



Sägen  
Hobeln  
Fräsen

**MARTIN**

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Spindle moulder T 20  
Tilting arbor spindle moulder T 26



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Shaper T 20  
Tilting arbor shaper T 26



*Does pleasure at work lead to better performance?  
 Or is it the good performance that leads to pleasure at work?  
 Or are both the result of ideal working conditions?  
 What does all this have to do with machinery?  
 We can give you the answers!*



**The T 20:**  
 Perfect shaping results thanks to perfect operation.

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**The T 26:**  
 The tilting range of 2 x 45,50° is just one good argument.

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**The DuoControl:**  
 The ideal tool for individual production.

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**The T 26\_CNC:**  
 Minimize set-up time, increase productivity!

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**Accessories:**  
 Individual solutions for individual needs.

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## T 20: Flexibility when working with fixed spindle

**Your shaper has to be a quick to operate and an absolute accurate machine that guarantees perfect results thanks to its excellent smooth running!**

The shaping height is comfortably adjusted by push buttons according to the digital readout. For easy settings, the adjustment speed for the tool height can be chosen between fast and creep motion. The absolute and incremental height are indicated.

The automatic soft start is activated by pressing the safety double key, as well as

the wear free brake are of course standard features. The rotation direction of the spindle is clear to see and can be reversed easily, the plug for the connection of the feed unit can be switched on and off at the control unit and comes with the basic model.

The depth of cut is exactly and easily adjusted according to the digital counter. A hand wheel quickly sets the position of the whole fence and the infeed jaw can be adjusted separately by a big star knob according to the digital counter.

If required, the fence can be additionally equipped with powerful electronics allowing the direct adjustment of the cutting depth in reference with the programmed diameter of the tool. This special equipment reduces the set-up time noticeably.

For ring fence work, the fence can be removed in an instant and remounted quickly after the job. With the optional swinging support the fence does not have to be lifted from the table but can be swung easily to the back of the shaper when working and thus reduces expensive set-up time.

When mortising, the sliding table is the ideal special accessory for the MARTIN-shaper. The heavy and solid design of the sliding table, the possibility to swing it 45° (fence up to 65°) in both directions and many features more make this option a unique accessory. It ensures accurate results and save working when machining cross-sections of wood.

The DORNFIX system, an arbor changing system developed by MARTIN, comes with the T 20 basic machine and allows the quick changing of the arbor. Thus the

changing e.g. from a 30 mm to a 40 mm arbor can be done within seconds. Furthermore you have the possibility to use complete tool-arbor-combinations, which is another time saving advantage.

Motor power:	5/6 kW
Stroke:	150 mm
Speed:	3000/4500/6000/9000 rpm
Weight:	approx. 980 kg



Easy arbor changing with DORNFIX



Short set-up time thanks to clear displays



Perfect mortising, tenoning, counterboring



T 20 with accessories

- T 2000 Guard type Centrex
- T 2001 Control desk at eye level
- T 2022 Table extension right side with extensible support
- T 2029 Integral fence
- T 2037 Swinging support for fence
- T 2041 Swinging support for feed unit (delivered without feed unit)
- T 2080 Sliding table left side

# T20

## T 26: Always in good shape!

**You are looking for a tilting shaper with a large tilting range of 2 x 45,50° that can be used effectively, thanks to the patented indication of the compensation value for the fence when working with tilted arbor!**

Thanks to the large tilting range of 2 x 45,50° a new range of working possibilities has opened. Work pieces can always be processed from below with the spindle tilted to the rear – a big step towards greater flexibility and safer operation.

Cutting height and tilting angle can be comfortably adjusted according to electronic displays. Height and tilting angle of the tool can be adjusted within seconds by a „rapid“ and „creep“ push button adjustment. The absolute and incremental height, as well as the tilting angle are indicated.

Due to the four-line standard display indicating also the compensation value for the fence, settings with tilted spindle can be done according to your drawings. Set-ups with tilted spindle are not a game of trial and error anymore. The clever split-

ting of the diagonal spindle movement into a vertical and a horizontal movement makes this possible.

The cutting depth can be adjusted quickly and easily according to a digital counter. The complete fence is adjusted fast and precisely by hand wheel and the infeed jaw can be set separately by a big star grip according to a digital counter.

