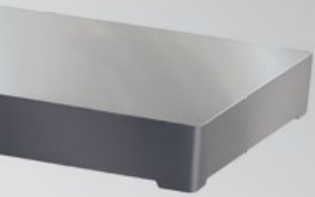




plan 51L
plan 51

The Surface Planers

The heavy duty plan 51L planer impresses at first glance with its 3000 mm planing table. The infeed table alone is 1800 mm in length, more than enough support surface for large workpieces. The solid, ribbed planing table, 510 mm planing width and a modern machine concept fulfils the highest of requirements of the professional user.



plan 51L

- Surface planing width 510 mm
- Surface planer table length 3000 mm
- 4-knife Felder system cutterblock as standard, optional 4-knife-standard blade cutterblock, Silent+POWER® spiral cutterblock or Tersa knife system

plan 51

- Surface planing width 510 mm
- Surface planer table length 2250 mm
- 4 knife Felder system cutterblock as standard, optional 4 knife-standard blade cutterblock, Silent+POWER® spiral cutterblock or Tersa knife system

The machine illustrations may show optional equipment. Please refer to your individual quote for clarification on which options are included.

Revolutionary: Silent-POWER® cutterblock



**FORMAT-4
Highlight**



Smaller chips - compact better

The optimised extraction hood ensures that the noticeably shorter chips are effectively extracted and land considerably more compact in the dust bags.

Sensationally quiet planing and money saving!

Exclusive for planer/thicknessers from the FELDER GROUP

The Silent-POWER® Spiral cutterblock reduces noise emissions by more than half when planing. The continuous pulling cut ensures tear-free results when planing all types of wood. With this revolutionary new development from Felder you are obtaining all of the advantages of a spiral cutterblock at considerably lower operating, investment and adjustment costs.

The advantages of the Silent-POWER® cutterblock at a glance ...

- Sensationally quiet, noise emissions halved
- Blade life up to 20 times longer
- Four highly precise cutting edges on each knife
- Optimised chip extraction and reduced chip volume
- Tear free planing results
- Reduced power consumption when compared to similar systems



Surface planing with a 4-knife cutterblock

The plan 51 featuring the Format-4 system cutterblock with a diameter of 120 mm and 4 knives, outstanding performance and precision.

For decades the Format-4 system with double sided disposable planer knives has proved its worth. Perfectly manufactured and adjusted in the factory, there is no need to adjust the planer knives and no expensive adjusting tools have to be purchased.

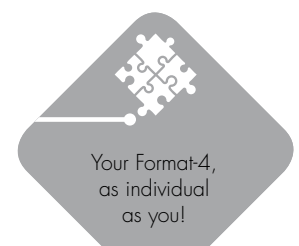
It's simple to change the planer knives. In less than a few minutes you can change all of the Format-4 planer knives and once they have been tightened, they are ready for use! As an option you can also equip your Format-4 with a Silent-Power® spiral cutterblock, or with Standard or Tersa knife systems.

Planer knife adjustment without tools – standard with your FORMAT-4!

- 4-knife cutterblock
- Quick and effortless knife change
- Self-aligning knives are perfectly set each and every time!
- No resin buildup on the clamping bolts.
- Extremely quiet operation due to the enclosed design
- Excellent durability of knife edges
- Cost savings due to the 2 sided low cost knives

Machine options	plan 51L	plan 51
4 knife Format-4 system cutterblock	S	S
4-knife Standard cutterblock	O	O
4 knife TERSA-system cutterblock	O	O
Silent-POWER spiral cutterblock	O	O

S ... Standard features O ... Option

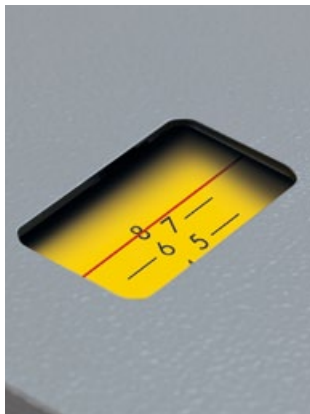


Details that impress!



plan 51: Patented planer adjustment system

Accurate adjustment is obtained with the patented planer adjustment system, which incorporates lateral prismatic guide rails.



The depth of cut can be set to any depth up to 8 mm. Using the integrated magnifying glass you can view the set depth and achieve the exact results that you are looking for.



Quick and accurate adjustment of cutting depth from the operator side of the infeed table.



plan 51L: Planer table adjustment with "Power-Drive"

The "Power-Drive" option enables electrical adjustment of cutting depth up to 8 mm of infeed planer table, all at the touch of a button! (option)

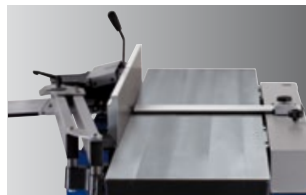


Quick and accurate adjustment of cutting depth from the operator side of the infeed table.

Professional planer fence



FORMAT-4
High-light



The planer fence: A masterpiece of engineering providing stability, precision and performance!

The planing fence can be tilted to any angle between 90° and 45°. There are positive stops at 90° and 45°. The exceptional space-saving design of the planer fence makes it possible to place your planer directly against the workshop wall and still use the entire planing width.



Comfort planer guard

Maximum operational safety and an unprecedented ease of use. The space saving planer guard integrated into the machine chassis also stabilises the workpiece when planing and bevelling the narrow edge. (option)



Aigner combination fence

The auxiliary fence is built into the planer fence ensuring that it does not get in the way when the fence is at an angle.

