

Options book
Moulders

MARTIN

www.martin.info

Alongside the basic equipment spindle and tilting arbor spindle moulders from MARTIN have numerous, useful and also patented options, which perfect your workpiece and add value to your machine.

Easily configure your MARTIN spindle moulder comfortably to your individual wishes online on our website **www.martin.info**



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Comparison of the technical specifications of the moulders.



Technical data

T12 Spindle moulder

T27 Spindle and tilting arbor spindle moulder

Motor power optional	5.5 kW 7.5 kW 11.0 kW continuous: 7.5 kW 9.5 kW	5.0 kW 6.0 kW 7.5 kW 9.5 kW
Control optional	5,7" touchscreen –	5,7" touchscreen 10,4" touchscreen
Control panel	at eye level, inclined, 2x rotation	at eye level, inclined, 2x rotation
Spindle stroke optional	150 mm –	150 mm 125 mm with 7.5 9.5 kW motor
Spindle tilt	– –	T27 Fix: – T27 Flex: ± 46.00°
Rotational speeds optional	3,000 4,500 6,000 8,000 10,000 rpm Cont. Speed control 1,000 – 12,000 rpm	3,000 4,000 5,000 6,000 8,000 10,000 rpm Cont. Speed control 1,000 – 12,000 rpm
Table opening	255 205 161 106 74 mm	255 205 161 106 74 mm
Display resolution	0.05 mm	0.05 mm 0,01°
Repetition accuracy	± 0.025 mm	± 0.025 mm ± 0,005°
Extraction connections	2 x 120 mm	2 x 120 mm
Weight	approx. 950 – 1,200 kg	approx. 1,200 – 1,600 kg

The machines generate very little dust as per BGI 7391 Annex 1.

All dimensions in millimetres. Manufactured in Germany.

Dimensions and specifications subject to technical innovation and may be changed without notice.

Illustrations may differ from the original. The binding technical features and equipment are given in the applicable price list.

T12



Compact in class, premium in performance.

The T12 is our compact spindle moulder with all MARTIN premium features. On the one hand it is highly functional, but still simple to operate control. On the other hand it is uniquely precise and robust engineering. This forms a perfect price/performance ratio. The T12 is the ideal machine for any operation – whether as a cheaper entry point into the MARTIN world of spindle moulders or as an effective supplement for production options in handicrafts and industry. Through its individual adaptation options it is the perfect spindle moulder for the most diverse of application areas.



Configure your
T12 yourself.

T27



Flexibility for today and tomorrow.

Setting up a spindle moulder is normally a big challenge. Not on the T27 Flex thanks to its modern touchscreen control: Through the integrated tool conversion you can also equip complex moulding patterns with tilted spindles in an instant. Only this enables the large tilting range of $2 \times 46^\circ$ to be used efficiently – and you can do it fully and completely to your inclinations. In addition the machine can be very precisely coordinated to your individual requirements in operation.



Configure your
T27 yourself.

Special voltages

Depending on which area of the world you are located in your MARTIN machine must be delivered with the suitable voltage supply. Please note that not all motor ratings can be delivered for all voltage varieties!

Special voltage 3 ~	T12	T27
230 V / 50 Hz	T12V_230	T27V_230
210 – 240 V / 60 Hz	T12V_220	T27V_220
440 – 480 V / 60 Hz	T12V_440	T27V_440

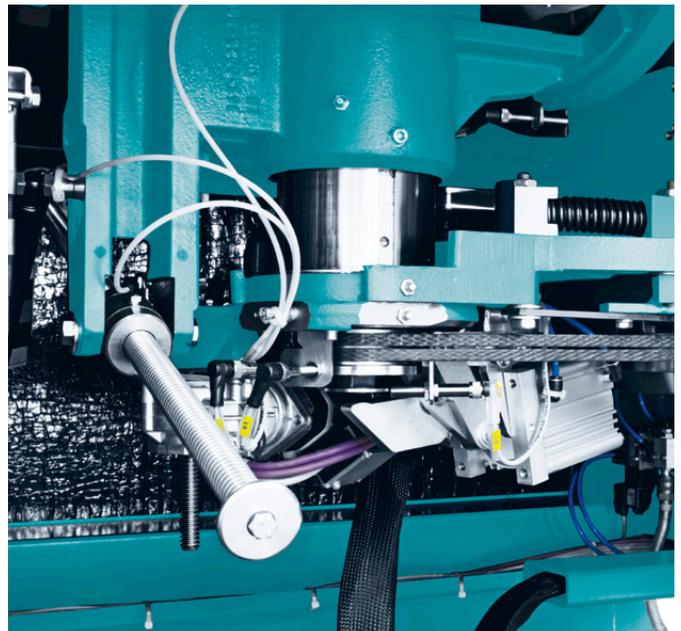
Motor rating

The standard motor rating is 5.0 | 6.0 (pole switching motor) or 5.5 kW depending on model. Depending on the model motor ratings of up to 11 kW can be delivered. Please note that not all motor ratings can be delivered for all special voltages.

kW	T12	T27
5.0 6.0 pole switching motor	–	Standard
5,5	Standard	–
7,5	T1202/1	–
7.5 9.5 pole switching motor	–	T2702
11	T1202/2	–



Drive T12



Drive T27

Control

Every MARTIN spindle moulder is equipped with a modern, intuitively operable touchscreen control system. Self-explanatory, coloured icons, easy to read text messages and a well-arranged menu structure support even inexperienced users and ensure a first class work result. Up to six axes displayed in a clear, easy to understand manner. Up to 1,000 tools and 1,000 programmes can be stored.

