



> **DEBURRING AND ROUNDING IN PERFECTION**

The EM 5N II/L represents the 3rd generation of wet deburring technology from ERNST. Configured to process a mix of steel, non-ferrous alloys and coated materials this model delivers intense edge rounding in addition to perfect deburring results.

>> **1. Working Module: The Highly Flexible ERNST Deburring Drum**

The literarily flexible deburring drum removes any burr or dross after laser cutting and/or punching / shearing. The soft foam coating easily adapts to large deviations in material thickness and distortion. Material is mainly removed within a narrow distance from the contoured edges. The point pressure of the abrasive on the solid surface is so low, that coated materials can be processed as well as materials with markings and forms. The ERNST deburring drum concepts only requires simple rectangular sheets of abrasive, reducing consumables cost approximately 50% compared to wide belts.

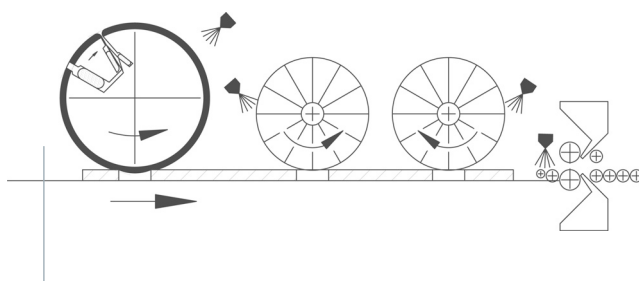
Even extreme dross is reliably removed in a single pass. The deburring drum interacts with the material by it's own weight and is designed to freely float on top of the material. The drum oscillates with over 50 strokes per minute. This guarantees a very even usage of the abrasive. The abrasive is pneumatically tensioned and can be changed in less than 4 minutes. The abrasives have above average lifespan as the consumption is proportional to material removal.

>> **2. + 3. Module: Abrasive Brush Rollers**

Two counter rotating heavy duty abrasive brush rollers, diameter 350 mm, round the edges of your parts by removing material. The rollers oscillate across the feed direction and can also be controlled in RPM (optional). These tools generate a very intensive rounding of the edges as they are required for parts typical in stainless applications in the food processing and medical equipment industry. The rollers are available in both sand paper abrasives as well as abrasive non-wovens.

>> **4. + 5. Module: Washing and Drying Station**

At the exit of the machine a washing and drying station cleans the parts with high volume filtered emulsion sprayed onto the parts. A high pressure air venturi system in combination with a grooved squeegee roll dries the parts efficiently.



EM 5N II/L



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>> Accessories and Special Executions

Small ferrous parts down to credit card size (40 cm²) can be processed with the optional magnetic track. The track covers 300 mm width.

Non magnetic parts such as stainless steel or aluminum can be processed with a vacuum system with a minimum requirement of 100 cm² for the size of small parts

The machine is available in 900 mm, 1400 mm and 1540 mm working width.

>> Other Options

Very oily parts cause premature deterioration of the emulsion and we recommend an oil separator.

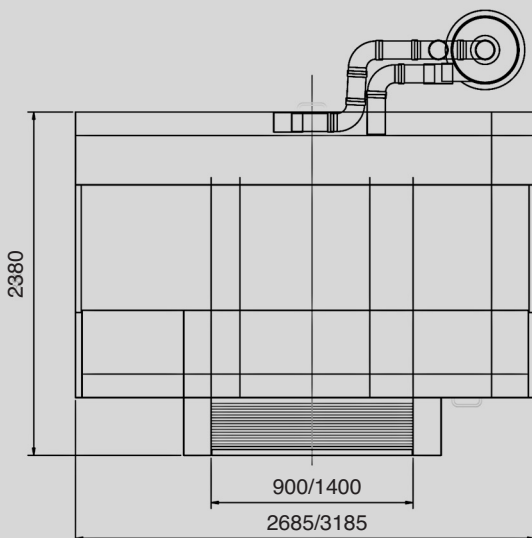
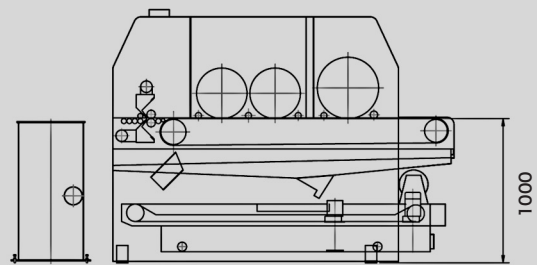
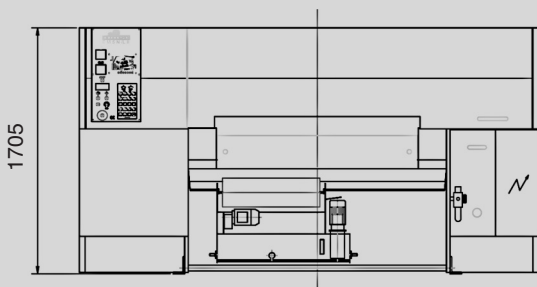
Additionally the machine can be equipped with a pair for spring steel brush heads. These heads are intended to remove laser oxide from the cutting edges of laser cut parts up to maximum material thickness of 25 mm. The execution in this version is named EM 5N II + 2F. See brochure BM2M/F.

For customers primarily processing aluminum a reaction container is available to maintain the integrity of the emulsion and remove even small aluminum particles.

We reserve the right to make design changes at any time without prior notice.

www.cdesign.cc 1500/092008/8015

> TECHNICAL SPECIFICATIONS



EM 5N II/L

Working Width (Standard)	900 mm	1400 mm
Weight	3800 kg	4700 kg
Power	37 kW	45 kW
Amperage	75 A	95 A
Air	80 NI / 5 bar	80 NI / 5 bar
Abrasive Dimensions	900 x1540 mm	1400 x1540 mm