Machine options

	plan 51L	plan 51
Professional planer fence with parallelogram adjustment	S	S
The Aigner combi-planer fence with reference ruler	O	O
Planer guard EURO "Standard"	S	S
EURO "Comfort" planer guard	O	O
SUVA planer fence	O	O

S ... Standard features O ... Option

Bringing together what belongs together

plan 51L + exact 63

The exact 63 thickener and the plan 51L surface planer with its space-saving planer fence make for the perfect machine combination.





exact 63
exact 51

Precision and comfort for heavy use

Optimised for maximum performance these thicknessers are a complete package of absolute top performance and precision. Innovative control elements and heavy duty, solid precise machine components convince with first class manufacturing and durability at the forefront. Tried and tested Format-4 system components such as the solid thicknessing bed, exact setting accuracy and the four trapezoidal spindles combine together with innovative new developments such as the Silent-POWER® spiral cutterblock to offer a whole new dimension of planing finish quality. Professional machine operators from small and big companies all the way through to industry will profit from perfect planing results.



exact 63

- Thickening width 630 mm
- Thickening height 3–300 mm
- Variable speed 5–20 m/min
- Cutterblock diameter 120 mm
- 4 knife Felder system cutterblock as standard, optional 4 knife-standard blade cutterblock or Silent+POWER® spiral cutterblock
- Electrical position control

exact 51

- Thickening width 504 mm
- Thickening height 3–300 mm
- Variable speed 5–20 m/min
- Cutterblock diameter 120 mm
- 4 knife Felder system cutterblock as standard, optional 4 knife-standard blade cutterblock or Silent+POWER® spiral cutterblock
- Electrical position control

The machine illustrations may show optional equipment. Please refer to your individual quote for clarification on which options are included.

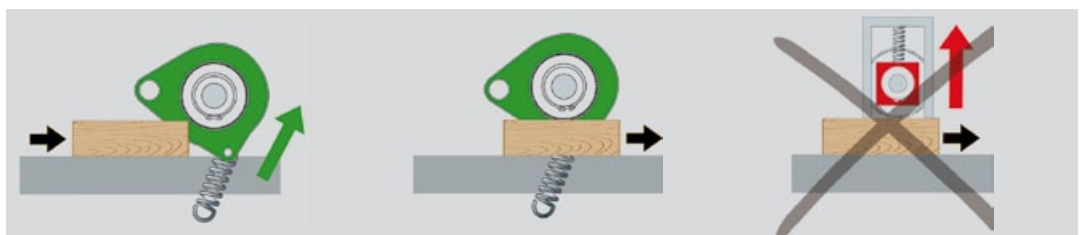
Cutterblock

The cast iron bearing seats for the cutterblock can easily handle any type of work. As an option, the machine can be equipped with rubber coated in- and outfeed rollers, to cope with workpieces of different thickness.

Segmented pressure bar on the infeed side

Kickback guard

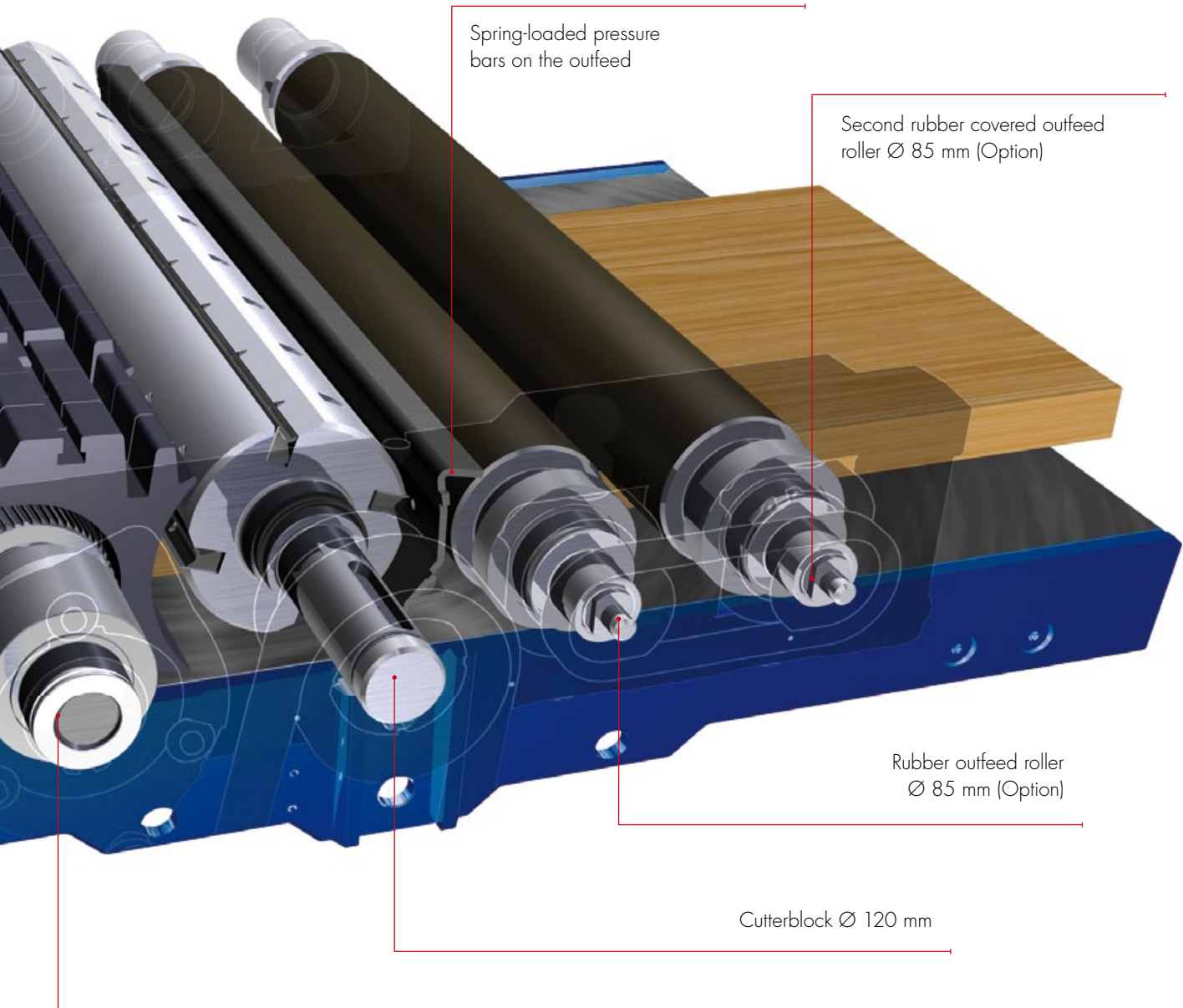
Segmented steel infeed roller, spiral-toothed Ø 85 mm (Option)



