

Instruktionsbok för Rasterrensare

Instructionbook for Copper grid cleaner

WELAND



Raster med slag
Copper grid with slag



Rensning pågår
Cleansing



Rensat raster
Cleansed copper grid

Cutting Grid Cleaner

Technical data

Type	Cutting Grid Cleaner Type 6
Engine No	8367, Pat. # 0203315-5
Manufacturing No	_____
Working Medium	Dry and clean compressed air
Working pressure	6 bar = 600 kPa (6 kgf / cm ²)
Air consumption	
Idling approximately	8 l / s
Rec. Min. hose size min.	6.3mm (1 / 4 ")
Connection	1 / 4 ° BSP
Frequency approximately	120 Hz
Vibration level:	Below 2.5 m / s ²
Noise Level:	82 dBA
Weight:	17 Kg

General description

Simple and easy to use cleaner for profile cutting machines, where slag build up on the cutting grids must be removed. Used along the length of the cutting grids it is an ideal preventative maintenance tool.

Suitable for cutting grids up to 3mm thick.
(For larger sizes, contact Weland AB)

The machine is equipped with cleaning function.

NOTE:

IMPORTANT! Please read the instructions book before the machine is used.

WARNING! - The machine can be hazardous to work with
if the instructions on care not strictly adhered to.

Ear and Eye protection must be used when operating the grid cutting machine.

**EC declaration of conformity according to EC Machinery
Directive 2006/42/EC, Section 2A**

We
Weland AB
Smedjegatan 8
33 328 Smålandsstenar.
Sweden

Declare under sole responsibility that the product: Cutting Grid Cleaner
With machine code: 8367

Type of equipment Air pressure cutting grid cleaner for laser machines.
Model. Typ4
Machine No. 8367
Machine Name Cutting Grid Cleaner

Is manufactured in conformity with Council Directive relating to machinery, 2006/42/EC
with special reference to the section 1 of the essential health and safety in the design of
machines.


The following corresponding standards.

EN ISO 12100:2010

Safety of machinery, general principles for design, risk assessment and
risk reduction

Smålandsstenar 2012-02-18

Weland AB

A handwritten signature in black ink, appearing to read 'Jonas Welandson', written over a horizontal dotted line.

Jonas Welandson
CEO

User Instructions.

Connection.

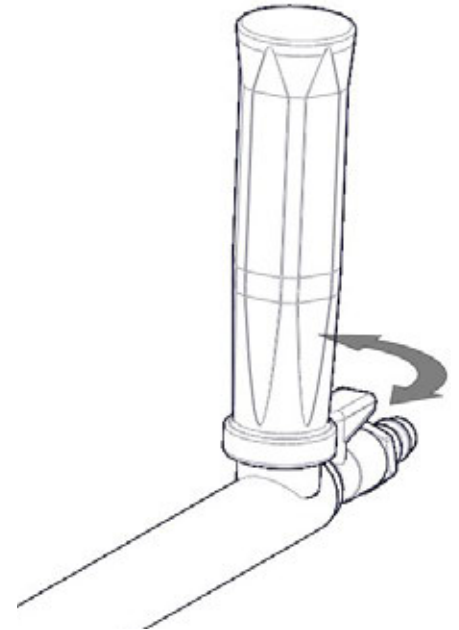
The machine is connected with $\frac{3}{8}$ " tubing - the appropriate length to suit existing compressed air network.
The hose is connected on the handle end (at the tap) with a $\frac{1}{4}$ " nipple.

ON/OFF

Place the machine over the cutting grid and turn the tap to the on position.

The machine should NOT be idled unnecessarily.

To temporarily stop and when not in use, the machine should be depressurized by turning the tap to the OFF position (tap pointing along the length of the tube) or the air should be disconnected.



Operation

The machine fork must be placed over a cutting grid, and then moved backwards and forwards until all the slag is clear. When current cutting grid is clear move along to the next until all cutting beds are clear.

