
Sägen

Hobeln

Fräsen

MARTIN

# T70 Sliding-Table Saw

Englisch

**The MARTIN sliding-table saws provide cutting-edge performance for the long-term!**
**Apart from maximum precision and long life, MARTIN offers major components that can be updated as time marches on.**

MARTIN


# The T70 a high-end sliding-table saw that sets industry standards

**The T70, like every MARTIN machine, is built for maximum performance. The sturdy mechanical design and the unique and user friendly 10.4“ touch screen controller perfectly complement each other. MARTIN does not only set industry standards when it comes to technology but also when it comes to user-friendliness. The operator is guided through individual work processes step by step by the controller that can also be customized if desired.**

**Cutting-edge control technology**

The core of the new T70 is a powerful and user friendly touchscreen controller with a 10.4” monitor. The operator is guided through complex work processes easily, quickly and accurately. All relevant information is visible at a glance. Even the basic T70 allows the operator to control three axes for the cutting height, cutting angle and cutting width. The T70 can be optionally be equipped with a motorized cross cut fence as well as a miter cross cut table as fourth and fifth axes. If the machine is equipped with the patented 3-axis scoring saw, it is also integrated in the controller. With a T70 you can work with up to eight linked axes which considerably reduces set-up times.

**Powerful cut up to 204 mm in height**

The massive cutting height of 204 mm and the tilting angle of 0 to 46° provides greater flexibility for complex tasks. With the ProLock-System, the main as well as the scoring saw blades can be replaced quickly and easily. The rotational speed can be changed behind the main saw blade through an opening in the cast iron trunnion. With the optional variable speed control, the RPM’s can be adjusted to a wide variety of different man-made materials. You simply enter the desired rotational speed of the saw blade without having to turn off the machine.

**Blade changes done quickly and accurately**

Simply enter the abbreviation of the saw blade in use. The tool conversion system immediately considers important criteria such as diameter, plate thickness and blade kerf. This way you make sure that your calcu-

Easy rotational speed change

Operation at a glance

Automatic lowering of the rip fence

T70

## T70 with accessories

| | |
|---|---|
| **T7009/2** | Cutting width 1.100 mm |
| **T7023** | Electrically adjustable 3-axis scoring saw unit |
| **T7050** | “RadioCompens“ miter cut system |
| **T7067** | Foldable front support table |
| **T7073** | Laser cutting line indication |
| **T7074** | Pneumatic lowering of the rip fence below table level |
| **T7076** | Variable rotational speed control of the main saw blade |

lations, settings and cuts are always accurate, regardless of what saw blade you use. If the saw is ordered with the patented 3-axis scoring unit, the scoring unit automatically adjusts to the kerf of the main saw blade that has been selected.

**Length compensation made easy**

The optional “RadioCompens“ angle cutting system reduces set-up times for angled cuts on the T70 by more than 80%. You simply set the radio controlled miter cross-cut table to the desired cutting angle. The radio-controlled electronics take care of the rest. You always get the correctly calculated measurements on both displays of the digital length stops included in this package.

Should you choose the “Control” miter cut system you can further reduce set-up times. With the motorized crosscut stops and the mitre cross-cut table that is radio connected to the controller, you get full electronic support for the automatic length compensation of miter cuts as well as complex compound miter cuts. The optional data interface of the T70 to an office computer makes it possible to send optimized part lists or whole work plans to the machine. This way the machine operator is guided through the work process very efficiently which leads to more accurate results and efficient use of the resources at hand.

**Safety and comfort**

It was very important to our engineers that the saw-blade guard of the T70 provides good functionality. A saw blade that extends up to 204 mm has to be completely covered by a wider guard without interfering with the operator’s work process. The blade guard is equipped with a sensor so the controller can monitor the allowed cutting angle which creates the perfect zone of protection.

# Technology in detail

**Solid machine frame [1]**

The T70's solid and heavy machine frame that is reinforced with a concrete composite is unique and in the woodworking machinery industry only to be found on MARTIN machines with this technical perfection. Otto Martin invented this method of construction in the 1920s and had it registered as a patent back then. Today, after 90 years of continual improvement, MARTIN still uses this simple and effective type of frame construction. The combination of steel and concrete create a high quality machine frame that is unparalleled when it comes to sturdiness, absorbing capacity and torsion resistance. This design has been proven to have up to six times the vibration dampening properties than that of a traditional cast-iron or welded frame.