Machine options

	exact 63	exact 51
Spring loaded segmented pressure roller on the infeed side	S	S
Spring-mounted segmented pressure bar on the outfeed side	S	S
Steel infeed roller, spiral-toothed Ø 85 mm	S	S
Segmented steel infeed roller, spiral-toothed	O	O
Steel outfeed roller, micro-toothed Ø 85 mm	S	S
Rubber infeed roller Ø 85 mm	O	O
Rubber outfeed roller Ø 85 mm	O	O
+ Second steel outfeed roller, micro-toothed Ø 85 mm	O	O
+ Second rubber-covered outfeed roller Ø 85 mm	O	O

S ... Standard features O ... Option



Spring-loaded pressure bars on the outfeed

Second rubber covered outfeed roller \varnothing 85 mm (Option)

Rubber outfeed roller \varnothing 85 mm (Option)

Cutterblock \varnothing 120 mm

Infeed rollers

The infeed rollers are suspended in place, ensuring that they lift gently when working with a large depth of cut. There are 3 different types of infeed rollers to choose from:

- The spiral micro-toothed infeed roller guarantees that there is a constant feed of the workpiece, not allowing it to slip.
- The rubber coated infeed roller is ideal for thin workpieces or when working with a shallow depth of cut. Workpieces with slight difference in height can be processed simultaneously.
- The segmented steel roller is capable of simultaneously processing a number of workpieces all varying in size. The spiral tooth design ensures a constant feed of the workpiece and is practically wear and tear free.

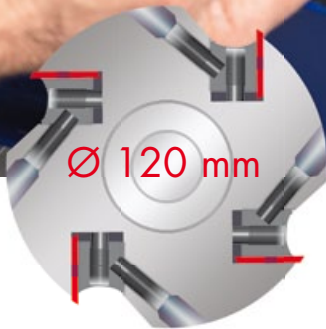
The infeed pressure bar is segmented. Each segment is spring loaded and can move independantly of the others. This guarantees an optimum pressure on the workpiece regardless of the dimension.

Outfeed rollers

An outfeed roller ensures that the workpiece is transported out of the machine smoothly.

For processing predominantly wide pieces of wood there is the option of having a second outfeed roller fitted. A second outfeed roller is of particular benefit when processing long workpieces or problematic material with a high frictional resistance and even if no lubrication solution is used, the result is significantly improved. For a perfect surface finish, we recommend rubber outfeed transport rollers.

Cutterblock options



Four different knife systems to choose between:

- 4-knife System cutterblock - Planer knife adjustment without tools – standard with your Format-4!
 - 4 knife cutterblock
 - Quick and effortless knife change
 - Self aligning knives are perfectly set each and every time
 - No resin buildup on the clamping bolts.
 - Extremely quiet operation due to the enclosed design
 - Excellent durability of knife edges
 - Cost savings due to the 2 sided low cost knives
- 4 knife TERSA-system cutterblock
- 4-knife Standard cutterblock
- Silent-POWER® spiral cutterblock

Machine options	exact 63	exact 51
4 knife Format-4 system cutterblock	S	S
4-knife Standard cutterblock	O	O
4 knife TERSA-system cutterblock	O	O
Silent-POWER spiral cutterblock	O	O
S ... Standard features O ... Option		

Revolutionary: Silent-POWER® cutterblock



FORMAT-4
Highlight

Sensationally quiet planing and money saving!

Exclusive for planing machines from the FELDER GROUP

The Silent-POWER® Spiral cutterblock reduces noise emissions by more than half when planing. The continuous pulling cut ensures tear-free results when planing all types of wood. With this revolutionary new development from Felder you are obtaining all of the advantages of a spiral cutterblock at considerably lower operating, investment and adjustment costs.

The advantages of the Silent-POWER® cutterblock at a glance ...

- Sensationally quiet, noise emissions halved
- Blade life up to 20 times longer
- Four highly precise cutting edges on each knife
- Optimised chip extraction and reduced chip volume
- Tear free planing results
- Reduced power consumption when compared to similar systems



Smaller chips - compact better

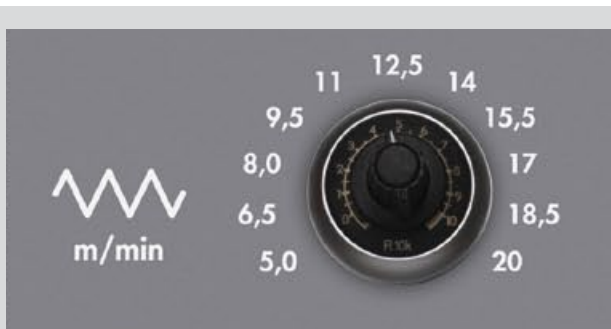
The optimised extraction hood ensures that the noticeably shorter chips are effectively extracted and land considerably more compact in the dust bags.

Control system exact 63 + exact 51

... with "Power-Drive" it is all electric
Turn the control knob for quick adjustment, and push the button for fine adjustment. The LED display clearly shows the actual value.



... with "Digi-Drive" simply type it in
Enter the required dimension, press Start and the thicknesser table will move precisely to the required position. Set and actual values are displayed on LED displays. Additional optional functions, such as incremental position and four programmable thicknesser table positions are available.



