



**HUM FLAKER, a product of advanced technology;**  
*200 to 500 ton/day oilseed processing capacity  
 Ease of use and maximum safety  
 Long lifetime with low operational cost  
 Lower maintenance and maintenance cost*

*Easy adjustment of roll gap with hydraulic unit. Thin flakes for every kind of oilseeds. Long operating life of bearings. Robust monoblock frame. New design feeder with magnet separator and observation points. Special openings on both sides for sampling. With the best automation systems, everything is under your control.*

<b>FLAKER</b>			
<b>Type</b>	<b>FS 613</b>	<b>FS 816</b>	<b>FS 821</b>
<b>Capacity (Ton/24hrs) *</b>	200	350	500
<b>Roll Dimensions (mm)</b>	600 x 1300	800 x 1600	800 x 2100
<b>Main Motor Power (kW)</b>	2 x 37,5	2 x 55	2 x 75
<b>Weight (kg)</b>	10.700	20.350	29.300
<b>Lenght-Width-Height (mm)</b>	2000 x 2350 x 2400	3030 x 2700 x 2520	3850 x 2800 x 2700

\*Capacities are based on soybean with 0.30 mm flake thickness, and may differ with cracking process quality.

# FEATURES

- Hydraulic pistons with limiter that can prevent the rolls from touching each other and can adjust the roller gap with easiness. (\*1)
- The rollers in HUM rollers could be removed and assembled in one direction therefore the machines can be installed beside walls and because motors are on the machine, space is saved in the plant.
- 2 motors are used at the machines thus efficiency was improved.
- Electric consumption is very low when compared with its competitors
- Machines are fabricated from strong steel plates and profiles. Because their construction is rigid, the machine carries its weight in the safest manner. The load and the vibration of rollers during operation are absorbed properly.
- There are leading plates ensuring entry of seed between rollers and there are side plates preventing escape of seed to shaft bearings.
- There are plates leading the flaked seed to exit.
- Surfaces of rollers are hardened thus high strength is attained. Bodies are ductile, firm and shock absorbing so the best conditions are ensured.
- Distance between rollers are hydraulically adjusted and it is available on both bearings
- There is a safe hydraulic unit, comprised of one-way hydraulic piston and valves for the passage of a large piece without giving any damage. The hydraulic unit does not carry the entire load for the sake of having longer lifetime. There is also a mechanical device in the unit as security.
- Amount of the material fed between rollers is adjusted by level controller. In case of insufficient feeding, distance between the rollers is increased automatically via level controller in order to prevent contact of rollers to each other dangerously.
- When a large piece enters between feeder rollers the switch controllers warn the valves and the scraper roller permits passage of the piece between bottom and top limits that will be pre-defined.
- Two screws operating in reverse directions in the feeding bunker where the seeds are fed to the rollers ensure continuous circulation of seeds and prevent jamming. Also it provides feeding of seeds along the entire roller.
- With the help of chain stretching mechanism, gears of the feeding spirals and the feeding roller are perfectly engaged and motor power is used in the most efficient way on both shafts.
- Scrapers guarantee that roller surfaces are kept perfectly clean during operation.
- Rollers are thread cut. Thus the moving roller operates full parallel to the fixed roller. Life time of bearing is increased and homogenous flake is produced.
- Roller bearings of the rollers have long life time and mounted on synthetic materials with anti-abrasive property. Bearings allow single direction thermal elongation and shrinkage.
- Rollers revolve at equal speed and thus less power is consumed by less heat and less vibration, lifetime of the machine parts are increased and maintenance is reduced.
- Inspection and maintenance of the machines could be performed fast and safely through the easily opening lids. Product sample could be easily taken through a special window at bottom and front.
- The desired capacity and productivity can be attained with our machines of the advanced technology only.



## REFERENCES

- SUMY - Ukraine
- Elite Oil - Ukraine
- Garant - Ukraine
- Nasha Oliya - Ukraine
- Sirius - Ukraine
- Altınyag - Turkey
- Aves - Turkey
- Efko - Russia
- Konya Şeker - Turkey
- Trakya Birlik - Turkey
- Yonca Gıda - Turkey

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