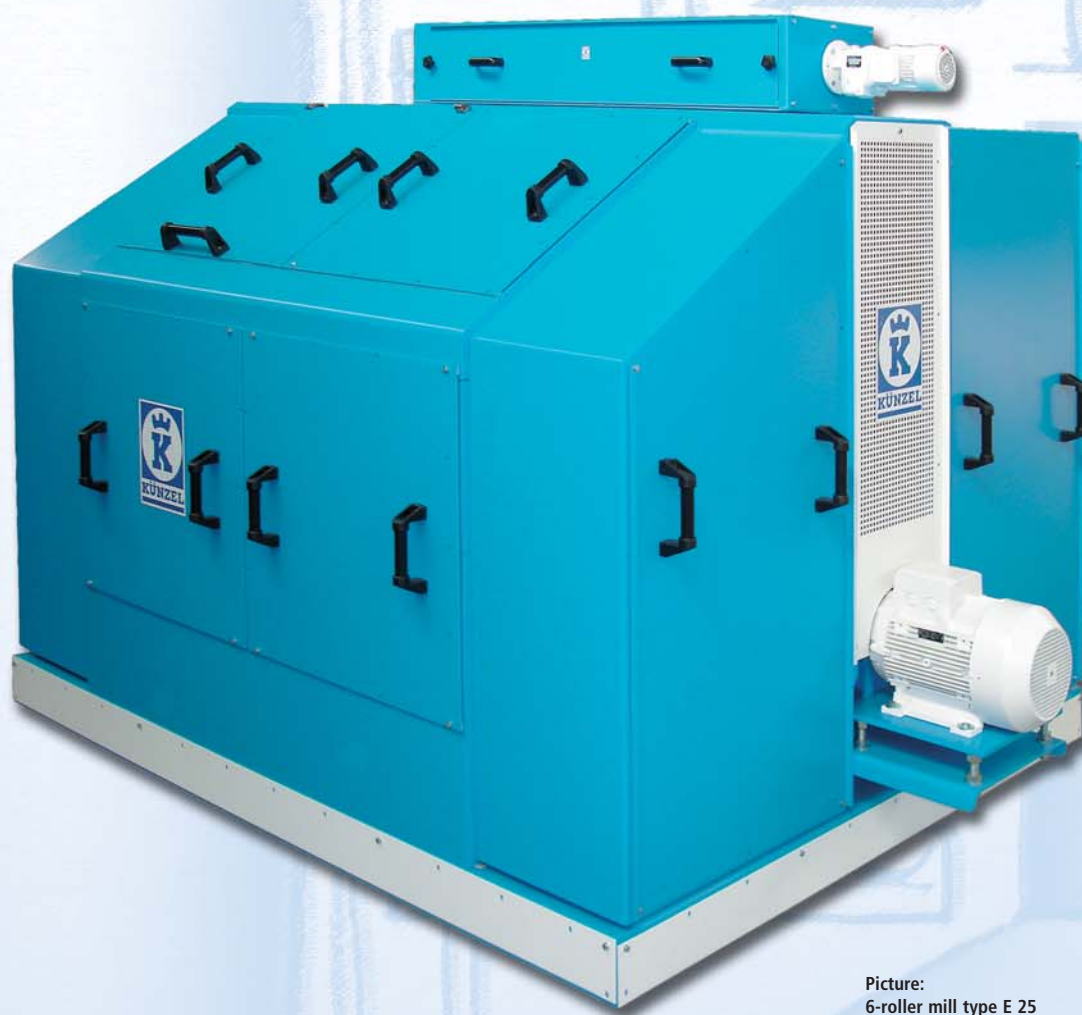


Grist mills



Picture:
6-roller mill type E 25

The start of your production cycle
with plants from the specialist.

From Malt to Mash

Malt intake | Silo plants | Conveying equipment | Flat screens | Destoners | Scales | Dust-removal devices | Malt humidification worms | **Grist mills** | Pre-mashing screws | Complete plants



Künzel mills for dry milling



During the milling process, the malt is crushed and prepared for mashing – the first step of the brewing process – the most important requirements being

- crushing of the grain to the desired particle sizes
- securing constantly low proportion of flour
- maximum protection of husk structure
- the possibility of husk separation
- adaptation to varying malt qualities

The classic dry milling process meets these requirements to an extremely high degree. It is not without reason that most of the largest breweries in the world use this system of grist preparation for lauter tun brewhouses, mostly complemented by upstream conditioning of the malt.

Künzel mills excel by their outstanding compliance with the technological requirements and for their extremely low operation costs, such as reduced power consumption, a long operating life of the rollers, the serviceability and an extremely long service life of the complete system.

This is the result of almost 100 years of experience in mill design, of solid constructions and high-precision manufacturing carried out by experienced professionals in our factory located in the Upper Franconian town of Mainleus.

A special advantage of the Künzel 6-roller mill is the intermediate screening between each pair of rollers, which results in particularly precise fractionating.

All safety requirements are taken into account. Künzel mills are certified and represent the state of the art in safety technology.