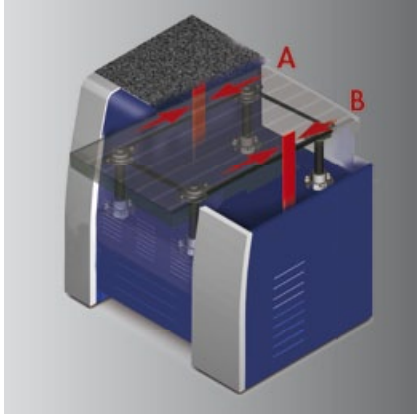
Feed rate

Standard: Variable feed speed of between 5–20 m/min. Whether its a perfect finish or quick thickness calibration that is required, the correct feed speed can always be set to match.

Machine options

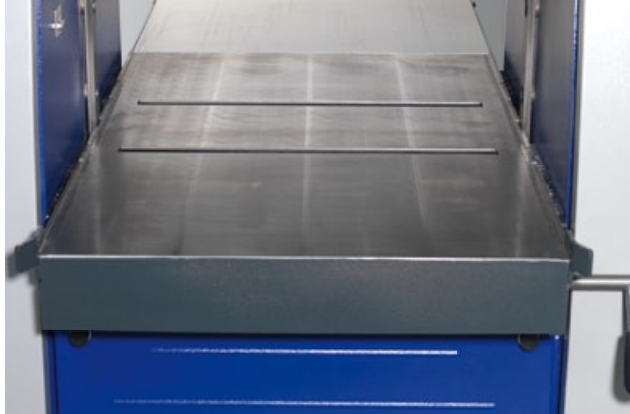
Machine options	exact 63	exact 51
"Power-Drive"	S	S
"Digi-Drive"	O	O
Variable speed 5–20 m/min	S	S
S ... Standard features O ... Option		

Details that impress!



Outstanding stability and long-lasting precision

4 trapezoidal spindles guarantee exact adjustment precision and ensure maximum thickening bed load. Longitudinal guides integrated into the side of the machine chassis absorb the pressure that is put on the outfeed side and ensure that the thickening table is guided with an accuracy of a tenth of a millimetre.



Optional integrated adjustable rollers are available for processing workpieces with high resin or moisture content.



For those customers that regularly process wet or resinous wood, we would recommend the option of the workpiece roller and lubrication unit on the infeed side of the machine.

Height-adjustable scissor table

For especially large and heavy workpieces there is a scissor lifting table with a length of 1150 mm available. The scissor lifting table moves together with the thickening table.





dual 51

A powerful combination, the surface planer thicknesser combination for highly demanding tasks

The clearly laid out machine design purveys at first glance the main highlights of the planer/thicknesser range from Format-4: Stability, reliability and operating comfort of the highest level. The intuitive Format-4 operating concept offers maximum comfort and efficiency. Changing from planing to thicknessing on the dual 51 requires just a couple of hand movements and as an option is also possible at the touch of a button, offering the quickest changeover system in its class.

