

SCHULE High-Capacity Paddy Separator TH3

(Compartment Table Separator)



Paddy Separator

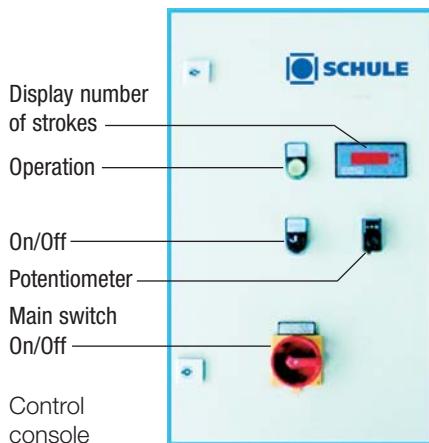
25.000 SCHULE table separators in more than 100 countries



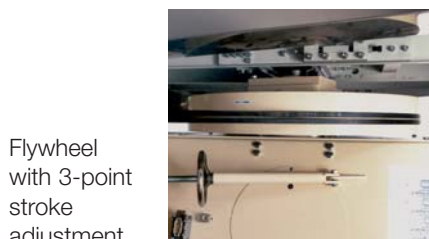
Separator table



Support base with drive



Control console



Flywheel with 3-point stroke adjustment



Guide roll

Well known established mechanical methods, such as various types of sieves, blowers or aspirators, fail to separate different materials of nearly equal size, shape and almost equal specific gravity, then the SCHULE table separator is the all embracing answer to the problem.

SCHULE-table separators are used in:

- **Food plants** for the separation of husk particles from broken kernels of almonds, apricots and peaches or similar stock
- **Seed cleaning plants** for the separation of high-class seed grain of potential germinating power from light grain, elimination of sprouted grains or weeds
- **Grain shelling plants** for the separation of unhulled grain from shelled rice, oats, millet and pulses
- **Flour mills** for the separation of soft wheat, garlic, ergot, hedge-mustard and similar seeds from hard wheat
- **Grain silos** for the separation of grain mixtures, e.g. barley or oats from wheat or rye, elimination of sprouted grains
- **Malteries** for the separation of stone barley from the germinated and kiln-roasted barley, elimination of floating barley and oat chaff from brewers barley
- **Others industries** (chemical, recycling) for grading of stock according to specific gravity having almost equal size and shape

The table separator TH3 is available in four types:

- With 24, 36, 48 or 60 compartments arranged in 2, 3, 4 or 5 superimposed decks. Therefore all four sizes require equal floor space in the mill.
- The new design of the table separator fulfills the highest requirements concerning throughput and precision of separation.
- The SCHULE table separator is fully patented.

Separating table without vibrations

- The separating table is constructed free from torsions. It runs exceedingly smoothly and free from vibration on supporting and guide rollers – a prerequisite for perfect product separation.
- All contact parts, feeding trough, labyrinth, bottom sheets, linings and product discharge channels are made of stainless steel.

Uniform feeding

- Feeding into the separating table is effected by means of a new design of feeding trough, which distributes the stock uniformly into the labyrinth beneath.
- Amply dimensioned channels provide each chamber with an equal quantity of stock.
- A multi-holed slide regulates the input quantity to each compartment.

Drive and electronic speed regulator

The motor is controlled by a frequency converter. The speed of the separator can be selected without interrupting the operation. The number of strokes per minute is adjusted by means of a knurled knob potentiometer at a control console adjacent to the table separator. A digital display indicates the speed (number of strokes per minute). The electricity consumption has been reduced by 50% compared to previous requirements.

The support base consists of a robust steel sheet fabrication. The actuating forces are absorbed by strong cross members in the bottom of the base. Two support beams, which swivel around the centre of the drive base, carry the special support and guide rollers ensuring precise guidance of the table separator movement.

The drive shaft running on two strong bearings carries the heavy flywheel, which serves as energy store. The standard 3-point stroke length adjustment system (80, 99, 118 mm) is mounted on the flywheel, permitting selection of stroke lengths of 80, 99 or 118 mm. The driving roll is mounted on the stroke system.

