

STEELMASTER

A DIVISION OF BUETFERING GMBH

SMW wet



Some key features

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

Touch screen control



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



Take control!

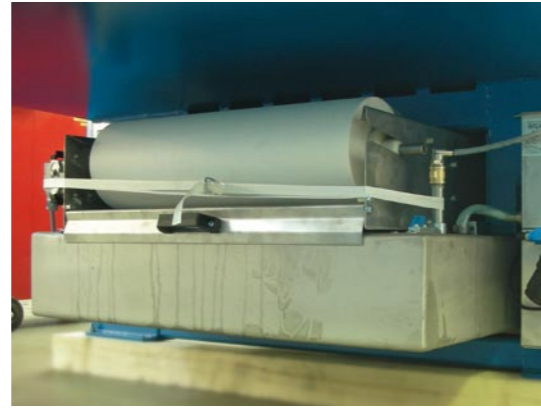
With the PLC and the 14 Inch touch screen terminal control of the Steelmaster is a breeze. Every application needs a different setting and setting up a machine takes time. You can save up to 200 programs meaning that no new setup is needed when a job is repetitive.



Inside machine frame

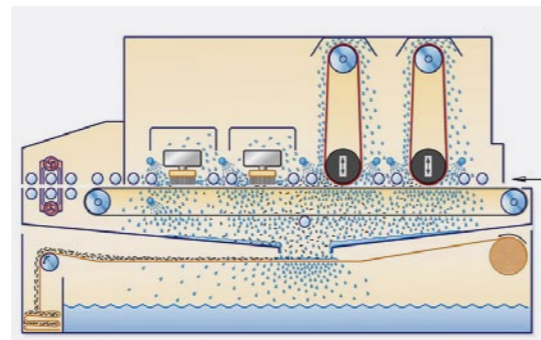
The integrated filtration unit

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



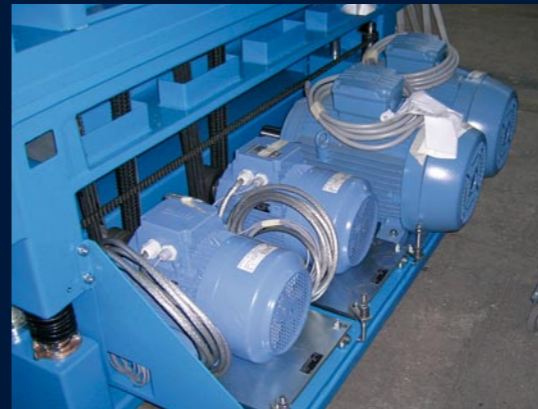
Drying station

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.



Drying of parts

Outside of machine frame in dry zone



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.

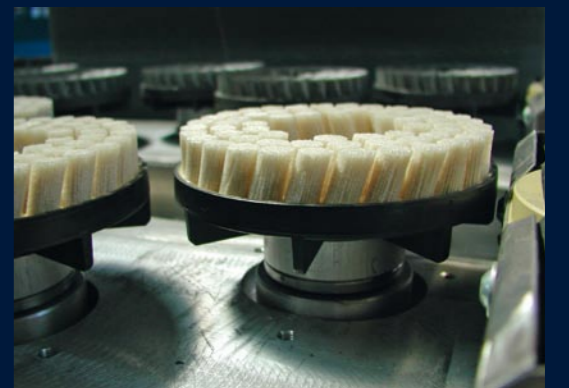
Spindles in dry zone

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.



Easy 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 in to the same aggregate. This brings great flexibility and allows you to do many different applications in the same machine.



Easy exchangeability

Abrasive belt tracking with photo-eye



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.

