

# USER MANUAL



## HG Throughput Drum

Model 2017-20xx

## Contents

1	Introduction .....	3
2	Safety .....	4
3	Moving and lifting .....	6
4	Machine components .....	7
5	Setup and connection .....	11
6	Using the HG Throughput Drum .....	12
7	Maintenance and cleaning .....	14
8	FAQ .....	16
9	Technical data .....	16
10	Warranty provisions .....	17
11	EU declaration of conformity .....	19

## 1 Introduction

The HG Throughput Drum can be used for leather side drumming of mink skins in all pelting stations.

The drum is designed to be a simple and user-friendly product that performs optimal processing between the fleshing machine and the closed leather side drum.

The infinitely variable speed allows the operator to fine-tune the process and minimise the amount of dust produced.

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## 2 Safety

### Please read the manual

Machine operators must read the manual thoroughly and receive training in the machine's functions before beginning to use it. If the operator is unaware of certain details, there is a risk of injury while operating the machine.

If any of the warning labels are peeling off, worn or damaged, making the symbol illegible, replace the labels.

### WARNING! High voltage



Before opening the electrical panel, disconnect the power connector and lock it to prevent accidental reconnection. Wait 10 minutes after disconnecting the power before accessing the electrical panel, as power is stored in the frequency converters. The panel may only be opened by authorised personnel.

### WARNING! Rotating parts

Avoid fingers or clothing coming into contact with the machine's moving parts, as this can cause serious injury.

## 2.1 Application

- The machine may only be used to industrially process mink, for the purpose of drumming the skin from the mink body.
- Operators must be over 18 years old and have normal mobility and physique.

## 2.2 Training

- Before commencing, operators must carefully read the instructions in this manual and have learned how to correctly operate the machine, possibly under the guidance of an experienced instructor.
- These instructions should focus on the following:
  1. The need to be careful and focused when working with the machine.
  2. The operator always being aware of what is happening around the machine.
- The operator being responsible for accidents or any dangerous situations that may arise in relation to other people.

### **The key causes of accidents are:**

1. Lack of concentration.
2. Inadequate knowledge of the machine on the part of the operator.

### **2.3 Position, space requirements etc.**

- The machine must be placed indoors on a solid and level surface.
- When the machine is being operated there must be flicker-free and glare-free illumination of at least 300 lx.
- The area around the machine must be kept clear to avoid falls.
- Cables for the machine must be run in such a way that they do not represent a risk, e.g. outside passageways, above head height or in suitable cable trays on the floor.

### **2.4 Preparation**

- When operating the machine, make sure you do not have loose clothing or dangling hair that could become entangled in the machine or around rotating parts. You should also wear non-slip safety footwear to avoid the risk of slipping.
- Keep grease, oil and other consumables for machine maintenance in containers approved for the purpose, and out of reach of children and unauthorised persons.

### **2.5 Maintenance**

Inspect the machine each day to check for visual faults and any bearings or other moving parts that have seized due to fat, sawdust, or other foreign bodies.

Check the following by visual inspection:

- That all bolts, nuts etc. are securely tightened.
- That the v-belt is not defective and is properly tightened.

### **2.6 Disposal/dismantling**

When disposing of the machine, you should contact the local product dealer to ensure the machine is dismantled and disposed of in the most environmentally friendly manner.

### 3 Moving and lifting

Use a pallet lifter or fork-lift to move/lift the machine. Lift the machine from the end indicated with a sign. If the machine has to be fixed in place for transportation, place straps across the frame the drum is resting on. Do not run straps over the drum itself.

