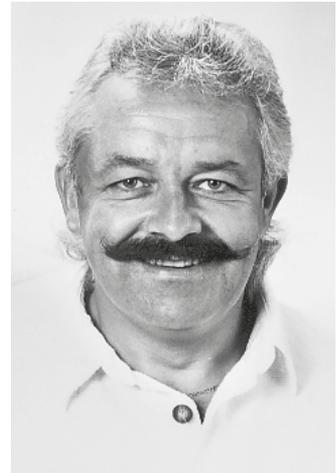


# Hubert HAAS

Mechanical engineering  
Scalding, slaughtering  
and stunning systems



made in Germany!

- Automatic scalding and dehairing machines
- Presentation machines
- Dehairing and singeing machines
- Stunning devices & Documentation devices
- Special beaters

 **HAAS** - where quality and performance meet!

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## FACT SHEET

Founding: 1996

Company headquarters:  
D-73491 Neuler, Benzstraße 8

Managing Director: Dietmar Haas

Products:  
Scalding, slaughtering and stunning  
systems

Customers: worldwide

Export share: over 70%

Number of employees: 30

Internet: [www.hubert-haas.de](http://www.hubert-haas.de)

Hubert Haas was established as a family business in 1996. The company produces scalding, slaughtering and stunning systems for small to medium slaughterhouses. In 1997, Hubert Haas acquired a building plot in the industrial area of Neuler and constructed an assembly plant and office building; in the years that followed, the assembly plant was continually extended. In 2015, the new office building was completed.

The majority of the machines are made of stainless steel to customer specifications. Thanks to a well-equipped engineering shop, all machines can be produced entirely in-house. Frequent participation in national and international trade fairs has helped the company gain global recognition.



Hubert HAAS

## Automatic scalding and dehairing machines

### Type H(N)SKR or H(N)SKL



Type H(N)SKR or H(N)SKL

#### Equipment:

- 2 roller systems for thorough dehairing
- Head scrubbing holder for difficult-to-reach head area
- Mobile on 4 castors
- New-design reinforced gearing
- Special scraper paddles (on rear panel as well)
- Electric heater in oil bath
- Integrated control and operating unit in machine housing
- Swing-out rollers for cleaning the machine

#### Options:

- Galvanised or stainless steel throughout
- Choice of internal lengths
- Bristle screw
- Integrated bristle collector for catching the bristles in the machine
- Compressed-air ejector
- Compressed-air lid (choice of lid types)
- Electric wall control unit in stainless steel casing

#### Technical Data

##### Dimensions

Internal length: 1.900 mm  
 External: 2.200 x 1.000 mm  
 Internal length: 2.200 mm  
 External: 2.500 x 1.000 mm  
 Internal length: 2.500 mm  
 External: 2.800 x 1.000 mm

##### Total weight

approx. 570 kg

##### Electric heater capacity

choice of 13.5 to 24 kW

##### optional

Steam, gas or oil heating

##### Drive unit rating

2.2 kW 380/400 V 50 Hz 3-phase  
 (custom voltages also available)

##### Water capacity

approx. 200 litres

##### Scalding and dehairing time

approx. 3 minutes

##### Max. pig weight

approx. 350 kg

##### Processing capacity

15 – 20 pigs/hour



### **Version with integrated bristle screw**

It discards bristles and dirt out of the machine throughout the scalding/dehairing process.

The resulting consistently high water quality ensures

- consistently good scalding/dehairing
- higher slaughter capacity per water filling

An additional water supply is possible.



Pneumatic ejection

### **Processing sequence in automatic scalding and dehairing machine**

- Fill machine with water up to lower shaft
- Heat up water using thermostatic control
- Place animal for slaughter into machine
- Start scalding process (stops automatically after approx. 3 minutes)
- Ejection of dehaired animal for slaughter automatically using ejector lever (pneumatic cylinder) or by hand



pneumatic lid

#### **Choice of lid types:**

- Sliding/folding lid
- Folding lid (complete lid)
- Custom-height lid (for larger pigs)
- Automatically operated lid opener