If required, the fence can be additionally equipped with powerful electronics allowing the direct adjustment of the cutting depth in reference with the programmed

diameter of the tool. This special equipment reduces set-up-times noticeably.

For ring fence work, the fence can be removed in an instant and remounted quickly after the job. The optional swinging support does not have to be lifted from the table but can be swung to the rear. This helps you to save power and time when working and thus reduces expensive set-up time.

To accelerate the changing of arbors and tools, the DORNFIX system, a quick arbor changing system developed by MARTIN,

comes with the basic machine. The changing from a 30 mm to a 40 mm arbor can be done within seconds, providing you with the possibility to use complete tool-arbor-combinations.

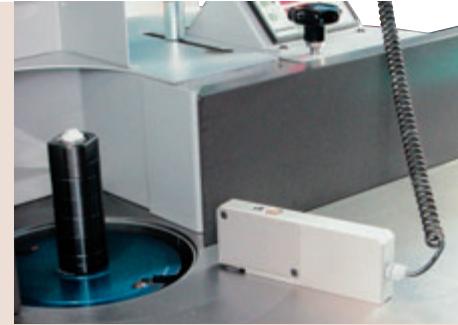
Motor power:	5/6 kW
Tilting range:	2 x 45,50°
Stroke:	150 mm
Speed:	3000/4500/6000/9000 rpm
Weight:	approx. 1300 kg



Electrically adjustable table opening



Quick and accurate set-up



Exact adjustment thanks to the calibration unit



T 26 with accessories

- T 2600 Guard type Centrex
- T 2601 Control desk at eye level
- T 2603 Infinitely variable speed with motor 7,5 kW
- T 2604 Calibration unit for height adjustment of tool
- T 2605 Electrically adjustable table opening
- T 2621 Table extension on both sides with table extendable support
- T 2627 Fence with digital readout
- T 2629 Integral fence
- T 2637 Swinging support for fence
- T 2641 Swinging support for feed unit (delivered without feed unit)

# T26

## Reduce to the max with the DuoControl

**You can rely on this shaper to provide actual storage capacity for cutting height and depth in order to position the tool quickly and easily!**

An easy-to-operate and very efficient 2-axes control is standard equipment of both DuoControl machines, the shaper T 20 DuoControl and the tilting arbor shaper T 26 DuoControl. Thus the arbor and the fence can be positioned electronically. Both, cutting height and cutting depth can be controlled and stored.

The control unit allows absolute and relative positioning and each adjustment can be stored. The absolute positioning offers you advantages when working with a certain combination of tool and cutting result, such as the window profile for IV 68 (German style profile). You just need to store the positions of the arbor and the fence – it's so simple!

The relative positioning is very useful when different tasks can be done with one and the same tool, e.g. a rebate tool. Just store the position of the tool when it is

flush with the machine table and the fence. Now you can work according to the dimensions of your drawings.

The T 26 DuoControl offers you additionally the full range of functionality of a tilting arbor shaper. The arbor is tilted electrically according to the digital readout. The indications of the tilting angle and the compensation value for the fence enable perfect working results with tilted arbor.

The motor-driven fence can be detached in an instant, e.g. for ring fence work, and can be quickly remounted after work. With

the additional swinging support, the fence can be swung to the rear without any great effort.

The DORNFIX system, a quick arbor changing system developed by MARTIN, comes with the basic machine and allows effortless changes of arbors and tools within seconds. Thus the set-up time can be reduced to a minimum.

Motor power:	5/6 kW
Tilting range (only T 26):	2 x 45,50°
Stroke:	150 mm
Speed:	3000/4500/6000/9000 rpm
Weight:	approx. 1350 kg



The fence can be swung back in a second



All important buttons at eye level



Effective working thanks to alternating spindles



T20 DuoControl  
T26 DuoControl

T 26 DuoControl with accessories

- T 2600 Guard type Centrex
- T 2605 Electrically adjustable table opening
- T 2621 Table extension on both sides with extendable support
- T 2625 Safety stop for cut-in working (right side)
- T 2629 Integral fence
- T 2637 Swinging support for fence
- T 2641 Swinging support for feed unit (delivered without feed unit)

## T 26 CNC: Modern Times – technology for modern manufacturing

**You want to reduce noticeably the set-up time of complex profiles. Characteristics like tool calculation, programming and online machine operation are important to you!**

The T 26 CNC is equipped with a modern PLC unit supporting you to control the cutting height, spindle tilt, depth of cut and the position of the infeed jaw. Even the automated adjustment of the table opening to the tool diameter can be added as an additional option.

