



**Grain Technology for treating with care of Shelling,
Separating, Polishing, Brushing, Grinding and Crushing**

HORN Spelt peel- and finishing center DVC 2

The spelt peel- and finishing center DVC 2 is a compact, powerful peeling machine for spelt, emmer and einkorn. The machine performs three operations by the same time: Peeling the raw material, aspiration of husks and light parts and separation from unpeeled and peeled grains. The peeling process is a gentle, proven process after the rubbing principle which proves the germination rate of the peeled product. The anti-wear lined and adjustable exhaust fan transports the husks and light particles through the exhaust line (accessory) up to 20 m wide. In the integrated tumbling-sieve peeled and unpeeled grains are separated so that just peeled goods leave the machine.

The drive motors for the peeling-unit, feeding-auger and the tumbling-sieve are controlled by a frequency converter and can be adjusted continuously. The electric system includes a self-regulating loaddependent control, which allows automatic operation of the machine. Operating the machine with manual adjustment and control is also possible.



Various safety devices and control systems, such as the magnet kit in the raw material supply and the load-dependent control ensure safe and optimal operation of the machine.

The spelt peeling and finishing center DVC 2 is completely wired and equipped with a 32A plug and can be put to exhaust line into operation immediately after positioning and connection.

Technical Data

Dehuller unit: 11,00 kW / Blower: 0,75 kW
Feed auger: 0,55 kW / Tumble sieve: 1,10 kW
Dimensions: 180/160/205 cm
Weight: 650 kg
Performance/raw material: up to 1.500 kg/h



Spelt peel- and finishing center DVC 1

The spelt peel- and finishing center DVC 1 is a compact, powerful peeling machine for spelt, emmer and einkorn. The machine performs three operations by the same time: Peeling the raw material, aspiration of husks and light parts and separation from unpeeled and peeled grains. The peeling process is a gentle, proven process after the rubbing principle which proves the germination rate of the peeled product. The adjustable exhaust fan transports the husks and light particles through the ex-haust line (accessory) up to 20 m wide. In the integrated tumbling-sieve peeled and unpeeled grains are separated so that just peeled goods leave the machine.

The drive motors for the feeding-auger and the tumbling-sieve are controlled by a frequency converter and can be adjusted continuously. Operation of the machine is possible with manual adjustment and regulation. Various safety devices and control systems, such as the magnet in the raw material supply ensure safe and optimal operation of the machine.

The spelt peeling and finishing center DVC 1 is completely wired and equipped with a 32A plug and can be put into operation immediately after positioning and connection to the exhaust line.

Technical Data

Dehuller unit: 11,00 kW / Blower: 0,75 kW
Feed auger: 0,55 kW / Tumble sieve: 1,10 kW
Dimensions: 180/160/205 cm / Weight: 590 kg
Performance/raw material spelt: up to 850 kg/h



Spelt peel - and finishing center DVC 1



Flex-finishing-center FVC 2

The Flex-finishing-center FVC 2 is a compact, universal peeling machine for various legumes and cereals such as oats, sunflower, millet, lupine, emmer, einkorn and spelt. The machine performs three operations by the same time: Peeling the raw material, aspiration of husks and light parts and separation from unpeeled and peeled products. The peeling process is a gentle, proven process after spin principle which proves the germination rate of the peeled product. The anti-wear lined and adjustable exhaust fan moves the shells and light particles through the exhaust line (accessory) up to 20m wide. In the integrated tumbling sieve peeled and unpeeled products are separated so that just peeled goods leave the machine.

The Flex-finishing-center FVC 2 is completely wired and equipped with a 32A plug and can be put to exhaust line into operation immediately after positioning and connection.