#### **Automatically operated lid opener:**

- After inserting the pigs, the lid closes at the touch of a button and the scalding and dehairing process starts.
- Machine stops automatically after the set time has elapsed (approx. 3 minutes) and the lid opens
- The pig is ejected by pressing a button



## Type H(N)MR or H(N)ML



Type H(N)MR or H(N)ML

### Equipment:

- 2 roller systems for thorough dehairing
- Ejection rake
- Mobile using trolley
- Special scraper paddles
- Electric heater in oil bath
- Integrated control unit and control panel in machine casing
- Rollers do not fold out

### Options:

- Galvanised or stainless steel throughout
- Special design for suckling pigs (approx. 10 – 150 kg)
- Choice of internal lengths
- Bristle collector
- Bristle screw



Type H(N)MR or H(N)ML

### Technical Data

#### Dimensions

Internal length: 1.800 mm

External: 2.150 x 1.000 mm

#### Custom internal length

1.240 mm

External: 1.590 x 1.000 mm

1.990 mm

External: 2.340 x 1.000 mm

#### Total weight

approx. 420 – 500 kg

#### Electric heater capacity

10, 12 or 16 kW

#### Drive unit rating

2,2 kW

#### Water capacity

approx. 130 litres

#### Scalding and dehairing time

approx. 3 minutes

#### Max. pig weight

approx. 200 kg

# Dehairing machine

## Presentation machine



**25-30**  
Pigs/hour

### Technical Data

#### Dimensions

Internal length: 2.000 mm  
External: 2.500 x 1.000 mm

#### Drive unit rating

5,5 kW

#### Processing capacity

25 - 30 Pigs/hour

#### Dehairing time

approx. 2 minutes



**Special scraper paddles**  
with metal shavers for more  
effective dehairing

### The Presentation machine

is used in combination with a combined scalding and dehairing machine. With that combination, 2 pigs are processed simultaneously, resulting in an hourly capacity of 25-30 pigs.

### Dehairing process with additional presentation machine

- The pig is scalded and dehaired for approx. 2 min at a raised scalding temperature of 67 °C in a combined scalding and dehairing machine.
- The pig is automatically transferred to the presentation machine where it is re-scrubbed and/or further dehaired and cleaned. At the same time, the next pig is placed in the combined scalding and dehairing machine so that 2 pigs constantly being processed at any given time.
- After dehairing, the pig is moved onto the extended rack where it can be further processed.



Presentation machine mobile on 4 castors

# Dehairing and singeing machines, scalding tank



## Dehairing and singeing machine Type David 200



### Technical Data

#### David 200

##### Dimensions

2.500 x 1.200 x 2.500 mm  
(L x W x H)

##### Weight

approx. 1.200 kg

##### Drive motor

5,5 kW

##### Power supply

3 x 380 – 400 V AC

##### Water connection

1"

##### Air

approx. 6 bar

### Type David 200

- Processing capacity approx. 40-50 pigs/hour
- Max. pig weight approx. 270 kg
- Machine exterior in stainless steel or hot-dip galvanised design
- Built-in control cabinet
- Roller fitted with 36 special beaters
- Dehairing time and machine filling individually adjustable

#### Flame bridge

- For total dehairing leaving nothing behind
- Flame bridge made of stainless steel mounted on DAVID
- Control unit in central control cabinet
- Choice of propane or natural gas
- Compressed-air operated
- Includes 8 stainless steel burners
- TÜV approved

#### Scalding tank (type Turn-O-Matic)

- Tank made of galvanised or stainless steel
- For 2.5 or 3 pigs/under water
- Heating: 40-50 kW electric heater or option of steam heating by direct injection via special jet or using heat exchanger
- Automatically controlled scalding temperature
- Scalding temperature: approx. 62°C
- Circulation pump for better scalding

### Technical Data

#### Scalding tank (type Turn-O-Matic)

##### Dimensions

2.500 x 1.530 x 2.000 mm  
(L x W x H)

##### Weight

approx. 1.400 kg

##### Drive motor

1,1 kW

##### Power supply

3 x 380 – 400 V AC

##### Circulation pump

1,1 kW

##### Water inlet

1 ½"

##### Water capacity

approx. 1.200 litres

## Dehairing and singeing machine Type Goliath 180 - 250

The Goliath dehairing machine is suitable for dehairing pigs and sows at a rate of 50 to 120 pigs/hour. This heavy-duty, single-chamber system with shaving roller is also suitable for dehairing sows and boars weighing up to 400.

