

WEBER

WEBER NLC **Wet Grinding**

for laser-cut, punched and nibbled parts



WEBER GD

Grinding roller

for surface finishing and deburring



Advantage:

- Rubber-coated, grooved grinding roller
- Motorised height adjustment
- Setting accuracy +/- 0.1 mm
- Synchronous / asynchronous rotation
- Infinitely adjustable cutting speed

Function:

The grinding roller is a cylindrical tool. It machines the surface and to some extent the edges. The grinding pressure is generated by positioning the roller downwards below the zero level. When approaching the workpieces, the rubber coating of the roller is pushed upwards. The restoring force of the roller is therefore the grinding pressure. There is little tolerance compensation since the restoring force of the roller increases rapidly. The grinding rollers are available in various diameters and degrees of rubber hardness.

Application/use:

Grinding rollers are used for surface grinding and / or removing burrs on flat parts. They allow only slight tolerance compensation, which is why they are predominantly used in the area of thinner sheet metal. Their suitability for grinding small parts that are shorter than the distance between the pressure rollers is limited.

WEBER DR

Planetary head

Edge rounding and descaling



Advantages:

- Perfect edge rounding on all sides
- Definable and reproducible results
- Machining of small parts
- Low operating costs
- Uniform tool wear
- Edge rounding of coated parts
- Compact design
- Quick tool change
- Optional machining on both sides

Function:

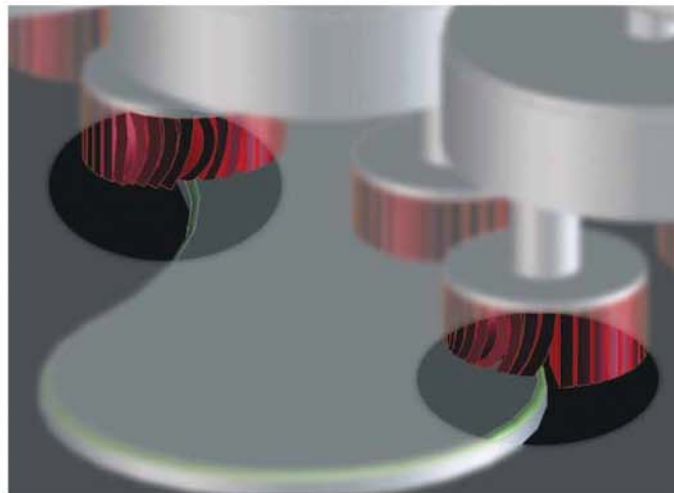
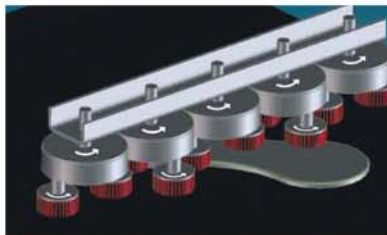
The tools are arranged in groups on planetary heads. Each tool spins around its own axis and at the same time rotates around the planetary head's sun wheel. This achieves optimum grinding results on all edges.

Application/use:

This WEBER technology is used for rounding cut edges on all sides or for descaling cut surfaces on sheet metal from a thickness of 0.5 mm. The system can be utilised in either dry or wet mode.

Options:

Version available as planetary head P(2) with 2 brushes per unit and as P(6) with 6 brushes per unit. The WEBER DR technology can be used from the top and from the bottom



WEBER Touch WEBER 'I-Touch' Operation



Advantages:

- Control of all machine settings
- Clearly arranged display of set values
- Program memory
- Fast program selection
- 'I-touch' for quick correction
- Operator machine management

Function:

The touch screen displays a 3D representation of all electrical functions and settings. The entire machine is operated via the easy to use, clearly arranged touch screen. The various settings can be saved in the program memory. Alternatively, the machine can also be operated with safety gloves using the WEBER 'I-Touch' rotating control knob.