**Sturdy and precise cross-cut fence**

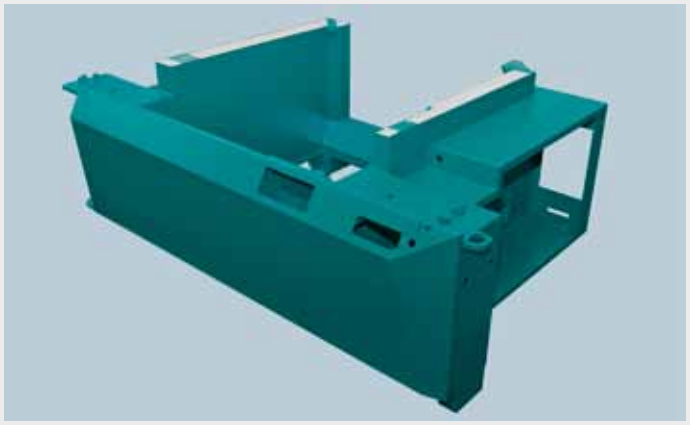
All of our T70 machines are equipped with the unique MARTIN 2-point cross cut fence.The crucial advantage of this fence is that it offers two-point support for the workpiece. This system is useful, especially if you work with thin, flexible material. The straightened material is aligned seamlessly along the fence making for a precise cut every time. The quality ball bearing construction of the 2-point stop allows it to glide easily from one position to another. Due to the robust closed aluminum profile, the fence is unaffected by dirt or dust. The magnifying glass, an easy to read scale and standard fine adjustment of the inner stop element ensure accurate cuts from 190 – 2020 mm. Lengths of up to 3310 mm can be cut using the extendable outboard stop. The cross-cut fence can be positioned in either the forward or rear position on the cross-cut table. In either position the miter angle can be infinitly adjusted to a scale up to 50°. The exact compensated calculation of the cut is performed by the controller.

**Reliable sliding-table [2]**

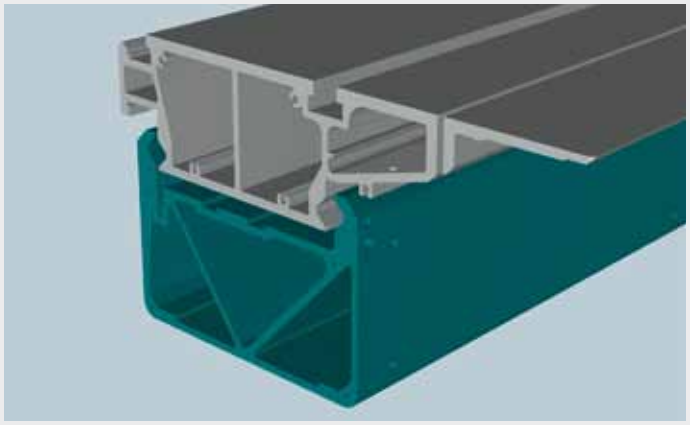
The MARTIN hardened steel guide system that has been steadily improved since 1959, is the core of every sliding-table saw. The unbeatable technical advantage of this system is that it allows for the permanent smooth and precision guidance of the table. The hardened steel guide strips are permanently lubricated in oil to make sure that the surfaces are unaffected by dust and chips. The hardened guide strips are cleaned every time the operator strokes the table and is the only way to permanently ensure a smooth and easy movement of the sliding-table over time. Another important quality characteristic is that no plastic parts were used in the construction of this component; a valuable consideration when it comes to cut quality.
Another unique MARTIN standard is the replaceable table lip that is bolted to the main sliding-table extrusion. This makes it easy to repair damage caused by deflected saw blades. The table can also be locked down every 20 mm along the length of the machine. Whether you work with various cutting devices or load the table down with heavy material, the MARTIN sliding-table is always positioned where you need it.