- Slaughtering capacity:  
approx. 50 – 120 pigs/hour
- Max. pig weight: approx. 400 kg
- Machine exterior in hot-dip galvanised design
- Built-in control cabinet
- Roller fitted with special scraper paddles with metal shavers
- Dehairing time and machine filling
- Individually adjustable
- Machine frame hot-dip galvanised,
- Doors and central cabinet made of stainless steel

### Flame bridge

- For total dehairing leaving nothing behind
- Flame bridge made of stainless steel mounted on Goliath
- Control unit in central control cabinet
- Choice of propane or natural gas
- Compressed-air operated
- 9-12 adjustable stainless steel burners (depending on machine width)
- TÜV certified



**Special scraper paddles**  
with metal shavers for more effective dehairing

### Technical Data Goliath

Typ	180	200	220	250	280
Weight per animal in kg	250	270	350	380	400
Capacity	80	80	80	120	160
Working width	1800	2000	2200	2500	2800
Overall width	2350	2650	2950	3250	3550
Length	1450	1450	1500	1500	1500
Height	2150	2250	2250	2250	2250
Weight in KG	1800	2100	2600	3000	3400
Connected load, kW	7,5	7,5	7,5	11	15
Water connection "	1"	1"	1"	1"	1"
Compressed air 6 bar	1/4"	1/4"	1/4"	1/4"	1/4"
Operating voltage	3x380 -400V AC				



Type Goliath 180 - 280



### **Turn-O-Matic scalding tank**

Used in combination with a Goliath dehairing and singeing system

- For 2.5 to 10 pigs/under water
- Heating: 40-50 kW electric heater or option of steam heating by direct injection via special jet or using
- heat exchanger
- Automatically controlled scalding temperature
- Scalding temperature between 59 – 62 °C
- Circulation pump



## Stunning devices

### TBG 200

The TBG 200 humane-slaughter stunning device complies with EC Regulation No. 1099/2009 of 24/09/2009 and/or the national implementing provision for the animal protection slaughter regulation of 01/01/2013, as well as the current VDE (German association of electricians) regulations.

The TBG 200 represents quality "Made in Germany" and stands out due to its simple and safe handling. High-quality components and innovative technology ensure a long service life and high meat quality. The device can also be used for emergency killing in the event of epidemic outbreaks.



#### Technical Data

##### Dimensions

400 x 225 x 300 mm

##### Weight

approx. 21 kg with wall mounting plate

##### Protection class

II

##### IP protection class

65

##### Mains connection

230 V 50 Hz

##### Slaughtering capacity

approx. 120 pigs/hour

##### Current strength

2.3 A

##### Voltage

250 V - 380 V

#### Humane stunning of animals:

- Rapid current increase in the 1st second to max. 2.3 A
- Visual and audible signal for minimum stunning time not reached
- Visual and audible signal of minimum stunning time reached
- Visual and audible signal for minimum current 1.3 A (for pigs) or 1.0 A (for sheep) not reached within the 1st second and/or not maintained throughout stunning time
- Integrated displays with voltage, current and frequency (V/A/Hz)
- Combined brain-heart stunning possible
- 3 stunning programmes for different animal species/sizes and operating modes

## Equipment:

- Plastic casing or optional stainless steel casing
- Electronic high frequency with optimised stunning parameters for high meat quality
- Powerful 2.3 A transformer
- Integrated data recorder for monitoring parameters relevant to animal welfare: current strength (A), voltage (V), frequency (Hz) and minimum stunning time (sec.)
- USB stick for data logging/transfer
- Stainless steel stunning tongs with coiled cable, special handles and copper electrodes with centre spike for secure contact.

## Data analysis software:

- The stunning parameters are analysed in the form of daily or monthly statistics showing date, time and various faults
- Individual animal data displayed as a graph, scale or table leaf.



