TechnoMaszBud

technomaszbud.pl

EQUIPMENT CATALOG

Pellet Lines | Granulators | Pellet Mills | Shredders | Pellet Burners

TechnoMaszBud

PROFESSIONALS FOR PROFESSIONALS

„TechnoMaszBud” company for more than **seven years** has been engaged in the production of industrial machines of any scale.

We are a **dynamic company that produces devices of European quality** at reasonable prices and are partners of many trading companies around the world.

Many years of **experience, advanced quality control and continuous improvement** allow us to create a first-class product. The highest quality equipment is the basis of our business. That is why the technical inspection department always **controls the quality of all machines and their components,** and the service department is always ready to respond quickly in case of Service accidents or technical support.

We manufacture and sell more than **1,000 pieces of equipment per year** and export our products to more than **19 countries each year.** We will gladly cooperate and do our best to provide you with the most reliable solution in relation to the price!

THE MAIN ADVANTAGES OF OUR COMPANY ARE:

- ability to test before purchase
- competitive prices
- European Equipment Certification
- wide range of products
- consistently high product quality
- constant availability of spare parts
- service support of our specialists in the selection and use of equipment

In this catalog you will find different types of devices manufactured by our company.

Thank you for your interest in our products!

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PELLET MILLS / GRANULATORS

ROTEX / KORMOTEX SERIES

ROTEX-100 *and* ***ROTEX-200*** *are compact and economical feed pelletizers intended for home use and in small farms. They can be placed on a table, which increases work comfort, and their design is perfectly suited for the production of balanced, easy-to-store feed from mixtures of grains, straw, or bran. Meanwhile,* ***KORMOTEX-260*** *is a solid and efficient industrial pelletizer, created with professional production of pelletized feed in mind. Equipped with a reinforced frame, lubricated bearings, and precise roller adjustment, it is an excellent choice for large farms and processing plants.*

ROTEX-100

Productivity	
on sawdust	-
on straw	-
on grain	up to 40 kg / h
Power	1.5 kW, 230 / 400 V

ROTEX-200

Productivity	
on sawdust	-
on straw	-
on grain	up to 200 kg / h
Power	7.5 kW, 400 V

KORMOTEX-260

Productivity	
on sawdust	-
on straw	-
on grain	up to 700 kg / h
Power	18.5 kW, 400 V

PELLETNIK SERIES

The ***PELLETNIK*** *series are electric pelletizers for the production of fuel pellets and feed granules, available in three versions: the compact PELLETNIK-150 (4 kW, up to 60 kg/h), the universal PELLETNIK-200 (7.5 kW, up to 150 kg/h), and the efficient PELLETNIK-260 (15 kW, up to 250 kg/h of pellets or 500 kg/h of feed). The devices are characterized by solid construction, belt drive, easy bearing lubrication, and the ability to work with various biomass such as sawdust, straw, or sunflower husks. They are economical, quiet, and ecological solutions, ideal both for households and professional processing plants.*

PELLETNIK-150

Productivity	
on sawdust	up to 60 kg / h
on straw	up to 50 kg / h
on grain	up to 100 kg / h
Power	4 kW, 230 / 400 V

PELLETNIK-200

Productivity	
on sawdust	up to 150 kg / h
on straw	up to 150 kg / h
on grain	up to 400 kg / h
Power	7.5 kW, 400 V

PELLETNIK-260

Productivity	
on sawdust	up to 250 kg / h
on straw	up to 250 kg / h
on grain	up to 500 kg / h
Power	15 kW, 400 V

GMK/KGM SERIES

*Granulators **KGM - 100, GMK-150/200/260** are equipped with one of the most reliable and popular types of transmission, which is a belt transmission. The powerful side of this transmission is the ease of installation, operation and repair. This series has a higher stand, which positively affects the convenience of working with the equipment. With the support of these granulators, you can prepare a granular feed mixture for rabbits, broilers, chickens, pigs, cattle, horses or quails from the available raw materials. Since the raw materials are much cheaper than the finished granulated feed mixture, you will significantly reduce the cost of breeding animals and birds, and thus increase your profits. Granulated feed is ideal for feeding fish, as it remains on the surface of the water for a long time, which allows the fish to eat almost all the feed. Therefore, you will need much less granules than other feeds. This type of granulator is designed for granulation of such raw materials as: grain waste, feed, hay, straw, peat, plastic. Other raw materials are possible.*

FEED

ELECTRIC MOTOR

KGM-100

Productivity	
on sawdust	-
on straw	-
on grain	up to 40 kg / h
Power	1.5 kW, 230 / 400 V

FEED

ELECTRIC MOTOR

GMK-150

Productivity	
on sawdust	-
on straw	-
on grain	up to 100 kg / h
Power	4 kW, 230 / 400 V

FEED

ELECTRIC MOTOR

GMK-200

Productivity	
on sawdust	-
on straw	-
on grain	up to 200 kg / h
Power	5.5 or 7.5 kW, 400 V

FEED

ELECTRIC MOTOR

GMK-260

Productivity	
on sawdust	-
on straw	-
on grain	up to 300 kg / h
Power	11 kW, 400 V

PRIME SERIES

*PRIME - **150/200/300/400** granulators belong to industrial grade granulators. This series is equipped with a durable and reliable transmission. In the drive of PRIME-150 model, hypoid transmission is installed, but in more advanced models (PRIME - 200/300/400) - toothed gear. All gears work in an oil bath (submersible lubrication), so there is no overheating. In addition, the granulators of this series can be driven by different types of drives, which plays a key role in the absence of electricity. PRIME PRO Series granulators have an improved working part design and more powerful motors in combination with an inverter, which allows you to adjust the rotation of the rollers depending on the feeded material, resulting in increased efficiency. For this series, we offer a wide range of additional equipment: screw feeders, aerodynamic dryers, sievers, coolers, belt conveyors, sprinkler systems, etc. This allows you to turn an ordinary pellet mill into a mini pellet production line that will cope with the processing of a large amount of raw materials, namely for pelletizing sawdust, dust, straw, peat, plastic, grain, grain waste, feed, hay, scrap and other materials including hard materials.*

UNIVERSAL ALL MATERIALS)

ELECTRIC MOTOR

PRIME-150

Productivity	
on sawdust	up to 50 kg / h
on straw	up to 50 kg / h
on grain	up to 70 kg / h
Power	4 kW, 230 / 400 V

SHEEP'S WOOL

SPRUCE

UNIVERSAL ALL MATERIALS)
PTO
ELECTRIC MOTOR
GASOLINE ENGINE

PRIME-200

Productivity	
on sawdust	up to 150 kg / h
on straw	up to 120 kg / h
on grain	up to 300 kg / h
Power	11 kW, 400 V

UNIVERSAL ALL MATERIALS)
PTO
ELECTRIC MOTOR
GASOLINE ENGINE

PRIME-300

Productivity	
on sawdust	up to 350 kg / h
on straw	up to 350 kg / h
on grain	up to 400 kg / h
Power	22 kW, 400 V

UNIVERSAL ALL MATERIALS)
PTO
ELECTRIC MOTOR
GASOLINE ENGINE

PRIME-400

Productivity	
on sawdust	up to 500 kg / h
on straw	up to 465 kg / h
on grain	up to 500 kg / h
Power	37 kW, 400 V

UNIVERSAL ALL MATERIALS)
PTO
ELECTRIC MOTOR
GASOLINE ENGINE

PRIME-200 PRO

Productivity	
on sawdust	up to 220 kg / h
on straw	up to 170 kg / h
on grain	up to 300 kg / h
Power	15 kW, 400 V

UNIVERSAL ALL MATERIALS)
PTO
ELECTRIC MOTOR
GASOLINE ENGINE

PRIME-300 PRO

Productivity	
on sawdust	up to 500 kg / h
on straw	up to 450 kg / h
on grain	up to 700 kg / h
Power	30 kW, 400 V

UNIVERSAL ALL MATERIALS)
PTO
ELECTRIC MOTOR
GASOLINE ENGINE

PRIME-400 PRO

Productivity	
on sawdust	up to 750 kg / h
on straw	up to 700 kg / h
on grain	up to 700 kg / h
Power	45 kW, 400 V

BEECH

OAK

MISCANTHUS

CHICKEN MANURE

PAPER

RAPESEED STRAW

PELLET PRODUCTION LINES

The LDG series lines, in combination with the PRIME series granulators, have been designed specifically for the production of pellets, granules, and compound feed. They enable the integration of several machines into a single closed cycle. Each machine performs its function independently – from smooth feeding of raw materials, through granulation, cooling, and screening of the granules, to dust and fine fraction extraction directly into bags. This ensures a clean final product, while the production process itself remains tidy (the collected waste can be re-granulated).

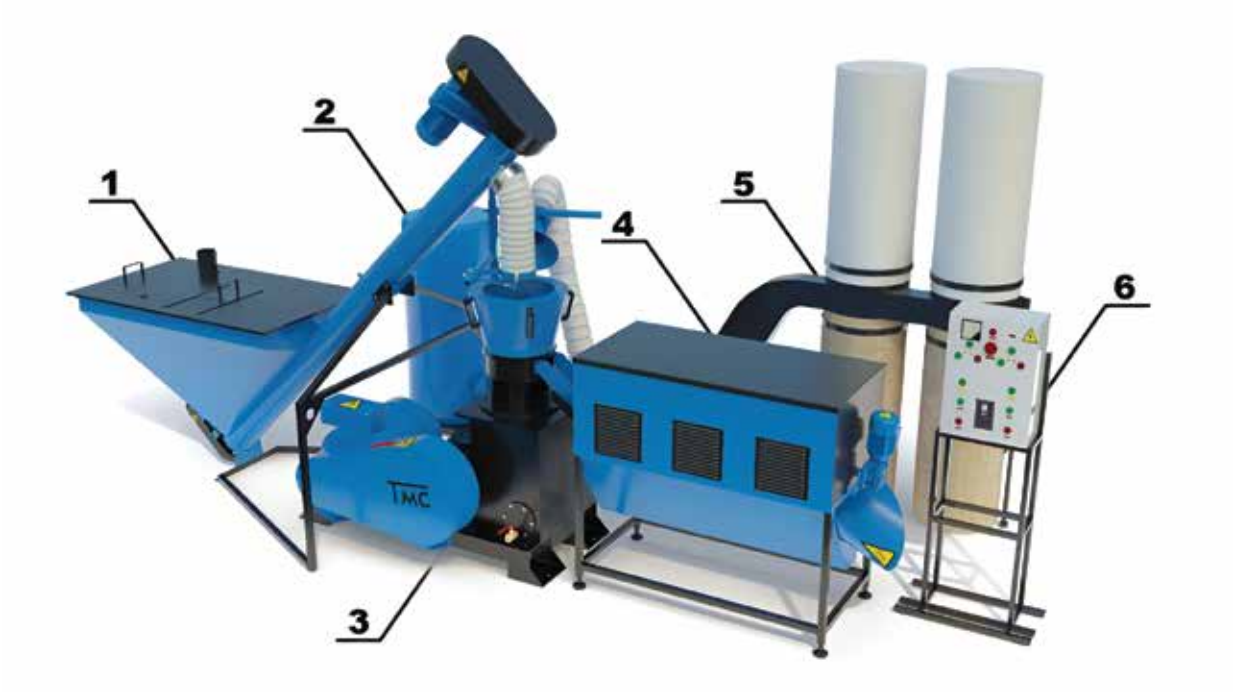
The basic set of lines includes:

1. Screw feeder
2. Humidification System
3. PRIME / PRIME PRO pellet mill
4. Calibrator-cooler for granules / pellets
5. Closed extract system
6. Control Panel

All types of lines can be equipped with additional equipment, this allows you to use the basic equipment of the line more efficiently and conveniently.