**Scoring saw for all requirements**

A scoring saw prevents workpiece tear-out on the edges of decorative veneered and laminated panels. Two scoring units are available for the T70. Both units can be turned on and off and positioned electrically via the operator control panel while the lifting and lowering is done pneumatically. The 2-axis system automatically adjusts left/right in relation to the right shoulder of the main saw blade in use; the scoring height has to be entered in the controller. Adjustment is always made automatically to every main saw blade stored in the tool menu. The kerf width is adjusted with stacked shims. The saw blades as well as the flange can be removed quickly and easily and saw blades of up to 550 mm in diameter can be used. With the



**[1]** T70 steel/concrete composite machine frame



**[2]** Sliding-table with replaceable table lip

# Technology in detail

ScribeMaster saw blade system, the kerf width can be adjusted in a matter of seconds. Set-up times can be reduced by 10 to 15 minutes with this system as the time-consuming de-mounting of the two-part scoring blades and the flanges can be avoided. The scoring width is infinitely variable within a range of 2.8 to 3.6 mm in relation to the cutting width of the main saw blade without removing the whole unit.
With the patented MARTIN 3-axis scoring saw system, you can adjust the blade including the scoring blade kerf width while the machine is running. The fully integrated scoring saw is linked to the touchscreen's tool menu, allowing the automatic positioning of the scoring saw width to match every main saw blade that has previously been entered in the controller. The system needs to be calibrated only once. Time-consuming sample cuts are avoided almost completely. The scoring width is infinitely variable within a range 2.8 to 4.8 mm. Thanks to the unique MARTIN tool-less quick change system the scoring blades can be easily removed. The whole blade unit can be removed within seconds and saw blades of up to 550 mm in diameter can be used.

**Rip fence [3]**
The T70 is equipped with a motorized rip fence as standard that helps you position the cutting width quickly and precisely. The intuitive touch screen controller helps to substantially reduce human errors when it comes to measuring and helps to contribute to the perfect cut. The precision rip fence's wear-free grooved ball-bearing guide system further ensures precise positioning and a high degree of angular precision over the entire cutting width. The rip fence glides over the machine table smoothly, unaffected by dust and chips.
The unique MARTIN design makes the lowering of the rip fence below the table level quick and easy. This allows even long workpieces to be sawn. If the rip fence profile is laid on its side for veneer overhang applications, the controller senses this and compensates for the change in cutting width. To manually move the rip fence, simply press the button located on the fence and set to the desired postion.

**Miter cross-cut table / RadioCompens system / ParaGlider [4]**
Otto Martin invented the miter cross-cut table more than 50 years ago to enable operators to make precise angle cuts on larger panels. Since then this popular accessory has been steadily improved and optimized. In 1958 a scale was sufficient to set miter cuts. Today, a modern digital angle display is integrated in the table. The table can be adjusted to any angle up to 47° with a resolution of 0.01°. A rigid central lock ensures exact repeatability when restoring the table to 0°. It is not without good reason that more than three quarters of all the customers that buy MARTIN sliding-table saws opt for the sturdiness, functionality and precision of this convincing invention. When using the cross-cut fence for precise angular cuts, compensation for the offset of the length measurement is also necessary. With the "RadioCompens" system, the table is moved to its miter position and the workpiece length is automatically compensated for. After setting the table angle, both digital displays show the adjusted cutting length, reducing set-up times to a minimum.

**[3]** T70 rip fence

**[4]** T7050 "RadioCompens" miter cut system

# Technology in detail

**Modern control system technology [5]**

The T70 is also equipped with the efficient and user friendly touchscreen controller, that has been a MARTIN standard since 2006. Step by step, the operator enters all the necessary parameters and is guided through the process by the controller. All the necessary adjustments are done automatically. This speeds up work and leads to a more intuitive understanding of the machine's function by the operator. MARTIN developed the user interface in close cooperation with industrial graphic designers and machine operators. The operating logic is based on what woodworkers need. All relevant information is visible at a glance. The controller always boots up to the „HOME" page where you get a quick overview on all the important settings like cutting height, cutting angle and fence positions.

