lubrication maintenance.



Stainless table close up

BARCODE READY

The TC control system can be equipped with an optional barcode reader to run multiple production lots quickly and efficiently. Once the job arrives at the cutter, simply scan the barcode printed on the job ticket or in the bleed area and the cutting program will load into the machine. The barcode contains all cutting commands or it can refer to a pre-programmed job name already stored in memory. All required hardware and the easy-to-use PC-based software to generate the 2-D barcode are included with the option. No additional hardware costs or annual fees are required. Any future software upgrades will be available free of charge.



Barcode reader

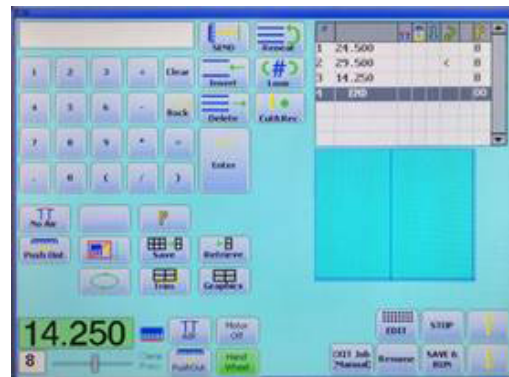


CHAMPION STANDARD FEATURES

- 305 model - 30.5" cutting width and 4" clamp opening
- 370 model - 37" cutting width and 5.13" clamp opening
- Hydraulic clamping and cutting
- Electronic controlled adjustable clamp pressure
- Soft power foot pedal activated pre-clamping
- Micro backgauge adjustment using front table knob or control screen
- Cut line-light indicator
- False Clamp plate (book trimming false clamp plate optional)
- Air assist on main table
- Lighted work surface
- Motor runs during cut cycle only or can be set to run continuously
- Standard side tables 18" x 24" each side for 305TC and 24" x 36" each side for 370TC.
Optional 24" x 36" air side tables for either model

TC CONTROL SYSTEM

- 10.5" color touch screen controller
- Clean layout and easy to navigate software
- Graphical display of program layout
- Auto programming sheet division feature
- Easy to use operator prompts and assistance
- Programmable clamp pressure control per each cut
- Repeat and loop commands to simplify program entry
- USB port for expandable memory storage
- Compatible with .csv files for offline programming



SUMMARY OF FEATURES

- Hydraulic powered clamping and cutting
- Durable - built to last for decades

SAFETY FEATURES

- Light beam curtain system in the cutting area
- Mechanical knife latch system
- Two-hand monitored cut buttons
- optional ergonomic cut switches
- Enclosed rear table
- Push-out function
- Soft pedal pre-clamping system
- ANSI and CE Safety Standard compliance

- Stainless steel/rust free table and side tables
- Barcode reading capable with optional kit
- Powerful TC Control system
- Two HHS knives, false clamp plate, four cutting sticks, wood jogging aid, tool kit, knife change holder assembly, and operators manual included
- 2-year warranty
- UL, cUL, CE certified
- Manufactured in the USA

SPECIFICATIONS

	305TC	370TC
Maximum Cutting Width	30 -1/2" / 77.5 cm	37" / 94 cm
Maximum Cut: without false clamp plate	3/4" / 19 mm	3/4" / 19 mm
w/ false clamp plate	1-7/8" / 48 mm	2-5/8" / 67 mm
Maximum Cut Depth	30-1/2" / 77.5 cm	40" / 102 cm
Clamp Opening: without false clamp plate	4" / 102 mm	5-1/8" / 130 mm
w/ false clamp plate	3-3/4" / 95 mm	4-7/8" / 124 mm
Clamping Method	Hydraulic	Hydraulic
Maximum Clamping Force	5000 lbs / 2200daN	7000 lbs / 3100daN
Minimum Clamping Force	1414 lbs / 628daN	1963 lbs / 873daN

DIMENSIONS

	305TC	370TC
Table Space: in front of knife	25" / 63.5 cm	25" / 63.5 cm
Table Height	36-1/2" / 94 cm	36" / 92 cm
Overall Height	58-1/2" / 149 cm	60" / 153 cm
Overall Width: w/side tables	78-1/2" / 200 mm	109" / 277 mm
without side tables	51" / 130 cm	63-1/2" / 162 cm
Overall Length	71" / 180 mm	87" / 221 mm
Mounting Dimension	45-1/2" / 115.6 cm	60-1/4" / 153 cm
Door Pass-through: assembled	51" / 130 cm	63-1/2" / 162 cm
w/ table/treadle removed	42" / 106 cm	36" / 91 cm
w/ table/treadle/power unit removed	29" / 74 cm	N/A
Net Weight (approximate)	2190 lbs / 995 kg	3750 lbs / 1701 kg
Shipping Weight (approximate)	2530 lbs / 1,150 kg	4600 lbs / 2086 kg

ELECTRICAL CE

- 305 Standard Motor:** 5 H.P., 3 phase, 60 Hz, AC, 208/230 Volts, 25 Amps, Service size 40 Amps
 Single Phase Supply Kit: K-3482
 OPTIONAL: 5 H.P., 3-Phase, 50 Hz, 380/415 Volts, 10 Amps, Service Size 20 Amps
- 370 Standard Motor:** 10 HP, 3 phase, 60 Hz, AC, 208/230 Volts, 38 Amps, Service size 60 Amps
 OPTIONAL: 10 H.P., 3-Phase, 50 Hz, 380/415 Volts, 20 Amps, Service Size 30 Amps



Established 1902
Northern
 machine works

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