Additional equipment can be:

- WP-600 (Pellet bagging machine)
- PT-250-1000 (Conveyor Belt) with additional cooling of granules
- RD-500 (Straw shredder) with table and cyclone
- MB-500 (wood chipper mill)
- SA-400 (sawdust dryer) with a feeder-calibrator
- and many other devices depending on your needs



The overall productivity of the device depends on many factors, in particular:

- type and quality of raw materials
- operating mode of the equipment
- pellet mill models, size and type of the die installed

Some types of raw materials are more difficult to granulate and require special ability to work with equipment.

LDG-(2000/3000/4000) KOMBI

This series is equipped with a feeder with a 0.2 m³ feed tank with a screw feeder with adjustable speed.

LDG-(2000/3000) KOMBI+

This series is equipped with a feeder with the ability to calibrate the raw material before feeding into the tank, a 0.2 m³ raw material tank with a screw feeder with the ability to adjust the frequency of rotation.

LDG-(2000/3000/4000) KOMBI PRO

This series is equipped with an enlarged raw material tank with a capacity of 1 m³ with a screw feeder with adjustable rotation frequency and a pellet mill of the PRIME PRO Series.

LDG-(3000/4000) DUO

This series is equipped with a double feed tank with a capacity of 0.4 m³, and two screw feeders with adjustable rotation frequency for feeding raw materials to two simultaneously working pellet mills mounted in the line.

LDG-(3000/4000) DUO PRO

This series is equipped with a double enlarged raw material loading tank with a capacity of 2 m³, and two screw feeders with adjustable rotation frequency for feeding raw materials to two simultaneously working granulators of the PRIME PRO Series mounted in the line. In addition, the lines of this series are equipped with the most efficient pellet calibrators KC-300.

LDG-(2000/3000/4000) MAX

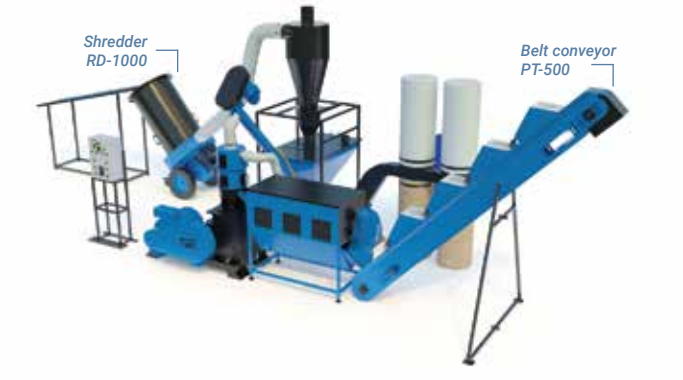
This series is equipped with a feed mixer feeder WIR series with a capacity of 1 or 2 m³ with a screw feeder with adjustable speed for feeding raw materials to the pellet mill mounted in the line. This series is most suitable for the production of granular feed.

LDG-(2000/3000/4000) MAX+

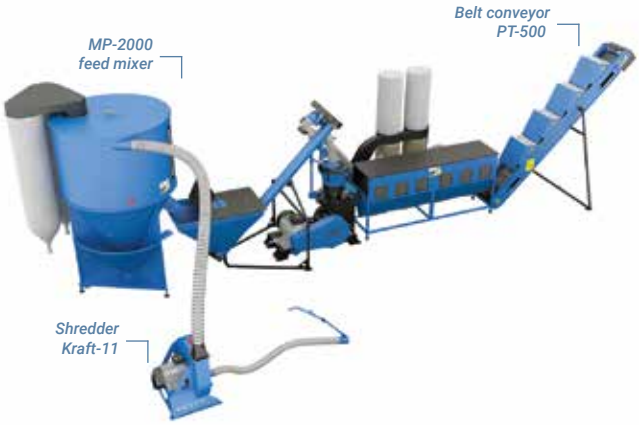
This series is equipped with a feeder with a raw material tank, which serves as a dedusting cyclone, and is most suitable for connecting various types of pneumatic feeding machines to the tank. Tank capacity - 1.5 m³. Feeding of raw material into the pellet mill is carried out by means of a screw feeder with the possibility of adjusting the frequency of rotation.

EXAMPLE OF LINE SETS

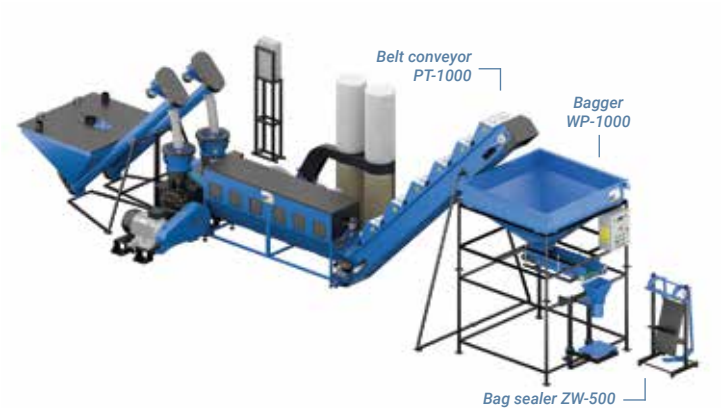
*Pellet production line **LDG-2000 KOMBI***
+ Aerodynamic dryer SA-400
+ Belt conveyor PT-500



*Pellet production line **LDG-3000 KOMBI***
+ Belt conveyor PT-500 + Shredder RD-1000 with Cyclone



Granular feed production line
***LDG-3000 KOMBI** + MP-2000 feed mixer*
+ Shredder (Hammer Mill) Kraft-11
+ Belt conveyor PT-500



***LDG-3000 DUO** pellet production line*
+ Belt conveyor PT-1000
+ Bagger WP-1000 + Bag sealer ZW-500

*Pellet production line **LDG-4000 KOMBI***
+ Bagger WP-600
+ Bag sealer ZW-500

***LDG-4000 MAX** plus pellet production line*
+ Belt conveyor PT-500 + Hammer Mill MB-500

BRIQUETTING MACHINES / BRIQUETTING LINES

TechnoMaszBud company offers two types of briquette production lines – LDB for the production of round briquettes and LPK for the production of Pini Kay briquettes. Both solutions have been designed with efficient and economical production of fuel briquettes in mind. These systems integrate several machines into one closed production cycle, in which each performs a specific function: from smooth feeding of raw materials, through briquetting and cooling, to dust removal and direct packing of the finished product into bags. Such a solution allows obtaining a clean final product, facilitates keeping order in the workplace, and the collected waste can be re-briquetted. The basic difference between the LDB and LPK lines lies in the type of briquette produced, the type of briquetting machines used, and the equipment included in the set.

The basic set of the LDB line includes:

1. Screw feeder
2. BT series briquetting machine equipped with a cooling line (min. 3 meters)
3. Closed extraction system
4. Control panel

The basic set of the LPK line includes:

1. Screw feeder
2. BS series briquetting machine
3. Cutting module
4. Closed extraction system
5. Control panel

All types of lines can be equipped with additional equipment, which allows the basic equipment of the line to be used more effectively and conveniently.

The overall efficiency of the device depends on many factors, in particular:

- on the type and quality of raw materials
- on the working mode of the equipment
- on the model of the briquetting machine

Some types of raw materials are more difficult to briquette and require the operator to have special skills in handling the equipment.

Advantages of working

on the LDB series line:

- ✓ maximum briquette density: 1.4 g/cm³
- ✓ briquette size: d = 50 mm (diameter), L = 20–300 mm (length)
- ✓ raw material moisture content: up to 15%
- ✓ raw material particle size: from 2 to 25 mm
- ✓ type of raw material: sawdust, sunflower husk, straw, etc.
- ✓ no oxygen smoke during operation
- ✓ no heaters
- ✓ one operator can handle 2–3 briquetting machines at the same time

on the LPK series line:

- ✓ maximum briquette density: 1.3 g/cm³
- ✓ three types of dies: square (50×50 mm), hexagonal (Ø60 mm), and "daisy" (Ø55 mm)
- ✓ adjustable briquette length
- ✓ raw material moisture content: up to 10%
- ✓ raw material particle size: from 2 to 25 mm
- ✓ type of raw material: sawdust, sunflower husk, straw, etc.
- ✓ forming zone reaches 280–350°C
- ✓ one operator can handle 2–3 briquetting machines at the same time

LDB SERIES

*This series includes lines based on **BT mechanical piston briquetting machines** – efficient machines for the production of fuel briquettes from sawdust, straw, hay, or grain waste. A solid crank mechanism guarantees reliable operation and low energy consumption, and the impact extrusion technology makes it possible to obtain briquettes of high density. The devices can work independently or be part of complete production lines, such as LDB-350 with a single screw feeder with adjustable speed or LDB-350 DUO with a double screw feeder for the simultaneous operation of two briquetting machines.*

BRIQUETTING MACHINE BT-350

Motor power	23 kW
Productivity	up to 350 kg / h

LINE LDB-350

Motor power	25 kW
Productivity	up to 350 kg / h
Tank capacity	0.2 m³

LINE LDB-350 DUO

Motor power	51 kW
Productivity	up to 700 kg / h
Tank capacity	0.4 m³

SERIES LPK

*This series includes lines based on **BS screw briquetting machines** – efficient machines for the production of Pini Kay briquettes from sawdust, straw, hay, or grain waste. The forming process at a temperature of 280–350°C ensures high durability of briquettes without the need for chemical binders. The devices can work independently or as part of a complete production line LPK-500 with a single screw feeder with adjustable raw material feeding speed. It is possible to produce briquettes of various shapes and sizes: square (50×50 mm), hexagon (Ø60 mm), and "daisy" (Ø55 mm).*

