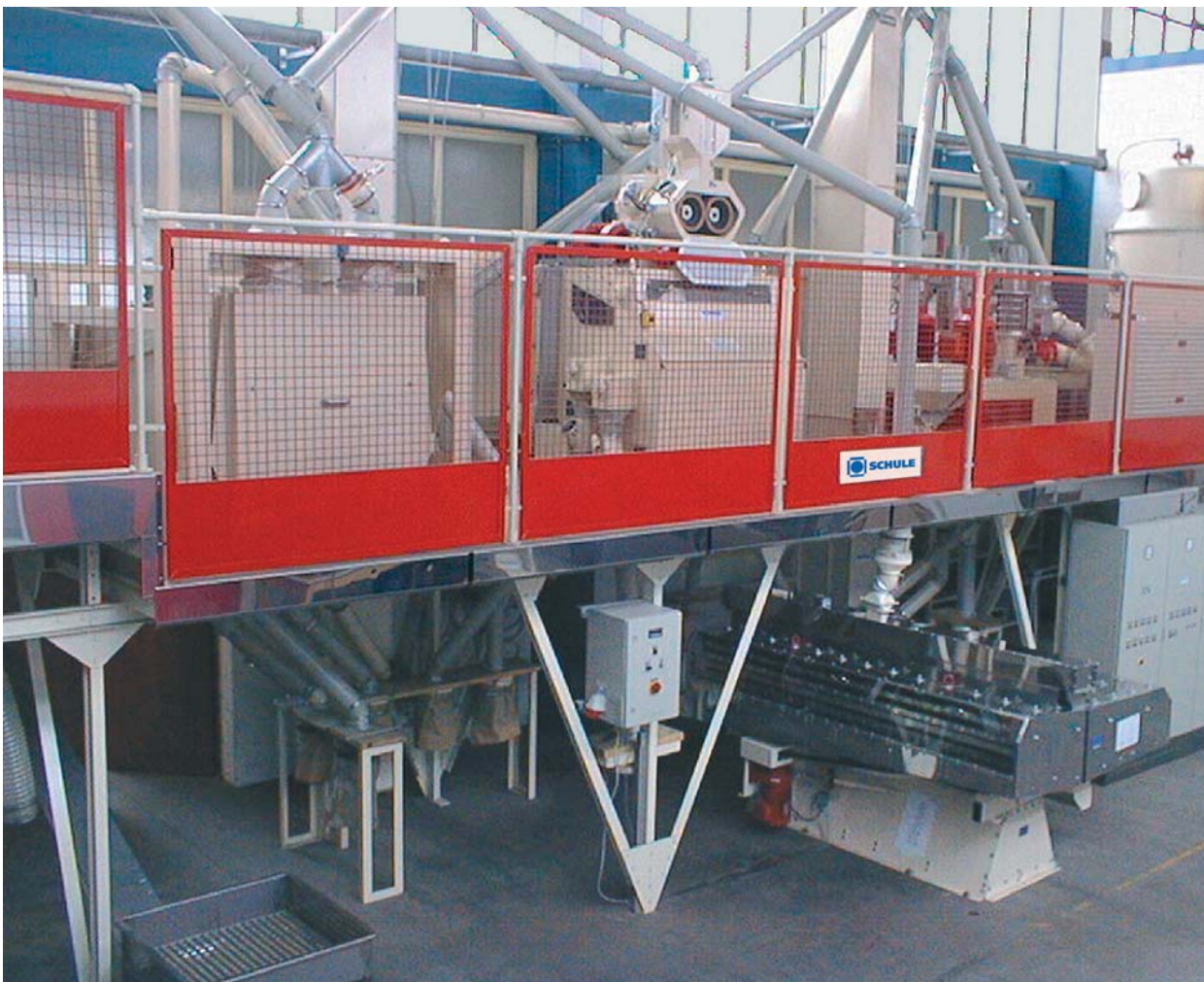


## RIZOMAT Compact Rice Mills

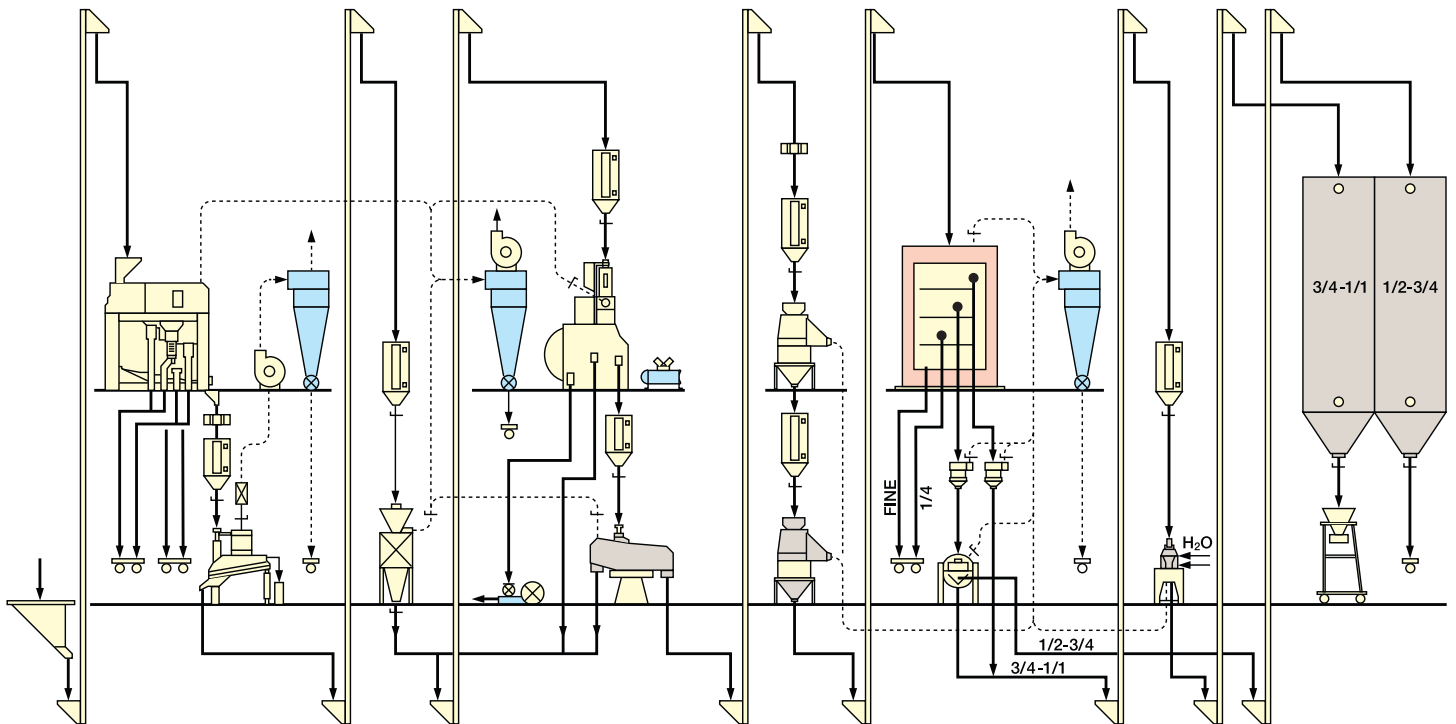
SCHULE – Your Competent Partner  
for Rice Processing Technology



# Compact Type Rice Mill RIZOMAT

The RIZOMAT-Type Mills offer many possibilities.

Intake Capacity:  
Ranging between 3,5 t/h to 15 t/h  
of pre-cleaned paddy of uniform  
grade, having a moisture content  
of 13-14 % and not more than  
3 % impurities.



Flow sheet of a Rice Mill  
**RIZOMAT 3035** up to 3,5 t/h Paddy



Paddy



Cargo

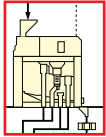


White rice

**From Paddy to well milled White Rice –  
all machines from one supplier.**

## Fine Cleaning Section:

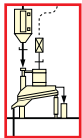
The pre-cleaned paddy, dried to a moisture content of 13 - 14%, is conveyed to the rice mill from the paddy day bin via a belt conveyor.