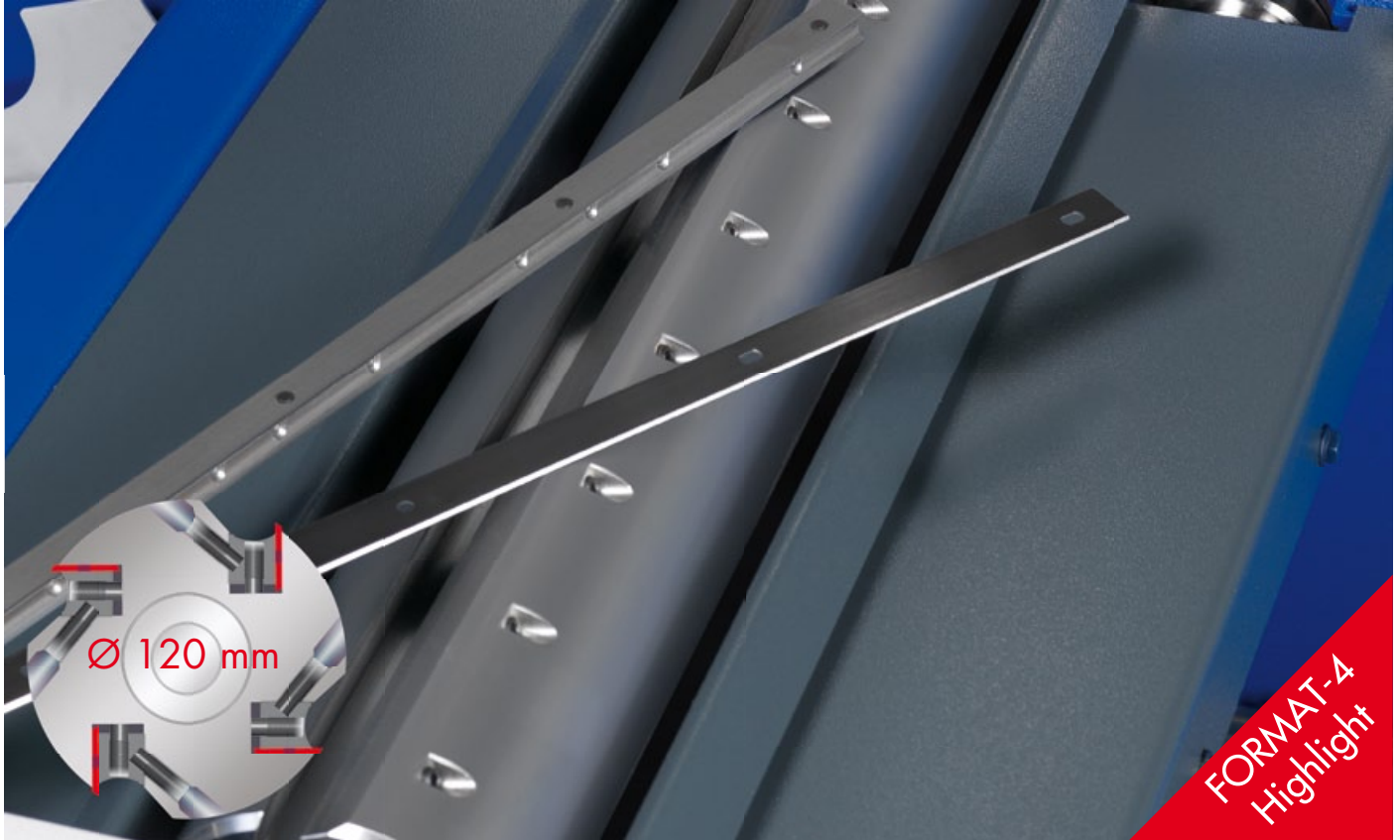


dual 51

- Surface planing width 510 mm
- Surface planer table length 2250 mm
- Variable speed 4–16 m/min
- Cutterblock diameter 120 mm
- 4 knife system cutterblock as standard, optional 4 knife-standard blade cutterblock or Silent-POWER® spiral cutterblock
- Electrical height adjustment of the thicknesser table
- Position control

The machine illustrations may show optional equipment. Please refer to your individual quote for clarification on which options are included.

4 knife cutterblock



Planer knife adjustment without tools – standard with your FORMAT-4!

- 4-knife cutterblock
- Quick and effortless knife change
- Self aligning knives are perfectly set each and every time
- No resin buildup on the clamping bolts
- Extremely quiet operation due to the enclosed design
- Excellent durability of knife edges
- Cost savings due to the 2 sided low cost knives

See and feel the sensational planing results!

For decades the Format-4 system with double sided disposable planer knives proved its advantages. Perfectly manufactured and adjusted in the factory, there is no need to adjust the planer knives, and no expensive adjusting tools have to be purchased.

It's simple to change the planer knives. In less than a few minutes you can change the 4 knife cutterblock, Format-4 planer knives are set and ready to use! With a 120 mm diameter, 4 knife Format-4 quick change self aligning cutterblock, Format-4 have taken planing to a new dimension. As an option you can also equip your Format-4 with a Silent-Power® spiral cutterblock, or with Standard or Tersa knife systems.

Machine options

4-knife Format-4 System cutterblock	S
4-knife Standard cutterblock	○
4 knife TERSA cutterblock	○
Silent-POWER spiral cutterblock	○
S ... Standard features ○ ... Option	

Revolutionary: Silent-POWER® cutterblock



FORMAT-4
Highlight

Sensationally quiet planing and money saving!

Exclusive for planing machines from the FELDER GROUP

The Silent-POWER® Spiral cutterblock reduces noise emissions by more than half when planing. The continuous pulling cut ensures tear-free results when planing all types of wood. With this revolutionary new development from Felder you are obtaining all of the advantages of a spiral cutterblock at considerably lower operating, investment and adjustment costs.

The advantages of the Silent-POWER® cutterblock at a glance ...

- Sensationally quiet, noise emissions halved
- Blade life up to 20 times longer
- Four highly precise cutting edges on each knife
- Optimised chip extraction and reduced chip volume
- Tear free planing results
- Reduced power consumption when compared to similar systems



Smaller chips - compact better

The optimised extraction hood ensures that the noticeably shorter chips are effectively extracted and land considerably more compact in the dust bags.

Control dual 51



... with "Power-Drive"
it is all electric

Turn the control knob for quick adjustment, and push the button for fine adjustment. The LED display clearly shows the actual value.



... with "Digi-Drive" simply type it in

Enter the required dimension, press Start and the thicknesser table will move precisely to the required position. Set and actual values are displayed on LED displays. Additional optional functions, such as incremental position and four programmable thicknesser table positions are available.

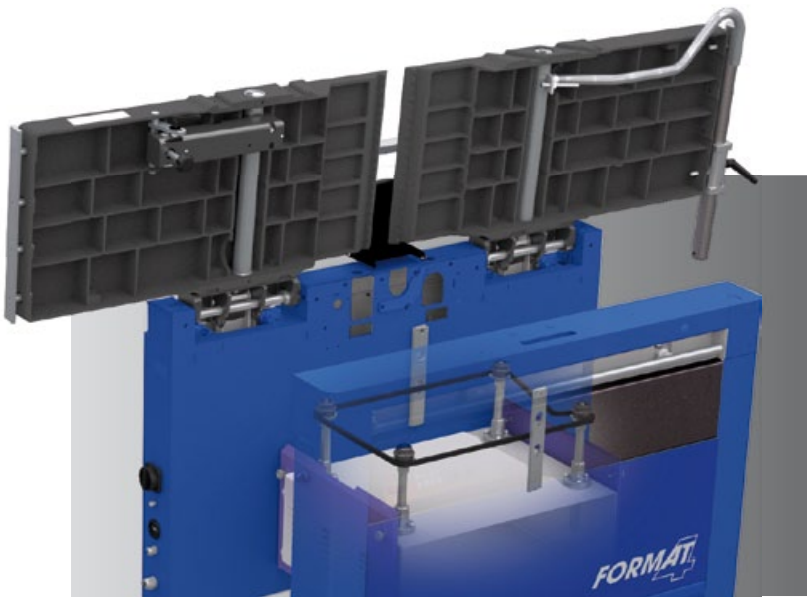
Individual feed speeds

Regardless of the type of wood and grain, the variable feed speed of between 4–16m/min always guarantees a perfect thicknessing result.