Application/use:

The WEBER touch screen has been a standard for many years. It makes use of the benefits of clear imaging, allowing all the settings to be performed reliably and simply.

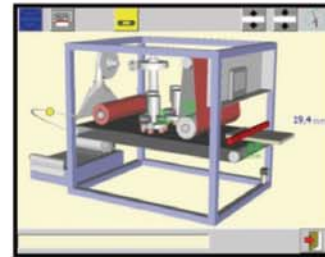
Options:

The control system can be integrated in higher ranking production planning and control systems for production data acquisition.

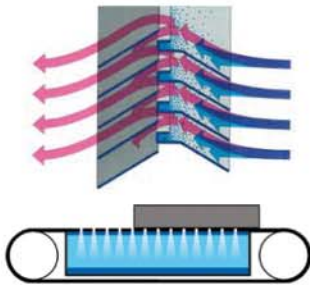
WEBER Wet Grinding Technique

The well-engineered technique uses corrosion-free materials. The drive elements are arranged in the dry area. The water circulation is generously designed, an automatic cleaning cycle increases the availability and reduces the amount of maintenance.

- High cleaning flow rate
- Transport table in vacuum version
- WEBER water separator for vacuum table
- Machine outlet for small parts
- Spraying pipes easily accessible
- Air dies for work piece drying
- Centrifuge for water cleaning
- Belt filter for water cleaning



automatic cleaning cycle



Water separator for transport table with vacuum



machine outlet for small parts



spraying pipes



Squeeze rollers and drying dies



protection against corrosion



steam mist separator

WEBER BS

Brush rollers

for surface finishing and deburring



- Wire brush
- Fleece roller
- Strip brush
- Cleaning brush

Function:

The brushes are cylindrical tools. They finish the surface and to some extent the edges. For system-related reasons, the rounding action of the brushes is much more effective on the transverse edges than on the longitudinal edges. These are only marginally rounded.

Application/use:

Brush rollers are used for surface finishing and for removing secondary burrs after grinding or milling. Surface finishing serves to improve the quality or alter the surface roughness or surface texture. It can also be used for removing material residue following grinding or milling without damaging the surface texture.

Schleif-Bürstkombination:



WEBER Flachbettfilter

Typ: PS-160



Application/use:

The paper belt filter is especially designed for cleaning cooling lubricant or other polluted liquids, used in the metal working industry. Depending on the dirty liquid, the filter can be equipped with a magnetic separator. Thanks to a reliable separation, even specifically light and non-magnetic particles, a high degree of purification can be reached. This type of filter is extremely maintenance and user-friendly.

Function:

The strip-shaped filter paper supplied from a reel is supported and conveyed by a wire-mesh fabric with rollers. Through the appropriate molding, fabric and paper form a filter bin in which the liquid to be cleaned flows through the filter paper into the clean coolant collecting tank, which is arranged under the filter bin. Increasing pollution of the filter media will cause impermeability, resulting in an increased liquid level in the filter bin. Consequently a float switch is actuated and the polluted filter paper will automatically be dragged out until the liquid level has fallen again and the switch-off point of the float switch has been reached. The filter paper with the pollutions is deposited in the bin and can be taken out and disposed without interrupting the filtering process.

Technical data:

- filtering ltr/min emulsion: approx. 160 l/min
- tank volume: approx. 320 l
- filter performance: until 15 μm
- drive: approx. 0,3 kW

WEBER Centrifuge

Typ: W-130 FA-11-0068



Application:

The liquid gets to the centrifuge by help of a feed pump. By means of a flow-optimized driving collar the liquid speed is increased to the drum speed. Particles are intensified at the edge of the slag insert. The pure liquid is returned by means of a die with an exit pressure of approx. 0,5 bar. At standstill the process liquid still remaining in the drum is discharged into a leakage container.