**Easy to operate [6]**

To enter a new value for a particular axis into the controller, just touch the respective number field. The screen immediately changes its input mode, enabling you to enter new numerical values. The numeric keypad not only indicates the minimum and maximum allowable input values that the machine will take, but also memorizes the last five input values for rapid recall. The integrated calculator can also be used if necessary. On the „HOME" page, rapid access icons can be created and unused icons can be deleted. This way you can keep track of the current machine values. For the precision calculation of your cuts and quick tool change you can store up to 100 different saw blades in the tool menu. A saw blade that has been stored once is immediately available and fully integrated in the controller. This way the 3-axis scoring unit automatically adjusts to the kerf of the main saw blade. Time consuming test cuts can be omitted almost completely and you can concentrate on the task at hand.


**[5]** Clearly arranged "Home" page


**[6]** Integrated tool conversion

# Technology in detail

**Powerful assistance**
For performing special work on a sliding-table saw like cutting grooves, rabbets and tongue-and groove joints, the MARTIN controller offers an efficient assistant. Step by step the operator enters all the necessary parameters and is guided through the work process by the controller. This way even untrained machine operators soon become experts.

**Calculating for experts**
The MARTIN controller also supports you when you have to calculate angle cuts, false mitre cuts or even specialized cuts for making European-style benches. With these intuitive calculation tools, even complex calculations can be made right the first time. You simply enter the measurements of the workpiece in the controller and it calculates the correct values for you.

**Always up-to-date**
A MARTIN machine is a safe and long-term investment since its controller can be updated as time marches on. We at MARTIN are continuously improving our software. The controllers can be upgraded in field with an USB stick. This way you always have access to new cutting aids or updates of existing applications.

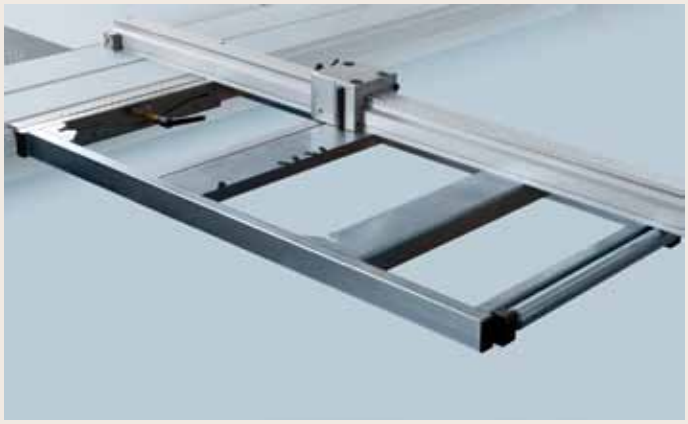
**A profile for every user [7]**
Customization of the controller is possible for over 25 languages using Latin/Cyrillic character sets. By defining individual user profiles (up to 10 depending on the size of the controller) the controller can not only be adapted to different languages but also to the professional experience of the individual machine operators. Different user profiles can be password protected so each machine operator can get restricted or unrestricted access to the menu items. This password protection of the user profiles prevents misuse by untrained employees increasing job safety and leading to more accurate results.

**Support from the office [8]**
The machine can be connected to a computer by an optional data interface. This way the T70 can be connected to the MARTIN editor or to other panel-cutting optimization software programs like ARDIS®, Boole&Partner®, Vlecad®, CAD-code® or PatternSystems®. With the optional CPOUT interface you can connect your machine to almost any software that you would like to use. This way the machine operator is guided through the work process very efficiently which leads to more accurate results and efficient use of the resources at hand.


**[7]** More security with individual user profiles


**[8]** Panel optimization – no problem

# Accessories



T70 standard cross-cut table

Standard fixed angular detents

**Standard cross-cut table with cross-cut fence**

The light and sturdy MARTIN cross-cut table (1400 x 700 mm) is a standard component of all T70 saws. It can be easily clamped with one hand to any point along the whole length of the sliding-table. The outboard table support roller simplifies the moving of larger workpieces and prevents damage to delicate panel surfaces. The standard cross-cut fence with 2-point support can be positioned in either the forward or rear position on the cross-cut table, enabling the stops to be positioned quickly for the task at hand. The large angle scale is integrated into the table. The T70's standard cross-cut table allows accurate angled cuts to be made between 0° and 50° by a simple adjustment of the cross-cut fence. The fixed angle detents integrated into the table facilitate the rapid cutting of common angles (22.5°/30°/45°). The exact compensated calculation of the miter cut is performed by the controller. By entering the workpiece width and angle, and the desired length into the controller, the operator is prompted to make the adjustment to the stop.