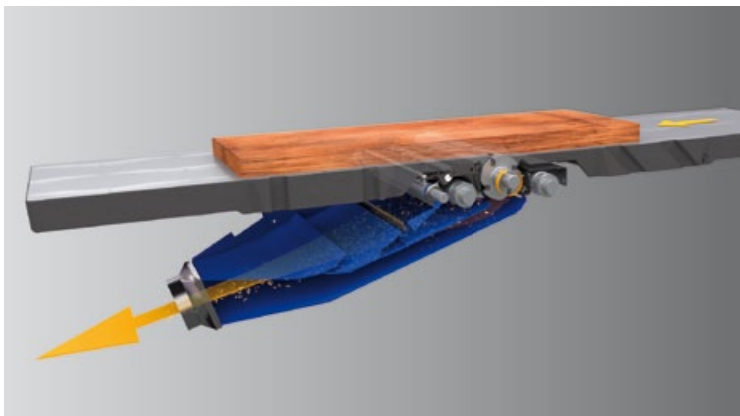
Machine options

"Power-Drive"	S
"Digi-Drive"	O
Variable speed 4–16 m/min	S
S ... Standard features O ... Option	

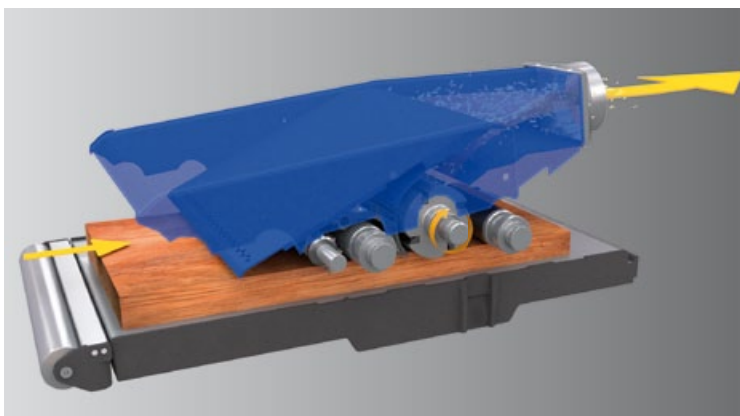
Details that impress!



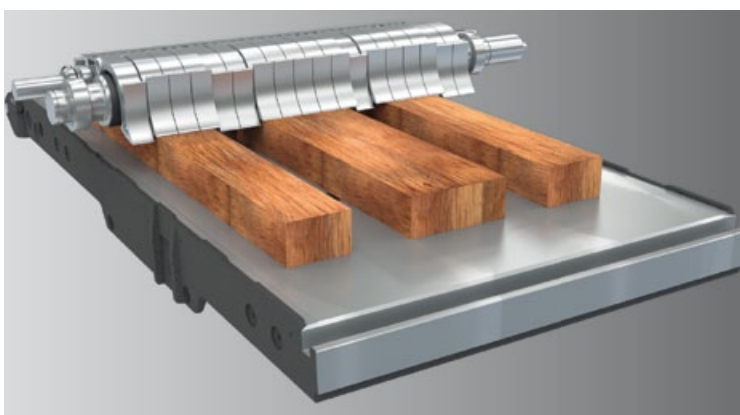
4 trapezoidal spindles guarantee exact adjustment precision and ensure maximum thickening bed load. Longitudinal guides integrated into the side of the machine chassis absorb the pressure that is put on the outfeed side and ensure that the thickening table is guided with an accuracy of a tenth of a millimetre. Optional integrated adjustable rollers are available for processing workpieces with high resin or moisture content.



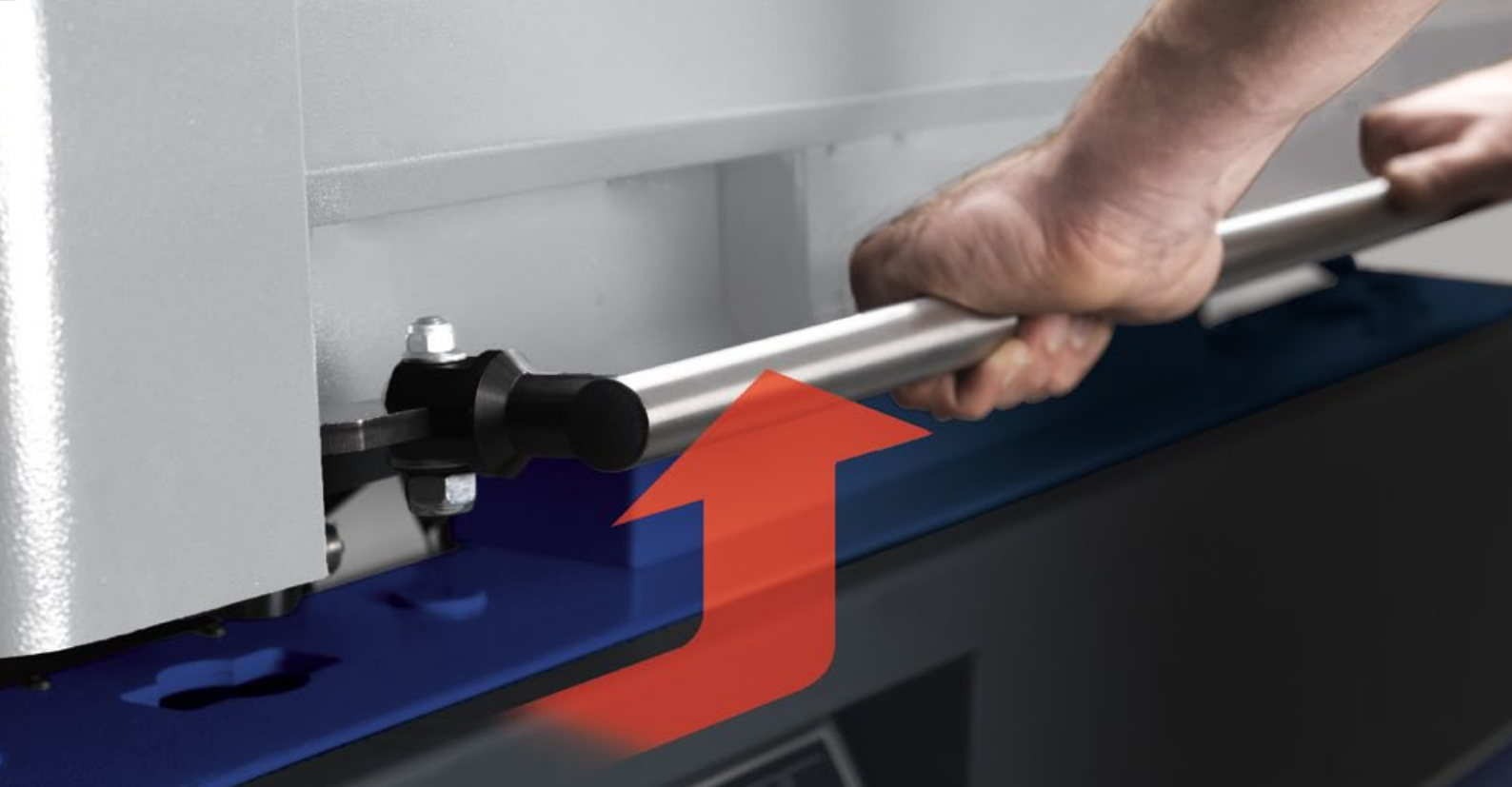
Dust extraction hood. Heavy chip loads and moist wood are no problem for the chip extraction hood due to its efficient design and large dimension.