Advantages:

No dirt disposal in the edges due to the round, compact construction. Optimized filter capacity by guidance of the KSS via the flow optimized driving collar. Dry, semi-solid slag discharge. Easy handling, cleaning and maintenance.

Technical Data:

- Throughput approx. 120 l/min
- Speed capacity: 1,950 x g
- Filter capacity: up to 3 μm
- Slag discharge: approx. 12 kg/cycle

Application:

The series WEBER NLC with up to 5 working stations is used for deburring, edge-rounding, descaling and surface grinding of sheet metal parts and plates. The arrangement of the various working stations is freely selectable. The wet grinding process is applied on special materials, in case of danger of excessive material heating, on very oily sheets and on special requirements on the surface quality.

Function:

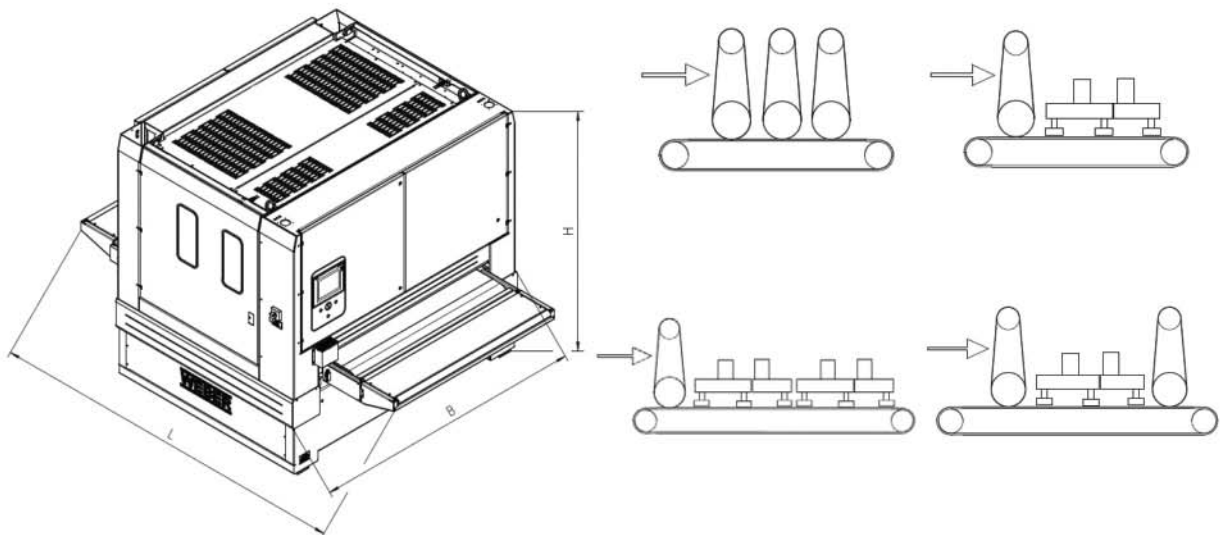
The series has got a wet working method. In order to run the machine an additional water preparation equipment is necessary which preferably is a band pass filter or a centrifuge.

Technical data:

Working widths	600 / 1100 / 1350 / 1600 mm
Working height	900 mm (constant)
Workpiece thickness	0,8 – 120 mm
Abrasive belt length/width	2620 mm / working width + 20 mm
Abrasive belt drive	up to 30 kW
Feed	1-10 m/min



Technical data sheet:



Typ / Type	Arbeitsbreite / Width	Abmessungen / dimensions			Gewicht / Weight in kg
		L	B	H	
NLC-3	1100	1700	1770	2195	5000
	1350	1900	2020	2195	5500
NLC-1P(6)	1100	1700	1770	2195	4000
	1350	1700	2020	2195	4500
NLC-1P(6)1	1100	1700	1770	2195	4400
	1350	1700	2020	2195	4800
NLC-1P(6)P(6)	1100	2250	1170	2195	5000
	1350	2250	2020	2195	5500