Standard analog 2-point cross-cut fence


T7042 digital 2-point cross-cut fence

**Analog and digital 2-point cross-cut fences**

All T70 machines are equipped with the proven MARTIN 2-point cross-cut fence as standard, which allows both solid wood or man made panels to be aligned at two points along the fence extrusion. This system enables panels with even slightly concave edges, caused by internal tension, to be cut accurately. The magnifying glass, an easy-to-read scale and standard fine adjustment of the 2-point stop element ensure accurate cuts from 190 to 2020 mm. The 2-point stop's clamping element design allows the operator to rapidly make adjustments with little effort. Lengths up to 3310 mm can be cut using the extendable outboard stop. If you prefer working with digital readouts, the T7040 digital cross-cut fence may be the right choice for you. Both the inner and outer stop use separate measuring devices and can be set independently from each other with an accuracy of a tenth of a millimeter. Read-outs can be switched to a relative measurement mode, which is especially helpful when making incremental cuts.

T7035 Miter cross-cut table

T7050 “Radio-Compens” angle cutting system

**Miter cross-cut table**

For more than 50 years now the MARTIN miter cross-cut table has been setting standards in terms of flexibility. With the digital angle display integrated in the table, miter cuts can be set easily and accurately. The table offers full support of the workpiece at every angle. The table and fence move with the MARTIN parallelogram table design; not just the fence. The table is unlocked by actuating a handle under the table allowing it to be adjusted within a range of ± 46.50° via an LCD display. Thanks to the 3-piece protected swing-arm design the cut quality is not compromised.

The innovative MARTIN „Radio-Compens“ angle cutting system in conjunction with the miter cross-cut table and motorized crosscut stop creates a whole new vision of productivity for tomorrow’s woodworkers and cabinetmakers. Set-up times for angled cuts can be reduced by more than 80%. You simply set the miter cross-cut table, which is connected to the controller via radio signal, to the desired cutting angle. The radio-controlled electronics take care of the rest.

T7041 Analog continuous contact cross-cut fence

T7043 Digital continuous contact cross-cut fence

**Analog and digital continuous contact cross-cut fences**

The MARTIN 2-point cross cut fence system offers many unique and superior operating characteristics to the custom woodworker. Alas, at first not everyone feels comfortable with this system. For those who prefer the more traditional flip stop, the T70 can be equipped with a continuous contact cross-cut fence. This system is useful, especially if you work a lot with thin, flexible material. The straightened material is aligned seamlessly along the fence making for a precise cut every time. The stop element closest to the blade can be adjusted accurately with the fine adjustment in relation to the scale and magnifying glass. The stop element’s quick clamp facilitates a rapid stop adjustment from 205 to 2020 mm. Lengths of up to 3310 mm can be cut using the outboard extendable stop. The digital variant of the fence provides maximum accuracy. Two easy-to-read LCD displays operate independently from each other and the measurements are displayed with an accuracy of 0.1 mm. Read-outs can be switched to a relative measurement mode, which is helpful to the operator when making incremental cuts.

# Accessories

T7038 Counter miter fence

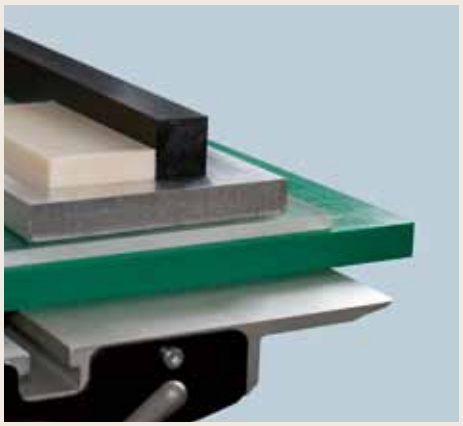
**Counter miter fence**
The counter miter fence is an ideal addition to the T70's cross-cut fence for cutting acute mitered angles. The device can be mounted easily, allowing the operator to cut any angle between 0° and 45°.

