

# LIMA

## Deburring machines

for flame-cut, punched and sawn parts

### DESCRIPTION OF THE MACHINE AND OPERATIONAL CHARACTERISTICS

The parts to be machined are deburred, descaled and derusted by means of self-friction.

Because of the machine's closed structure, noise generation during the deburring process is reduced to only 68 - 72.

By means of a dust extractor installation with a direct effect, pertaining to its standard equipment, the dust developed during the machining is removed automatically.

Also oil-covered punched and sawn parts can be processed by the machine. Sawdust is added into the drum for a machining under these conditions. By means of a time-variation control circuit, the dust extractor can be switched on individually. This being the case, the parts can be deoiled and dried beforehand.



led and dried beforehand. Only when this has been carried out, the dust extractor installation will switch on automatically, so as to exhaust the sawdust from the interior of the drum.

Due to presetting the drum velocity, optimum machinings are guaranteed.

**The machine is in a sound-absorbing protection cabin.**

The deburring machine can be installed at any location, provided that the soil/base is firm.

Once an operating process has ended, the drum will halt in its position, so that the drum flap can be opened without delay.

Each machining cycle lasts about twenty minutes.

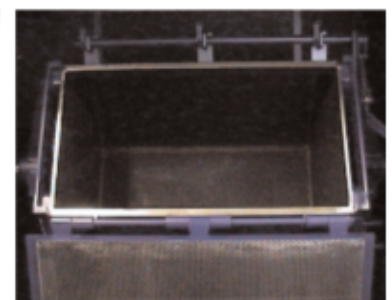
By pressing a push-button, the drum contents can be emptied into EURO-norm containers placed below.

### LIMA-400 L AND LIMA-800 L WITH HIGH-SPEED LOCK



The new deburring machines are equipped with a high-speed drum lock for rapid opening and closing of the drum flap.

The inside lining of the drum consists of highly wear-resistant steel, with a working life of approximately twenty years at single-shift operation.



**Drum for saws flour preparation**

Drive by means of a quintuple 1:3 V-belt via worm gear. Maintenance-free swivel-joint roller bearing

High-speed lock of the drum

Well arranged operator's console with time program

Electronic speed control

Machine bedding on top of oscillation dampers

Ample discharge area, suitable for EURO-norm containers. Perfect access for fork lifters or pallet stackers

built-in dust collection

# LIMA

## Deburring machines

### for flame-cut, punched and sawn parts

#### DESCRIPTION OF THE MACHINE AND OPERATIONAL CHARACTERISTICS

The parts to be machined are deburred, descaled and derusted by means of self-friction.

Because of the machine's closed structure, noise generation during the deburring process is reduced to only 68 - 72.

By means of a dust extractor installation with a direct effect, pertaining to its standard equipment, the dust developed during the machining is removed automatically.

Also oil-covered punched and sawn parts can be processed by the machine. Sawdust is added into the drum for a machining under these conditions. By means of a time-variation control circuit, the dust extractor can be switched on individually. This being the case, the parts can be deoiled and dried beforehand.



Deburring  
Degreasing  
De-oiling  
De-scaling  
Derusting  
Polishing

led and dried beforehand. Only when this has been carried out, the dust extractor installation will switch on automatically, so as to exhaust the sawdust from the interior of the drum.

Due to presetting the drum velocity, optimum machinings are guaranteed.

**The machine is in a sound-absorbing protection cabin.**

The deburring machine can

be installed at any location, provided that the soil/base is firm.

Once an operating process has ended, the drum will halt in its position, so that the drum flap can be opened without delay.

Each machining cycle lasts about twenty minutes.

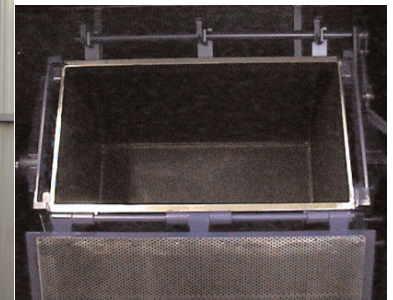
By pressing a push-button, the drum contents can be emptied into EURO-norm containers placed below.



#### LIMA-400 LAND LIMA-800 L WITH HIGH-SPEED LOCK

The new deburring machines are equipped with a high-speed drum lock for rapid opening and closing of the drum flap.

The inside lining of the drum consists of highly wear-resistant steel, with a working life of approximately twenty years at single-shift operation.



**Drum for saws flour preparation**

Drive by means of a quintuple 1:3 V-belt via worm gear. Maintenance-free swivel-joint roller bearing

High-speed lock of the drum

Well arranged operator's console with time program

Electronic speed control

Machine bedding on top of oscillation dampers

Ample discharge area, suitable for EURO-norm containers. Perfect access for fork lifters or pallet stackers

built-in dust collection

The doors can be opened to the extent that also loading from top by means of a tip container or a hoist can be performed. With the aid of touch control, the drum can be moved into any position.

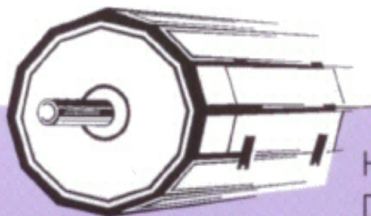


**ADDITIONAL EQUIPMENT**

Tip container for loading by means of a stacker  
 Loading of work-pieces into drum by means of automatic lifting and tipping device

**TECHNICAL DATA**

	<b>LIMA-400 L</b>	<b>LIMA-600 L</b>
Drum contents	400 Ltr.	600 Ltr.
Useful volume	250 Ltr.	400 Ltr.
Average filling weight	600 kg	800 kg
Inner drum width	920 mm	920 mm
Key width	680 mm	878 mm
Max. work dimension	850 x 200 mm	850 x 200 mm
Max. piece weight	30 kg	30 kg
Engine	400 V, 50 Hz, 2,2 kW	400 V, 50 Hz, 2,2 kW
Drive	Worm gear with mechanical brake Transmission via quintuple V-belt	Worm gear with mechanical brake Transmission via quintuple V-belt
Drum rotation	4 - 18 r.p.m., continuous	4 - 18 r.p.m., continuous
Noise generation	68 - 72 dB(A), depending on size of parts and drum rotation	68 - 72 dB(A), depending on size of parts and drum rotation
Space required	3000 x 1500 mm	3000 x 1500 mm
Height	2000 mm	2000 mm
Weight	1950 kg	2159 kg
Standard equipment	Dust extractor installation 400 V version	Dust extractor installation 400 V version
Connection	3 x 400 V, N, PE	3 x 400 V, N, PE



**LIMA**

**Entgratungsmaschinen**  
**Inh. Sören Lindhorst**  
**Entgrattechnik-Industrieausrüstung-Maschinenbau**

Heinrich-Hertz-Straße 16  
 D-23909 Ratzeburg  
 Tel. +49 45 41 / 89 17 81  
 Fax +49 45 41 / 89 17 82  
 e-mail Lindhorst@entgrat.de  
 www.entgrat.de

**WE DELIVER:**

Drums in each size, half or full vending machines  
 hydraulic drum flaps opening  
 Hebekippperäte to that would befall of measures part

**Separiereinrichtung**

Drum selective Manganstahlauskleidung, PUR  
 Kunststoff ca. 95 shore, rubber end clothing

**Special mechanical engineering after customer wish**