The paddy is discharged into the intake hopper and conveyed by an elevator to the cleaner, where impurities are removed.

The impurities are bagged off on bagging benches.

The cleaned paddy flows through a magnet, retaining iron particles.



Stones and mud balls are removed afterwards by (a) dry-stoner(s).

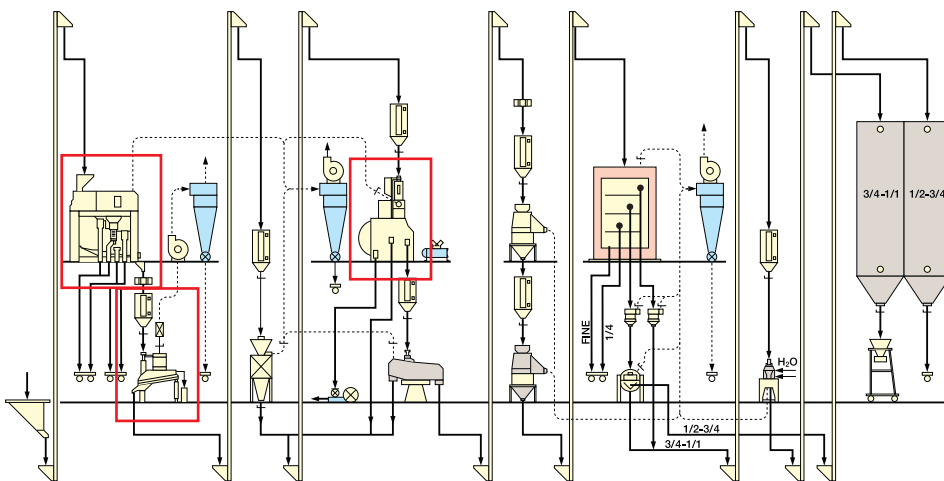
An intake weigher controls the paddy quantity.



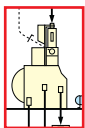
Cleaner GTR



Dry Stoner ST



## Shelling Section:



The cleaned paddy is conveyed to the rubber roll sheller S 10 PR, where it is subjected to shelling, via the pneumatically controlled inlet bin(s) of the rubber roll sheller(s).

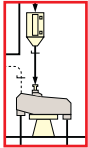
The mixture of paddy, cargo and husk enters the closed circuit husk separator(s) on its feeding screw. This screw distributes the mixture over the entire width of the husk separator(s).

The separator(s) separate(s) the product into three fractions. Husk and light particles are blown to the outside by a husk blower system. The middle fraction (immature grain etc.) is fed back to the rubber roll sheller and husk separator.



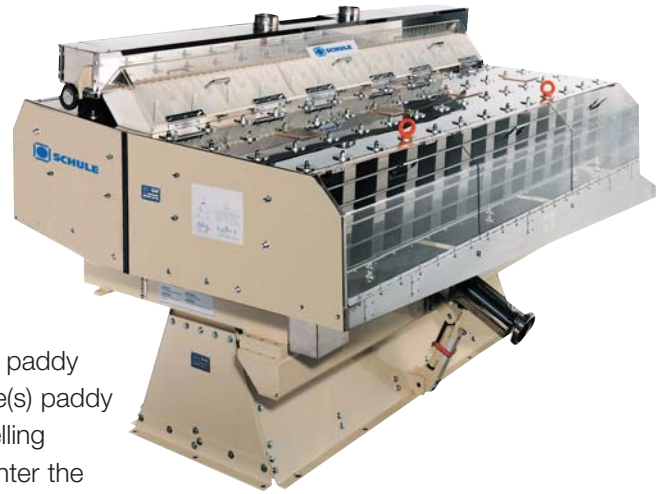
Rubber roll sheller S 10 PR with closed circuit husk separator HUS 1260