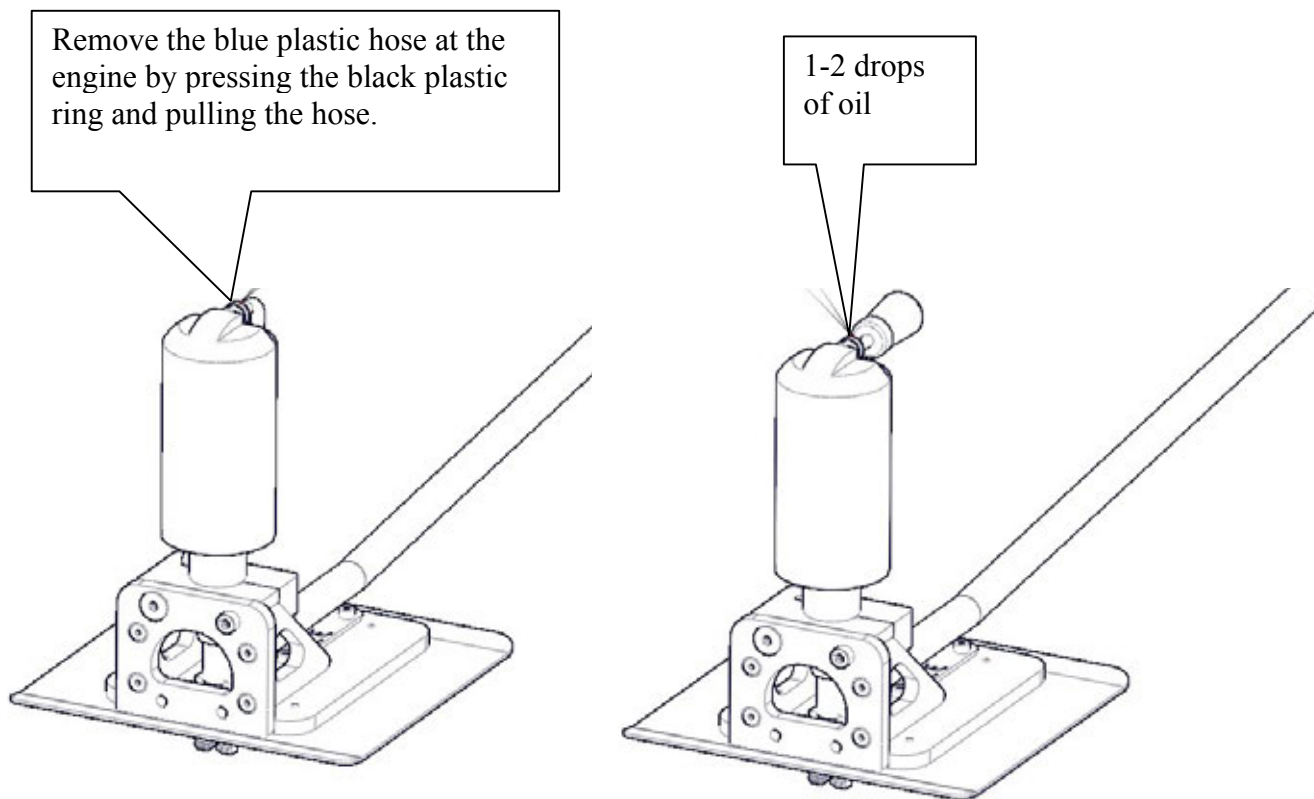
Be careful! Do not push or ram the machine onto the cutting grid. The machine will clean by moving forward or backwards along the cutting grid - do not force by pulling faster than is needed to travel.

Maintenance Instructions

IMPORTANT! Before repairs or service begins, make sure that machine is NOT connected to the air pressure system. Repairs or service must never be started with the machine running or when a risk of harm exists.

Lubrication

The motor must be lubricated after approximately 8 hours of operation. Remove the blue plastic hose at the engine by pressing the black plastic ring and pulling the hose. Pour 1-2 drops of good quality hydraulic oil into the clutch, re attach hose into the connector and test.



Control of the fork.

The fork should always be free in its guide. This can easily be checked by shutting off the air valve with the engine running and observing if the fork moves in relation to the base plate. Make sure the fork is not worn out or broken.