T7072 Edging device

**Edging device**
The cutting of overhang on veneered or laminated panels is just one of the many applications for the edging device. Simply attach this device to the rip fence. This device can also be used for straight lining solid stock as a substitute for a laser.

T7067 Front support table

**Front support table**
Long, narrow workpieces can be cut more efficiently by using a suitable support table. The foldable front support table helps to guide the workpiece safely along the rip fence.



T7080 Spraying device for the main saw blade

**Spraying device**
With the spraying device, even plastic or non-ferrous metals can be cut easily. The spraying heads spray both sides of the saw blade with a coolant or lubricant. The lubricant container and the pneumatic unit are mounted in an easily accessible area for the operator.

T7068 Second support with T7055 parallel cutting stop

**Second support and parallel cutting stop**
The second support assists the operator in the truest sense of the word. Simply attach it to the sliding-table for easy handling of large panels. The workpieces are safely supported by the 600 mm long support and can be indexed against the optional parallel cutting stop, when ripping long material with the sliding-table.

T7065 Roller support for standard cross table

**Roller Support**
To make use of the full movement range of a sliding-table of over 3.7 m or to handle very heavy material, MARTIN recommends using the roller support. The support runs on a floor mounted track with integrated wipers to keep the track clear.

T7023 Electrically adjustable 3-axis scoring saw unit


Fully integrated in the controller

**Electrically adjustable 2-axis and 3-axis scoring saw**

The 2-axis system is completely user-friendly. Full integration into the touch-screen controller facilitates the input of all necessary settings. The left/right positioning of the scoring saw in relation to the right shoulder of the main blade and the scoring height is adjusted automatically. The kerf width is adjusted with stacked shims. If you combine the 2-axis scoring saw with the T7022 ScribeMaster saw blade system, the kerf width can be adjusted in a matter of seconds. With inserted scoring saw blades you can use main saw blades of up to 400 mm in diameter. If you remove the scoring saw blades and the flange you can easily work with saw blades of up to 550 mm in diameter. The patent pending MARTIN 3-axis scoring saw system is fully integrated in the controller and facilitates the input of all necessary settings. The fully integrated scoring saw is linked to the touchscreen's tool menu, allowing the automatic positioning of the scoring saw width to match every main saw blade that has previously been entered into the controller. The system needs to be calibrated only once. Time-consuming sample cuts are avoided almost completely. Thanks to a quick clamping system the scoring unit of the 3-axis scoring saw can be completely removed or changed within seconds. This is important, especially if you want use saw blades in excess of 400 mm in diameter. Time consuming procedures are avoided almost completely.

