



DEHULLING SYSTEMS

PRECISE DEHULLING OF
SUNFLOWER AND OAT SEEDS



DEHULLERS

ELICA dehullers manage to distribute the incoming material evenly along its entire width by providing option to regulate the feeder's speed. The equipment achieves high quality of the final product without the need of repeating the cycle. The system is provided with remote control computer system to control the whole process. The dehuller has a built-in magnetic separator to capture the ferrite particles contained in the material flow. The service life of the easily wear parts is extended due to the wear-resistant materials used in the production. The equipment is designed to be maintained fast and easy with an access to the servicing platform from a staircase.

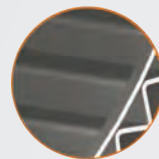
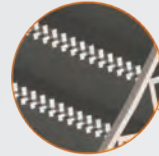
ELICA DEHULLER FOR OIL CRUSHING FACTORIES

Compact system for dehulling with high capacity (up to 180 tons per day). New patented developed by Elica's engineering team consisting of upgraded impact frame.

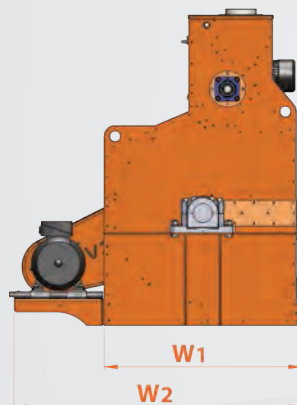
ELICA DEHULLER FOR OIL SUNFLOWER KERNELS

The high quality of dehulling is achieved by integrating the special shape of the dehulling profile with a rounded edge, resulting in reduced percentage of broken kernels(chips).

SDM/SDL



KDM/KDS



Model	Dimensions (mm)						Power (kW)	Capacity Up to**	
	H	L1	L2	W1	W2	inlet			
SDM	1552	1502	1950	936	1370	Ø 149	7.5 + 0.75	125 t/24h	For oil crushing plants
SDL	1552	2216	2515	1050	1536	252x1900	15 + 0.75	180 t/24h	
SDM - R*	1552	1502	1950	982	1420	Ø149	7.5 + 0.75	125 t/24h	
SDL - R*	1618	2280	2579	1081	1568	252x1964	15+0,75	180 t/24h	
KDM	1552	1502	1950	936	1370	Ø149	5.5 + 0.75	600 kg/h	Sunflower kernel
KDS	1552	855	1148	936	1370	Ø149	3+0.37	200 kg/h	
KDM - R*	1552	1502	1950	982	1420	Ø149	5.5 + 0.75	600 kg/h	
KDS - R*	1552	855	1148	982	1420	Ø149	3+0.37	200 kg/h	

* With impact frame adjustment

** The capacity may vary depending on the percentage of separated husk

HIGH PERFORMANCE AIR SCREEN CLEANERS

ELICA Cleaners are used in installation for dehulling kernels and oil crushing factories. They are designed with large sieve area to work on high capacity to achieve excellent efficiency and precise separating into fractions after dehulling. The closed circuit aspiration module allows the machine to manage the aspiration operation by recycling the same air inside of the machine. This is a big advantage comparing to traditional aspiration system, which requires cyclones. This type of aspiration improves the working conditions, saves cost on electricity and maintenance. Automatic control system(PLC) provides speed rotor control and a fine setting of the aspiration. The software developed entirely by the team of ELICA allows the machine's operator to create, save, organize and use again certain settings.



- Driving shaft and motor are mounted together on the down boat. This decreases vibrations and allows installation without heavy foundations.
- Low installation cost
- Extending the service life of the equipment
- Closed circuit aspiration allows air-conditioning
- No dusting in the workplace and environment
- Integrated frequency converter for precise adjustment the speed of fan
- Saves space and allows easier installation

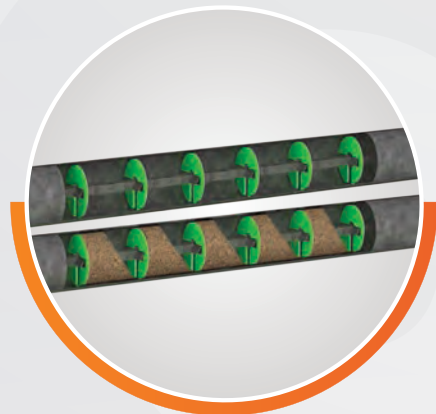
As a part of ELICA dehulling system is used Closed loop chain conveyor which combines unloading transportation, filling and loading in one process. The conveyor carries the sunflower gently and evenly without damages. Due to the paddles made of plastic PE "S" 1000 that is gentle and increases the service life of the conveyor.