Technical Data

Dehuller unit: 2,2 kW
Blower: 0,75 kW
Feed auger: 0,55 kW
Tumble sieve: 1,1 kW
Performance/raw material: up to 500 kg/h
Dimensions: 200/167/232 cm
Weight: 650 kg



Potentiometer



Inlet funnel raw material



Control panel



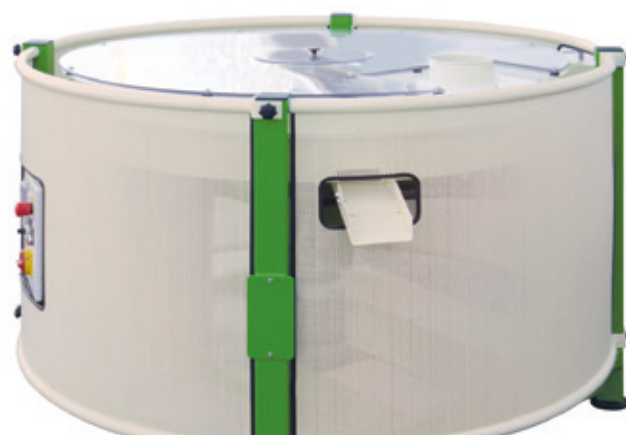
Magnet / Motor

HORN tumbler screening machine – the ideal two-way gravity separator

Technical features

- 1.1 kW gear motor
- Light and heavy product discharge
- 16 A plug wired up ready for operation to allow very simple start-up
- Weight approx. 300 kg
- The tumbler screening machine is controlled via a frequency converter and can be steplessly adjusted

For separating the hulled from the unhulled seeds; 1.1 kW drive motor with frequency converter for fine adjustment, antistatic cover and pure product discharge.



HORN US 1500 line universal sheller – High throughput capacity with low energy consumption

HORN universal shellers are ideally suited for hulling shell grains such as spelt, emmer, einkorn, oats, millet, rice and sunflower seeds. The gentle method of HORN universal shellers ensures minimum breakage, undamaged shell pieces and a ratio of germinable material which is well above average.

In contrast to classical spelt shellers, in a universal sheller shell grain is accelerated over a rotating centrifugal disk and spun against a collision surface. The shell separates from the kernel on impact.

Technical features

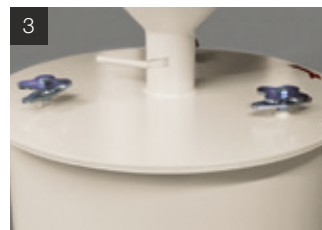
- High shelling degree thanks to a performance oriented machine concept
- Frequency-controlled drive ensures ideal setting to the best operating point when shelling
- Utilisation of the entire collision surface because of height adjustability
- Efficient and economical because of high throughput capacities
- Long service life thanks to robust machine components
- Highly efficient thanks to low operating and maintenance costs
- Simple commissioning thanks to delivery ready to be plugged in



Clear and simple operating elements. The speed of the centrifugal rotor can be set precisely using a rotary potentiometer.



The frequency controlled drive brings the centrifugal disk up to 3.600 revolutions per minute.



The height of the high-quality collision surface can be easily changed using three adjusting wheels. Thus the surface is utilised ideally and the lifetime is increased.



By using a glume absorber (cascade classifier) installed directly on the basic machine, the light shell parts can be separated from the other production flow immediately.



The desired throughput volume can be set precisely using a sliding gate valve.



A robust industrial motor ensures optimal performance data.



HORN GPM 150 grain polishing machine – Safe and hygienic production of extremely clean food grain

In a gentle brushing process HORN polishing and brushing machines remove over 90 percent of the dust, spore, fungal and dirt particles adhering to grain kernels without impairing germination capacity. The dust content is suctioned using a blower.

Strictly speaking, this dust content must be characterized as hazardous waste, which is why it is imperative that grain be cleaned using the polishing and brushing machine prior to being processed to flour or flakes.

