

MACHINE-DATA

Machinetype	: Sanding machine
Make	: LÖWER
Type	: DSM 2004
Year	: neu
Control type	:
Control	:
Storage location	: ab Werk
Origin	: Germany
Delivery time	: after arrangement
Quotation	: ex work
Price	: on request



TECHNICAL DATA

Number of sanding units	4 St.
sanding width	190 mm
Sanding height max.	180 mm

TECHNICAL DESCRIPTION

LÖWER-DoubleSander Solid DSM 2004

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- Double-sided four-belt single wood sander for Sanding solid wood such as window frames etc. Highly stable top design with innovative details. Suitable for high continuous loads even with higher chip removals.*
- sanding units arranged one after the other for pre-grinding,
- Fine sanding and finishing sanding, each from above and below*
1. Belt sanding unit with heavy steel roller
 2. Belt sanding unit with rubberized roller and shoe
 3. Finishing unit with fiber brush
- Directly driven grinding rollers for slip-free
- Power transmission*
- maintenance and wear-free CERMET-coated grinding wheels shoes with very good thermal conductivity and absolute
- Dimensional accuracy*
- External cooling of the grinding zones for cooler grinding and longer sanding belt service life
 - force-guided pneumatically controlled sanding belt oscillation
 - effective sanding dust extraction directly on the

Grinding rollers

- Airborne dust extraction on the tension rollers
- Integrated brushing and finishing device with large

Grinding dust extraction

- motorized grinding thickness adjustment via precision threaded spindles and large-sized linear ball screws bearing sets on hardened and ground precision shafts with dust and dirt protection
- Adjustment of the chip removal at the bottom via precision Threaded spindle with dimension display via scale ring (Resolution 0.1mm)

- Sanding belt tension via pneumatic cylinder constant clamping pressure

- Sanding belt change with pneumatic belt relaxation

Within seconds

- Adjustment option for the sanding belt run

Band change

- electro-pneumatic compressed air monitoring
- Anti-running protection via contact roller if it is too thick workpieces
- Workpiece transport via calibrated non-slip and non-stick fixed conveyor belts over heavy, cast tables
- Finely planed surface and spring-loaded pressure rollers with fine adjustment

- Cardan shaft drive for smooth and consistent

Workpiece transport

- Feed gear motor with stepless speed 4-20 m/min
- all motors electrically protected
- ergonomically arranged controls
- digital thickness display (resolution 0.1mm) with modern

Magnetic tape system

Technical data:

- Sanding belt speed 22 m/s
- Sanding belt length 1800mm
- Sanding belt width 200mm

- Working width 190mm
- Grinding thickness 2-180mm
- four brake motors for 5.5 kW drive
- Feed motor 1.5 kW
- Feed speed 4-20 m/min.
- automatic height adjustment 0.37 kW
- two brush units with fiber brushes D 120 x 200mm at 0.37 kW
- Suction nozzle 2 x 180mm 2 x 120mm

- Extraction air speed 20 m/s
- Pneumatic connection 6 bar
- Working height 870mm
- Length (with soft disc 2740mm) 2600mm
- Length with control panel (with soft disc 3035mm) 2985mm
- Width 880mm
- Height 1910mm
- Weight approx. 3300 kg
- Operating voltage 400 volts, 50 Hz, 3P
- CE version

Price of the above machine on request!

Special accessories with additional charge:

Workpiece blow-off

- using nozzles from above and below at the machine outlet arranged, pneumatically controlled

4-belt sanding belt blowout

via nozzles directly on the radii of the tension rollers inside the suction arranged, timer controlled on/off 5 seconds each, can be switched on separately

Disc unit for defibering

- two grinding flap discs with a diameter of 200mm (max. grinding width 180mm)
- Adjustable laterally and in delivery
- including frequency converter for stepless speed control instead of the standard brushing and finishing facility

Soft disc aggregate

a soft disc each at the top and bottom for the intensive defibering cross-section with fine grain size

- Discs with a diameter of 200mm
- Manually adjustable laterally and in delivery
- sensor-controlled automatic immersion
- Continuous speed control via frequency converter
- Boundary ruler min. workpiece thickness 20mm instead of the standard brushing and finishing facility

Roller finish package

- two grooved roller base bodies with grinding lamellas equipped
- Total diameter approx. 180mm
- including frequency converter for stepless

Speed ??control

instead of the standard brushing and finishing facility

Lateral displacement of the entire machine

- adjustable 50-100mm oscillating for more even

Utilization of sanding belts, finishing tools and

Transport system, geared motor 0.37kW

(not available in conjunction with disc/softdisc unit)

Transport freewheel device

- when linked with little distance to the previous machine

External start impulse of the machine via a button

*Control option via an external PLC control (at
chaining in production line)*

DUPLO control

*- additional control panel for attachment to a
upstream machine with the following functions:*

- Start button

- Emergency stop switch

- Height adjustment up, down and 1/10 down

- Digital strength display

- shielded special cable, (max. 20m)

PLC Power Panel package for DSM

instead of standard contactor control

- B&R PLC touch panel for operation and display

- Parameters that can be set using the touch panel are workpiece thickness,

Grinding units on/off, feed on/off,

*Feed speed, belt blow-off on/off (if
available), disc motor (if available)*

- Saving the parameters as machine programs

- Ethernet interface (UDP protocol)

- Manual/automatic operation selector switch

Road connection, preparation for master computer control

Automatic workpiece thickness scanning

(no prior measurement necessary)

*Set of SmartFlex sanding flaps for DSM with sanding flap discs
consisting of:*

60 strips M 35 / 50

*Set of SmartFlex sanding flaps for DSM with flap rollers
consisting of:*

Sanding machine
LÖWER
DSM 2004
Stock no. :1305-5088



48 strips M 55 / 200

Sandpaper disc VB for soft disc
D=200mm grit 280
with velor backing (Velcro), pack of 100.

Prices of the above-mentioned special accessories on request!

(technical information according to the manufacturer - no guarantee!)
All prices quoted are net. plus statutory VAT

VIDEO-LINKS

WEB-LINK

https://lagermaschinen.de/maschinen-datenblatt/Sanding_machine/LOeWER/DSM_2004/1305-5088

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MACHINE PICTURES