T7052 "Control" miter cut system

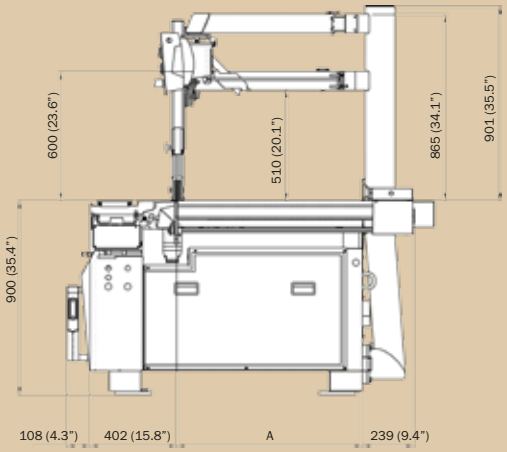
Cutting lengths up to 3300 mm

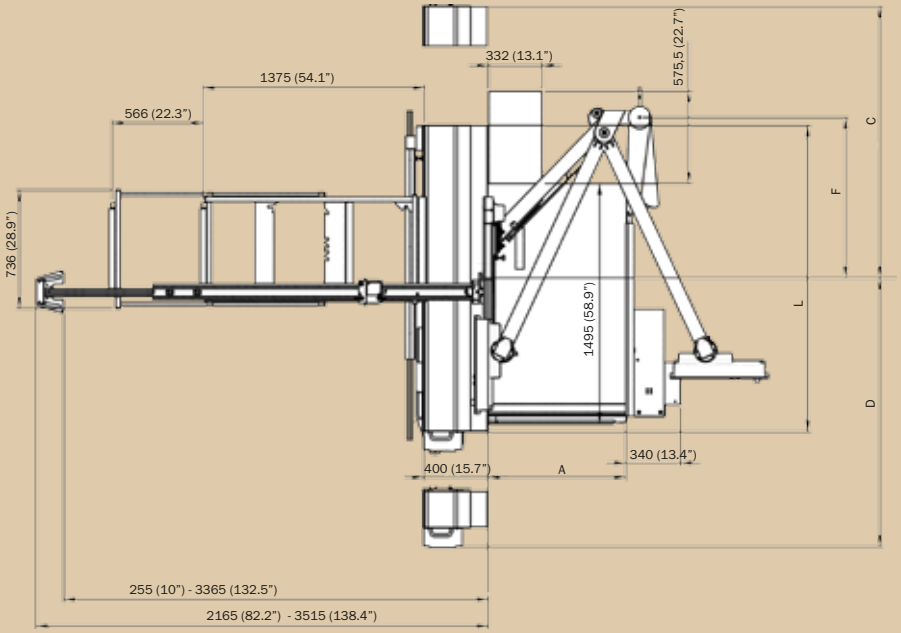
**„Control" angle-cutting system with motorized cross-cut fence**

The T70 „Control" miter cut system is made up of a whole package, which combines the motorized cross-cut fence and the miter cross cut table. The cutting height, cutting angle, rip fence, cross-cut stop and miter table angle are all fully integrated into the controller. You specify the necessary length and width dimensions and the controller positions the saw blade and crosscut stops for you! The compensation offset when making angular cuts is fully automated. The miter cross-cut table, which is connected to the controller via a bus line, forwards the angle data directly to the controller; the length compensation is performed automatically once the table is moved to the desired angle. The „Control" miter cut system transforms your T70 into a true miter-cutting workhorse. The T70 „Control" miter cut system comes equipped with two integrated flip stop's with a range from 100 to 3300 mm. The respective stop is indicated to the operator by a bright LED light. If you work with longer workpieces, you will particularly appreciate the extendable workpiece support, which is included in the package as standard.