Repair Instructions

When replacing the fork

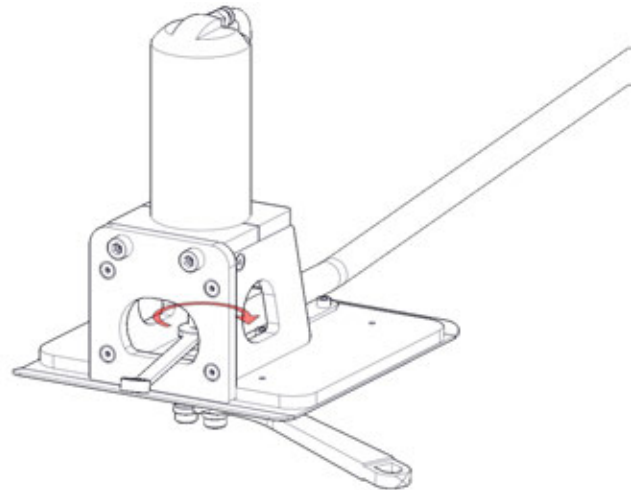
1st Unplug the machine from the compressed air network.

2nd Loosen the nut / clamp ring on the engine (see spare parts list 30-01).
Use the wrench Nr14 and hold the fork with the proper tools.

3rd Pull out the fork / shaft (see spare parts lista1) from the nut / clamp sleeve.

If you can remove the shaft - unscrew the nut / clamp sleeve completely

4th Insert the fork holder in the nut/compression ring as far as possible. Tighten the nut. Make sure the fork is perpendicular to working direction.



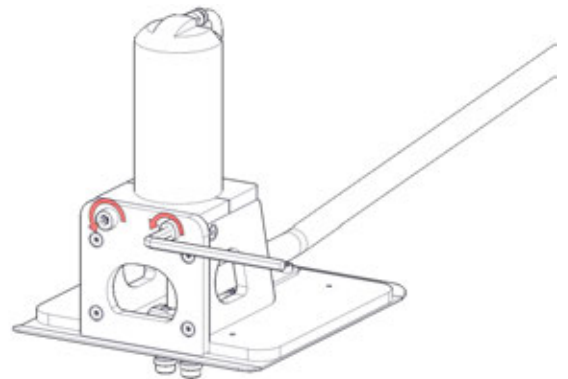
The repair / maintenance of compressed air motor.

1st Unplug the machine from the compressed air network.

2nd Loosen the hose connection on top of the engine (see lubrication).

4th Loosen "Screw Clamps for engine".

5th Lift the engine from the stand.



The repair / maintenance of motor

Threaded connections between the different parts are locked with Loctite and can, in necessary, be heated to 200° c to ease disassembly. Begin with rear part pos 10.

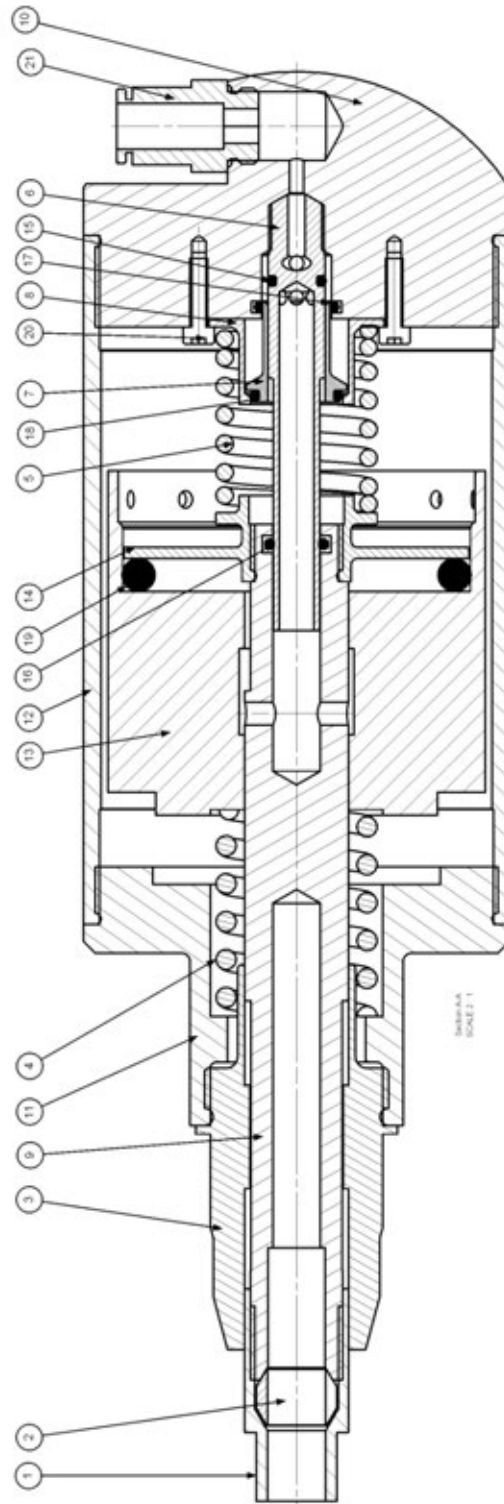
Great cleanliness should be taken when the engine is disassembled / assembled. Check that all parts especially all O rings and springs are intact and well lubricated and not worn. See exploded view of the air motor.