Touchscreen user interface

	T12	T27
5,7" (145 mm)	Standard	Standard
10,4" (264 mm)		T2710



5,7" | T12



10,4" | T27

Speed control

Continuous speed control

This drive enables you continuous adjustment of the main saw blade between 1,000 – 12,000 rpm. We always supply this option with the powerful 7.5 kW motor. Please note that this option can only be delivered for certain voltage supplies. If you decide on a continuous speed control the machine is

also always equipped with the patented MARTIN collision detection system. The machine transfers the spindle during positioning of cutting height, angle and depth into a powerless rotation and so can reliably detect possible collision and warn the user in good time.

kW (hp)

	T12	T27
7.5 (10)	T1203	T2703
9.5 (13)	T1204	T2704
11 (15) S6-75%	T1205	T2705

Additionally controlled axes

With up to 6 electronically displayed or controlled axes the MARTIN spindle moulder makes a significant contribution to the efficiency improvements in the workshop.

Each controlled axis is integrated in the full scope of the control system and can not only be positioned precisely but can also be integrated in programmes. This reduces setup times by up to 80%*. Even as simple a profile as a rebate can be set up to 20%* quicker. Setup is no longer a game of trial and error – the first workpiece already fits!

* Compared with a standard machine

Digital display of the infeed jaw position

The digital display of the infeed jaw position gives you the option of also making this setting very precisely according to the digital display. It replaces setting by vernier scale. The decisive benefit surely is that you can also store the position of the electronically recorded fence jaw position in the programmes. You can therefore use all the benefits of the control system, you only need to take care of the setting yourself manually via hand wheel as before. Even the incremental movement is easily possible thanks to integration in the control system.

Motorised motor positioning of the infeed jaw (right)

The motorised positioning of the infeed jaw is offered everywhere where the purely digital display no longer suffices. With this option, which is only supplied in conjunction with the motorised positioning of the fence, you get full control of the fence. You can take care of all settings on the fence from the control system. This option is recommended for users, who frequently carry out extensive moulding work on the workpiece.

Motorised positioning of the fence

The motorised positioning of the fence is an extremely sensible supplement to the spindle moulder, no matter whether spindle or tilting arbor spindle moulder. You can carry out the most common settings on a spindle moulder, cutting height and depth with full control support, as what you previously had to do yourself via hand wheel is now controlled by the electronics. Thanks to the very high repetition accuracy of $\pm 0,025$ mm the fence can be moved to the predefined positions extremely precisely. Even critical settings, such as with mortising, can be precisely positioned. As already in the basic version for the cutting height, also the moulding depth is part of each programme and the control takes over the positioning according to programme specifications.

Motorised table opening

for tools of diameter 70 – 250 mm

The best possible closure of the gap between tool and table should always meet the demands of setting up a spindle moulder. The ideal solution is presented by the electrically adjustable ring inserts, which can be fully integrated into the control system and significantly facilitate the setup. Through simple value specification the eccentric rings open or close the gap continuously. The benefit: So already at the start of setup you don't need to know, which fixed ring you have to insert in the table, but simply subsequently fit the gap quickly and easily.

Motorised positioning of the feed support

The motorised feed support with its snap-in mechanism is an option geared towards quick tool change. The height adjustment of the feed unit can easily be defined via control system and moved to, and can also be integrated into the programme. The depth adjustment of the feed can easily be implemented thanks to the ball bearing guide. And if you don't need the feed right now, it can simply be tilted away to one side – without losing the adjustments you have previously made.



Motorised feed support



Motorised axes

	T12	T27
Digital display of the position of the fence jaw (right)	T1211	T2711
Motorised positioning of the fence jaw (right)	T1213	T2713
Motorised positioning of the fence	T1212	T2712
Motorised positionable table opening		T2714
Motorised positioning feed support		T2715



Motorised positioning of the fence



Digital display of the position of the fence jaw (right)



Motorised table opening

Software extensions

The performance of the control software of our spindle moulders can also be described as extensive. For the specialists among you we also offer some special solutions.

Moulding assistant

This unique, innovative software extension allows the user to enter into a give-and-take dialogue with the spindle moulder for the first time. The moulding assistant re. 2 now also supports the milling of chamfers with swivelling blade heads along with rebates and grooves. This software module can be supplied for all machines and can also be subsequently installed without problems.

Programme settings

With this functional module the operator can combine up to 20 programme sets from individual programmes (up to 10 per set). So individually combined work sequence can be quickly and easily created. This software module can be supplied for all machines and can also be subsequently installed without problems.

Tool and programme identification system

Scanners enable the quick, safe identification of labelled tools, tool/arbors combinations or programmes allocated to tools; delivery incl. 2D barcode scanner and holder on machine control panel, as well as 1,000 permanent, self-adhesive labels.