## Separation:

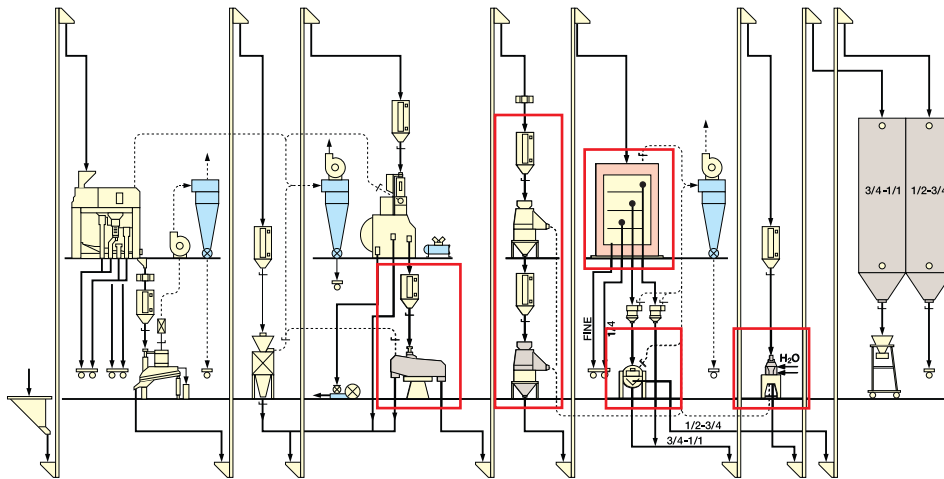


### Table Separator TH3

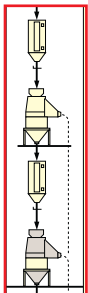
The mixture of paddy and cargo is fed to the paddy separator(s). The paddy separator(s) separate(s) paddy from cargo. The paddy is returned to the shelling section, the cargo flows into an elevator to enter the whitening section.



Paddy Separator TH3



## Whitening Section:

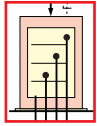


In order to protect the whitening machines a magnet is installed in front of the machines, retaining iron particles. The bran is sucked off by a pneumatic bran removal system. The bran is separated within the bran collector(s) and leaves the collector(s) through (a) bran dust lock(s).



Verticone

## Grading Section:



A planifter divides the white rice into three or four fractions:

1. Head rice ( $\frac{3}{4}$  -  $\frac{1}{4}$ )
2. A mixture of head rice and brokens ( $\frac{1}{2}$  -  $\frac{1}{4}$ )
3.  $\frac{1}{4}$  -  $\frac{1}{2}$  brokens
4. Fine brokens and tips

The fine brokens are bagged off. The  $\frac{1}{4}$  to  $\frac{1}{2}$  brokens are bagged off or conveyed into a silo – depending on the size of the mill.



The mixture of head rice and brokens is separated by a(n) indented cylinder(s) into ( $\frac{3}{4}$  -  $\frac{1}{4}$ ) brokens and head rice.

The broken rice is conveyed by an elevator into a silo.

The head rice which is separated by the indented cylinder(s) and the separated head rice of the planifter is conveyed into the polishing section.



Planifter PLS



Centrifugal Sifting Machine WSM



Indented Cylinder

### Centrifugal Sifting Machine WSM

The machine is used for the separation of granular material like rice kernels from whitening or polishing bran.

## Polishing Section:



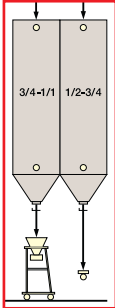
### Rice Polishing Machine RPM Rice Polishing Machine RPM W

The RPM is available as a dry as well as a water polishing machine. A combination of both is possible. Water rice polisher(s) or (a) dry polisher(s) take care off a smoother outer surface of the white rice. The polishing degree is determined by movable weights at the outlet. The bran is sucked off as described in the whitening section.



Polishing Machine RPM W

## Storage-/Blending- and Bagging Station



Various silos are designed for the storage of broken- and head rice. The rice can be blended according to the requirements – and bagged off by a bagging scale.

