



SMW 5

→ GRINDING MACHINE IN
WET EXECUTION FOR THE
PERFECT SURFACE FINISH

LISSMAC
METAL PROCESSING


STEELMASTER

SMW 5

GRINDING MACHINE IN
WET EXECUTION FOR THE
PERFECT SURFACE FINISH

→

Some key features

- Touch screen terminal
- Solid industrial frame
- Drying station
- High precision operation
- Integrated filtration unit
- Safety features
- Exchangeable cassettes
- Touch screen control



Take control!

With the PLC and the 10,4 Inch touch screen terminal, taking control of the Steelmaster is a breeze. Every application needs a different setting and setting up a machine takes time. You can save up to 1024 programs meaning that no new setup is needed when a job is repetitive.



10,4" Touch Screen

High accuracy 1/10 mm step high adjustment

Material thickness setting in increments of 1/10 mm (0.0039") or 1/100* mm (0.00039"). The maximum part thickness is 120 mm (4.72"). The minimum part thickness is 0.5 mm (0.02").

* This is optional.



Grinding head



Height adjustment



Drying station

The Steelmaster is standard equipped with a drying station. Parts are squeezed dry by squeeze rollers. There are also two air knives on both sides (top and bottom) making sure no fluids remain on the parts after leaving the machine.



Integrated filtration system

Integrated filtration unit

The Steelmaster has an integrated filtration system to separate the dust from the coolant. This enhances the lifetime of the coolant and the machine.



Squeeze rollers

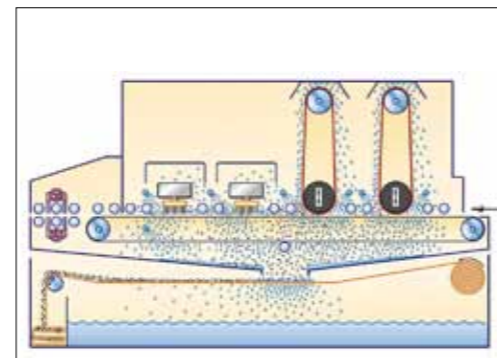


Image: water circulation in the SMW



Easily exchangeable aggregates

In a Steelmaster top brushes and barrel brushes can be exchanged in a matter of minutes. The system is designed in such a way that both brush types will fit into the same aggregate. This brings great flexibility and allows you to do many different applications in the same machine.



Top brushes

Critical parts in dry zone

Every critical part of the machine is kept away from the coolant. All electrical components like motors, frequency inverters and switches are placed in a dry zone. Also the bearings are sealed so that no coolant can get in.



Barrel brushes

Spindles in dry zone.

The entire machine is lifted by four spindles when the part thickness is being adjusted. These spindles are all in the dry zone making sure they are kept clean and maintain their accuracy.



Motors in dry zone



Photo optic tracking eye

Keeping a wide abrasive belt on the right track can be tricky. Steelmaster has solved this problem with a maintenance free photo optic tracking eye which operates a pneumatic cylinder that steers the abrasive belt in the right direction. Another advantage of the optic eye is that it is contact free with the abrasive belt and is wear free.

Tracking of the conveyor belt

The conveyor belt does not need to be adjusted because the Steelmaster is equipped with an automatic tracking system for the conveyor belt. Conveyor belt tracking system.



Photo-optic sensor



Automatic conveyor belt tracking



Belt wear compensation

All heads in a Steelmaster have an independent height adjustment. This is a huge advantage when working with different types of abrasive belts for example Fleece / non woven abrasive.

Having height adjustable heads brings great flexibility to a deburring or finishing machine because it allows you to apply more or less pressure to the surface of a part. It also serves as grit compensation.

Even top brush cassettes can be adjusted making the brushes more aggressive on the edges or to compensate for brush wear.



Independent height adjustment



Motorized head adjustment for the brush heads

Safety features

Standard safety features of the Steelmaster are:

- 3 emergency switches
- Door switches on all doors
- Finger safety switch
- Over thickness protection



Safety switch

SMW 5



APPLICATIONS



DEBURRING



SURFACE FINISH



Easy access

The design of the Steelmaster allows you to open up the entire machine so that maintenance is easy and fast.