# Technical specifications

**The T70**

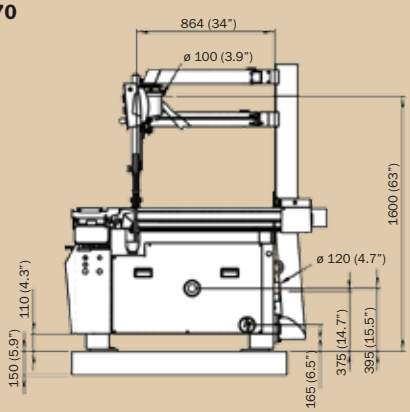


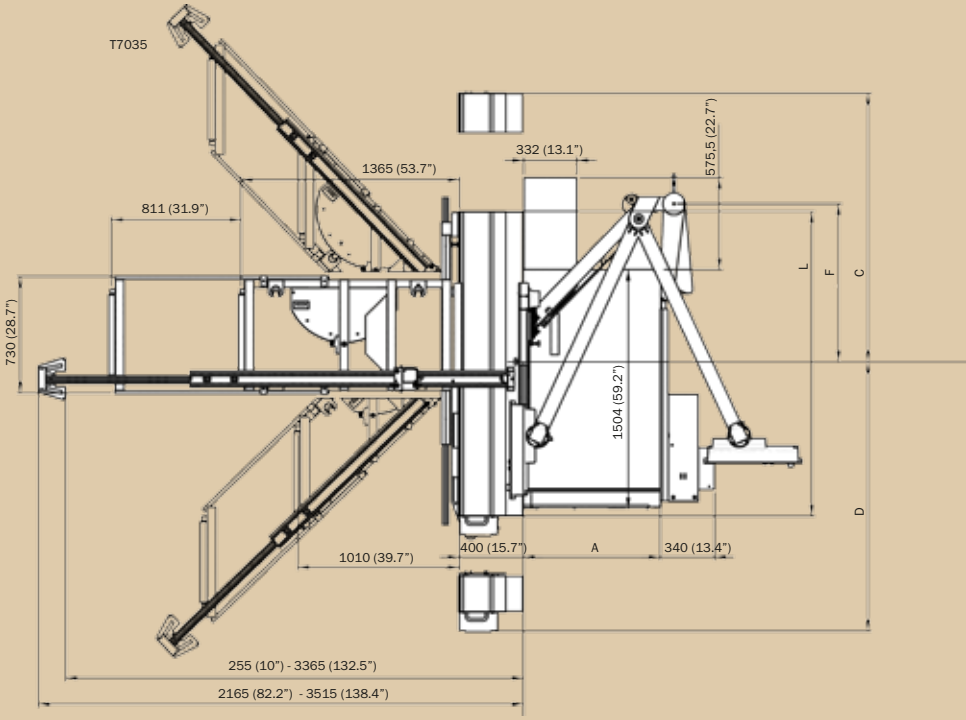




**Technical specifications**

| | |
|---|---|
| **Motor power**<br>**Optional** | 5,5 kW (7.5 HP)<br>7,5 / 11 kW (11 / 15 HP) |
| **Cutting height** | max. 204 mm (8") / saw blade Ø 550 mm (21.6") / 0° |
| **Saw-blade tilt range** | 0° to 46° |
| **Saw-blade diameter** | 250 - 550 mm (10" - 21.6") |
| **Rotational speed**<br>**Optional** | 2.800 / 4.000 / 5.000 rpm<br>Infinitely variable from 2000 to 6000 rpm |
| **Main saw blade change** | ProLock |
| **Blade thickness** | max. 6 mm (0.24") / special tools max. 20 mm (0.79") (at 90 deg.) |
| **Cutting width**<br>**Optional** | 850 mm (33.5")<br>1.100 / 1.350 / 1.600 mm (43.3" / 53.1" / 63") |
| **Cross-cut fence length** | 190 - 3310 mm (7.5" - 130.3") |
| **Standard Sliding-table length**<br>**Optional** | 3,0 m (9‘ 8")<br>1,9 / 3,3 / 3,7 / 4,3 / 5,1 m (6‘ 3", 10‘ 8", 12‘ 7", 14‘ 2", 16‘ 7") |
| **Controller** | PowerPC |
| **Control panel T70** | Touch screen, color; TFT 10.4" (264 mm)<br>Control panel in VGA resolution |
| **Cutting angle / height / width** | controlled |
| **Display resolution** | 0,1 mm or 0,01°, repeatable accuracy ± 0,05 mm or ± 0,005° |

**The T70**




| A = cutting width [mm] | F = passage width [mm] | Sliding-table length L [mm] | Format cut [mm] |
|---|---|---|---|
| 850 (33.5") | 990 (38.9") | 1.900 (74.8") | 1.900 x 1.900 (74.8") x (74.8") |
| 1.100 (43.3") | 990 (38.9") | 3.000 (118") | 3.000 x 3.000 (118") x (118") |
| 1.350 (53.1") | 990 (38.9") | 3.300 (130") | 3.300 x 3.300 (130") x (130") |
| 1.600 (63") | 990 (38.9") | 3.700 (145.7") | 3.310 x 3.700 (130.3") x (145.7") |
| | | 4.300 (169.3") | 3.310 x 3.700 (130.3") x (145.7") |

| Movement range C [mm] | Movement range D [mm] |
|---|---|
| 2.500 (98.4") | 2.400 (94.5") |
| 3.600 (141.7") | 3.500 (137.8") |
| 3.900 (153.5") | 3.800 (149.6") |
| 4.300 (169.3") | 4.200 (165.3") |
| 4.900 (192.3") | 4.800 (189") |

| | |
|---|---|
| **Dust port – machine frame** | Ø 120 mm (4.7") |
| **Dust port – blade guard** | Ø 100 mm (3.9") |
| **Weight** | approx. 1.600 - 2.200 kg (3.527 - 4.850 lbs) |

Dimensions and technical data are subject to technical innovation and may be changed without notice. Illustrations can deviate from the original.

Low dust emission pursuant to BGI 739-1, Annex 1. Please refer to the latest price list for current details about the machine specifications and equipment.
All dimensions are in millimeters / inches.
Manufactured in Germany

Noise emission pursuant to EN ISO 11 202:
Workplace emission
Idling: 77.0 dB(A),
In operation: 82.8 dB(A)

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