### Optional: Pneumatic Tongs

- Suitable for stunning in trap or restrainer for pigs and sheep
- Substantially reduces effort for user due to compressed-air closing action
- Reliable electrode contact
- Adjustable closing speed/stunning time
- Available in 2 sizes (pigs/sows)
- Simple and safe application
- Use in combination with a manual or automatic heart electrode possible
- With control unit compatible with all animal-stunning devices
- Slaughtering capacity: approx. 180 pigs/hour

### Optional: Stunning fork

- Suitable for stunning in trap or restrainer for pigs and sheep
- Simple and safe application
- Switchless operation

## TBG 100

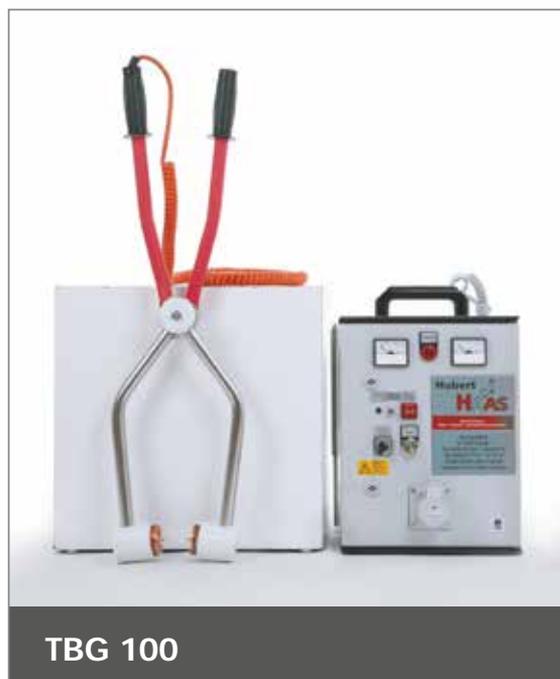
The alternative to the TBG 200 if no documentation/analysis is required.

### Humane stunning of animals:

- Rapid current increase in the 1st second to max. 2.3 A
- Visual and audible signal for minimum stunning time not reached
- Visual and audible signal of minimum stunning time reached
- Visual and audible signal for minimum current 1.3 A (for pigs) or 1.0 A (for sheep) not reached within the 1st second and/or not maintained throughout stunning time
- Integrated voltage and current displays (V/A)
- Combined brain-heart stunning possible
- 3 stunning programmes for different animal species/sizes and operating modes

### Equipment:

- Plastic casing or optional stainless steel casing
- Electronic high frequency with optimised stunning parameters for high meat quality
- Powerful 2.3 A transformer
- Stainless steel wall mount for transformer and tongs
- Stainless steel stunning tongs with coiled cable, special handles and copper electrodes with centre spike for secure contact



TBG 100

### Technical Data

#### Dimensions

400 x 225 x 300 mm

#### Weight

approx. 21 kg with wall mounting plate

#### Protection class

II

#### IP protection class

65

#### Mains connection

230 V 50 Hz

#### Slaughtering capacity

approx. 120 pigs/hour

#### Current strength

2.3 A

#### Voltage

250 V - 380 V

## TBG 96

### Equipment:

- Rapid current increase in the 1st second to max. 2.3 A
- Powerful 2.3 A transformer
- Visual and audible signal of minimum stunning time reached
- Warning lamp for minimum current strength of 1.3 A
- Integrated voltage and current display (V/A)
- Stunning tongs made of stainless steel with coiled cable, special handles and copper electrodes with centre spike for secure contact
- Stainless steel wall mount for transformer and tongs

## TBG 96/N

### the mobile animal stunning device for epidemic outbreak/emergency killing

The killing of pigs by farmers on the farm may be carried out as part of an emergency killing drill, whenever there is obviously no other means of alleviating great pain or suffering of the animals resulting from injury or illness.

The TBG 96N complies with the current VDE regulations (German association of electricians) and was designed in accordance with leaflet No. 84 "Killing larger groups of animals in the event of an epidemic outbreak" by the Veterinary Association for Animal Welfare (tierärztliche Vereinigung für Tierschutz e.V.).