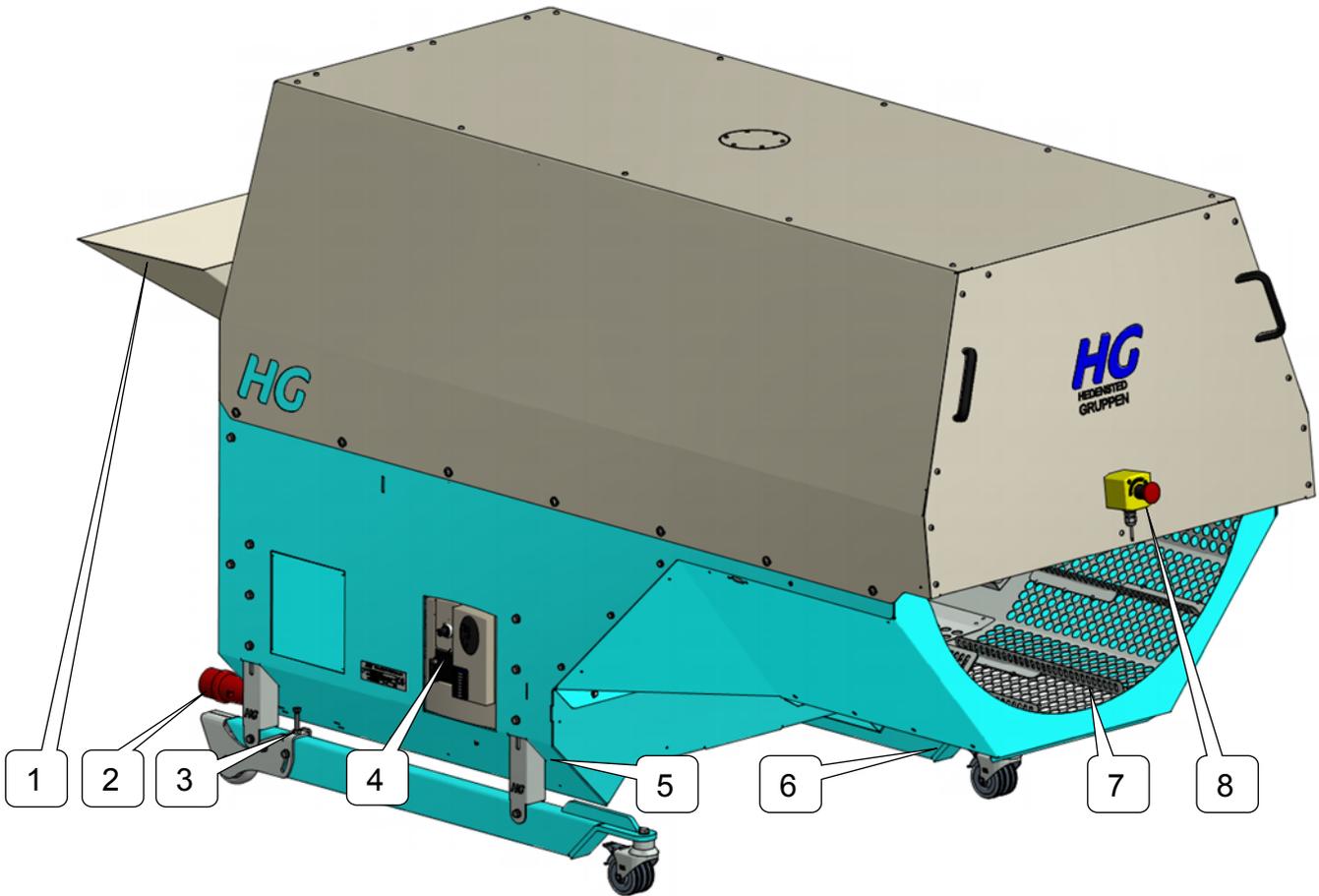
It is not possible to lift the machine using a crane.

**Warning:** Do not attempt to move the machine using equipment not suited to the task.



The machine weighs 330 kg.

## 4 Machine components



1. Inlet chute
2. Power connector
3. Angle adjustment
4. Electricity and control panel
5. Height adjustment
6. Outlet chute (sawdust)
7. Outlet chute (skins)
8. Emergency stop

### 3.1 Inlet chute

Skins are fed into the inlet chute.

Adjust the plate at the fleshing machine outlet down to the drum's inlet chute, so that the distance does not exceed 8 mm.

### 3.2 Power connector

The machine must be connected to a three-phase plug with 3x400 V+N+E with a 16 A fuse.