BRIQUETTING MACHINE BS-80

Motor power	30 kW
Productivity	up to 500 kg / h

LINE LPK-500

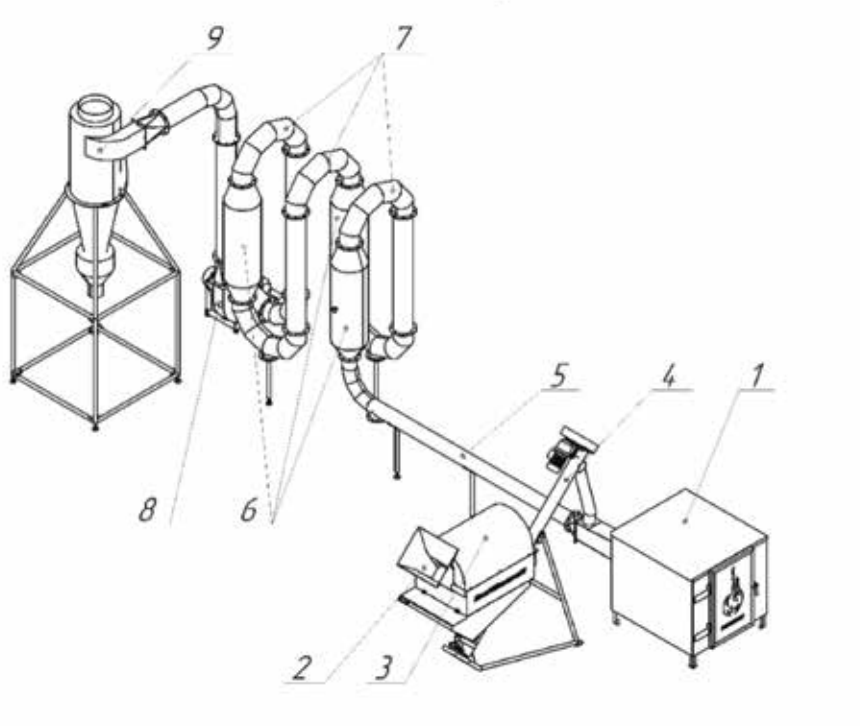
Motor power	33 kW
Productivity	up to 500 kg / h
Tank capacity	0.2 m³

AERODYNAMIC DRYERS

Aerodynamic dryers are used to prepare raw materials before the pelletizing or briquetting process begins. The heat generator (furnace) ensures the drying of raw materials to the required moisture content. **The main differences between the SA-400, SA-600, SA-800, and SA-1200 aerodynamic dryers lie in their productivity per hour, furnace power, length of the piping, and fan motor specifications. In contrast, the main differences in the PRO series aerodynamic dryers are related to the integration of an automatic pellet burner with a power of 250 or 350 kW.** Fresh wood sawdust with a moisture content of 40-60% and below is dried and prepared for pelletizing after a single pass through the dryer.

Elements of the aerodynamic dryer:

1. Furnace (built with firebricks)
2. Feeder tank
3. Calibrator
4. Screw feeder
5. Raw material transport pipe
6. Three drying chambers
7. Piping system
8. Radial fan
9. Cyclone
10. Control panel with a frequency regulator (not illustrated)



How the aerodynamic dryer works?

1 Raw material is fed into the calibrator-feeder tank, which is pre-screened to remove large impurities. Additionally, powerful neodymium magnets are installed at the feeder outlet to capture metal contaminants.

2 The calibrator-feeder supplies the raw material to the dryer's piping. The feeding speed is regulated by a frequency converter. Along with the hot air, the raw materials are transported through the piping. When the fan operates in the dryer, a dilution is created, allowing heated air to be drawn from the heat generator into the raw material feeding pipe, where it flows with the calibrated raw materials to the first drying chamber.

3 In the drying chamber, the airflow mixed with the raw materials circulates, reaching speeds of 25-28 m/s. Due to the friction of the raw material particles with each other and their interaction with the heated air, they are heated, moisture is intensely eliminated, and a "boiling layer" forms at the top of the chamber. During drying, lighter particles are transported to the second drying chamber with the flowing heat carrier. There, the raw material is dried similarly.

4 From the drying chambers, the raw material with the heat carrier enters the cyclone, through which the raw material passes and particles are separated from the water vapor generated during drying. Steam exits through the upper opening of the cyclone, while dried sawdust exits through the lower opening.

SA-400

Motor Power	4.75 kW, 400 V
Productivity	up to 400 kg / h

SA-400 PRO

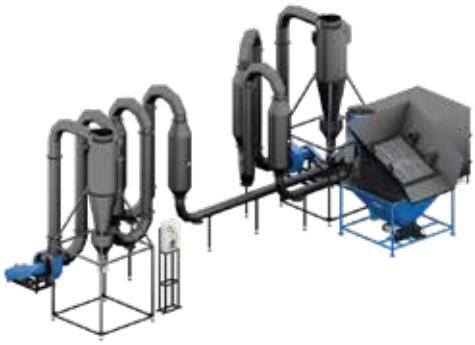
Motor Power	4.75 kW, 400 V
Productivity	up to 400 kg / h
Burner power	250 kW

SA-600

Motor Power	7.35 kW, 400 V
Productivity	up to 600 kg / h

SA-600 PRO

Motor Power	7.35 kW, 400 V
Productivity	up to 600 kg / h
Burner power	350 kW

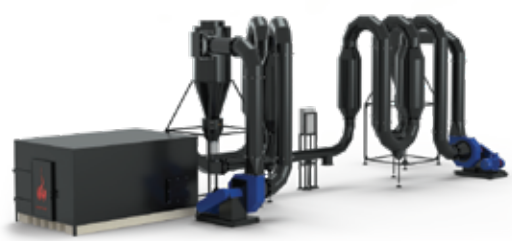


SA-800

Motor Power	11.35 kW, 400 V
Productivity	up to 800 kg / h

SA-800 PRO

Motor Power	11.35 kW, 400 V
Productivity	up to 800 kg / h
Burner power	350 kW



SA-1200

Motor Power	23.85 kW, 400 V
Productivity	up to 1200 kg / h

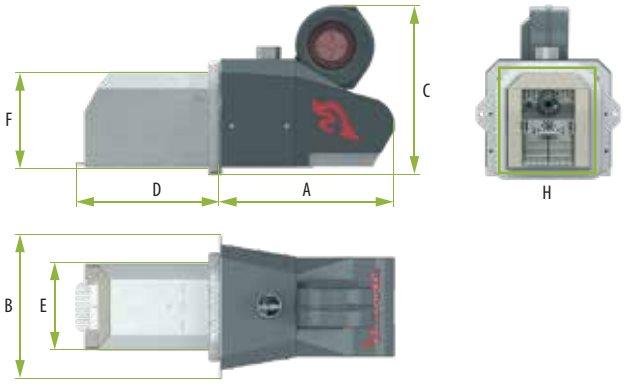
SA-1200 PRO

Motor Power	23.85 kW, 400 V
Productivity	up to 1200 kg / h
Burner power	500 kW

PELLET BURNERS

DOMNA ECO 22-80 KW

The Domna Eco series are burners for the domestic and commercial sectors. They can heat an area of 100 to 800 m³. Power range from 22 to 80 KW.

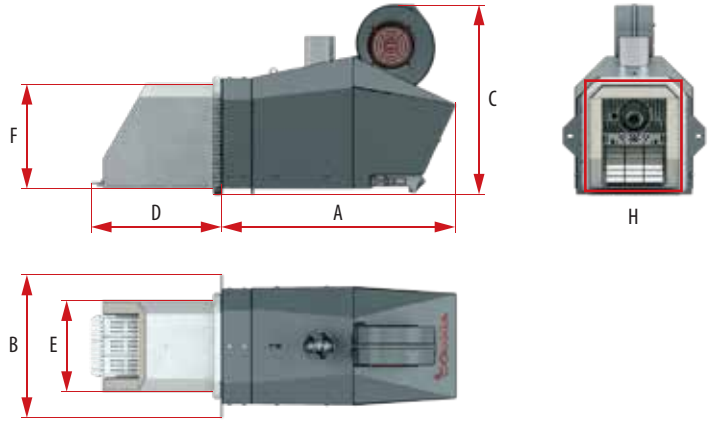


Model	22 kW	35 kW	50 kW	60 kW	80 kW
Power (min-max), kW	4-25	7-38	10-60	12-67	16-85
Mains voltage	230V AC / 50Hz				
Fuel	Pellet Ø 6-8 mm				
Weight, kg*	23.6	26.1	30.1	27.8	33
Power consumption (operating), W	123				
Power consumption (starting), W	397				
Required chimney draft	22 Pa				
Noise level	45 dB				
Thermal efficiency (COP)	up to 98%				
Length of the rear part (A), mm	365	365	365	365	365
Total width (B), mm	280	280	280	280	280
Total height (C), mm	338	338	338	338	338
Length of the burner combustion chamber (D), mm	214	236	300	236	300
Width of the burner combustion chamber (E), mm	161	181	181	229	229
Height of the burner combustion chamber (F), mm	183	199	199	199	199
Mounting hole for the burner (H) Width x Height, mm	163x185	202x184	202x184	202x233	202x233

*Without screw feeder and controller ** Depends on the boiler and heating system.

DOMNA PRO 100-250 KW

The Domna Pro series are burners for the commercial and industrial sectors. They can heat an area of 1000 to 2500 m³. Power range from 100 to 250 KW.

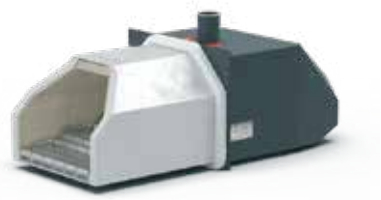


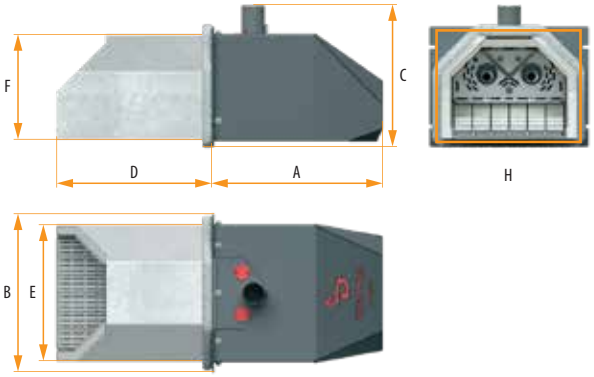
Model	100 kW	150 kW	200 kW	250 kW
Power (min-max), kW	20-110	30-160	40-240	50-270
Mains voltage	230V AC / 50Hz			
Fuel	Pellet Ø 6-8 mm			
Weight, kg*	55	62	107	113
Power consumption (operating), W		130	180	
Power consumption (starting), W	397	500	583	
Required chimney draft	22 Pa			
Noise level	51 dB			
Thermal efficiency (COP)	up to 98%			
Length of the rear part (A), mm	625	561	752	513
Total width (B), mm	361	361	530	530
Total height (C), mm	481	481	533	533
Length of the burner combustion chamber (D), mm	300	315	276	515
Width of the burner combustion chamber (E), mm	229	281	332	332
Height of the burner combustion chamber (F), mm	264	264	321	347
Mounting hole for the burner (H) Width x Height, mm	236x270	288x270	340x355	340x355

*Without screw feeder and controller ** Depends on the boiler and heating system.