If the machine is operated under the right conditions, set-up times can be reduced by more than 50% (compared to a conventional tilting shaper). Even simple adjustments, e.g. rebates, are adjusted more than 20% faster with CNC support. Apart from the speed, the exact repetition of a task is also a decisive argument.

Technically complex machines as the T 26 CNC do not necessarily have to be used in big work shops only. Whenever a lot of settings have to be done – leading to a great loss of working time – you will see the

big advantages of this machine. The decisive factor is always the reduction of set-up time in comparison with the machine's total running time.

Once the inserted tool has been activated, you work according to the dimensions of the drawings. The indications of the cutting height and the cutting depth always refer to the reference level "table" and "fence" – even with tilted arbor. Set the reference point of the tool according to your drawing and the task is set perfectly.

The easy-to-operate PLC allows you to

store 1000 individual tool positions and up to 100 different tool dimensions. Thus, repeating works can be adjusted within seconds.

The motorized fence of the T 26 CNC can be removed as well. If your machine is equipped with a swinging support, the precision instrument "fence" does not have to be lifted from the table, but can be swung to the rear.

If you equip your machine with the optional tool-free quick cutter change system instead of the standard DORNFIX-system

which comes with the machine, the changing of the arbor-tool-combinations and their activation can be done even faster.

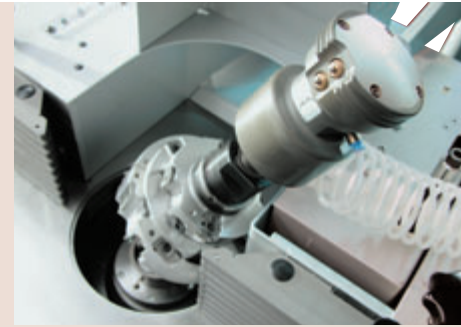
Motor power:	5/6 kW
Tilting range:	2 x 45,50°
Stroke:	150 mm
Speed:	3000/4500/6000/9000 rpm
Weight:	approx. 1350 kg



Quick changing of tools



Complex technique easy to handle



Easy identification of the tool



# T26 CNC

T 26\_CNC with accessories

- T 2600 Guard type Centrex
- T 2603 Infinitely variable speed with motor 7,5 kW
- T 2605/2 Electrically adjustable table opening
- T 2607 Tool identification system with speed control
- T 2609 Interface RS 232 with software
- T 2621 Table extension on both sides with table extendable support
- T 2625 Safety stop for cut-in working (right side)
- T 2629 Integral fence
- T 2637 Swinging support for fence
- T 2641 Swinging support for feed unit (delivered without feed unit)

# Special equipment

## Infinitely variable speed



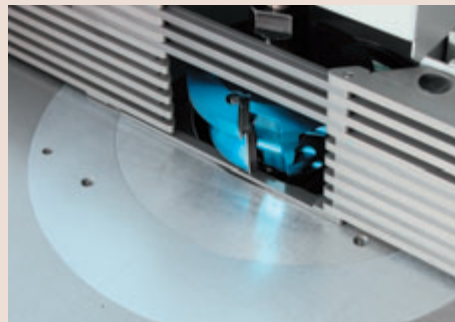
Infinitely variable speed T 2003/T 2603

The infinitely variable speed regulation of the arbor enables the ideal adaptation of the cutting speed to each task at a range from 1.000 to 12.000 rpm. – also at running machine.

Thanks to the large range of speed regulation, apart from profile grinding tools running at very low speed, also tools which run at very high speed can be used at an ideal cutting speed.

The 7,5 kW standard motor always supplies the ample power. If the machine is exposed to extreme strain, it can also be equipped with a 9,5 kW motor (T 2003/1 respectively T 2603/1).

## Electrically adjustable table opening



Electrically adjustable table opening T 2005/T 2605

One challenge is the best possible closure of the opening between the tool and the machine table during the set-up of a shaper.

With the patented motorized table rings we found the perfect solution. By turning the corresponding knob, the eccentric rings, and therefore the opening, can be continuously variably opened or closed.

You do not have to know which size of table ring to use at the beginning of the set-up, but adjust the eccentric ring at the end according to the size of the tool you use.