Control is carried out via a programmable electronic control system with Profibus for communication with and integration into a supervisory process control system.

Our know-how not only includes the product cycle starting from malt production, but also the control and automation as well as the entire process technology right into the brew-house: "From malt to mash".



6-roller mill type F 25



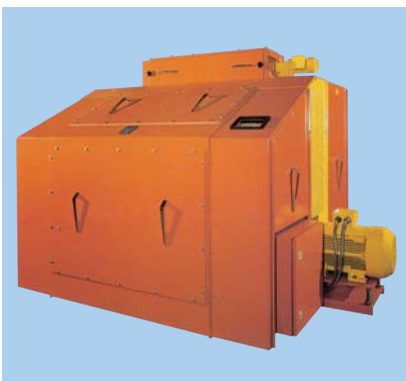
type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
F 25/125	10,000 – 12,000	2,200	2,426	2,540
F 25/150	12,000 – 14,000	2,200	2,676	2,540

6-roller mill type E 25

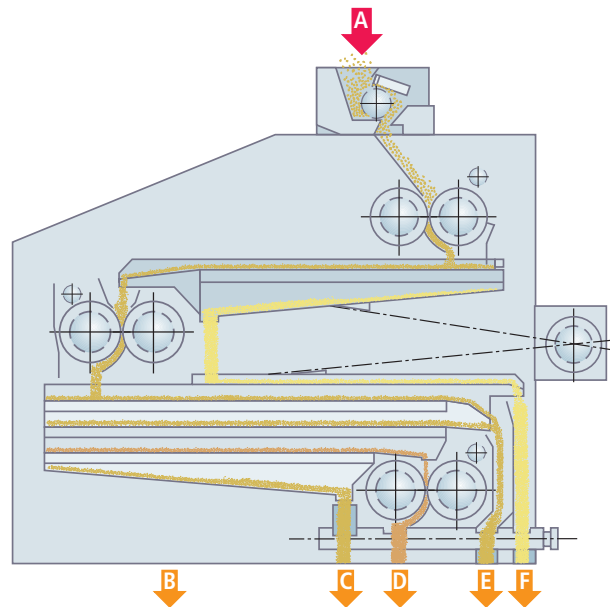
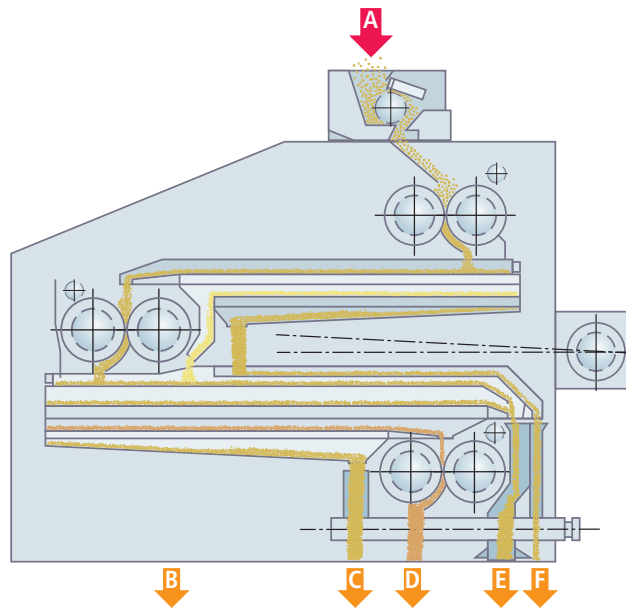
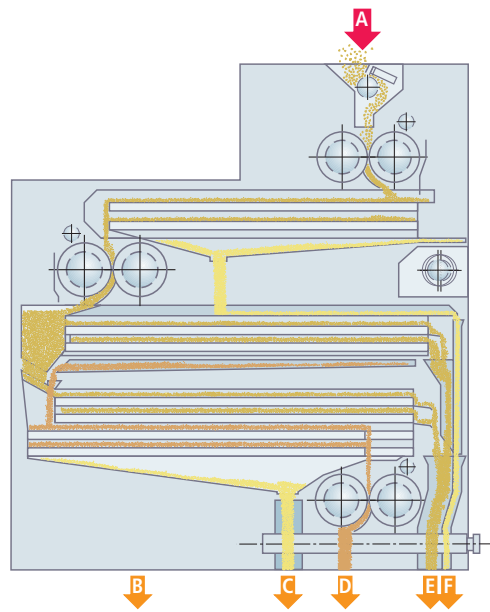


type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
E 25/80	4,000 – 5,200	2,535	1,900	2,130
E 25/100	5,400 – 6,500	2,535	2,150	2,130
E 25/125	6,700 – 8,000	2,535	2,400	2,130
E 25/150	8,000 – 10,000	2,535	2,650	2,130

6-roller mill type A 20



type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
A 20/30	800 – 1,000	1,560	900	1,370
A 20/40	1,400 – 1,800	1,970	1,275	1,745
A 20/60	2,200 – 2,700	1,970	1,475	1,745
A 20/80	3,000 – 3,600	1,970	1,675	1,745
A 20/100	3,800 – 4,500	1,970	1,875	1,745