DOMNA MAX 300-750 KW

The Domna Max series are burners for the industrial sector and for tasks requiring maximum power. They can heat an area of 3000 to 7500 m³. Power range from 300 to 750 KW.





Model	300 kW	350 kW	400 kW	500 kW	750 kW
Power (min-max), kW	60-320	70-380	80-440	100-550	150-820
Mains voltage	230V AC / 50Hz				
Fuel	Pellet Ø 6-8 mm				
Weight, kg*	141	157	264	289	462
Power consumption (operating), W	315	230	315	333	416
Power consumption (starting), W	815	660	815	1073	1156
Required chimney draft	22 Pa				
Noise level	45 dB				
Thermal efficiency (COP)	up to 98%				
Length of the rear part (A), mm	761	571	955	955	1263
Total width (B), mm	530	530	580	656	753
Total height (C), mm	533	473	681	681	768
Length of the burner combustion chamber (D), mm	338	520	289	289	384
Width of the burner combustion chamber (E), mm	390	453	453	511	581
Height of the burner combustion chamber (F), mm	347	347	491	491	583
Mounting hole for the burner (H) Width x Height, mm	397x354	460x354	460x498	518x498	588x590

*Without screw feeder and controller ** Depends on the boiler and heating system.

SHREDDERS

HOME SHREDDER

Home shredders are designed for shredding hay, grain, and straw for pets and other needs. These models are simple and intuitive to operate. They have a small weight and dimensions, which makes them very convenient for transporting or storing. The screens (grids) are interchangeable, allowing for the selection of the appropriate fraction. The main difference between the ***RD-150 and RDS-30*** *is the ability to grind grain.*

RDS-30

Productivity	up to 50 kg / h
Power	1.1 kW, 230 / 400 V
Blades	4 pcs.

RD-150

Productivity	
on grain	up to 150 kg / h
on straw	up to 100 kg / h
Power	2.2 kW, 230 / 400 V
Blades	10 pcs.

RD SERIES SHREDDERS

The universal shredders in the "RD" series differ in dimensions, productivity, number and type of knives, motor power, and types of connections. These shredders are suitable for grinding various types of soft raw materials, including straw, hay, chips, grain, cardboard, paper, foams, etc. The main difference between the ***RD-250 and RD-500/1000*** *is the ability to grind grain. The screens are interchangeable, allowing for the selection of the appropriate fraction.*

RD-250

Productivity	
on grain	up to 500 kg / h
on straw	up to 150 kg / h
Power	4 kW, 230 / 400 V

RD-500

Productivity	up to 500 kg / h
Power	11 kW, 400V

RD-1000

Productivity	up to 1000 kg / h
Motor power	18.5 kW, 400V

ALLIGATOR SERIES SHREDDERS

*The universal **Alligator** series shredders are designed for grinding bales of 1 to 1.8 m, cubes, and loose agricultural materials. They are suitable for grinding straw, hay, corn stalks, sunflower stalks, vine stems, etc. The screens (grids) are interchangeable, allowing for the selection of the appropriate fraction.*

CHARACTERISTICS OF PRELIMINARY MATERIAL GRINDING ON ALLIGATOR-TYPE SHREDDERS:

№	Name	Alligator-18
1	Output (estimated), kg/hour	1000-2000
2	Average length of ground material, cm	from 0.6 to 5
3	Rotor speed, rpm	1500
4	Rotor diameter, mm	700
5	Tank diameter, mm	1844
6	Material moisture content, % (no more than)	60
7	Installed power, kW	37/45
8	Drum speed, rpm	0-8
9	Dimensions, length, mm	2700
10	Dimensions, width, mm	2210
11	Dimensions, height, mm	1770
12	Weight, kg, from	1100

TOKMAK SERIES SHREDDERS

*The universal **Tokmak** series shredders, equipped with side loading and a screw feeding system to the shredding zone, are designed for grinding bales of up to 1.8 meters, as well as cubes and loose agricultural materials. They work perfectly for shredding materials such as straw, hay, corn stalks, sunflower stalks, and vine stems. Interchangeable screens (grids) allow for adjusting the particle size of the shredded material from 6 to 20 mm, depending on needs.*

TOKMAK

Productivity	
6 mm fraction	up to 500 kg / h
12 mm fraction	up to 800 kg / h
18 mm fraction	up to 1000 kg / h
Power	49 kW, 400 V

TOKMAK DUO

Productivity	
6 mm fraction	up to 1000 kg / h
12 mm fraction	up to 1600 kg / h
18 mm fraction	up to 2000 kg / h
Power	79 kW, 400 V

UNIVERSAL-11 SHREDDER

*The **Universal-11** is a versatile 2-in-1 shredder that combines the functions of a straw shredder and a grain grinder. The feeding tank is proportionally divided into two equal parts. The upper part is used for shredding straw, while the lower part is for grinding grain. Interchangeable screens (grids) allow for adjusting the particle size of the shredded material in both the grain crushing zone and the straw shredding zone. This equipment is essential for rural farms and for the production of pellets and briquettes. The resulting product can be used as well as feed and bedding for animals and birds.*

UNIVERSAL-11

Productivity	
on grain	up to 1000 kg / h
on straw	up to 200 kg / h
Power	11 kW, 400 V

DISINTEGRATOR DIPS-300

Disintegrator DIPS-300 is a multifunctional device for extremely fine grinding of raw materials – from mineral materials through feed to pharmaceutical ingredients. It works efficiently on the principle of mechanical grinding using high-speed discs (3000 rpm), achieving a fraction from 20 to 200 µm. Equipped with 80 fingers on a 450 mm diameter disc, it can process from 400 to 600 tons of material depending on its characteristics. Versions with motors of a total power of 8 or 11 kW are available, which allows adjusting the parameters to the specific production needs.

DIPS-300

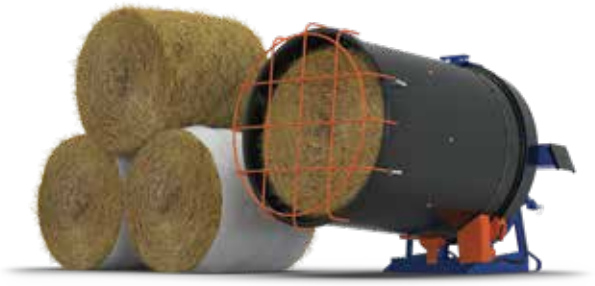
Number of crushing elements	80 pcs.
Power	11 kW, 400 V

CYCLONE (ADDITIONAL ELEMENT)

This device is used to clean gases or air from solid particles (dust). In the cyclone, contaminated air enters a cylindrical chamber and swirls within it, causing heavier particles to be ejected outward due to centrifugal force. As a result of rubbing against the cyclone walls, they lose speed (kinetic energy) and fall under the influence of gravity, while clean air flows upward through a centrally located channel. Our devices can be equipped with cyclones, for example, to separate pneumatically transported materials (e.g., chips and sawdust) from the air after shredding.

BALE SHREDDER RD-2500 FOR PTO

This is an efficient device designed for fast shredding of dry straw and hay – an ideal solution for livestock farms. Thanks to the direct rotor drive from the power take-off (PTO) and hydraulic drum control, the machine offers stable and efficient operation. Replaceable screens (6–20 mm) allow adjustment of cutting length, while the throw range reaching up to 10 m and capacity of up to 2.5 t/h ensure quick processing of large amounts of bales.



RD-2500 for PTO

Productivity	up to 2500 kg / h
Maximum bale diameter	1.5 m
Minimum PTO power	80 HP

WASTE SHREDDERS

PALLET SHREDDER

Pallet shredder SB-10 *is a powerful and easy-to-use device for crushing and recycling wooden pallets. It enables fast and convenient shredding, and the obtained wood can be used, for example, for pellet production. It is also suitable for recycling waste paper, plastics, and other materials. The screw mechanism ensures high efficiency in processing large elements such as pallets, window frames, or woodworking industry waste.*

SB-10

Motor power	7.5 kW, 400 V
Productivity	up to 50 pallets / h

TWIN-SHAFT SHREDDER

EZ series *shredders are twin-shaft rotary shredders with high torque, designed for working with hard and demanding materials. Their construction combines low rotational speed with high cutting force, ensuring stable and reliable operation with minimal maintenance requirements. Equipped with an automatic reverse function, they automatically retract the knives when encountering exceptionally hard fragments, then make another attempt to shred them.*

EZ-40

Motor power	74 kW, 400 V
Rotor diameter	400 mm
Number of knives	40 pcs.

CARDBOARD AND PAPERBOARD SHREDDER

NT-2 *is a compact device for converting used cardboard into packaging material. It shreds it into flexible sheets that work perfectly as filling or product protection during transport. This reduces the cost of purchasing new packaging materials and decreases the amount of waste generated. The advanced cutting and processing mechanism enables fast processing of large amounts of cardboard in a single cycle.*

NT-2

Motor power	1.1 kW, 230 V
Productivity	1–2 m³/h
Cutting blade width	320 mm

SINGLE-SHAFT SHREDDER

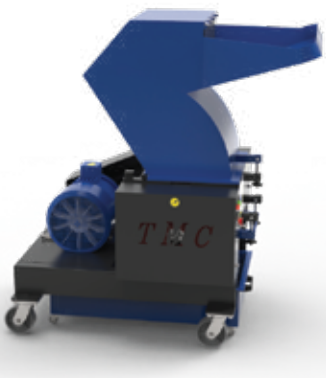
Shredder ***RJ-600*** *has become a classic solution for all types of waste. The shredded material can be discharged using an air conveyor or a belt conveyor. The profiled innovative V-rotor with dimensions 600×252 mm containing 28 knives of 40×40 mm is made of durable material and mounted on reliable bearings. Special knife mounts are welded to the milled pockets on the rotor. The cutting knives are mounted in them and bolted from the back, which ensures quick and easy blade replacement.*

RJ-600

Motor power	22 kW
Rotor diameter	252 mm
Number of knives	28 pcs.

IMPACT SHREDDER FOR PLASTIC

Shredder ***GRINDEX-7*** *with a horizontal shaft is an ideal solution for companies dealing with recycling of waste. This device can shred polymers, plastics (such as HDPE, LDPE, PP, PE, and PVC), and even wood and carpentry waste. The GRINDEX shredder also allows easy cleaning and quick replacement or sharpening of knives thanks to its modular design. The rotor with dimensions 400×220 mm containing 12 knives 100×90 mm is made of durable material and mounted on reliable bearings.*



Grindex-7

Motor power	7.5 kW
Rotor diameter	220 mm
Number of knives	14 pcs.