## Safety stop for cut-in working



Safety stop for cut-in working T 2025/T 2625

The machine can be additionally equipped with the safety stop in order to help you with dangerous cut-in working. This accessory guarantees safe and precise working of the piece.

Mounted also at the left table extension, such shaping can be done exactly, as the start and stop point can be determined quickly and exactly.

When this accessory is not needed, the stop can be folded under the table extension.

## Swinging support

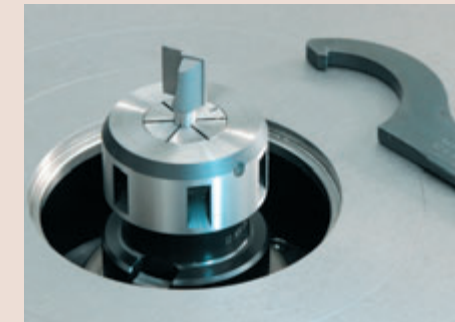


Swinging support for the fence T 2035/T 2635

The more often you work with the curved milling stop, the earlier you will notice the advantages of this accessory.

Whenever you have to remove the fence from the machine table, the swinging support facilitates your work. Loosen the fixing of the fence, lift it up using the hand wheel and swing it into its "parking position".

## Cutter arbor for router bits



Cutter arbor with exchangeable spring chuck T 2055/T 2655

If you would like to work also with router bits, like e.g. shank-type cutter, the cutter arbor with spring chuck is the ideal solution for your shaper.

The spring chucks are easy to change and can be supplied for cutter shafts with diameters from 3 to 25 mm. This guarantees a maximum versatility of the arbor.

In combination with small tool diameters, we recommend the infinitely variable speed T 2003/2603.

## Quick cutter change system



Quick cutter change system T 2660

With the tool-free quick cutter change system, the changing of the arbor can be done even quicker than with the DORNFIX-system.

If you wish to work at a T 26 CNC with the tool management system, that means with complete arbor-tool-combinations – the tool-free cutter change system is absolutely necessary. It reduces the set-up time noticeably.

## Fence with digital readout



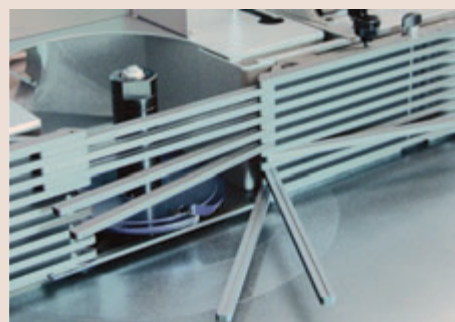
Fence with digital readout T 2027/T 2627

The digital readouts can do much more than one might think at first sight. Their decisive advantage is the following: by simply entering the arbor's diameter, the actual cutting depth is indicated at once.

If the diameter of the inserted arbor is unknown, it can be determined just as easily and precisely as the cutting depth.

The position of the infeed jaw is also indicated digitally, the jaw and the entire fence can also be moved incrementally.

## Integral fence with filling bar



Integral fence with filling bar T 2029/T 2629

The opening at the fence should be as small as possible and the work piece should be able to slide along the fence smoothly.

Both is possible with the integral fence. The bars of the jaws made of hard coated aluminum can be positioned easily and – very important – their height is adjustable.

The bars can be stored in the fence just as easily, so that you can also work with a plate.

## Swinging support for feed unit



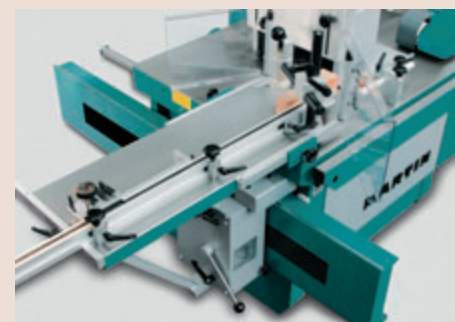
Swinging support for feed unit T 2041/T 2641

The perfect positioning of the feed unit mounted to a conventional support often takes a lot of time. The MARTIN-feed support, however, really supports you and has many decisive advantages.

Simply unlock the latch and swing the feed unit aside to do the set-up of the machine. After the set-up, just bring it back into the working position until it locks into position and start working!