#### Technical Data

##### Dimensions

400 x 225 x 300 mm

##### Weight

approx. 12 kg

##### Protection class

II

##### Mains connection

230 V 50 Hz

##### Output current

max. 2.3 A

##### Output voltage

250 V- 380 V

#### Equipment:

- Display of voltage/current
- Special transformer 2.3 A
- Visual and audible signal of minimum stunning time reached
- Selector switch with 3 programmes for different currents:
  - 1 = 2,3 A / 1.3 A current monitoring
  - 2 = 1,8 A / 1.3 A current monitoring
  - 3 = 1,3 A / 150 V for piglets
- Stainless steel stunning tongs with coiled cable, special handles and copper electrodes with centre spike for secure contact
- Rapid current increase in the 1st second to 2.3 A max
- Stainless steel wall mount for transformer and tongs

## TBG 200/N

### the mobile animal stunning device for epidemic outbreak/emergency killing

The TBG 200/N animal stunning device by Hubert Haas was developed specifically for the emergency killing of sows, pigs and piglets and was designed in accordance with leaflet No. 84 "Killing larger groups of animals in the event of an epidemic outbreak" by the Veterinary Association for Animal Welfare (tierärztliche Vereinigung für Tierschutz e.V.).

#### Equipment:

- Integrated displays with voltage, current and frequency (V/A/Hz)
- Visual and audible signal for minimum stunning time not reached
- Visual and audible signal for minimum current 1.3 A (for pigs) or 1.0A (for sheep) not reached within the 1st second and/or not maintained throughout stunning time
- Visual and audible signal of minimum stunning time reached
- Special transformer 2.3 A
- Selector switch with 3 programmes for different currents:
  - 1 = 2.3 A / 1.3 A current monitoring
  - 2 = 2.0 A / 1.3 A current monitoring
  - 3 = 1.0 A / 150 V for piglets
- Stainless steel stunning tongs with coiled cable, special handles and copper electrodes with centre spike for secure contact
- Stainless steel wall mount for transformer and tongs
- Rapid current increase in the 1st second to 2.3 A max
- Stainless steel wall mount for transformer and tongs
- Integrated data recorder for monitoring parameters relevant to animal welfare: current strength (A), voltage (V), frequency (Hz) and minimum stunning time (sec.)
- The stunning parameters are analysed in the form of daily or monthly statistics showing date, time and various faults
- Individual animal data displayed as a graph, scale or table leaf
- USB stick for data logging/transfer

#### Technical Data

##### Dimensions

400 x 225 x 300 mm

##### Weight

approx. 21 kg with wall mounting plate

##### Protection class

II

##### IP protection class

65

##### Mains connection

230 V 50 Hz

##### Slaughtering capacity

approx. 120 pigs/hour

##### Current strength

2.3 A

##### Voltage

250 V- 380 V



TBG 200/N

# Documentation Device



## DOKU 2019

The Haas documentation device is used to record animal welfare-related stunning parameters in accordance with the requirements of the animal protection slaughter regulation, EC No. 1099/2009 dated 24 September 2009 and the national implementing provision from 01 January 2013.



### Technical Data

#### Weight

7 kg

#### Dimensions

250 x 350 x 170 mm

#### Input voltage

230 V / 50 Hz

#### Specifications supplied

- Haas DOKU 2019
- Haas DOKU software
- USB stick

#### Equipment:

- Plastic casing or optional stainless steel casing
- Stainless steel wall mount

#### Data analysis software "Inspector":

- The stunning parameters are analysed in the form of daily or monthly statistics showing date, time and various faults
- Individual animal data displayed as a graph, scale or table leaf

#### DOKU 2019:

- Data recorder for monitoring parameters relevant to animal welfare: current strength (A), voltage (V), frequency (Hz) and minimum stunning time (sec)
- Integrated displays with voltage, current and frequency (V/A/Hz)
- Visual and audible signal for minimum stunning time not reached
- Visual and audible signal for minimum current 1.3 A (for pigs) or 1.0 A (for sheep) not reached within the 1st second and/or not maintained throughout stunning time
- Visual and audible signal of minimum stunning time reached
- Suitable for pigs, sheep and goats
- Compatible with all animal-stunning devices

## Your contact person



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