All the covers of the machine can be removed within a matter of seconds.

All components within the Steelmaster are easily accessible when the covers are removed.

The motors are easy to lift for brush cassette change and doors are easy to open. No special tooling is required.

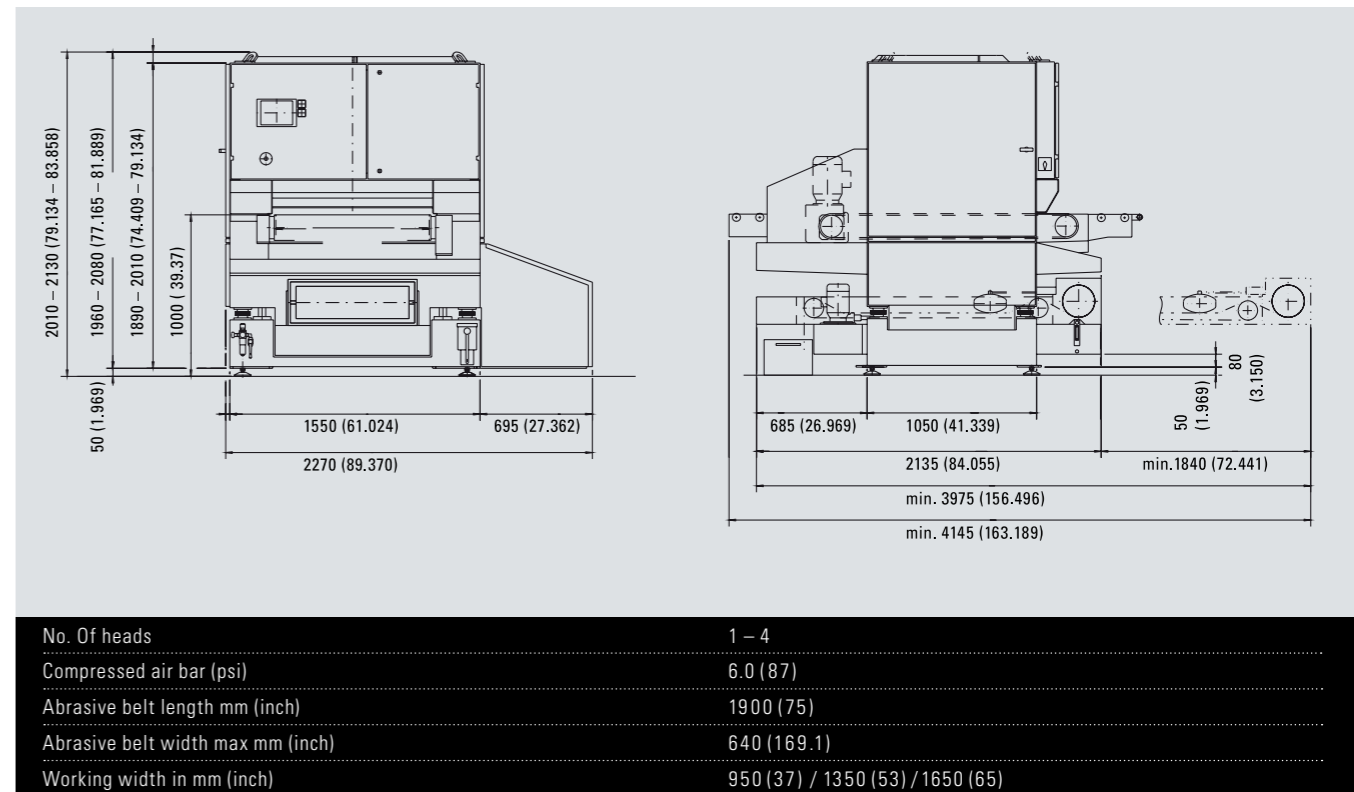


Central lubrication system



Easy Displacement of the motors

Technical Details SMW



Technical data subject to change



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