The feed unit is adjusted absolutely parallel to the fence so it is not necessary to do corrections to the adjusted angle. Another advantage is the comfortable motorized height adjustment of the feed unit.

## Sliding table



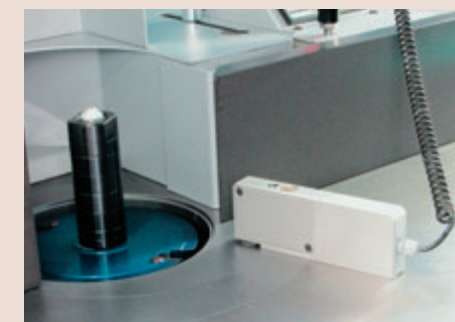
Sliding table for shaper T 2080/T 2680

Whether you do profiling of bigger cross sections or mortising and tenoning, it all can be done easily with the sliding table.

The solid table, which offers a large and safe support, can be turned in both directions up to an angle of 45° (fence up to 65°). Thus, also diagonally cut pieces can be fixed and worked safely.

If the sliding table is not needed, it can be lowered to the level of the machine table and therefore also be used as a table extension on the left hand side. The support beam can be moved to the rear until it is flush with the front of the machine.

## Calibration unit



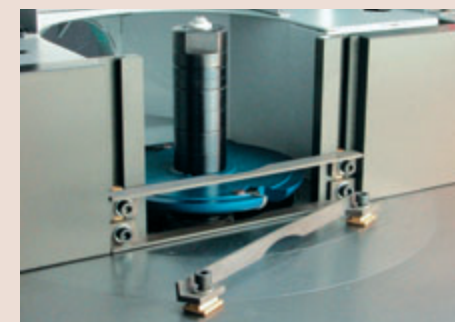
Calibration unit for height adjustment of tool T 2004/T 2604

The set-up time can be reduced noticeably using the calibration unit. The inserted tool is brought up against the electronic sensor.

When the tool has reached the table level, the indication of the relative height of the machine is set to '0' and you adjust the required cutting height according to the digital readout.

This device, in combination with the digital fence T 2027/T 2627 helps you to save a lot of set-up time. With that option the cutting depth can also be set electronically - quickly and exactly.

## Guide arms



Anodized guide arms T 2028/T 2628

The slim guide arms support the piece perfectly and prevent the piece from falling into the opening of the fence. They can be used for nearly all kinds of works.

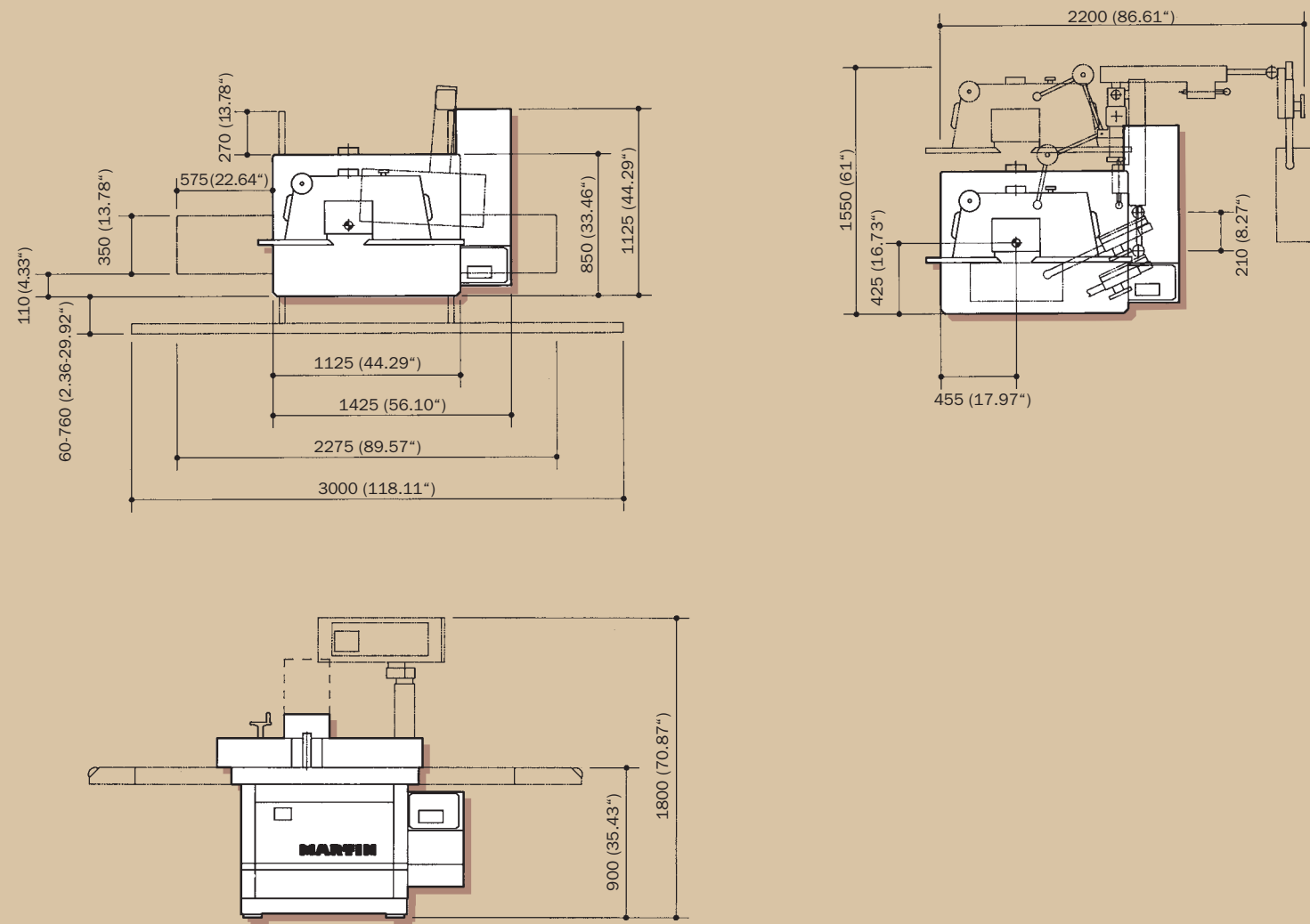
The bars made of anodized aluminum are inserted from above into the t-slots of the standard fence jaws and then positioned.