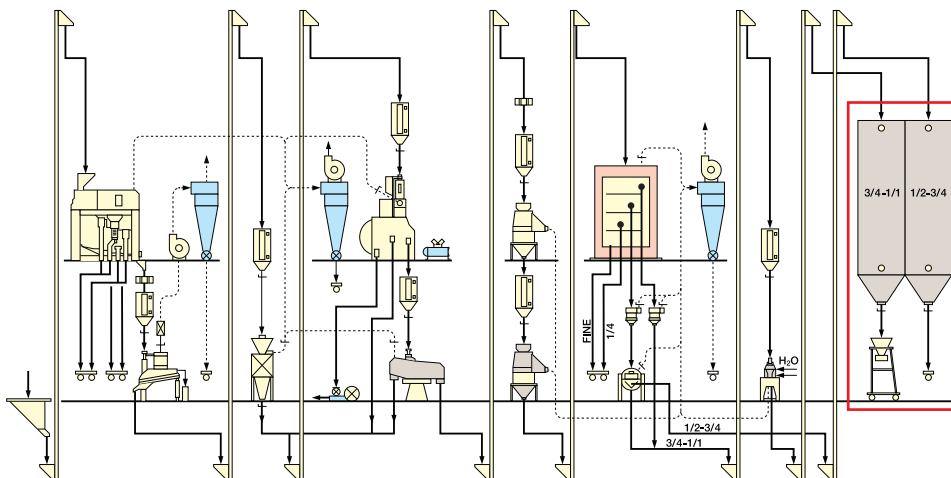
All major machines of the RIZOMAT RICE MILL, except the closed circuit husk separator, are connected to an efficient aspiration system, comprising a cyclone/filter, ventilator and dust lock.

The exhaust air is expelled to the outside of the building, while impurities discharged by the dust locks are bagged off on bagging benches.

The machines are located in general on a common platform and on the ground floor.



Bagging Station



## Types of SCHULE RIZOMAT COMPACT MILLS

RIZOMAT <sup>1)</sup>	Capacity - Paddy <sup>2)</sup> (kg/h)	Installed power <sup>3)</sup> kW
<b>3035</b>	up to 3.500	abt. 125
<b>3050</b>	up to 5.000	abt. 150
<b>3080</b>	up to 8.000	abt. 200
<b>30100</b>	up to 10.000	abt. 250
<b>30120</b>	up to 12.000	abt. 300

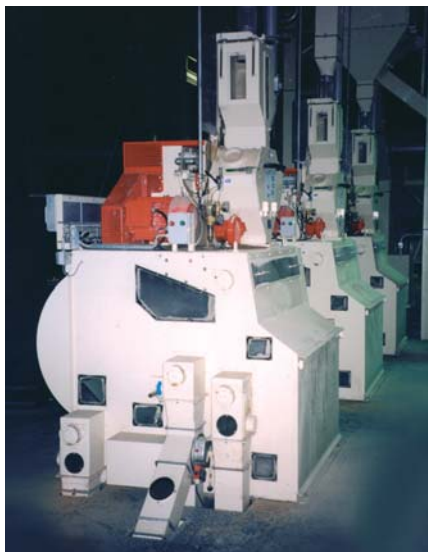
<sup>1)</sup> Special types upon request.

<sup>2)</sup> Capacities depending on rice variety.

<sup>3)</sup> Basic equipment.



Verticone  
in a Rice Mill  
in Spain



Combination  
with S10 PR  
in a Rice Mill  
in Vietnam



5 Paddy  
Separators  
in a Thai  
rice mill

## Schule Parboiling Plants

Continuous  
Parboiling Plants  
in Greece  
(Large and small  
capacity)



# SCHULE Mühlenbau.

## A company of the KAHL-Group



SCHULE is a member of the KAHL-Group



The central factory of the KAHL Group with state-of-the-art production facilities at Reinbek near Hamburg.

The area of the company comprises 40,000 m<sup>2</sup> including the built-up area, production halls and office building, with abt. 20,000 m<sup>2</sup>.

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Complete production plants for the feed, -food, nutrient and cereal processing industries

#### **F. H. Schule Mühlenbau GmbH**

Production of plants and machines for the treatment of rice, other cereals and legumes

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#### **Maschinen- und Anlagenbau GmbH**

Production of coffee/cocoa handling roasting plants and individual coffee processing machines



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