



**Steel Belt Systems**

## Chemical & Rubber Discharge devices

### Minibreak breaker

In all applications where the flaking of a product is needed, the breaking unit has a vital importance in the production process.

**SBS developed two kinds of breakers.**

**The one for micro-flakes of abt. 10 mm X 10 mm, for a max. thickness of 5 mm is called “Minibreak”.**

The development of this solution was suggested by the demand of customers to obtain calibrated micro-flakes with extremely low content of dust.

The heart of the system is represented by the assembly of combs and breaking rotor of the kind with inserted teeth.

The teeth of the breaking combs fixed on the body and those fixed on the rotor are identical.

The reduced dimensions of the tooth, the choice of stricter tolerances, together with the number of ranks and the rotation speed, allow the Minibreak to satisfy the expected performance.

The presence of a pre-breaking unit grants the absence of clogging inside the breaking chamber.

A sturdy body in stainless steel acts as carrying structure for all the elements which are part of the breaker.

A particular care has been put in the choice of solutions allowing a good ergonomics of use, together with operability in complete safety.

The breaking chamber is completely accessible through the opening of a glazed door, which is secured against any tampering by means of a safety micro-switch. The presence of a dedicated device ensures the immediate stop of the rotating parts at the opening of the door.

As for construction materials, different materials are available for the rotor and the combs, in order to obtain an anti-sparking behaviour also in case of anomalous interferences between rotor and the comb fixed on the body.

Furthermore, as already pointed out, the rotor's teeth are interchangeable, since they are fixed on the rotor's shaft by means of screws.

**Minibreak design**



**Flaked product**





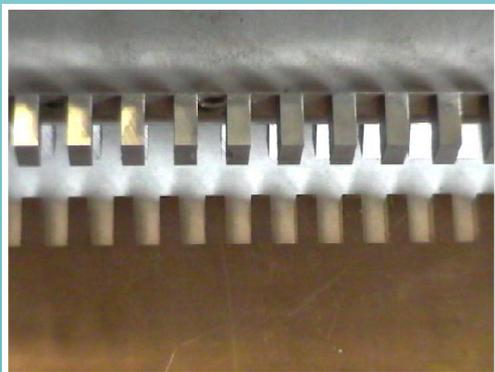
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Example of lakes dimensions (average)	
mm	%
> 10	0
10 - 8	0,27
8 . 5	10,62
5 . 4	22,44
4 -2,8	29,55
2,8 - 2	17,12
2-1	0,8
1-0,5	5,4
< 0,5	13,8

Teeth details



Rotor and comb



Example of installation