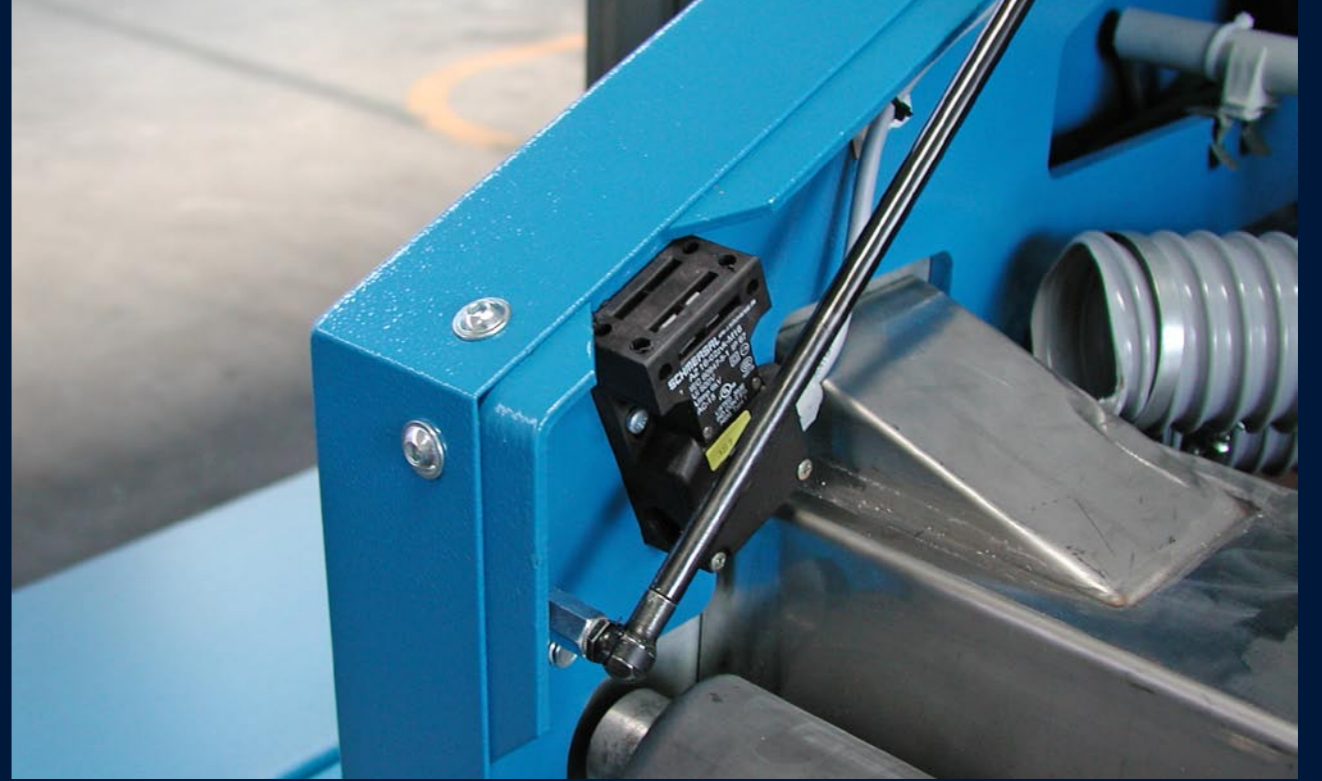
Tracking of the conveyor belt

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



Safety



Safety features

Standard safety features of the Steelmaster are:

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



Belt wear compensation

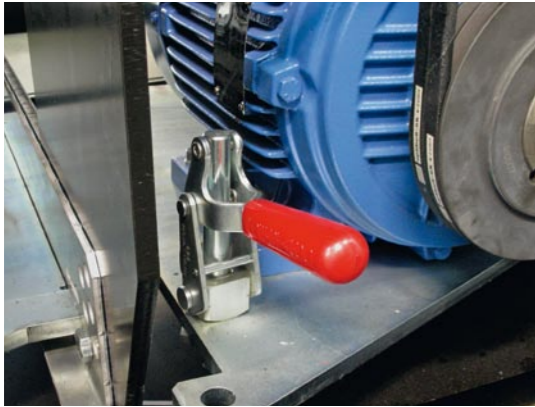
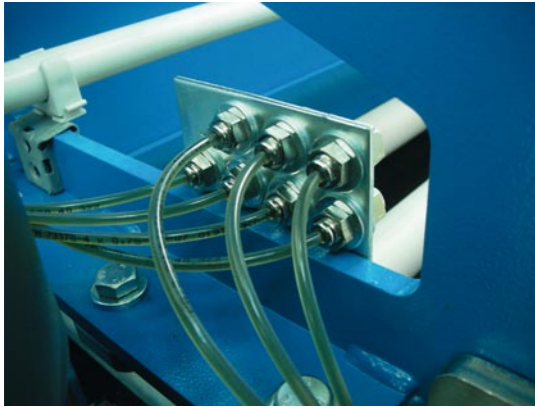
All heads in a Steelmaster have an independent height adjustment. This is a huge advantage when working with different types of abrasive belts for example Scotch brite®

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.



Height adjustable heads



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 easy 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.

Type SMD		Machine dimensions (internet)
No. Of heads	1-4	
Compressed air bar (psi)	6.0 (87)	
Abrasive belt length mm (inch)	1900 (75)	
Abrasive belt width max mm (inch)	970 (38) 1370 (54) 1670 (66)	
Working width in mm (inch)	950 (37) 1350 (53) 1650 (65)	

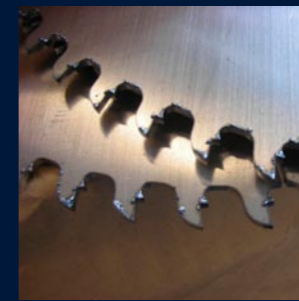
<http://steelmaster.info/url/content/en/downloads/add1.html>



Applications



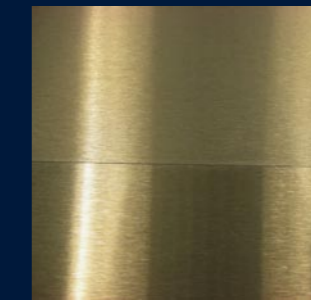
Deburring



Zinc or laminated parts



Polishing



Finishing



Oxidation removal



Edge rounding

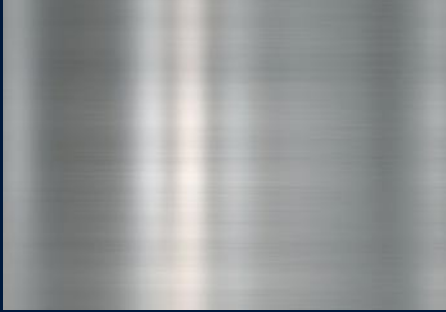


Slag grinding



Deburring up forms





Bütfering Schleiftechnik GmbH

Stromberger Straße 170

D-59269 Beckum

Phone: +49 (0) 2521-842-0

Fax: +49 (0) 2521-842-67

www.steelmaster.info

mail@steelmaster.info



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A DIVISION OF BUETFERING GMBH