CHIPPERS / WOOD SHREDDERS

CR SERIES (DISK CHIPPERS)

*The **CR** series chippers are disc-type shredders designed for shredding branches, strips, shavings, and other wood waste into technological chips sized from 5 to 50 mm. The maximum raw material diameter is 100 mm in CR-500 or 160 mm in CR-700, depending on the type and moisture content of the wood. The CR series shredders can change the direction of ejection of the finished material by 360 degrees. Additionally, the chippers in this series can be powered by various types of drives, which plays a key role when operating without an electric power source. This series can work in conjunction with pellet production equipment.*

CR-500

Output fraction	from 5 to 50 mm
Productivity	up to 6 m³ / h
Power	11 kW, 400 V
Number of knives	4 pcs.

CR-700

Output fraction	from 5 to 45 mm
Productivity	up to 10 m³ / h
Power	22 kW, 400 V
Number of knives	2 pcs.

ŻUBR SERIES (DRUM CHIPPERS)

*The **ŻUBR** series wood shredders are drum-type shredders primarily for industrial use, suitable for shredding, disposing of, and processing all wood waste, branches, furniture production waste (particleboard, fiberboard, plywood), sawmill waste, and much more. The shredders are equipped with a conveyor for convenient unloading of chips or sawdust, e.g., into a big bag or hammer mill. The ŻUBR-30 grinds raw material into chips, while the ŻUBR-50/75 grinds it directly into sawdust. One of the advantages of this series of shredders is the large size of the loading opening, which allows for shredding large elements of the raw material.*

ŻUBR-30

Output fraction	from 5 to 50 mm
Productivity	up to 15 m³ / h
Power	32.2 kW, 400 V
Number of knives	12 pcs.

ŻUBR-55

Output fraction	from 5 to10 mm
Productivity	up to 1500 kg / h
Power	58.3 kW, 400 V
Number of knives	68 pcs.

ŻUBR-75

Output fraction	from 5 to 10 mm
Productivity	up to 2000 kg / h
Power	78.3 kW, 400 V
Number of knives	68 pcs.

ZMD-2 WOOD GRINDING SET

*The **ZMD-2** set is a universal set of wood grinding machines and has been designed for various industrial sectors. The ZMD-2 Set is perfectly suited for the wood industry, the waste processing sector, the processing of biomass into fuel pellets. The fully automated process of grinding wood using the ZMD-2 includes several key stages that guarantee the efficiency and high quality of the final product. The Operator feeds the branches or cuttings to the crusher ŻUBR-30, which processes the raw material into chips. Then the material goes to the hummer mill with sieves with holes of 6 mm. Finally, milled material passes through the cyclone, and air flows out through a centrally located channel.*

Output fraction	6 mm
Productivity	1000 kg / h
Number of knives	94.7 kW, 400 V

HAMMER MILLS / GRAIN CRUSHERS

MB SERIES

*The **MB** series hammer mills are designed for grinding grain, chips, shavings, and other wood processing waste, agricultural waste as well as pieces of wood (MB-1000/1200). The number of hammers for MB-500 is 36, and for MB-1000/1200 – 56. The main differences between hammer mills are productivity and power of the drive unit (15 kW / 22 kW / 30 kW). These hammer mills can grind wet raw materials, contain a feeding hopper, and have pneumatic intake/discharge, making the equipment versatile, simple, and convenient to operate. Hammer mills can also be equipped with a cyclone for separating heavy particles from air and dust. Interchangeable screens allow for adjusting the particle size of the ground material according to needs. In addition, these hammer mills can work in conjunction with equipment for producing pellets and feed.*

MB-500 | 15

Productivity	
on sawdust	up to 400 kg / h
on grain	up to 3 ton / h
Power	15 kW, 400 V

MB-500 | 22

Productivity	
on sawdust	up to 500 kg / h
on grain	up to 3,5 ton / h
Power	22 kW, 400 V

MB-500 | 30

Productivity	
on sawdust	up to 600 kg / h
on grain	up to 3,5 ton / h
Power	30 kW, 400 V

MB-500 DUO

Productivity	
on sawdust	up to 1000 kg / h
Power	60 kW, 400 V

MB-1000

Productivity	
on sawdust	up to 1000 kg / h
Power	62.5 kW, 400 V

MB-1200

Productivity	
on sawdust	up to 1200 kg / h
Power	82.5 kW, 400 V

KRAFT SERIES

*The **"KRAFT"** hammer mills are designed for grinding grain and chips. The device automatically sucks in the raw material intended for grinding and can feed it to a feed mixer or feeder, which can be connected to create a feed preparation line or a pellet production line. The creation of a low-pressure zone in the collection pipe ensures stable flow and efficient movement of the raw material. The hammer mills are equipped with a flexible pipe for uninterrupted suction of grain and chips from a distance of up to 5 meters from the device, with the free end featuring a convenient handle. The number of hammers is 16. Interchangeable screens allow for adjusting the particle size of the ground material according to needs.*

KRAFT-4

Productivity	up to 400 kg / h
Power	4 kW, 230 / 400 V

KRAFT-7

Productivity	up to 700 kg / h
Power	7.5 kW, 400 V

KRAFT-11

Productivity	up to 1000 kg / h
Power	11 kW, 400 V

KRAFT-15

Productivity	up to 1500 kg / h
Power	15 kW, 400 V

KRAFT-22

Productivity	up to 2000 kg / h
Power	22 kW, 400 V

KRAFT-30

Productivity	up to 3000 kg / h
Power	30 kW, 400 V

SET: ZB-1 TANK + KRAFT-4 KW + CYCLONE

The hammer mills can work in combination with a dust cyclone and a raw material tank ZB-1.

GRAVITY FEED GRINDER

*The gravity feed grinder **LIDER-4** is an efficient hammer mill for grinding grain, straw, and other raw materials on farms. It is equipped with a 4 kW motor (230 V or 400 V) and interchangeable screens of various diameters, which allow adjusting the grinding fineness to specific needs. Its solid construction, capacity of up to 400 kg/h, and simple operation make it a reliable device for everyday feed production.*

LIDER-4

Productivity	up to 400 kg / h
Power	4 kW, 230 / 400 V

WEIGHING AND PACKING MACHINES / BAGGING MACHINES / DOSERS

WP SERIES (ELECTRIC PACKERS)

*The **WP** series packers, also known as weighing bagging machines, are designed for dosing bulk products with a high degree of accuracy. Raw materials are dosed into ready-made plastic or polypropylene bags. The device operates in semi-automatic mode and requires the operator to set the container, start the dosing, and collect the filled container. The working range of the scales is from 0.15 to 50 kg (depending on the model). The WP series packers (except WP-1000) operate based on vibration feeding, with the ability to set feeding types (slow and fast). The equipment enables packing of products such as fuel pellets, feed pellets (granulated feed), grain, pasta, nuts, seeds, and others.*

WP-400

Tank capacity	up to 75 L
Electricity consumption	0.5 kW / 1 kW, 230 V

WP-400+

Tank capacity	up to 400 L
Electricity consumption	0.5 kW / 1 kW, 230 V

WP-600

Tank capacity	up to 125 L
Electricity consumption	0.5 kW / 1 kW, 230 V

WP-600+

Tank capacity	up to 760 L
Electricity consumption	0.5 kW / 1 kW, 230 V

WP-1000

Tank capacity	up to 1000 L
Electricity consumption	0.5 kW / 1 KW, 230 V

LCP-600

Tank capacity	up to 1000 L
Electricity consumption	2.67 kW, 230 V

AF SERIES (AUTOMATIC PACKERS)

*The automatic packing line **AF-8B** is designed to provide a continuous process for weighing and packing bulk products such as pellets, sand, gravel, salt, or fertilizer into polymer film bags (polyethylene, duplex, triplex). The working range of the scales is from 2 to 25 kg. The conveyor takes the raw material from the tank located at the beginning of the line and feeds it into the dosing machine. The doser measures the weight of the raw material set on the controller, fills it into the bag, seals the bag, and feeds it onto the final conveyor for collecting the finished, packed bags of raw material.*

AF-8B

Productivity	up to 480 pcs./ h
Power	3.5 kW, 400 V

DVSV SERIES (MECHANICAL DOSERS)

*The semi-automatic weighing dosers of the **DVSV** series are used for packaging bulk substances in doses ranging from 0.25 kg to 70 kg into containers or bags. These devices are gravity filling type, meaning that the substance flows from the reservoir to the doser under its own weight. The DVSV series weighing dosers do not use strain gauges, electricity, or compressed air, which means there is no need to purchase additional equipment (compressor, air purification system, etc.). The main types of products that can be dosed include: sugar, grains, feed, pellets, seeds, laundry powders, and similar items.*

DVSV-F

Packaging range	from 5 to 70 kg
Productivity	up to 400 pcs. / h

CMK Feeder

Packaging range	from 100 to 1500 kg
Productivity	up to 60 t / h

DVSV-M

Packaging range	from 5 to 70 kg
Productivity	up to 400 pcs. / h

DVSV-N

Packaging range	from 0,25 to 10 kg
Productivity	up to 1000 pcs. / h

DVSV-S

Packaging range	from 0,25 to 10 kg
Productivity	up to 1000 pcs. / h

DVSV-50

Packaging range	from 25 to 70 kg
Productivity	up to 400 pcs. / h

DPS SERIES (SCREW DOSERS)

*The **DPS 250** screw doser is designed for packaging bulk materials into packages of up to 10 kg. This semi-automatic doser is mainly used for packaging flour, sugar, fertilizers, and is suitable for dosing similar powdered products into ready-made containers or bags. This model has a 250-liter tank with bottom positioning. Wheels facilitate the transport of the doser within the production facility. The dosing unit is made of stainless steel, making it suitable for food materials and resistant to corrosion. The weighing doser operates in semi-automatic mode. The operator places the container on a hanging shelf, and upon pressing the pedal, the doser automatically starts feeding the product through the screw, then automatically weighs and stops feeding once the set weight is reached.*