Software extension

Software function module moulding assistant re. 2

Software function module programme settings

Tool and programme identification system via barcode scanner

T12

T12SW300

T12SW400

T1208

T27

T27SW300

T27SW400

T2708



Programme settings



Moulding assistant re. 2

Table extensions

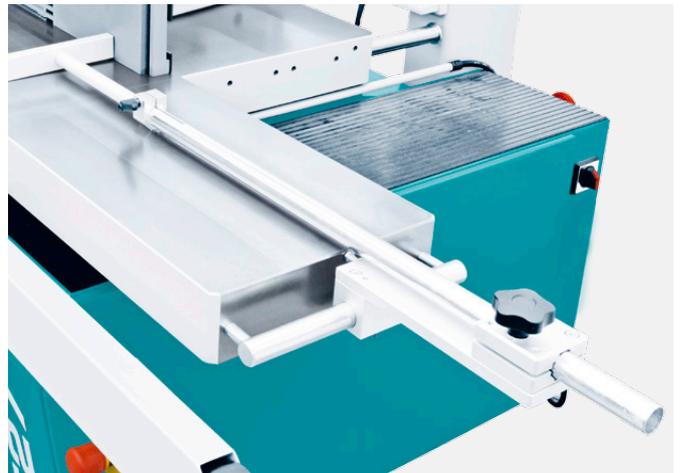
There are numerous options available to expand the workpiece support of your machine. The approx. 1,700 mm long, extendible support which can be pulled out of the front, is the first step to more support. You can make the next step with the extension of the table length on both sides, as well as the approx. 3,000 mm long extendible support. If you decide on the working table, you only need the table length extension on the right, the extendible support is then shortened accordingly to approx. 2,100 mm.

You can configure the fence for insert cutting on all machines with extension of the table length. These accessories are a valuable contribution to working safety.

Length in mm	T12	T27
Extendible work piece support which can be pulled out the front 1,700 mm	T1230	T2730
Extension of the table length on both sides, pull-out extendible workpiece support 3,000 mm	T1231	T2731
Extension of the table length, right, pull-out extendible workpiece support 2,100 mm	T1232	T2732
Stop for insert cutting	T1235	T2735



Safety guard



Stop for insert cutting

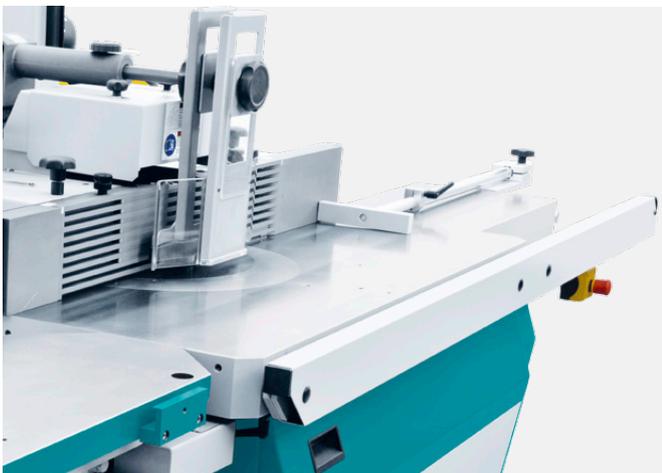


Table extension right



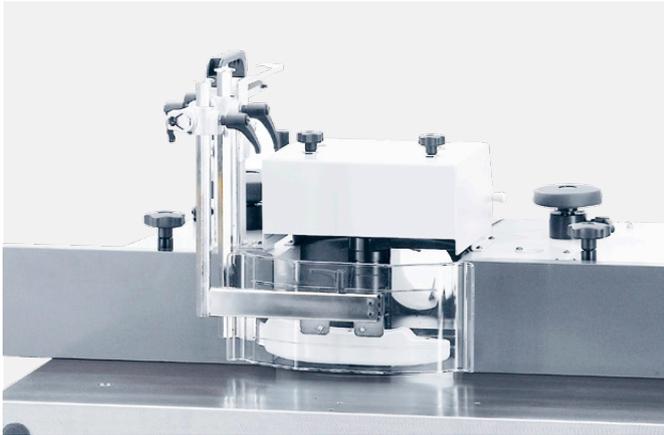
Table extension both sides

Moulding guard

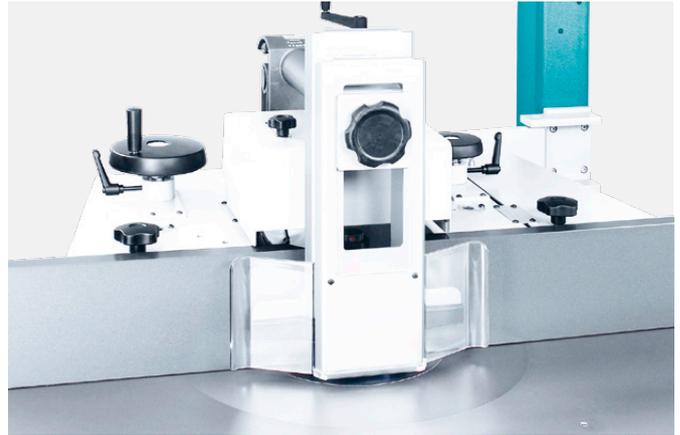
The moulding guard is a very important safety guard for moulding with hand feed. Compared to the CPS guard the CENTREX guard offers a significant advance in comfort.