Make sure all the moving parts move freely.

When re assembling, a small amount of thread lock should be used Loctite 2701 apply to all threads. Apart from item 10 and item 12 where Loctite 243 is applied.

NOTE: Check that the fork moves freely in its housing.

Exploded view
AIRMOTOR
30-XX



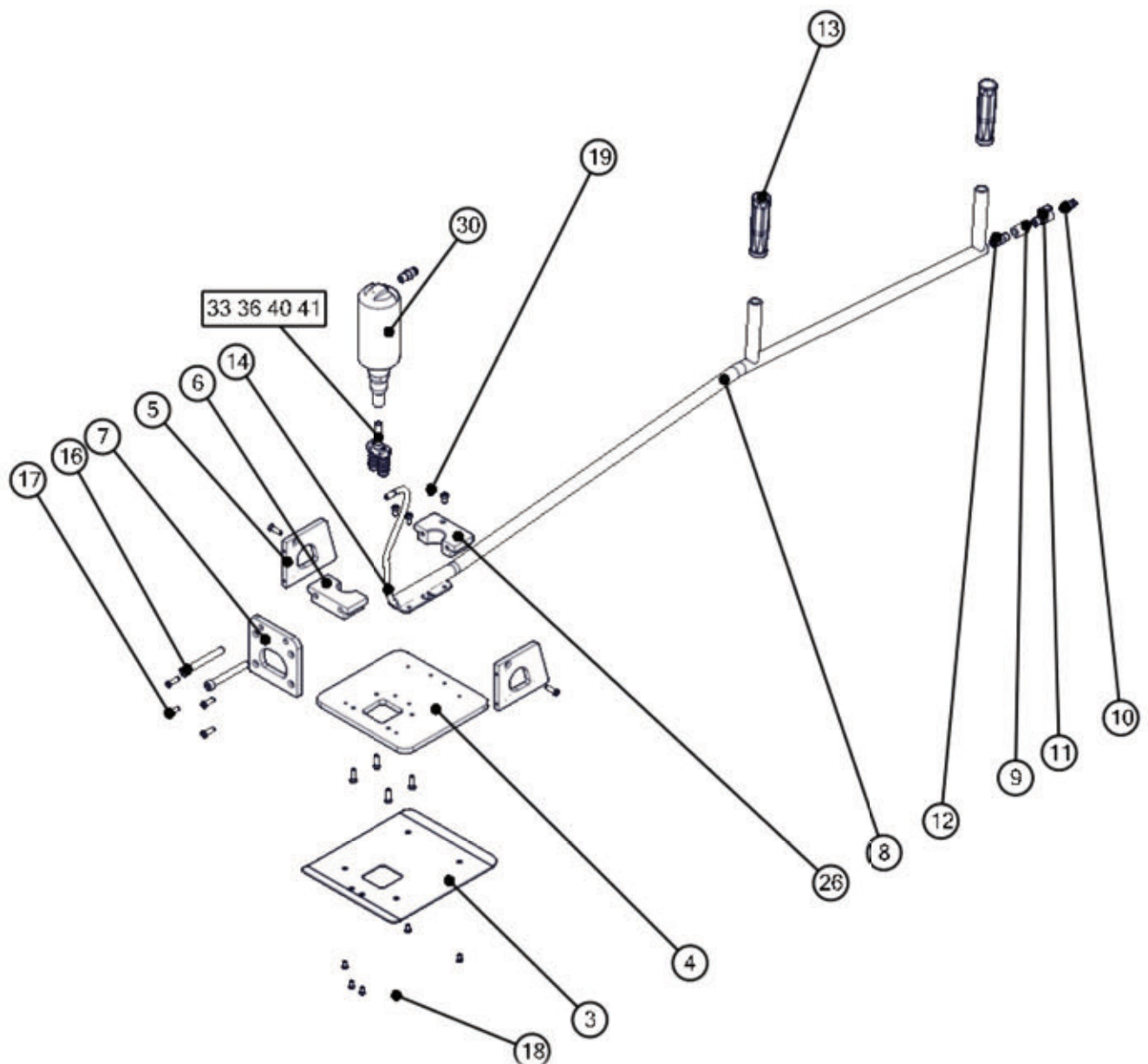
Spare parts list

AIRMOTOR

Item no:	Detail:	Quantity:
30-01	Nut	1
30-02	Compression ring	1
30-03	Body front	1
30-04	Balance Spring anterior	1
30-05	Return spring	1
30-06	Inlet	1
30-07	Shuttle	1
30-08	Spring Seat	1
30-09	Punch Piston	1
30-10	Body rear	1
30-11	connection part	1
30-12	body central part	1
30-13	Body Balance	1
30-14	Drive Flat	1
30-15	O-ring 7.1 x 1, 6	1
30-16	O-ring 7.66 x 1, 78	1
30-17	O-Ring 11.11 x 1, 78	1
30-18	O-ring 12.42 x 1, 78	1
30-19	O-Ring 49.2 x5, 7	1