PRACTICALITY

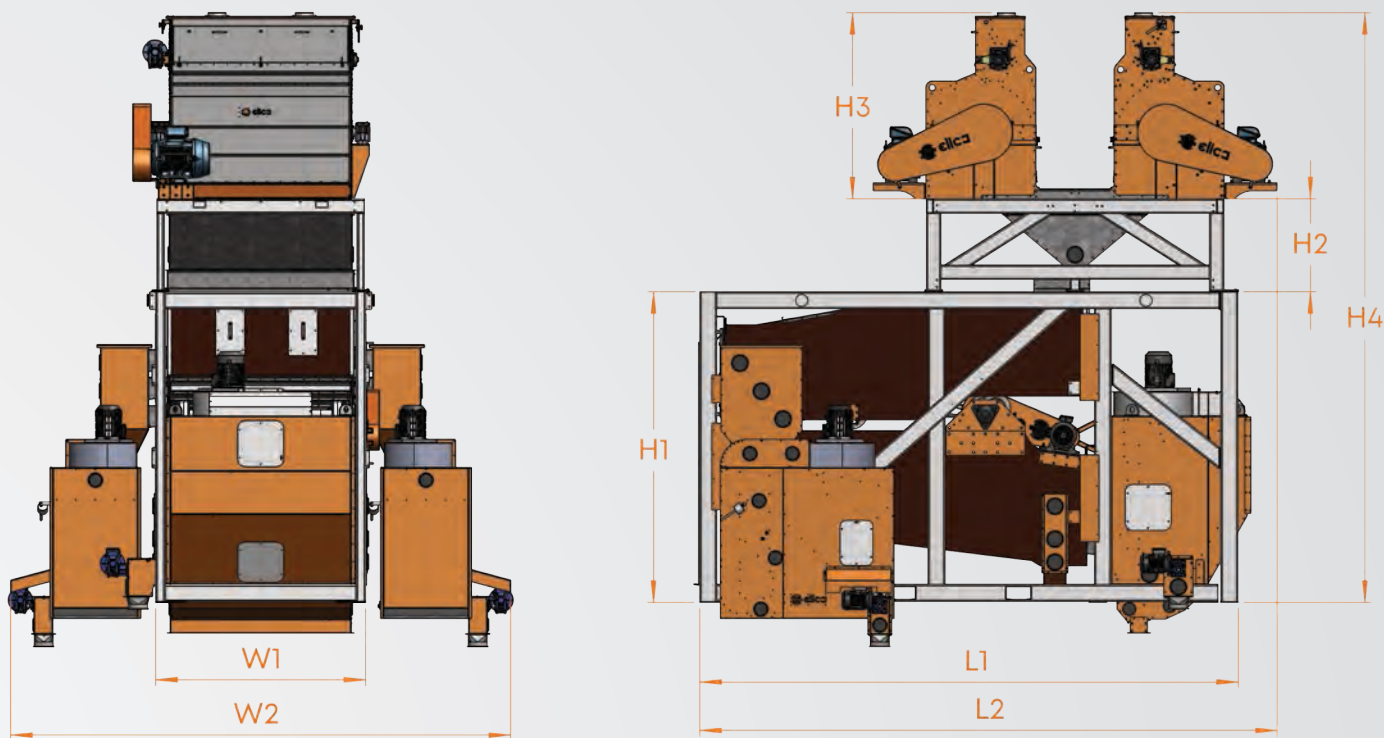
- Replaces several transport equipment (bucket elevators, chain conveyors, screw conveyors)
- Innovative gentle handling
- Reduces risk of system failure and shutdown
- Combine unloading, transportation and loading in one process
- Low power consumption and low cost

ECO-FRIENDLY

- Closed system prevents dusting the working environment
- Reduces power consumption