Length in mm

	T12	T27
CPS moulding guard type Gamma V	Standard	Standard
Centrex guard	T1240	T2740



CPS moulding guard type Gamma V



Centrex guard

Fence jaw clamping system

In order to be adapt the fence opening to the tool in the best way the fence jaws are regularly moved. The optional AutoLock fence jaw clamping system easily and securely ensures for a safe, automatic clamping of the fence jaws. The jaws are always safely clamped by spring force, clamping is only released for setting with the easily accessible levers.

Fence jaw clamping

	T12	T27
Via star knob	Standard	Standard
Via AutoLock	T1243	T2743



Star knob clamping



AutoLock

Fence

The fence guides the material. Choose between the standard jaws and the tried and tested AIGNET integral fence. The guide rails for the standard fence jaws help you to close the opening in the fence in the best possible way.

Fence jaw

Hard-coated MARTIN fence jaw in aluminium

Guide rails for MARTIN fence

Integral fence

T12

Standard

T1241

T1242

T27

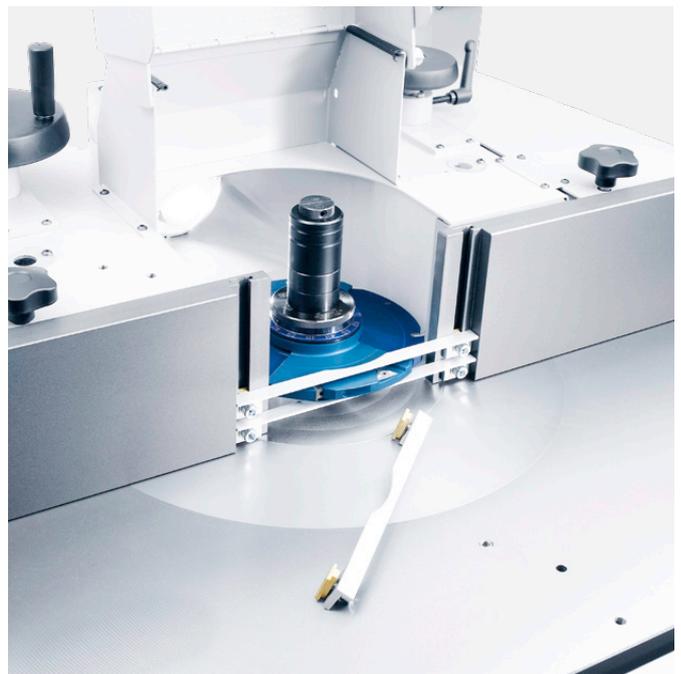
Standard

T2741

T2742



Integral fence



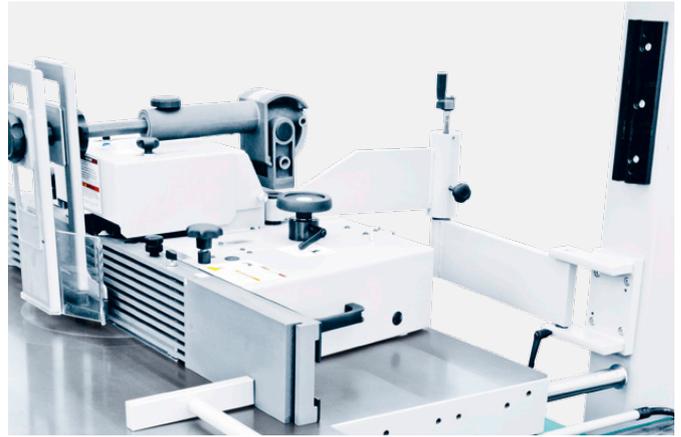
Guide rails



MARTIN fence jaws

Swinging support unit

The more often the curved moulding guard works the earlier you will learn to value the benefits of this accessory. If you have to remove the fence from the machine table, the swinging support is there to support you. To do so simply loosen the fence from the table, lift it by hand and swing it into its park position. The machine table is then free in an instant and you attach the required special safety guards without space problems.



Swinging support for fence

T12

T27

T1245

T2745

Curved moulding guard

Every MARTIN spindle moulder is delivered with the CPS Tapoa curved moulding guard. If you work more often with the curved moulding guard you may be looking for more comfort and adjustment options. You have the choice between the CPS KOALA curved moulding guard or the AIGNER BowmouldMaster.

Curved moulding guard

CPS Tapoa 08

CPS KOALA

AIGNER BowmouldMaster

Curved moulding guard for cutter arbor diameter 30, 35 or 40 mm

Curved moulding guard for 50 mm,
1 1/4" or 1 1/2" diameter cutter arbor

T12

T27

Standard

Standard

T1250

T2750

T1252

T2752

T1252_30

T2752_30

T1252_50

T2752_50



KOALA



BowmouldMaster

Arbor change systems

The DornFix standard quick-change system is the perfect solution for all of you, who want to adjust the arbor diameter time and again.

The HSK quick-change system is the first choice for the power user who often changes the arbor of the complete

arbor/tool units. The system works fully tool-free and is compatible with the CNC processing centres of leading manufacturers, for example. Please note that the HSK system can only be delivered in conjunction with continuous speed control.