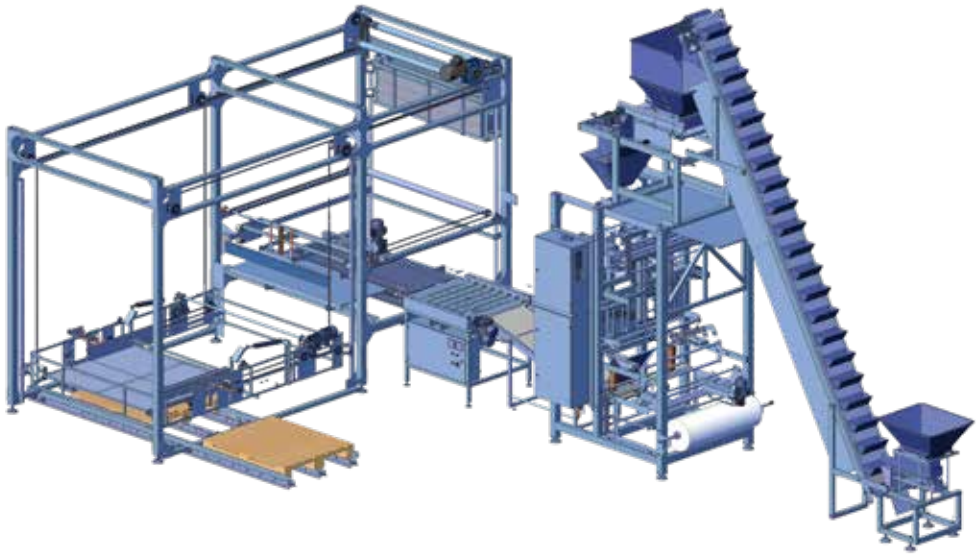
DPS-250

Tank capacity	up to 250 L
Power	0,75 kW, 230 V
Dosage range	from 1 to 10 kg

AUTOMATIC LINE FOR PACKAGING AND STACKING ON PALLETS

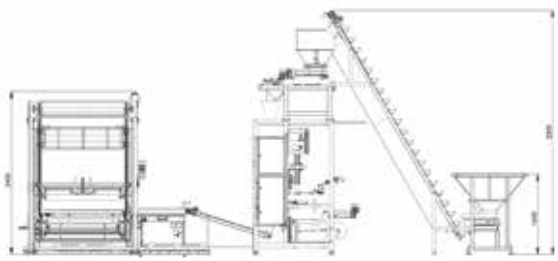
The automatic packing and palletizing line is designed to ensure a continuous packaging process for bulk products such as pellets, sand, gravel, salt, or fertilizers, using a weighing method. These products are packed into polymer film bags and then automatically stacked onto pallets.

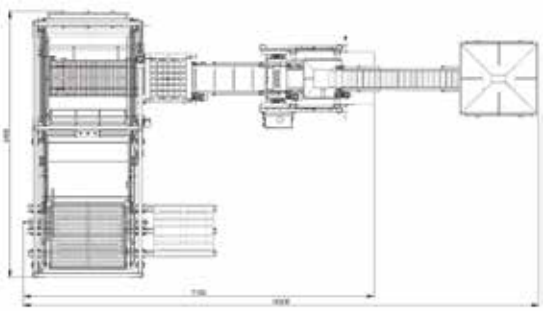
This line allows for the automation of the packaging process, significantly reducing the need for human labor. The operator's tasks include filling the tank, bringing empty pallets to the designated stacking area for the bags, and retrieving the pallet with the packed products.



AUTOMATIC LINE FOR PACKAGING AND STACKING ON PALLETS

Total Power	7 kW, 400 V
Total Pneumatic Supply	6/800 atm./ l. min
Productivity	up to 480 packs/hour
Pallet Dimensions	EUR 1200x800 EPAL 1200x1000
Width/Diameter of Film Roll (max)	1100/500 mm.
Length/Width of Packaging (max)	750/500 mm.
Dosage Range	2 000 – 25 000 g.
Tank Capacity of the Packer	from 100 to 10 000 l.
Total Weight	2000 kg





How the automatic packing and palletizing line works:

1. The conveyor picks up the raw material from the tank located at the beginning of the line and feeds it into the doser.
2. The doser measures the weight of the raw material set on the controller, dispenses it into a bag, seals the bag, and delivers it to the final conveyor for collecting the finished, packed bags of raw material.
3. From the final conveyor, the bag is picked up and oriented according to a specified row formation scheme.
4. The formed row, powered by a moving platform and pressing mechanism, is transferred directly onto the pallet, where it is stacked layer by layer.

*The impulse sealer **ZW-500** is suitable for sealing bags made of polyethylene, polypropylene film, laminated paper, and other plastic bags for packaging various products. The equipment is designed for all types of films with a thickness of 10 to 100 microns. The sealer allows for a flat, durable seam of 3 mm width and 500 mm length. The sealing time ranges from 1 to 8 seconds (depending on the thickness of the film).*

Bag Sealer ZW-500

Power	0.3 kW, 230 V
Length of the weld	500 mm

This equipment is designed for the fast and efficient closing of jute, polypropylene, paper, polyethylene, sisal, linen fabric, canvas, and other bags. The device ensures a tight seal, protecting the contents of the bag from loss of freshness and contamination. Advantages of this bag closer include smooth height adjustment of the closer relative to the conveyor belt, allowing it to work with bags of various sizes.

Bag Closing Machine with Conveyor

Power	1.5 kW, 230 V
Productivity	up to 500 pcs. / h
Length of the belt	3000 mm

This is a floor-standing device for durable sealing of foil and laminated packaging. Equipped with a foot pedal, adjustable shelf, and horizontal sealing module, it allows convenient handling of bags of various sizes. It seals materials with a thickness of 10–120 µm, creating a solid 20 mm seam at a temperature of 80–150 °C. Ideal for packaging in production plants and warehouses.

Bag sealer ZO-500

Power	0.4 kW, 230 V
Sealing length	500 mm

The transport cart with automatic unloading of filled bags is used for transporting and potentially sewing filled bags by the dosers. With a productivity of up to 10 tons per hour, the transport cart allows one person to manage the filling and sewing process of the bags.

Transport Cart for Packing Line WTLP-10

Maximum load	up to 150 kg
Length	from 1500 to 2500 mm

CALIBRATORS-COOLERS FOR PELLETS (GRANULES)

KC SERIES

*The **"KC"** series calibrators-coolers are designed for screening, calibrating, and preliminary cooling of raw materials. The calibrator has a gear motor and connections for connecting the extraction system. The equipment is equipped with a drum with different mesh diameters: from 3 to 10 mm, depending on the required granule diameter specified by the customer. The main purpose of this device is to screen and calibrate finished granules after pellet production on the pellet mill. Its small size allows for placement even in limited spaces. The drum calibrator is also a component of the pellet and granulated feed production line. Thanks to its robust construction and high precision, the "KC" series calibrators ensure not only accurate screening of undesirable fractions but also uniform cooling of raw materials in conjunction with the SO series extraction systems, which is crucial for subsequent stages of production. The use of interchangeable screens with different diameters allows for adapting the device to granules of varying diameters, making it exceptionally versatile.*

KC-100

Power	0.12 kW, 400 V
Diameter of holes in the drum	from 3 mm to 10 mm

KC-200

Power	0.12 kW, 400 V
Diameter of holes in the drum	from 3 mm to 10 mm

KC-300

Power	0.37 kW, 400 V
Diameter of holes in the drum	from 3 mm to 10 mm

KOMFI SERIES

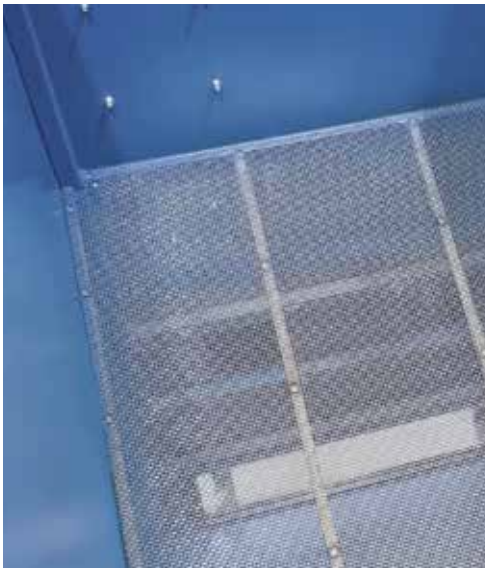
*The **KOMFI** series calibrators-coolers are designed for efficient screening, calibrating, and cooling of granules exiting the pellet mill, thanks to the efficient fans mounted within the enclosure. The operation of these devices is based on a constant circulation of air, which flows through a layer of granules located in the upper part of the cooler, ensuring rapid and even cooling. In the lower part of the device, screening of impurities and fine particles occurs, and a specially designed fan evenly distributes the air, supporting the entire process. The cooler has a capacity of 289 liters, allowing for effective cooling of a large quantity of granules in a very short time, which is important in intensive production processes. The screening mesh is positioned at an optimal angle relative to the horizon, ensuring smooth movement of granules from the moment they enter the cooler until they exit, minimizing the risk of blockages and optimizing the entire process. Additionally, the device is equipped with wheels that facilitate the transport of the equipment within the production facility and can easily carry up to 160 kg.*

KOMFI-1

Number of fans	1 pcs.
Power of fans	1 x 0.14 kW
Tank capacity	289 l

KOMFI-2

Number of fans	2 pcs.
Power of fans	2 x 0.14 kW
Tank capacity	289 l



SETS

*The **SC-600** pellet cooling system is designed to cool fuel and feed granules before packaging them into polyethylene bags. The cooler is equipped with two gear motors with a power of 0.25 kW for transporting the granules from the tank and feeding them for further packaging. The cooler operates in conjunction with the extraction system and conveyor.*

PELLET COOLING SYSTEM SC-600

Power of the extraction system	1.5 kW, 400 V
Tank capacity	0.6 m³

The ZP-3 screening set is designed for screening bulk materials from impurities in construction, mining, and the woodworking industry. The set consists of a drum sieve and a feeder. The feeder's tank is adapted for loading with a tractor or Manitou. The tank can hold 2 full enlarged buckets from a Manitou.

BULK MATERIAL SCREENING SET ZP-3

Tank capacity	3.5 m²
Productivity	up to 28 m² / h
Power	11 kW, 400 V

PELLET TANK-COOLER

This device can be used for both short-term cooling and storage of products, as well as for long-term accumulation. As the granules enter the cooling tank, they are cooled via the aspiration system and transported to the conveyor for further transport. There are openings at the bottom of the tank that ensure natural air circulation within it.

ZC-2500 PELLET TANK-COOLER

Tank capacity	2.5 m³
Power	0.87 kW, 400 V

VIBRATING TABLE

*The housing of the **SW-1** vibrating table is completely enclosed. Both the upper and lower parts of the housing elements contain air inlet pipes connected to the dust removal system. The widest part of the device's body has a mesh. It is set at a certain angle, which, in interaction with the vibrating motor, ensures the continuous movement of granules from the point of entry to the exit point in the screener.*

VIBRATING TABLE (VIBRATING CALIBRATOR) "SW-1"

Power	0.87 kW, 230 V
Dimensions	1785 x 784 x 764 mm

EXTRACTION SYSTEMS (DUST FANS)

SO SERIES

*The **SO** series extraction systems are specialized devices designed for the efficient collection and removal of waste shavings and for filtering air from dust and debris, ensuring cleanliness and safety. These suction units are very easy to operate, making daily use manageable even for less experienced operators. Additionally, maintenance of these systems does not require specialized tools or complex procedures, which reduces operating costs and minimizes machine downtime.*
SO extraction systems are equipped with collection bags, with the number ranging from 1 to 6, depending on the model and individual customer needs, allowing the system to be tailored to various production requirements. These systems can operate independently as standalone units or be combined with other woodworking equipment, offering comprehensive solutions for waste and dust removal. Thanks to the wide range of models, SO extractors are used in various industrial processes, not just woodworking, but also in other sectors where effective removal of dust, shavings, or other small production waste is required. An added benefit of the SO systems is their modular design, which allows for easy expansion and adaptation to evolving production needs. They can be employed in small workshops as well as large manufacturing plants, where high productivity and reliability are required. The high air filtration efficiency significantly reduces airborne dust, contributing to longer machine and tool lifespans and improving the quality of manufactured products.