The bars have the dimensions 260x3 mm, they can also be supplied with the dimensions 260x6 mm or 300x6 mm.

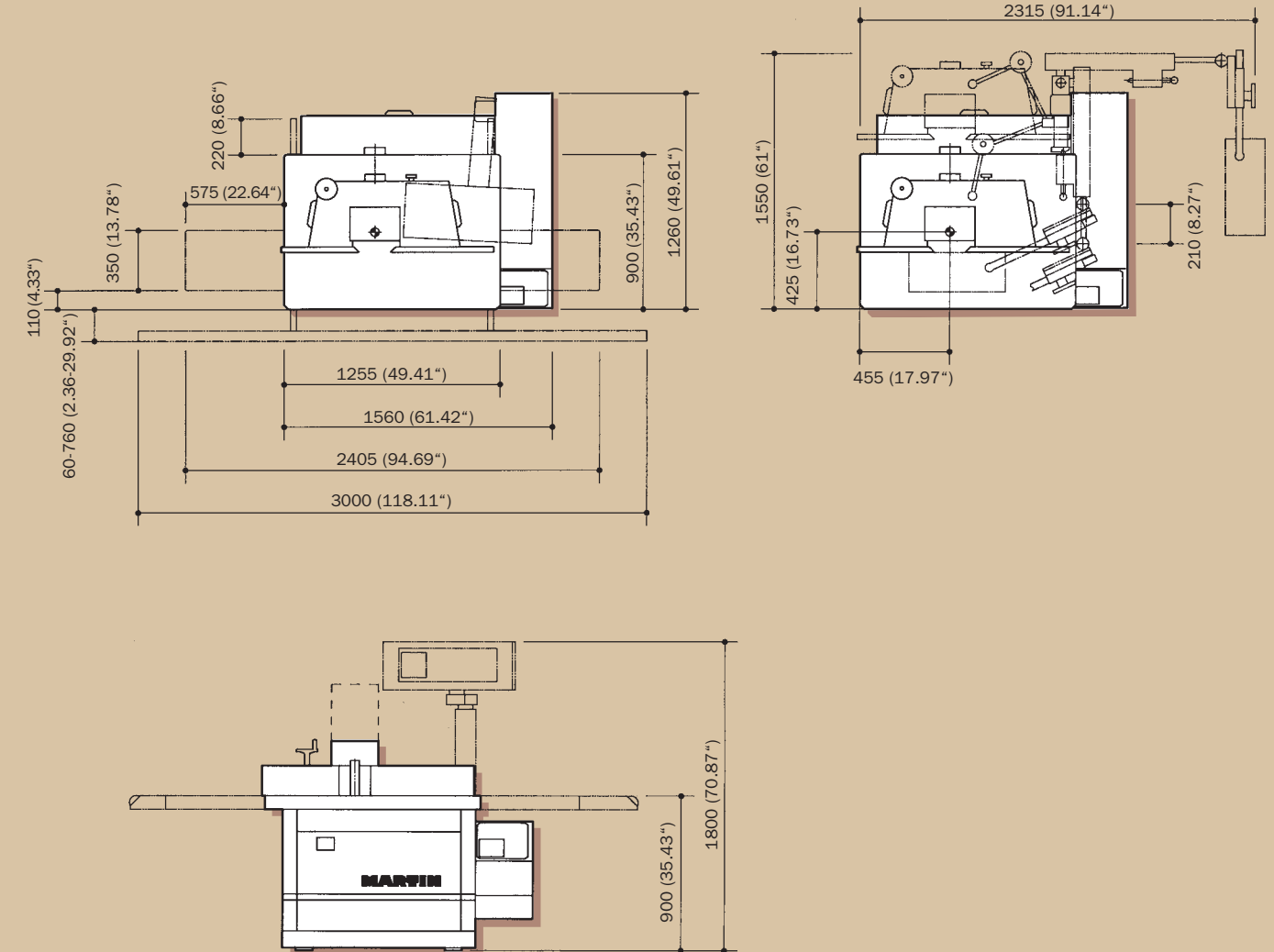


# Technical data

## Shaper T 20



## Tilting arbor shaper T 26



### Technical data

### T20

<b>Motor power:</b>	5/6 kW (6.8/8.2 HP)
Optional:	7,5/9,5 kW (10/13 HP)
<b>Spindle tilting range:</b>	—
<b>height adjustment, electric:</b>	150 mm (5.9 in)

**Speed:** 3.000/4.500/6.000/9.000 rpm

**Infinitely variable speeds (opt.):** 1.000 - 12.000 rpm

**Table openings:** 305/225/160/105/72 mm (12/8.86/6.3/4.13/2.84 in)

**Electrical table opening (opt.):** for tool diameter min. – max.  
70 - 220 mm (2.56 - 8.66 in)

### Extraction ducts:

Machine	120 mm (4.72 in) (min. 20 m³ at 1000 Pa)
Fence	120 mm (4.72 in) (min. 20 m³ at 1000 Pa)

### Dust emission values acc.to E DIN 33893

Input side	0,37 mg/m³
Output side	0,29 mg/m³

### Noise values acc. to EN 848-1

Idling	76,0 dB(A)
In operation	87,6 dB(A)

**Weight :** 980 kg (2160 lbs.)

### T26

<b>Motor power:</b>	5/6 kW (6.8/8.2 HP)