DEHULLING SYSTEMS



SUNFLOWER DEHULLING SYSTEMS FOR OIL-CRUSHING FACTORIES

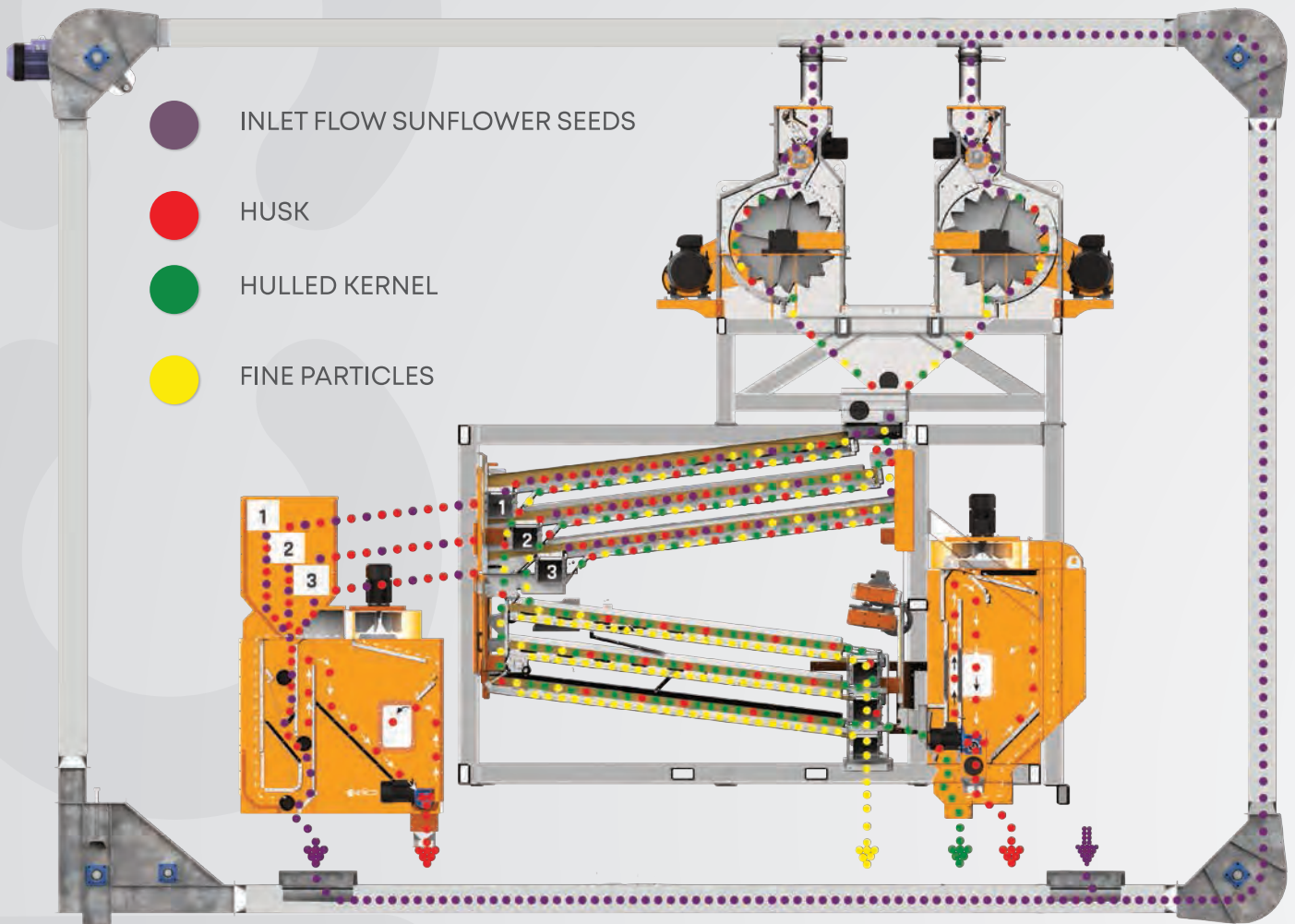
Model	Capacity*	Dehullers /pcs	Screen area (m²)	Power (kW)	Dimensions (mm)							
					L1	L2	H1	H2	H3	H4	W1	W2
LA7-SDM	Up to 200 t/24h	2	22	27.75	4440	4760	2560	770	1535	4860	1730	4150
LA7-SDL	Up to 180 t/24h	1		27	4270	4520	2560	800	1750	5020	1730	4150

*The capacity may vary depending on the percentage of separated husk

SUNFLOWER DEHULLING SYSTEMS FOR KERNELS

Model	Capacity	Dehullers /pcs	Screen area (m²)	Power (kW)	Dimensions (mm):							
					L1	L2	H1	H2	H3	H4	W1	W2
LA7-KDM	Up to 1200 kg/h	2	22	23.75	4440	4760	2550	760	1540	4860	1730	4150
LA2-KDS	Up to 400 kg/h	1	6	9.61	3160	3340	1750	450	1560	3750	960	2030

FLOW DIAGRAM



COMPANY PRESENTATION

For nearly 20 years the machines and technologies under the brand of ELICA are being designed and manufactured on Bulgarian soil in the town of Silistra. The combination of an ambitious young team and the pursuit of innovation keeps creating newer and better solutions on the market.

ELICA Processing Ltd. main expertise is delivering grain, seed and food turnkey solutions. The company's portfolio includes transport equipment for handling and storage of bulk material, processing equipment for cleaning, calibrating and treating seeds, processing grain and niche crops, sunflower seeds dehulling systems for oil crushing factories and production of kernels, as well as laboratory equipment.

Today, the challenge is to create products that at the same time meet customers' needs, regulatory requirements and good manufacturing practices. Over 15 design engineers take care of realization of our clients' individual requirements. By delivering equipment that features high performance, smart automation and stylish design, we successfully maintain the reputation of ELICA as a reliable business partner.



+359 86 820 820 / info@elica-pro.com
www.elica-pro.com



32 HARALAMPI DZHAMDZHIEV St / SILISTRA / BULGARIA