SO-1

Performance	3500 m³ / h
Number of filters	1 pcs.
Number of bags	1 pcs.
Power	1.5 kW, 230 / 400 V

SO-2

Performance	3500 m³ / h
Number of filters	2 pcs.
Number of bags	2 pcs.
Power	1.5 kW, 400 V

SO-4

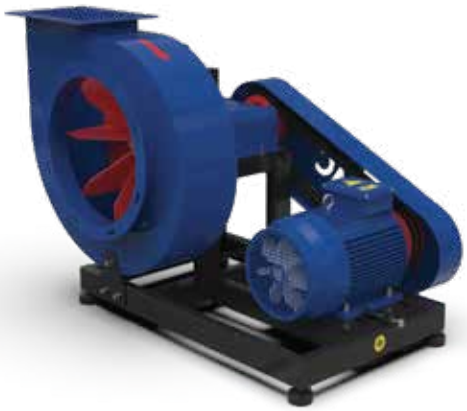
Performance	4800 m³ / h
Number of filters	4 pcs.
Number of bags	4 pcs.
Power	4 kW, 400 V

SO-6

Performance	6000 m³ / h
Number of filters	6 pcs.
Number of bags	6 pcs.
Power	5.5 kW, 400 V

WP SERIES

The WP series dust fans are designed for moving air and other gas mixtures whose aggressiveness, in relation to standard-quality carbon steel, does not exceed that of air. These fans can operate in environments where these mixtures do not contain sticky substances, fibrous materials, or solid contaminants with a concentration greater than 100 g/m³, making them versatile and safe for use in various industrial settings. These fans are categorized as low and medium-pressure devices, allowing for effective use in many different applications, in both small and large industrial spaces. Due to their radial design, these fans are characterized by high productivity and reliability in challenging working conditions where continuous air or gas circulation is required. They are widely used in SA series dryers, ventilation systems, and extraction systems, effectively removing dust and pollutants from production areas, warehouses, and industrial halls.



WP-4

Rotation frequency	3,000 rev. / min
Qmax	2.5 thous. m³/h
Pv	1570 Pa
Power	4 / 5.5 kW, 400 V

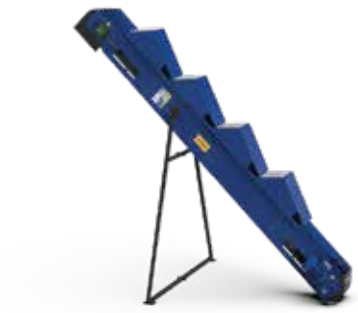
BELT CONVEYORS / CHAIN CONVEYORS

PT / PK SERIES BELT CONVEYORS

These conveyors are designed for cooling, feeding finished raw materials, and packing into bags or delivering raw materials to a tank of a doser. This equipment increases production productivity, speeds up work processes, and moves toward production automation. The PK-2 Calibrator Conveyor is equipped with an additional mesh that separates small and large contaminants from the raw material being fed. The conveyors are equipped with special scrapers that are resistant to high temperatures. The equipment can be purchased as a set with fans for cooling transported materials.

PK-2

Productivity	up to 500 kg / h
Belt width	400 mm
Power	0.25 kW, 400 V
Feeding height	1850 mm



PT-250

Productivity	up to 500 kg / h
Belt width	200 mm
Power	0.25 kW, 400 V
Feeding height	2440 mm

PT-500/1000

Productivity	up to 1000 kg /h
Belt width	400 mm
Power	0.37 kW, 400 V
Feeding height	2440 mm / 3200 mm

PT-Z

Productivity	up to 1000 kg / h
Belt width	400 mm
Power	1.5 kW, 400 V
Feeding height	2800 mm

CHAIN CONVEYOR SERIES

*A chain conveyor, also known as a "**Redler"** is a type of conveyor designed for the continuous transport of various types of biomass, such as hay or straw. Its construction allows for the efficient delivery of biomass both loose and in bales up to 1.45 m in diameter, as well as cubes of similar dimensions. The chain conveyor is widely used in production lines, especially at the stage of raw material preparation for further processing, such as shredding, palletizing, or briquetting.*

REDLER

Belt width	1750 mm
Power	1.1 kW, 400 V
Feeding height	2100 mm

*The **Tytan-5** Chain Conveyor is a simple and reliable device designed for the efficient transportation of various types of raw materials. Equipped with a large, robust loading tank for bucket feeding, it works perfectly with materials of diverse structures and sizes, such as wood chips, sawdust, and biomass. With its sturdy construction and efficient conveying mechanism, the Tytan-5 ensures continuous and trouble-free operation, even in challenging production environments.*

TYTAN-5

Belt width	800 mm
Power	5.5 kW, 400 V
Feeding height	1220 mm

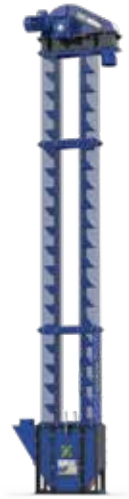
BUCKET CONVEYORS

PK SERIES

*The **PK** series bucket conveyors are widely used in grain elevators, mills, warehouses, and production lines where precise and continuous transport is crucial. This device is indispensable wherever there is a need to transport bulk materials to a specific height, such as grain, seeds, feed, or other bulk raw materials like PVC, ground plastics, etc. With a belt speed of 2 meters per second, it ensures quick and smooth transport, and the 294 mm diameter of the drive drum further enhances the durability and reliability of the entire system.*

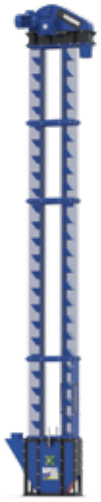
PK-260

Productivity	up to 10 t / h
Power	1.5 kW, 400 V
Feeding height	2.6 m
Number of buckets	29 pcs.
Bucket capacity	1,06 L



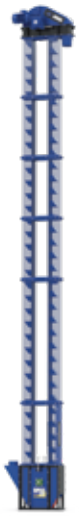
PK-450

Productivity	up to 10 t / h
Power	1.5 kW, 400 V
Feeding height	4.5 m
Number of buckets	48 pcs.
Bucket capacity	1.06 L



PK-550

Productivity	up to 10 t / h
Power	1.5 kW, 400 V
Feeding height	5.5 m
Number of buckets	58 pcs.
Bucket capacity	1.06 L



PK-750

Productivity	up to 10 t / h
Power	2.2 kW, 400 V
Feeding height	7,5 m
Number of buckets	77 pcs.
Bucket capacity	1.06 L

PK-950

Productivity	up to 10 t / h
Power	2.2 kW, 400 V
Feeding height	9.5 m
Number of buckets	96 pcs.
Bucket capacity	1.06 L

PK-1100

Productivity	up to 10 t / h
Power	2.2 kW, 400 V
Feeding height	11 m
Number of buckets	115 pcs.
Bucket capacity	1.06 L

PNEUMATIC CONVEYORS

PP SERIES

*The **PP** series pneumatic conveyors are advanced devices designed for transporting a wide range of bulk materials, making them invaluable tools in many industries. Thanks to their exceptional flexibility and mobility, these conveyors can be easily used in various types of spaces, adapting to the specific needs of the user. They enable seamless collection of raw materials (excluding grains) directly from storage locations, greatly simplifying production and storage processes. Moreover, the system can transport raw materials both horizontally and vertically, offering even greater versatility in application.*

PP-360

Productivity	
for sawdust	up to 3,2 m^3 / h
for straw, hay	up to 9,6 m^3 / h
for seeds	up to 6,4 m^3 / h
Power	4 kW, 400 V

PP-420

Productivity	
for sawdust	up to 4 m^3 / h
for straw, hay	up to 12 m^3 / h
for seeds	up to 8 m^3 / h
Power	5.5 kW, 400 V

PPZ SERIES

*The **PTZ-11** pneumatic grain conveyor is your reliable companion for grain handling. This innovative device features exceptional characteristics that make it essential for agricultural operations. The pneumatic conveyor is designed with the needs of agricultural enterprises in mind, capable of transporting materials over distances of up to 10 meters using 160 mm diameter pipes. The PTZ-11 is also equipped with a suction nozzle that allows for easy grain loading from various sources. It is the ideal solution for transferring grain from piles, granaries, or silos, while simultaneously loading it onto transport or vice versa.*

PPZ-11

Productivity	
on wheat	up to 8 t / h
Power	11.55 kW, 400 V

FLEXIBLE CONVEYORS

The DUO Flexible Conveyors *are innovative devices designed for the efficient and convenient transport of grain, pellets, and other bulk materials. With the ability to lift materials up to a height of 5 meters, they are an ideal solution for both small farms and larger enterprises. The distance between the loading and unloading points is up to 24 meters, allowing for quick and easy transportation of materials over significant distances. Additionally, these conveyors can be powered by various types of drives, which is crucial in the absence of electricity.*

ELECTRIC MOTOR
GASOLINE ENGINE

FLEXIBLE CONVEYOR PE-127 DUO | 24 M

Power	5.5 kW, 400 V / 6.5 KM
Pipe diameter	127 mm
Productivity	up to 9 t / h

Flexible Conveyors *are designed for the efficient transport of grain, pellets, and other bulk products over distances of up to* ***6 / 9 / 12 meters*** *(depending on the selected length) and heights of up to 5 meters. They can be transported in a trailer or car trunk, and their installation is so simple that one person can assemble it on their own. The conveyor is equipped with a durable polyurethane hose, resistant to abrasion and rust, ensuring a long service life. In the event of damage to the flexible spiral, it can be easily replaced by the user without needing a service.*

FLEXIBLE CONVEYOR PE-127 6 M / 9 M / 12 M

Power	2.2 / 3 kW, 400 V
Pipe diameter	127 mm
Productivity	up to 9 t / h

Flexible conveyors *with feed rate control are versatile devices designed for transporting grain, pellets, and other bulk materials. The screw is driven by a 230V motor, with adjustable rotational speed via a frequency converter, allowing precise feed rate adjustments to meet current production needs. One of the key advantages of this conveyor is its light weight and mobility. Additionally, the hopper located at one end of the screw serves a dual purpose, functioning as both the receiving point for material and a discharge point in reverse mode due to its unique design.*