Cutter arbor clamping system

DornFix quick change system

HSK 85 PowerLock, compatible with Weinig PowerLock system, for example

HSK 63 F, compatible with the CNC machining centres of all leading manufacturers

T12

Standard

T1270_85

T1270_63F

T27

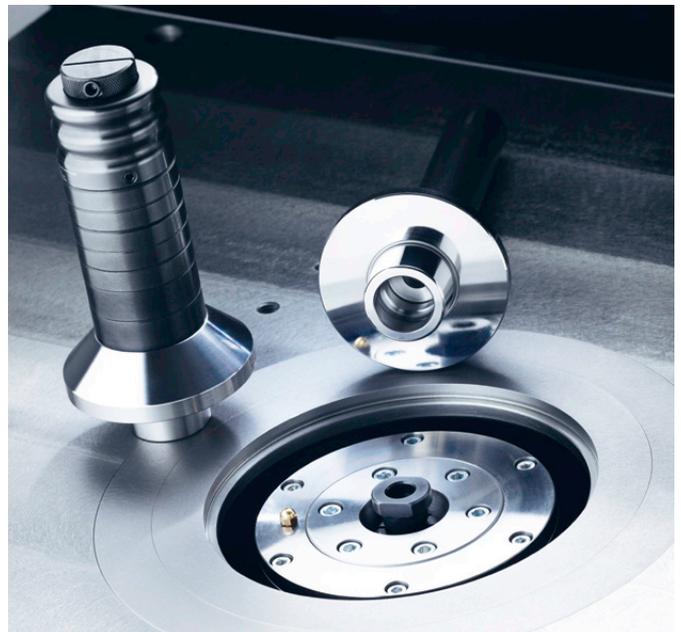
Standard

T2770_85

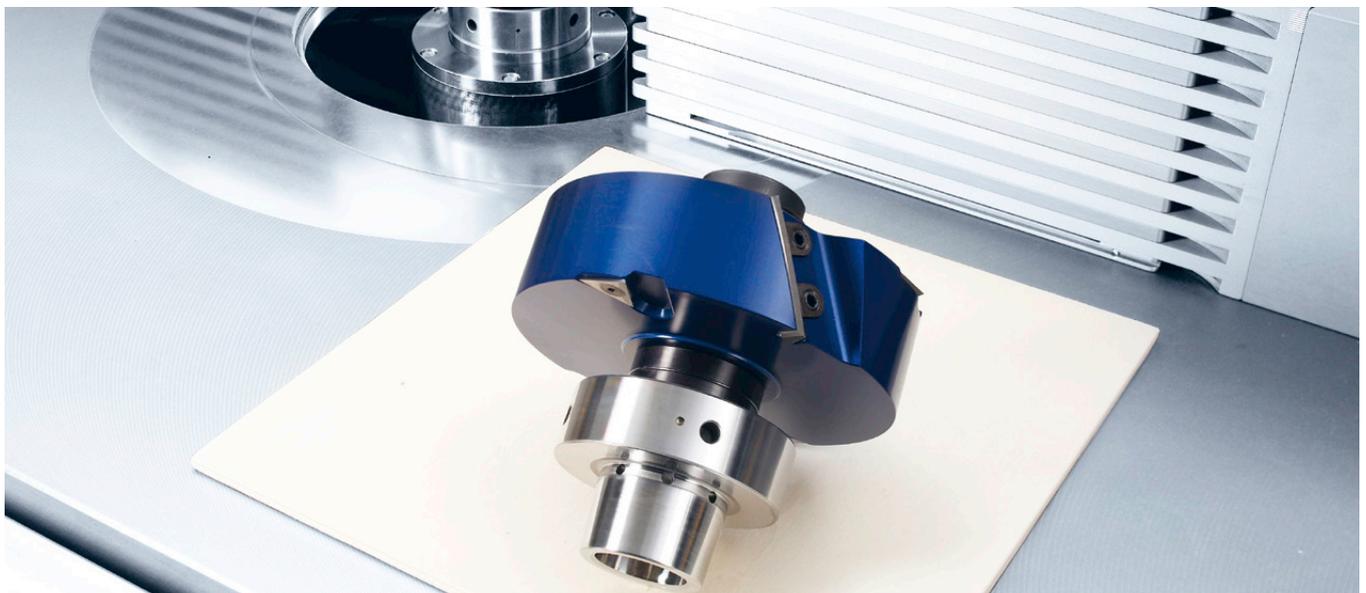
T2770_63F



SK40 cutter arbour clamping system



HSK 63 F



HSK 85 PowerLock

SK40 cutter arbor

Please select the arbors that you require from the variety of diameters and clamping lengths. Please speak to us if you cannot find your desired arbor.

SK 40 cutter arbor

30 mm diameter clamping length 140 mm

40 mm diameter clamping length 160 mm

40 mm diameter clamping length 200 mm

Collet arbor

Spring collet for collet arbor

1 1/ 4" diameter clamping length 140 mm

1 1/ 2" diameter clamping length 160 mm

35 mm diameter clamping length 140 mm

50 mm diameter clamping length 160 mm

50 mm diameter clamping length 200 mm

T12

T2760

T2761

T2762

T2763

T2763/1

T2764

T2765

T2757

T2767

T2768

T27

T2760

T2761

T2762

T2763

T2763/1

T2764

T2765

T2757

T2767

T2768



Arbor SK40



Spring collet arbor SK40

HSK 63 cutter arbors

Please select the arbors that you require from the variety of diameters and clamping lengths. Please speak to us if you cannot find your desired arbor.