- A Inlet
- B Fly flour
- C Grits from husk rollers
- D Grits from grits rollers
- E Husks
- F Grits from pre-crushing rollers

2-roller mills for malt



type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
16/16	250	750	550	256
16/30	500	750	890	256

2-roller mills for rice or barley



type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
AS 25/80	2,000 – 2,900	1,886	1,520	1,035
AS 25/100	2,500 – 3,800	2,136	1,520	1,035
AS 25/125	3,000 – 5,000	2,386	1,520	1,035
AS 25/150	3,500 – 6,000	2,636	1,520	1,035
20/30-2	800 – 1,000	860	840	590
20/60-2	1,600 – 2,000	860	1,140	590

4-roller mills for malt



type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
16/16-4	300 – 400	1,025	625	850
20/30	600 – 800	730	830	850
20/60	1,200 – 1,600	730	1,130	850

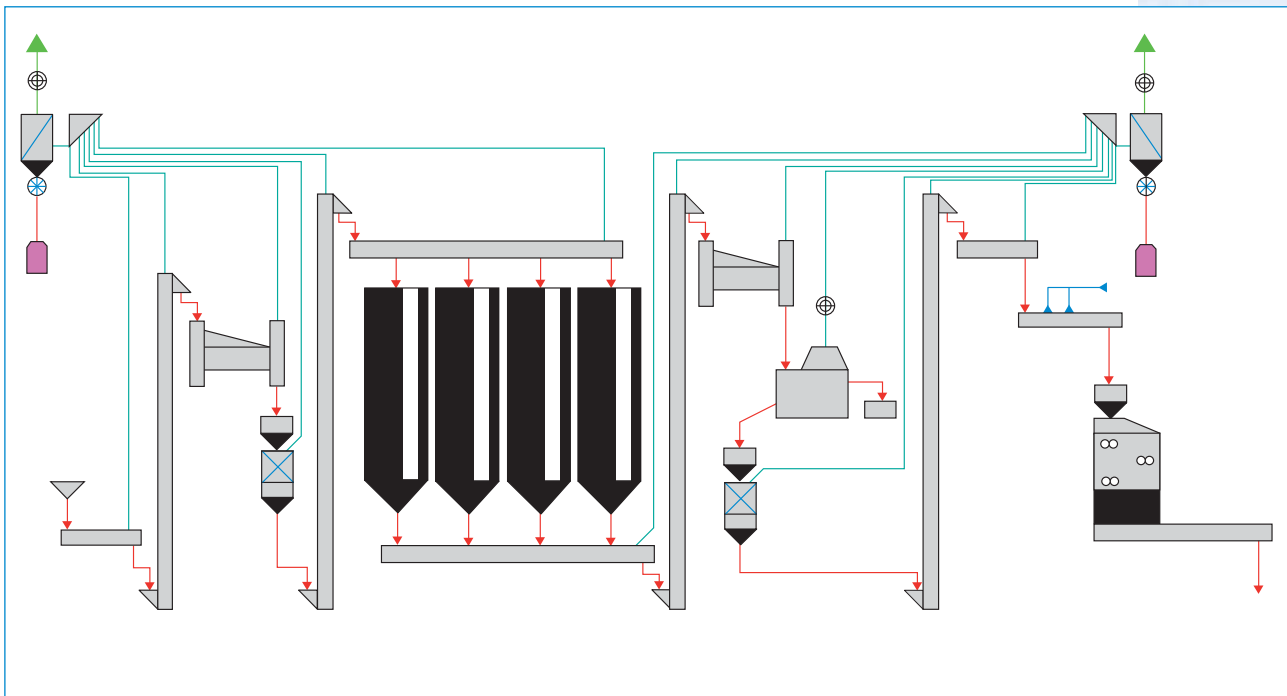
4-roller mills for rice or barley



type	milling capacity kg/h	machine dimensions (mm)		
		length	width	height
20/30-4	1,500 – 1,800	860	840	1,100
20/60-4	3,000 – 3,600	860	1,140	1,100
AS 25/80-4	3,800 – 5,600	1,886	1,520	1,870
AS 25/100-4	5,000 – 7,000	2,136	1,520	1,870
AS 25/125-4	6,000 – 8,000	2,386	1,520	1,870
AS 25/150-4	6,700 – 10,000	2,636	1,520	1,870

The start of your production cycle

In addition to grist mills, Künzel's range of products includes all equipment items for the first process stage of the brewery, from malt intake up to the brewhouse: intake facilities and devices, silos, cleaning machines, scales, conditioning screws, conveying equipment, filters and dust-removal systems. These are available as individual components or as complete plants.



Künzel
Maschinenbau GmbH
Industriestraße 7
D-95336 Mainleus (Kulmbach)
Tel +49 / (0)9229 / 88-0
Fax +49 / (0)9229 / 88-185
e-mail: info@kuenzel.cc
www.kuenzel.cc