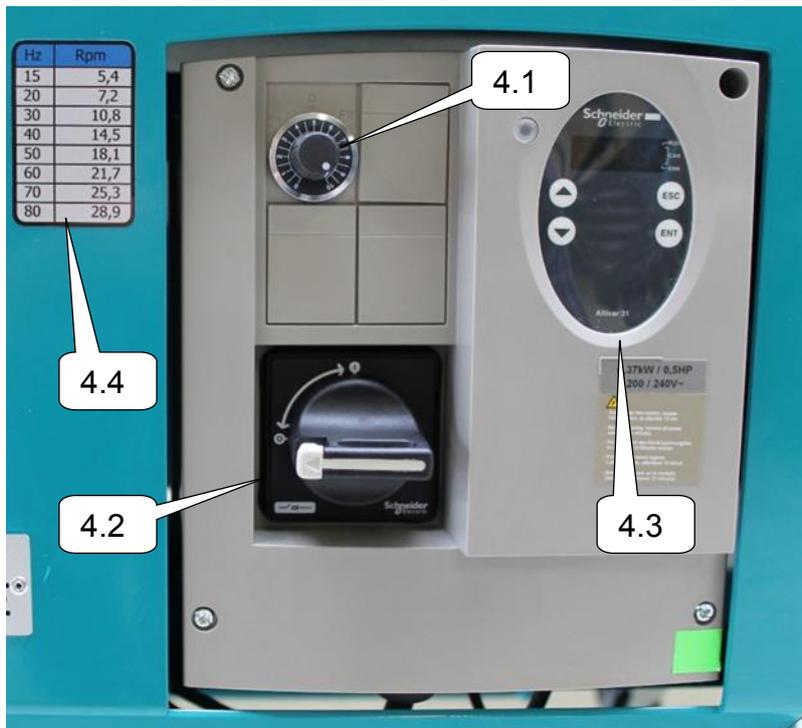
The installation must be approved for operation of the frequency converter.

### 3.3 Angle adjustment

To change the skin throughput speed, adjust the angle by turning the bolts on both sides. The greater the angle, the faster the throughput.



### 3.4 Electricity and control panel



The drum RPM can be adjusted on the control panel by turning the potentiometer (4.1). The drum RPM can be found in the table (4.4) based on the frequency shown on the display (4.3). Switch on the machine by turning the main switch to ON (4.2).

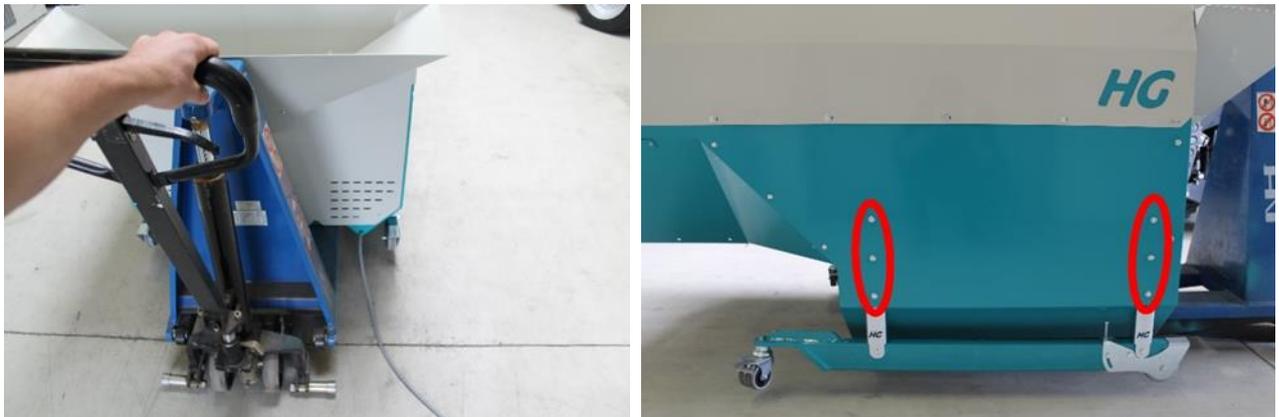
#### **WARNING:**

Before opening the electrical panel, disconnect the power connector and lock it to prevent accidental reconnection. Wait at least 10 minutes after disconnecting the power before accessing the electrical panel, as power is stored in the frequency converters. The panel must not be opened by unauthorised personnel due to risk of injury or death.

### 3.5 Height adjustment

The height of the skin drum can be changed by adjusting the skin drum's legs. This is done using a pallet lifter or similar device to lift the drum off the floor. The bolts can then be loosened and the legs set to the desired height. Once the height has been adjusted, securely tighten all the leg bolts.

**WARNING:** Only adjust the height when the drum is supported as shown on the picture below.



### 3.6 Outlet chute for sawdust

When the skins reach the cleaning section, the used sawdust falls out of this opening. An optional sawdust auger can be purchased to remove the sawdust.

### 3.7 Outlet chute for skins

After drumming, the skins drop out of the outlet chute.

### 3.8 Emergency stop

Turn clockwise to reset.

## **5 Setup and connection**

*Hedensted Gruppen recommends that one of the company's trained technicians be used to set up the machine, to ensure optimum flow and process conditions.*

### **5.1 Setting up**

The machine must be placed indoors on a solid, level floor.