HSK 63F cutter arbor	T12	T27
30 mm diameter clamping length 80 mm	T277_310	T277_310
30 mm diameter clamping length 140 mm	T277_320	T277_320
35 mm diameter clamping length 140 mm	T277_326	T277_326
40 mm diameter clamping length 140 mm	T277_330	T277_330
1 1/ 4" diameter clamping length 140 mm	T277_380	T277_380
1 1/ 2" diameter clamping length 160 mm	T277_390	T277_390
HSK 63F collet arbor	T27630	T27630

HSK 85 cutter arbors

Please select the arbors that you require from the variety of diameters and clamping lengths. Please speak to us if you cannot find your desired arbor.

HSK 85 PowerLock cutter arbor	T12	T27
30 mm diameter clamping length 80 mm	T2771	T2771
30 mm diameter clamping length 140 mm	T2772	T2772
35 mm diameter clamping length 140 mm	T2772_326	T2772_326
40 mm diameter clamping length 140 mm	T2773	T2773
1 1/ 4" diameter clamping length 140 mm	T2778	T2778
1 1/ 2" diameter clamping length 160 mm	T2779	T2779

ProLock – quick clamping system

The ProLock quick clamping system for the cutter arbor replaces the mandrel nut and noticeably facilitates the tool change. The accessories can be retrofitted to all T27xx arbors.

ProLock

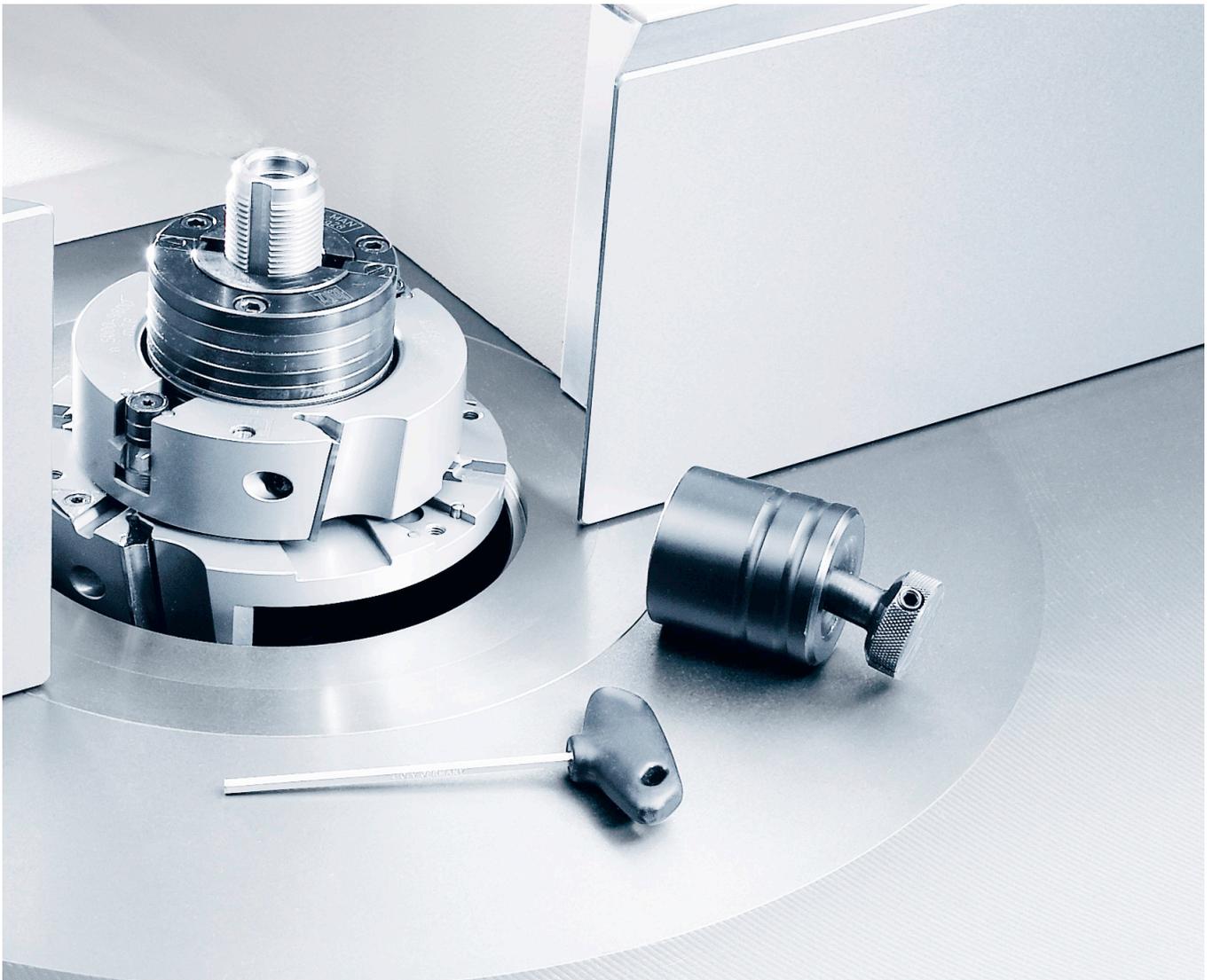
T12

T27

Quick clamping system for cutter arbor

T2769

T2769



Quick clamping system for cutter arbor

Sliding table for mortising work

For the safe and precise cutting of mortises, tenons and counter profiles we offer you two sliding tables.