Optional:	7,5/9,5 kW (10/13 HP)
<b>Spindle tilting range:</b>	+/- 45,50°
<b>height adjustment, electric:</b>	150 mm (5.9 in) 125 mm (4.92 in) (7,5/9,5 kW motor)
<b>Speed:</b>	3.000/4.500/6.000/9.000 rpm
<b>Infinitely variable speeds (opt.):</b>	1.000 - 12.000 rpm
<b>Table openings:</b>	305/225/160/105/72 mm (12/8.86/6.3/4.13/2.84 in)
<b>Electrical table opening (opt.):</b>	for tool diameter min. – max. 70 - 220 mm (2.56 - 8.66 in)

Machine	120 mm (4.72 in) (min. 20 m³ at 1000 Pa)
Fence	120 mm (4.72 in) (min. 20 m³ at 1000 Pa)

Input side	0,37 mg/m³
Output side	0,29 mg/m³

Idling	68,6 dB(A)
In operation	84,6 dB(A)

**Weight :** 1.300 kg (2865 lbs.)

### Warranty:

MARTIN offers a warranty of 12 months, if the completely filled out certificate of warranty has been sent in after installation of the machine.

Dimensions and technical data are subject to technical innovation and can be changed without notice.

All dimensions are indicated in millimeters.

Made in Germany