The ceiling height must be at least 230 cm.

In accordance with EN 12465-1:2002, operating locations must have at least 300 lx illumination.

### **4.2 Connection**

#### **Electricity:**

The machine must be connected to 3x400 V with neutral (N) and earth (PE), with a fuse of at least 16 A. It must be connected using a CEE plug or supply isolator for safe disconnection during maintenance or repair.

The installation must be approved for operation of the frequency converter.

## 6 Using the HG Throughput Drum

Once the drum has been adjusted in line with sections 3 and 4 it may be started.

### 6.1 Starting and operating the machine

1. Check that the emergency stop is not pressed in.



2. The drum can be started by turning the main switch to 'ON'.



3. Set the drum RPM using the potentiometer. The display shows the current frequency in hertz. Use the table on the left of the control panel to convert this to RPM.



4. Add a shovelful of sawdust in the inlet chute and the machine is ready for use.
5. The drum now runs automatically. Sawdust and skins are added from the fleshing machine.
6. Switch off the drum by pressing the emergency stop or turning the main switch to 'OFF'.



7. After use, check for skins in the drum.



## 7 Maintenance and cleaning

**Warning:** The main switch must be switched off and secured against unintended connection before beginning maintenance work.

### 7.1 Normal cleaning

Regularly check the motor's cooling surfaces for dust and other impurities. If the dust layer is more than 0.5 mm thick it must be removed.

After use, check the machine for any media that could be stuck in the machine.

Use an air gun to blow dirt out of the motor's cooling fins.

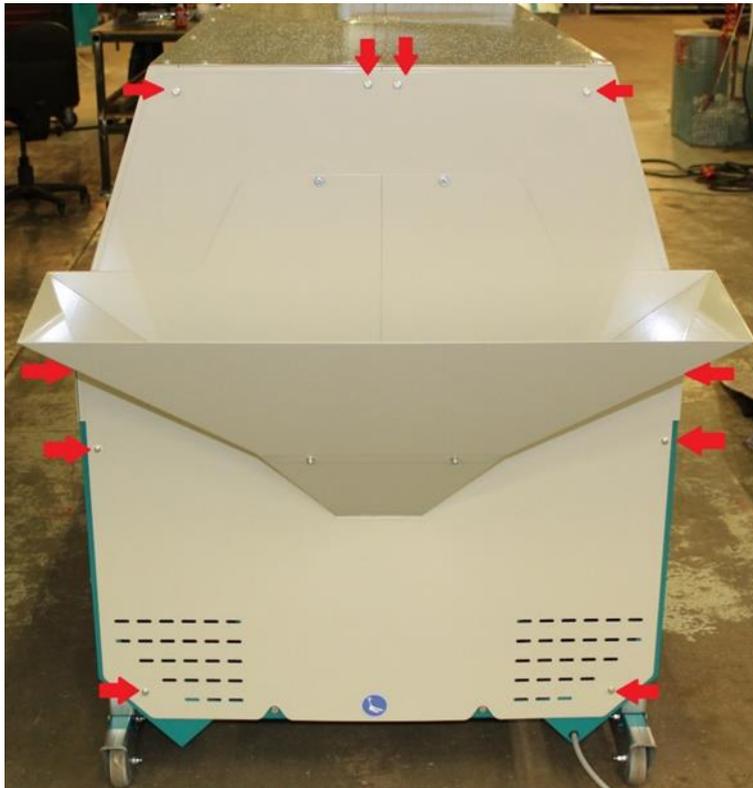
Use a vacuum cleaner to remove dust and fur from the machine and the surrounding floor.

NB: A filter mask, protective goggles and hearing protection must be worn when blowing with compressed air.

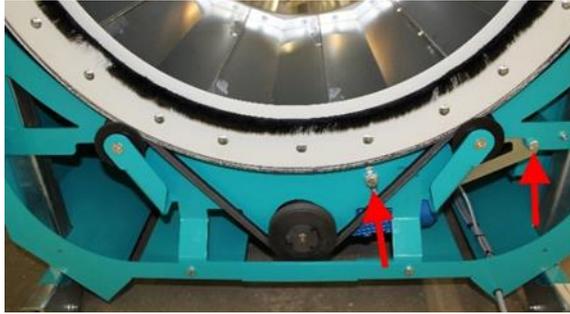
### 7.2 Tightening the v-belt

There is one v-belt on the machine. Check that the v-belt is correctly tightened.