Smaller tenon, mortising or counter profile work can be easily performed on the small sliding table with 710 mm working path. The sliding carriage is simply mounted on the machine table in front of the fence and runs smoothly on high quality ball bearings. The sliding table is equipped with a mitre fence (adjustable from 30° – 150° by simple implementation of the pivot or clamping bolts) and with a powerful, quickly adjustable eccentric clamping device with pressure plate.

The larger table is also suitable for heavier and heaviest processing, as is usual in window or door construction, for instance. The solid table offers a large and secure support and can be turned in both directions up to 45°, the fence even up to 65°. So even diagonally cut workpieces like special window profiles can be processed safely clamped. The sliding table has a large working path of 1,400 mm, to enable even the sliding table as table extension the safe processing of large workpieces. With the mortising guard which is part of the delivery scope you can insert tools of up to 350 mm diameter safely on a 40 arbor. If the sliding table is not required, it forms a perfect left table extension, as the table can be lowered to machine table level. The guide bar can easily be moved to the back where it is flush with the machine front.

Sliding table

Sliding table for light tenons and mortising work

Sliding table for heavy tenon and counter profile work

Extension to 2.75 m for LAS cross-cut fence

Multiple fence for LAS cross-cut fence

Mortising stop for mortising work on workpieces with finished size

T12

T27

T1285

T2785

T1280

T2780

T1281

T2781

T1282

T2782

T1283

T2783



Light sliding table



Heavy sliding table

Feed support | Feed units

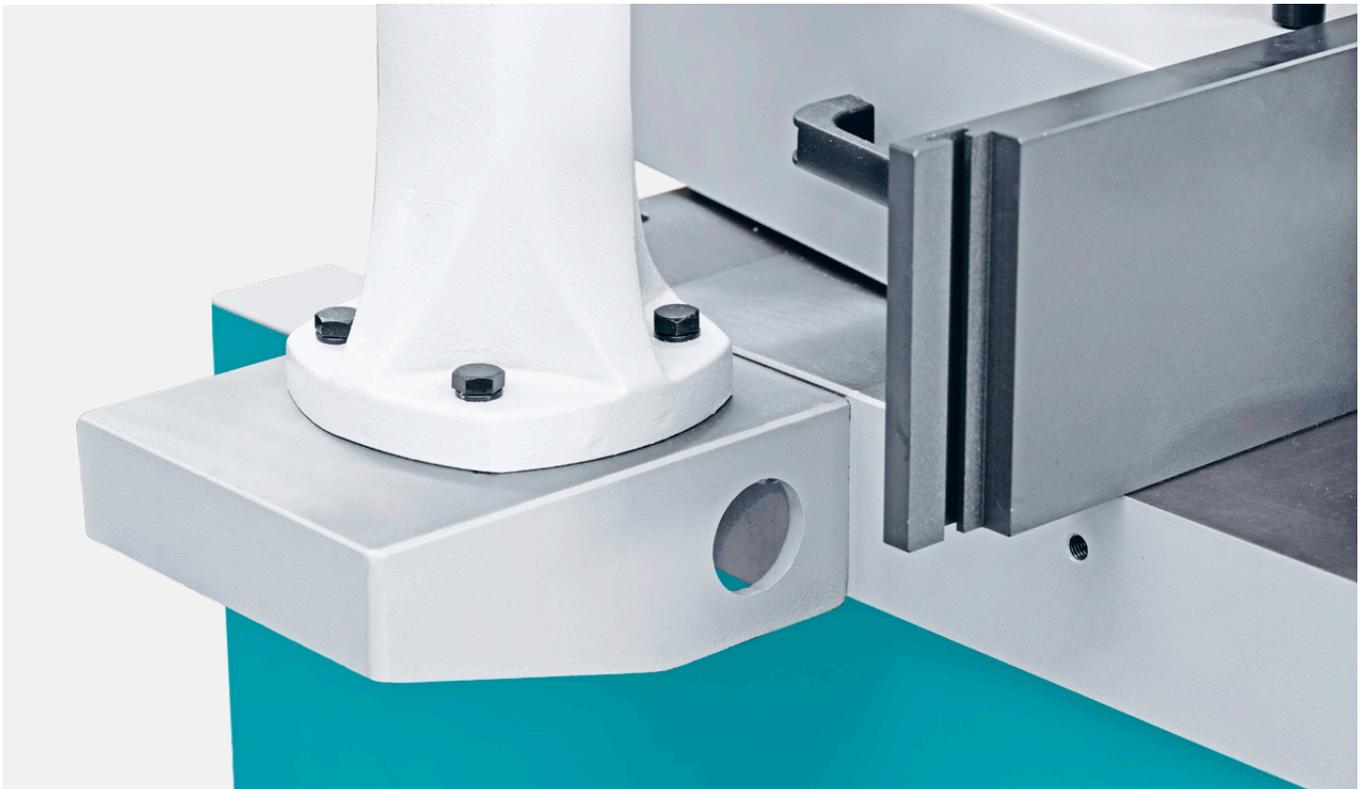
A feeder is recommended for more effective and safer working on the spindle moulder. It quickly and comfortably transports the workpiece past the tool. In order to assemble a classic feed support on the spindle moulder we recommend the corresponding assembly console which is mounted on the left of the machine table.

