

High-Capacity Crumblers of the Modular System

for the crumbling of pellets and coarse-grained products by means of fluted rolls.

The direct drive results in a quiet run and little wear

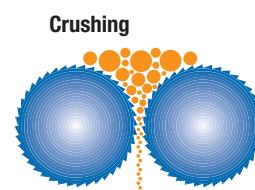


Advantages of the crumbles

- Optimum utilization of the feedstuff by the animal
- Prevention of feather picking
- Easy product flow in the dry-feeder
- Possibility of obtaining the form of crumbles, also in case of products which are difficult to pellet with high energy value (fat)
- Saving of energy by combining pelleting and crumbling
- Specific adjustment of size of crumbles

Constructive advantages

- Modular design
- Direct roll drive
- Strongly reduced noise emission
- Distance between rolls to be adjusted and controlled continuously
- Simple operation and maintenance
- Feeding either directly by cooler or via proportioning rolls



Crushing

The programme comprises crumblers, crushing roller mills, and grinders for small, medium, and large production capacities.

KAHL Crumblers

The efficiency of our crumblers is the result of experience and solid machine construction

Construction of the crumblers

The rolls are built into a flat base frame so that the small building height permits an incorporation also into existing plants without any problem. In case of need it is possible to assemble two pairs of crumbler rolls into a double crumbler.

The construction permits to take the rolls out either towards the front or to the side. Direct drives for each roll without chains, belts, or tooth-wheels make for quiet running, reduced wear, and easy maintenance.

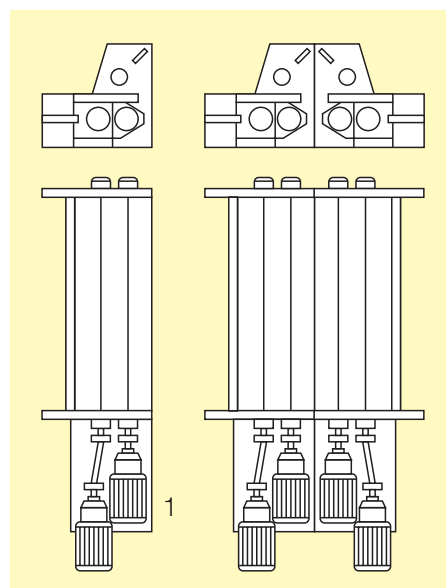
One roll is mounted in spring-type bearings. The adjustment of the roll distance and the spring pre-tensioning is done by screw spindles. The distance can be read from meters on both sides.

Working method

The pellets are fed continuously over the total width of the crumbler by means of the discharge device of the cooler or an additional feeding device. Fluted rolls of different speeds crush the pellets into the predetermined size. Due to the kind of the roll fluting and the different speeds only few fines are produced, which are recycled into the pelleting press after screening.

The changing of the spring pretension takes a certain influence on the granular size of the crumbled product. Furthermore one roll can avoid foreign matters which may be introduced.

The rolls are driven with varying speeds.



- 1 Crumbler with one pair of rolls
- 2 Double crumbler

Feeding devices

The feeding devices are equipped with a directly driven feeding roll and an adjustable feeding flap. The drive is located also either on the left or on the right as in case of the crumbler. A deviation flap makes it possible to by-pass the crumbler.

Additional equipment for adjustment and indication

The adjustment of the roll distance and the regulation of the reversing flap can be effected by the telecontrol. At the same time a tele-indication of the state of operation is made.

Type	Single crumbler		Double crumbler	
	1400	1750	1400	1750
Diam. of rolls mm	200	200	200	200
Connected value kW	9.7-16.5	14-27.7	19.4-33	28-55.4
Net weight kg	1100	1400	2200	2800
Output abt. kg/h	on request	on request	on request	on request
Feeding device	Single	Single	Double	Double
Diam. of rolls mm	80	80	80	80
Connected value kW	0.75	1.1	1.5	2.2
Weight kg	200	250	400	500



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