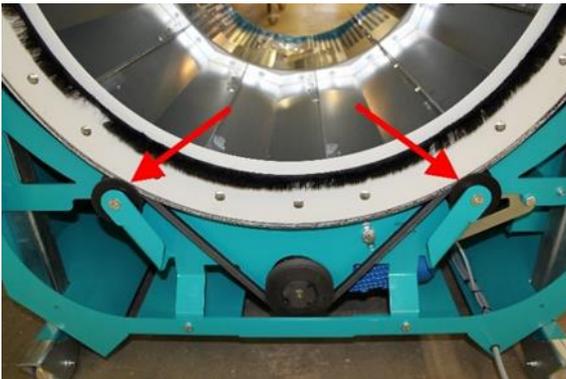
1. Remove the end plate at the inlet chute by removing the bolts.



2. Loosen the bolts for the tensioning wheel.



3. Tighten the v-belt so that the drum cannot be lifted out of the guide wheels.



4. Check the v-belt has been correctly tightened by starting the engine at 20 Hz and holding the drum. The v-belt must not slip on the drum. **Remember to use gloves!**



5. Securely tighten the bolts for the tensioning wheel.
6. Re-attach the end plate at the inlet chute.

### 7.3 Protective devices

Protective devices must not be removed except in connection with repair or service. This may only be done by a person with appropriate training.

### 7.4 Storage

When you have finished using the machine, clean it using compressed air and wipe it down.

## 8 FAQ

<b>Fault</b>	<b>Possible cause</b>	<b>Remedy</b>
The machine does not start.	The emergency stop has been pressed, no power connected.	Check the emergency stop, check the power connection.
The motor is running but the drum is not turning.	The v-belt is loose or defective.	Tighten or replace the v-belt.

## 9 Technical data

<b>Dimensions and weight</b>	<b>Without sawdust auger</b>	<b>With sawdust auger</b>
<b>Width</b>	110 cm	160 cm
<b>Length</b>	230 cm	230 cm
<b>Height</b>	140 cm	140 cm
<b>Weight</b>	330 kg	350 kg

<b>Power</b>	<b>Without sawdust auger</b>	<b>With sawdust auger</b>
<b>Voltage</b>	3 x 400 V + N + PE	3 x 400 V + N + PE
<b>Fuse</b>	16 A	16 A
<b>Connector</b>	16 A CEE	16 A CEE
<b>Weight</b>	330 kg	350 kg

### Noise level

The noise level is below 70 dB, so hearing protection is not required.

## **10 Warranty provisions**

### **Warranty period**

Hedensted Gruppen offers a 12-month warranty. The warranty period begins from the delivery date.

### **The warranty covers**

- Components that have to be replaced or repaired due to material or manufacturing defects.

The warranty does not cover wear parts and consumable parts such as:

- The v-belt

### **The following actions void the manufacturer's warranty:**

- Improper use of the machine.
- The machine is operated without following the user manual and the safety precautions.
- The machine is not maintained in accordance with the instructions, or obsolete spare parts are used.
- The machine is operated after a fault has been detected, making the fault costlier to repair than the original fault.

### **The owner's insurance should cover:**

- Fire, burglary, theft and vandalism.
- Water and frost damage.
- Damage caused by weather conditions.

Such damage is not covered by the manufacturer's warranty.

### **Approval of claims for compensation**

The manufacturer's approval of a claim for compensation requires that the defective part is presented to the manufacturer or his authorised representative no later than two weeks after the damage occurred. Ownership of the damaged part(s) is transferred to the supplier of the new parts.

**The guarantee only covers components. It does not cover:**

- Freight costs.
- Costs incurred in connection with waiting time, the machine owner's working hours and travel expenses.
- Operating losses and other subsequent costs.

**Other**

Prior to any repairs, the manufacturer must be contacted in order to agree on a procedure as per the warranty. If repairs have already begun or ended, it is too late to make a claim under the warranty.

These warranty provisions can be amended only by separate agreement.

## 11 EU declaration of conformity

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### hereby declares that:

The HG Throughput Drum  
HG item no. 190071

### is in conformity with:

- Machinery Directive 2006/42/EC
- Low Voltage Directive 73/23/EEC
- ROHS Directive 2011/65/EU

### using the following harmonised standards:

- DS/EN 12100-1:2005
- DS/EN 13857:2008
- DS/EN 60439-3

Hedensted, 19 September 2017



Jens Jørgen Madsen  
Direktør