The comfort feed support impresses because it can be easily folded to the side with the Memo lock system. This means that after folding it away, for example for a tool change, the feed latches back again exactly in the starting position. The height settings are very precise through the digital height indicator, the height adjustment takes place quickly and comfortably from the operator's side. Large locking levers ensure that the feed support can be clamped quickly and easily.

The powerful Variomatic feed units win over with a continuous speed control and the simple change from horizontal to vertical use. The switchover from right handed to left handed as well as forwards/backwards is also a feature of this feed. The 3N version is equipped with 3 rollers, the 4N with 4 rollers. These feeds are suitable for the feed support Comfort.

Support legs | feed units

	T12	T27
Cast console for assembly of a feed support	T1290	T2790
Feed support comfort	T1291	T1291
Variomatic 3N feed unit	T1292_400	T1292_400
Variomatic 4N feed unit	T1293_400	T1293_400



Cast console





Feeder Variomatic 3N on feed support Comfort



Feeder Variomatic 4N on feed support Comfort

Feed units for motorised feed support

The options described here are exclusively available for the T27 in conjunction with the T2715 option, the feed support. You have the choice between a 3 and 4-roller Variomatic feed, the speed of which is continuously controllable during operation. Both feeders can be quickly and easily changed from vertical to horizontal pressure. The feeders are the perfect complement to the MARTIN feed support. You can select electronically adjustable feed speeds for both feeders. Please enter all parameters for the workpiece transport directly from the control system. The control range lies between 2 and 24 m/min.

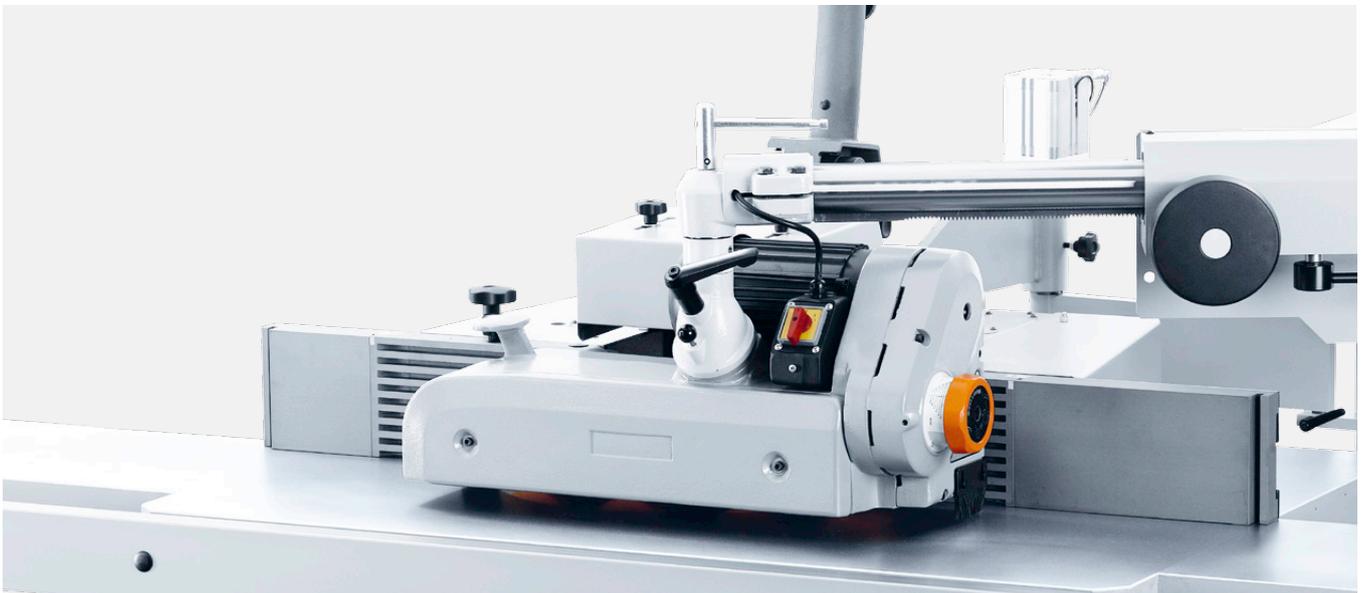
T27

Variomatic 3N feed unit, 3-roller feeder, infinite variable adjustment from 3 – 17 m/min	T2722_400
Variomatic 4N feed unit, 4-roller feeder, infinite variable adjustment from 3 – 17 m/min	T2723_400
Electronically variable feed speed	T2796

T2722_400

T2723_400

T2796



Feeder Variomatic 4N on motorized feeder support



Feeder Variomatic 4N, electronically controlled



MARTIN. Made in Germany.

MARTIN machines are produced in Germany and only leave us after the strictest quality checks. We only work with high quality materials and components. All of the crucial components of MARTIN machines are produced at our in-house state-of-the-art production facilities in Ottobeuren by well trained, motivated employees. Efficient brand suppliers guarantee high flexibility, perfect adaptation and first class quality of the purchased products. This efficient interplay of internal and external know-how is the foundation for the high level of all MARTIN products.

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