30-20	Allen screw	1
30-21	Hose Connection	1

Spare parts list

COPPER GRID CLEANER

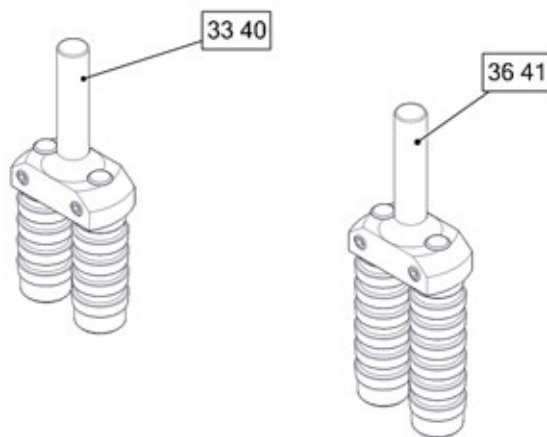


Spare parts list

COPPER GRID CLEANER

Item no:	Pieces:	Name:	PartNo:
3	1	Wear plate	193136673
4	1	Base plate	193141017
5	2	Support plate	193141016
6	1	Motor bracket	193136672
7	1	End plate	193141015
8	1	Handle	193141036
9	1	Crane attachment	193141014
10	1	Coupling	193098604
11	1	Mini ball valve	193098601
12	2	Straight coupling	193098603
13	2	Plastic handle	193098600
14	1	TPU Hose	193098598
16	2	Hex bolts	193141013
17	10	Allen screw	193103521
18	6	Allen screw	193103524
19	4	Hex bolts	193103520
26	1	Motor bracket	193136671
30	1	Engine	193104257

Fork



33	1	Standard fork.	193143853
36	1	Fork high grid.	193143854
40	1	Standard fork fine.	193143857
41	1	Fork high grid fine.	193143859