2 spring-loaded pressure bars prevent "fluttering" of very thin workpieces whilst thickening.



The optional rubber infeed and outfeed transport rollers are the perfect solution when working with difficult, tearout prone, very thin or different thickness workpieces and those jobs requiring minimal final thickness. On request, we can provide a spring-loaded, segmented infeed pressure bar, combined with infeed rubber rollers for simultaneous processing of timber of varying thickness.



Intuitive, synchronised opening of the dual planing table

The tried and tested Format-4 operating concept reduces the effort in changing from planing to thicknessing to a minimum. The intuitive table clamping system makes it possible to synchronously lock and open the planing tables with a twist of the hand, industrial springs assist in the opening.



The new electric automatic changeover

That is first class operating comfort. At the touch of a button you can open and close the planing table when changing from planing to thicknessing and vice versa.



Your Format-4,
as individual
as you!

Machine options

Intuitive, synchronised opening of the dual planing table

Electrical Opening of the planer table

S ... Standard features O ... Option

dual 51

S

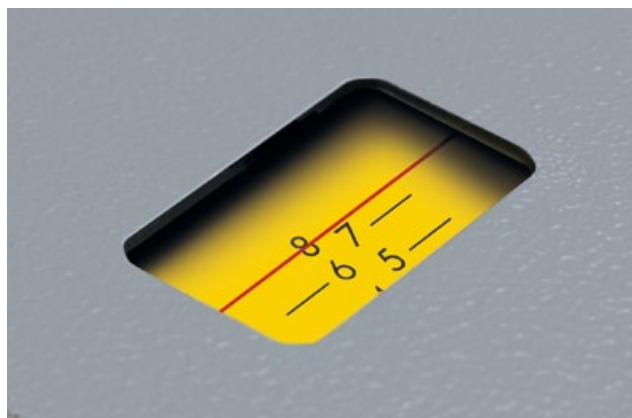
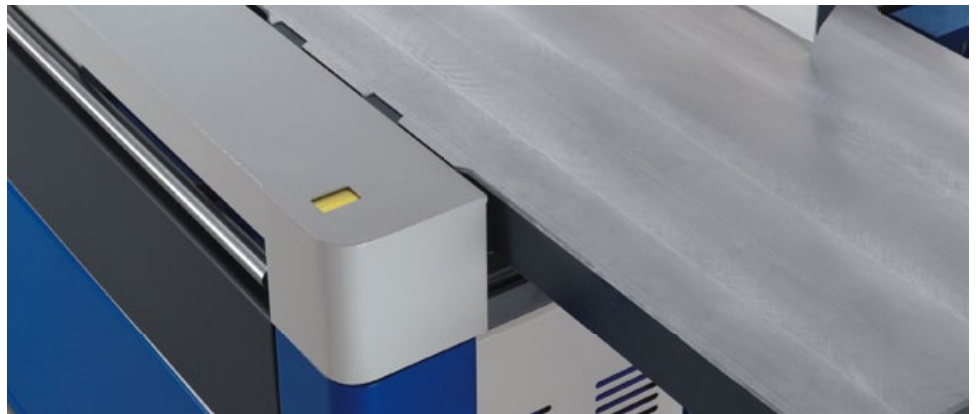
O

Patented planer adjustment system

Accurate adjustment is obtained with Felder's patented planer adjustment system, which incorporates lateral prismatic guide rails.



Quick and accurate adjustment of cutting depth from the operator side of the infeed table.