Technical features

- Long service life and safe operation thanks to a powerful industrial motor with assembled motor protection switch
- Adjustable degree of cleaning due to adjustable working angle up to 15 degrees
- Can be placed flexibly thanks to base equipped with castors
- Precise filling thanks to dosing slider on the hopper outfeed
- Hygienic cleaning of the entire machine interior thanks to the completely removable collection hopper
- Simple filling and emptying because of a hopper volume of up to 50 kilograms and filling nozzle with 250 mm diameter
- Highly efficient thanks to low operating and maintenance costs
- Simple commissioning thanks to delivery ready to be plugged in

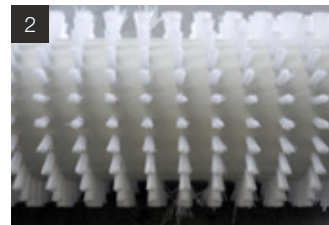
Screen cleaner

As a cleaning system in a compact design with direct bagging of seeds and outlets, it is a perfect machine for an economical process of the own needs of seeds as well as for the treatment of z-seed. The Cleaner can be used with or without the trieur.

Power: from 1,25 t/h up to 2,5 t/h (pure seed).



The dust content brushed off the grain kernel is hygienically suctioned off into a foil bag using a compact vacuum system with an air filter.



The custom-built brush ensures an optimum polishing and brushing effect without damaging the grain kernel.



Easy-to-use dosing slider on the hopper outfeed



A strong industrial motor with assembled motor protection switch drives the machine.



Seed cleaner

High performance grain moisture meter: Farmpro and Superpro

The two measuring devices make the safest water measurements on grain and seeds that are possible on the market. The grains are crushed and compressed in only one operation. With this method you reach a reliable measurement – far more reliable than a wholegrain measurement.

Technical details: Fampro & Superpro

Dimension: 21 x 7,5 x 7,5 cm / 24 x 12 x 9 cm. Weight: 1,6 kg / 1,8 kg. Casing: polystyrene. Grinding chamber and measure-head: chromed. Measuring range: 5% to 50% depending on the respective grain. Measurement accuracy: $\pm 0,5\%$. Equipment: shockproof box; 1 battery 9 volt; 1 cleaning brush. Warranty: 2 years.

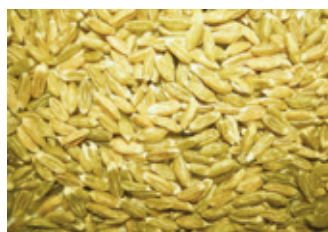


Superpro



Farmpro

Grains



Green spelt



Spelt



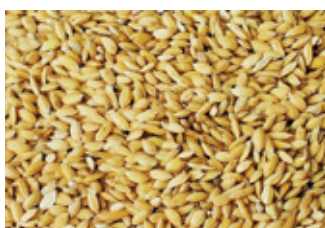
Oats



Malt



Sunflower seeds



Millet

Organic farms, independent retailers

- Shelling spelt, green spelts: DVC 2 machine concept
- Shelling spelt, green spelts, emmer, einkorn, oats, sunflower seeds and millet: US machine concept
- Separation of shelled and unshelled grain: machine concept tumbler screening
- Brushing / cleaning of shelled grain: GPM machine concept

Organic bakeries

- Brushing / cleaning of shelled grain: GPM machine concept

Food industry

- Shelling of soya beans: US machine concept
- Shelling of small quantities: US machine concept for laboratories
- Polishing of unpeeled sunflower seed for oil production: GPM machine concept



Storage

- Fibreglass silos
- Outdoor steel silos
- Indoor steel silos
- Hopper silos
- Trevira silos
- Conveyor floor systems

Processing

- Spelled peeler
- Grain polishing machine
- Hammermills
- Batch dryer
- Pressure circulation dryer
- Radial aeration blowers
- Drum cleaners
- Pre-cleaners
- Seed cleaners

Transport

- Bucket elevators
- Chain elevators
- Tubular screw conveyors
- Spiral conveyor
- Trough chain conveyors
- Trough screw conveyors
- Loading screw conveyors
- Grain cannons
- Grain fan (compressor)
- Suction and pressure grain blower

Mixing

- Fodder mixing systems
- Vertical mixers
- Diagonal mixers

Planning

- Grain plants
- Spelt hullers
- Fodder mixing systems

Installation by our own specialist fitters, in-house manufacture and an extensive stock of parts.



We educate!



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