Advantages of the SCHULE-high-capacity table separators TH3

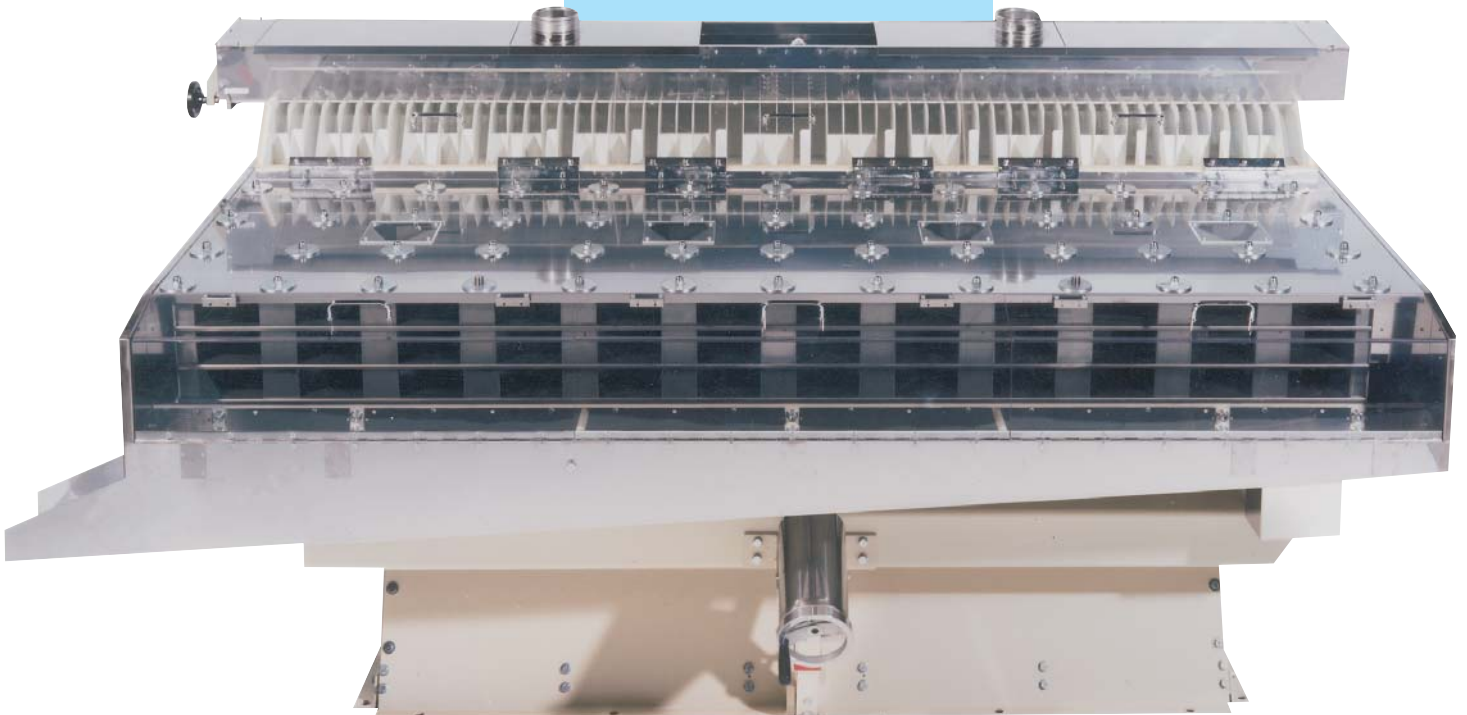
- All-steel construction
- New design of feeding trough
- Drop channels with large cross sectional area for uniform feeding of all compartments
- Three-point stroke adjustment
- Fine adjustment of table inclination
- Precise longitudinal table guide
- Speed regulation by frequency converter
- Exceptionally smooth running

Table separators are always used for the improvement of quality of the finished product.

The efficiency of separation should have priority over the capacity per compartment when selecting the size of machine.

Parameters exercising influence on the separation efficiency:

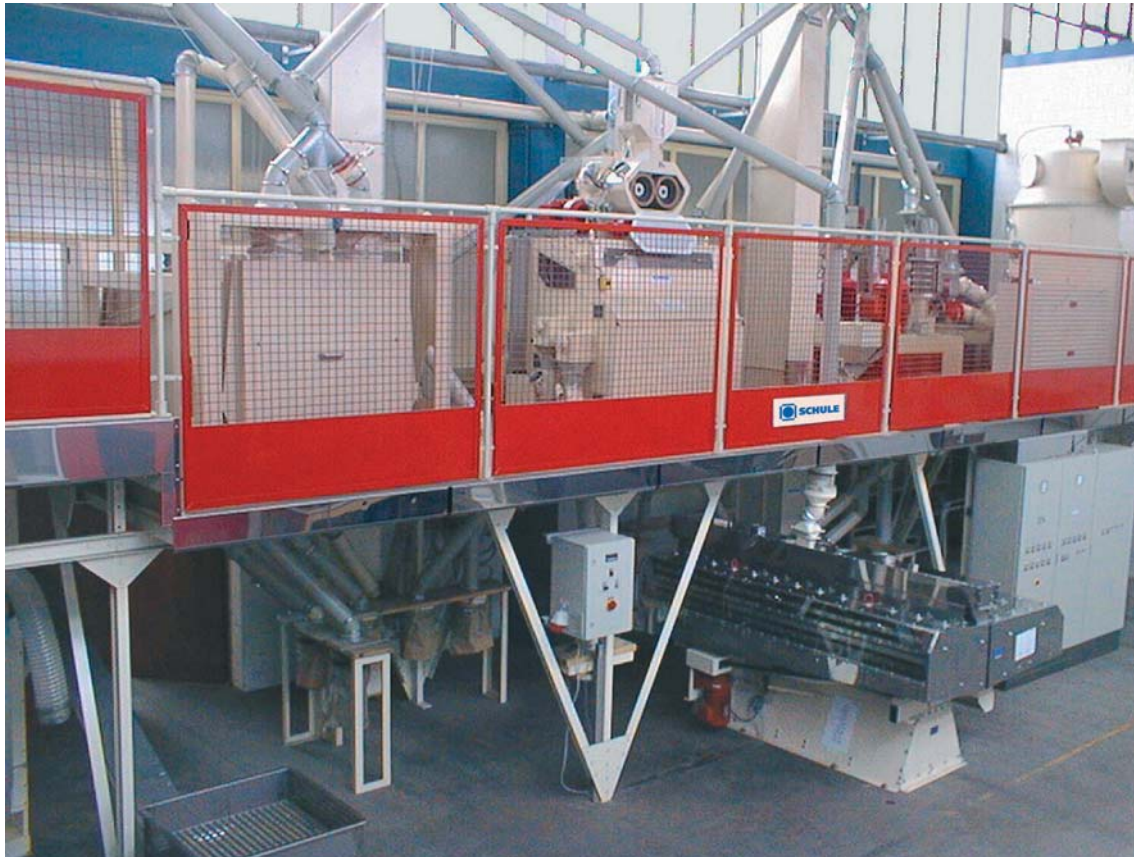
- **Properties of the stock to be separated**, such as moisture content, amount and nature of impurities
- **Adjustments** made at the table separator
- **The ratio between travel and time:**
Each stock to be sorted requires a stroke (travel) corresponding to its specific properties.
Speed = number of strokes per minute (time)
- **The degree of inclination of the table**



| Type | Paddy from hulled rice long/round grain kg/h | Capacity | | Compartments | | Overall dimensions | | | Current consumption in the factory kW | Power of installed electric motor kW | Shipping data | |
|----------------|-------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|--------------|-------------|--------------------|-------------|--------------|------------------------------------------|-----------------------------------------|--------------------|--------------------------------------|
| | | Paddy from cargo rice or white rice re-separator kg/h | Raw oats from oat kernels pre-/re-separator kg/h | No. | Arrangement | Length mm | Width mm | Height mm | | | Gross weight kg | Volume incl. seaworthy packing m³ |
| TH3/242 | 1,800/2,000 | 2,200-3,100 | 1,000-1,100 | 24 | 2 x 12 | 2,950 | 1,750 | 1,300 | 1.4 | 3.0 | 1,800 | 10.5 |
| TH3/363 | 2,700/3,000 | 3,200-4,700 | 1,500-1,600 | 36 | 3 x 12 | 2,950 | 1,750 | 1,500 | 1.5 | 3.0 | 2,900 | 14.5 |
| TH3/484 | 3,600/4,000 | 4,300-6,200 | 1,900-2,200 | 48 | 4 x 12 | 2,950 | 1,750 | 1,575 | 1.5 | 3.0 | 3,200 | 15.0 |
| TH3/605 | 4,500/5,000 | 5,400-7,800 | 2,400-2,700 | 60 | 5 x 12 | 2,950 | 1,750 | 1,655 | 1.6 | 3.0 | 3,300 | 15.0 |

Due to continuous constructive improvements we reserve the right to make technical modifications

Schule rice mill construction. Worldwide.



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pilot plant for
running tests

Planning, design, and manufacture of plants, machines, components, accessories for the treatment of rice and other cereals. Service worldwide.

Delivery program

- Standard rice mills and supplementary plants.
- Oat mills and machines for the treatment of barley, millet, sorghum, legumes, spices etc..
- Plants for the production of baby food, instant food, rice and oat meal.
- Plants for the hydrothermal treatment of rice (parboiled), cereals and legumes.



SCHULE paddy
separator in a
Greek rice mill



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