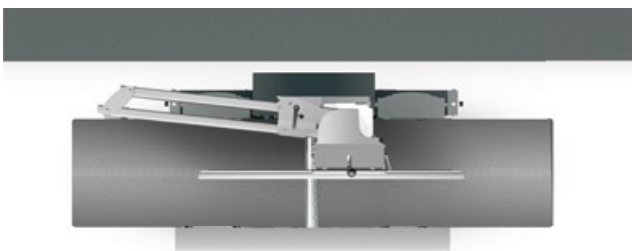
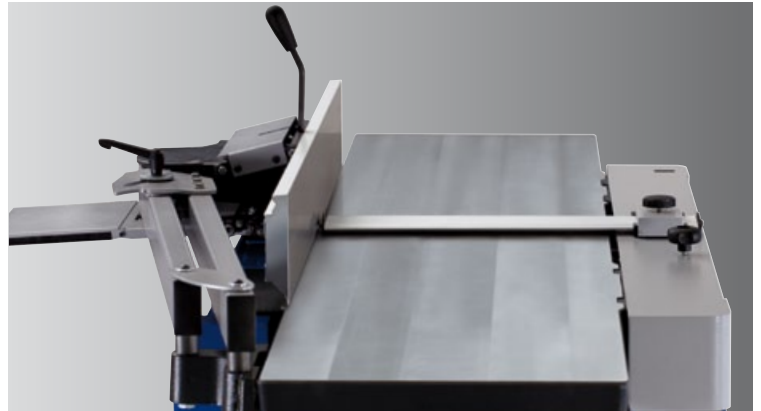


The depth of cut can be set to any depth up to 8 mm. Using the integrated magnifying glass you can view the set depth and achieve the exact results that you are looking for.



The planer fence: A masterpiece of engineering providing stability, precision and performance!

The planing fence can be tilted to any angle between 90° and 45°. There are positive stops at 90° and 45°. The exceptional space-saving design of the planer fence makes it possible to place your planer-thicknessener directly against the workshop wall and still use the entire planing width.



Machine options

Machine options	dual 51
Professional planer fence with parallelogram adjustment	S
The Aigner combi-planer fence with reference ruler	O
Planer guard EURO "Standard"	S
EURO "Comfort" planer guard	O
SUVA planer fence	O
S ... Standard features O ... Option	



The FORMAT-4 planer guard

Maximum operational safety and an unprecedented ease of use. The space saving planer guard integrated into the machine chassis also stabilises the workpiece when planing and bevelling the narrow edge.

Comfort planer guard

Folds in two places. This ensures that it does not restrict you whilst planing.



Aigner combination fence

The auxiliary fence is built into the planer fence ensuring that it does not get in the way when the fence is at an angle.

Technical data

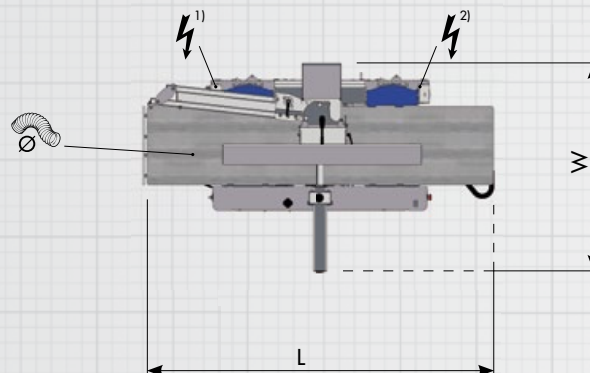


	plan 51L	plan 51
Planer table length	3000 mm	2250 mm
Maximum depth of cut planer/thicknesser	8 mm	8 mm
Surface planing width	510 mm	510 mm
Thicknessing width	-	-
Thicknessing height min.-max.	-	-
5.5 HP (4.0 kW)	S	S
7.5 HP (5.5 kW)	○	○
10.0 HP (7.35 kW)	-	○
15.0 PS (11,0 kW)	-	-
Height (closed)	1270 mm	1270 mm
Height (open)	1650 mm	1650 mm
Working height	890 mm	890 mm
length [L]	2976.5 mm	2252 mm
Width [W]	1662 mm	965–1642 mm
Weight (depending on equipment, without packaging)	920 kg	870 kg
Extraction connection-Ø surface planer/thicknesser	140 mm	140 mm
Acoustic noise level [dB (A)] in accordance with EN ISO 3746 when switched on but not running***	85 ¹	85 ¹
Acoustic noise level [dB (A)] in accordance with EN ISO 3746 when running***	93 ¹	92 ¹
Acoustic noise level at the workstation [dB (A)] in accordance with EN ISO 11202 when switched on but not running***	74 ¹	73 ¹
Acoustic noise level at the workstation [dB (A)] in accordance with EN ISO 11202 when running***	84 ¹	82 ¹

***An allowance must be made to compensate for tolerances with the specified emission values. K= 4 dB (A); S ... Standard equipment ○ ... Option - ... Not available;
¹ ... Planer ² ... Thicknesser Working position 1 ³ ... Thicknesser Working position 2 ^{1,2,3} ... Measured using the Silent-POWER® spiral cutterblock

Space requirement

Scale
1:50



Symbolic image plan 51, plan 51L, dual 51

¹ Mains connection plan 51, dual 51

² Mains connection plan 51L

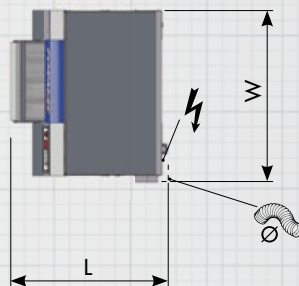
Dimensions given can vary if special equipment is used



exact 63	exact 51	dual 51
-	-	2250 mm
10 mm	10 mm	8/8 mm
-	-	510 mm
630 mm	504 mm	504 mm
3-300 mm	3-300 mm	3-254 mm
-	S	S
S	○	○
○	○	○
○	-	
1193 mm	1170 mm	1270 mm
1950 mm	1900 mm	1650 mm
-	-	890 mm
1226 mm	1113 mm	2252 mm
1262 mm	1000 mm	965-1642 mm
1000 kg	800 kg	870 kg
160 mm	140 mm	140 mm
86 ²	83 ²	85 ¹ /83 ²
91 ²	95 ²	92 ¹ /91 ²
70 ² /70 ³	73 ² /68 ³	73 ¹ /71 ² /72 ³
76 ² /71 ³	87 ² /84 ³	82 ¹ /76 ² /77 ³



Further information about the technical data, individual configuration options and all noise level values can be found on the internet at www.format-4.com



Symbolic image exact 51, exact 63