FLEXIBLE CONVEYOR PE-76 230V WITH FEED RATE CONTROL 6 M / 9 M / 12 M

Power	1.5 / 2.2 kW, 230 V
Pipe diameter	76 mm
Productivity	up to 4 t / h

SCREW FEEDERS / FEEDERS-SCREENS

PS SERIES

*The **PS** series screw feeders are advanced devices that ensure continuous and seamless feeding of raw materials to pelletizers, granulators, and other industrial equipment. The design of the feeders includes a durable carrying pipe, within which a screw transports the material, as well as a loading tank equipped with a mixer. The PS series models vary in tank size, number and type of screws, and some versions have additional features such as chip transport, dust removal during pneumatic feeding, and material cooling. With the use of a frequency inverter (available separately), it is possible to adjust the raw material feeding speed.*

PS-200

Tank capacity	0.2 m³
Productivity	up to 1000 kg / h
Power	0.75 kW, 400 V

PS-200 DUO

Tank capacity	0.4 m³
Productivity	up to 2000 kg / h
Power	1.5 kW, 400 V

PS-200 PRO

Tank capacity	1 m³
Productivity	up to 2000 kg / h
Power	1.5 kW, 400 V

PS-200 DUO PRO

Tank capacity	2 m³
Productivity	up to 2000 kg / h
Power	1.5 kW, 400 V

PS-1

Tank capacity	-
Productivity	up to 1000 kg / h
Power	1.5 kW, 400 V

PS-1500

Tank capacity	1.7 m³
Productivity	up to 1000 kg / h
Power	1.85 kW, 400 V

PS-2500

Tank capacity	2.5 m³
Productivity	up to 1000 kg / h
Power	1.5 kW, 400 V

PS-3500

Tank capacity	3.5 m³
Productivity	up to 1000 kg / h
Power	1.5 kW, 400 V

KPS SERIES

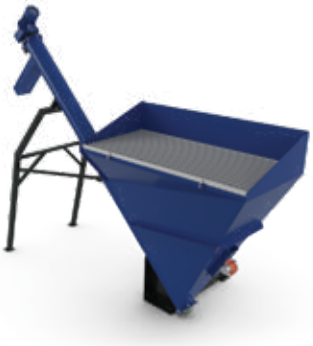
*The **KPS** series calibrator-screw feeders are advanced devices equipped with a rotating screen (KPS-400) or a vibrating screen (KPS-600, KPS-3500), which effectively separate the fed raw material from contaminants such as bark, pieces of wood, branches, or other waste. The sturdy construction of the feeders includes a durable carrying pipe, inside which a screw transports the material, and a loading tank with a mixer, ensuring smooth and continuous delivery of raw materials to pelletizers or other processing devices. The KPS series models vary in tank capacity and the type of calibrators used, allowing the equipment to be tailored to specific production requirements.*

KPS-400

Tank capacity	0.2 m³
Productivity	up to 1000 kg / h
Power	1.12 kW, 400 V

KPS-600

Tank capacity	0.6 m³
Productivity	up to 1000 kg / h
Power	1.97 kW, 400 V



KPS-3500

Tank capacity	3.5 m³
Productivity	up to 28 m³ / h
Power	5.5 kW, 400 V

MZ SERIES (FOR UNLOADING RAILWAY WAGONS)

*Devices for unloading self-discharging railway wagons of the **HOPPER** type are mobile machines essential for efficient logistics in the transport industry. They are used for unloading bulk products such as grain, cement, sand, ash, and other materials. They can also be used for unloading and transporting grain and its processed products from other containers/means of transport. This method of unloading wagons is simple and practically possible anywhere, without the need for large infrastructure. The mobility of these devices allows them to be moved from place to place, making them versatile and adaptable to different working conditions.*

MZ-30+

Tank capacity	3.6 m³
Productivity	up to 30 t / h
Power	4.1 kW, 400 V

SERIES ZP

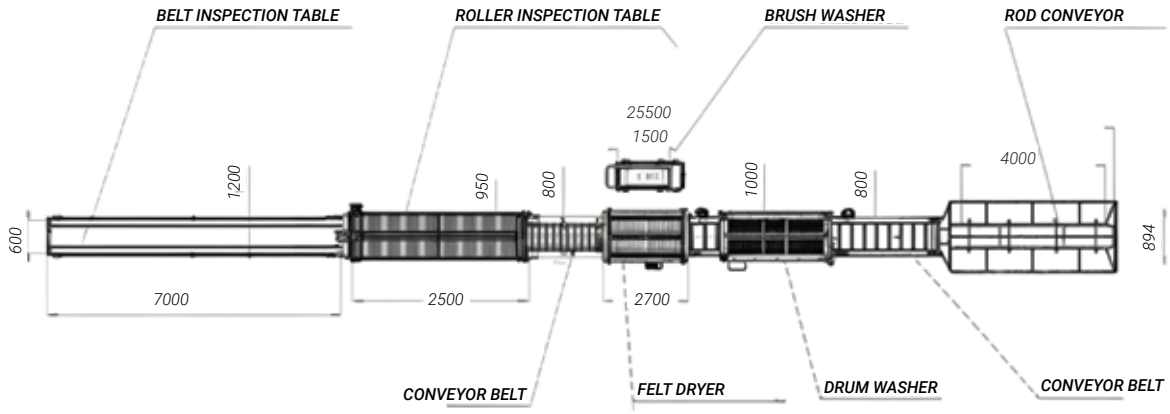
*The **ZP-400** model is a professional device with a capacity of about 390 l, powered by a 1.1 kW motor with a gear motor, equipped with an adjustable screw gate that enables smooth control of raw material flow. Its compact design (weight 81 kg) and the possibility of 230/400 V power supply make it a flexible solution for various production configurations. Thanks to its construction, the hopper ensures smooth and stable feeding of raw material to GMK, Pelletnik, and Rotex series pelletizers, which translates into better quality and consistency of the final product, as well as minimizes downtime thanks to the automated loading process.*

ZP-400 HOPPER FEEDER

Tank capacity	0.39 m³
Power	1.1 kW, 230 / 400 V

LINES FOR PROCESSING VEGETABLES, FRUITS, AND NUTS

The LDW-830 line, equipped with an inspection table, is a comprehensive system for automating the washing and inspection of vegetables. It is primarily designed for the food industry, playing a key role in preparing vegetables for further processing or packaging.



The LDW-830 line consists of 8 modules that perform a series of key operations, such as:

- **Loading:** Vegetables are loaded onto a rod conveyor using a loading hopper with a capacity of 2.5 m³. A tipping device for pallet boxes (optional) or a loader (not included in the set) can be used.
- **Transport:** This process is carried out using an L-shaped belt conveyor, which effectively and gently moves the vegetables, ensuring appropriate productivity and careful handling of the produce.
- **Washing:** The washing process takes place in a drum washer with a discharge conveyor, where the product is scrubbed against the walls of the drum. After washing, the products are transported via the conveyor to the next processing stage.
- **Brushing:** Root vegetables are washed in a container with rotating brushes and water nozzles. High-pressure water removes dirt, while the rotating brushes ensure thorough cleaning. After washing, the vegetables are transferred to the discharge tray.
- **Drying Fruits and Vegetables:** The dewatering process is carried out using machines with felt rollers that effectively remove moisture from the products.
- **Inspection:** Vegetables are manually sorted on the inspection table. Damaged or contaminated specimens are eliminated.

LDW-830 VEGETABLE WASHING LINE WITH AN INSPECTION TABLE

Productivity	up to 3000 kg / h
Power	14.2 kW, 400 V

FEED PRODUCTION LINES

LGP SERIES

*The **LGP** series lines are dedicated to small and medium-sized farms, enabling easy production of granulated feed. This small and reliable line can easily produce feed pellets using any combination of grains and additives, such as vitamins or dietary supplements, according to individual recipes. The LGP line consists of three main components, depending on the model, each offering unique parameters: feed pelletizer, feed mixer, and grinder. Additionally, the LGP feed pellet production line can be customized to your needs by expanding it with elements such as electronic scales, a humidification system, and even a cooling and packaging system for the pellets.*

LGP-450

Productivity	up to 200 kg / h
Power	13.7 kW, 400 V

LGP-2000

Productivity	up to 300 kg / h
Power	35.2 kW, 400 V

LGP-4000

Productivity	up to 700 kg / h
Power	54 kW, 400 V

LDG SERIES

*The **LDG-3000 DUO** line is the ideal solution for the industrial-scale production of granules from feed mixtures. The technological process is as follows: first, the ground raw material is delivered simultaneously to two MP-2000 feed mixers using the KRAFT hammer mill. After mixing the ingredients in the mixers, the mixture is fed to the granulators via the PS-200 DUO screw feeder. As the raw material moves to the granulator, it passes under the rollers and is pushed through the die holes. The output is a feed pellet that is fed to the KC-200 for preliminary cooling and final calibration. After passing through the KC-200, the pellets fall onto the PT-1000 conveyor with fans for additional cooling.*

LDG-3000 DUO

Productivity	up to 1400 kg / h
Power	96 kW, 400 V

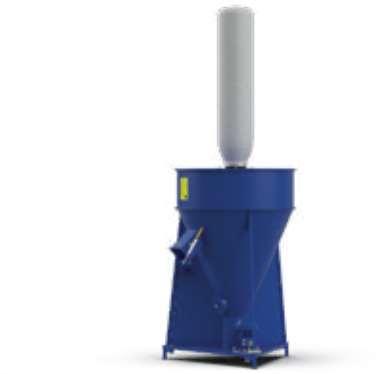
FEED MIXERS

MP SERIES (VERTICAL MIXERS)

*The **"MP"** series feed mixers are used to prepare dry feed mixtures for the fattening of various animals. The feed mixers can be used independently or in conjunction with the KRAFT hammer mill and can additionally be equipped with electronic scales. Effective mixing is achieved using a vertical screw that creates continuous movement of the product from the bottom to the top. Components are fed into a loading funnel positioned at a convenient height, and ingredients can be added during operation, which saves mixing time. Mixers in this series can be equipped with a feeder for delivering the finished mixed feed, for example, to a granulator.*

MP-300

Tank capacity	522 L
Power	2.2 kW, 400 V / 3 kW, 230 V
Mixing time	10 min.



MP-450

Tank capacity	709 L
Power	2.2 kW, 400 V / 3 kW, 230 V
Mixing time	10 min.

MP-600 WITH FEEDER

Tank capacity	1222 L
Power	2.2 kW, 400 V / 3 kW, 230 V
Mixing time	10 min.

MP-1000 WITH CYCLONE

Tank capacity	2551 L
Power	2.2 kW, 400 V / 3 kW, 230 V
Mixing time	15 min.

MP-1500

Tank capacity	2985 L
Power	2.2 kW, 400 V / 3 kW, 230 V
Mixing time	17 min.

MP-2000

Tank capacity	3945 L
Power	3 kW, 400 V
Mixing time	20 min.

MP-3000

Tank capacity	5517 L
Power	5.5 kW, 400 V
Mixing time	20 min.

MP-4000

Tank capacity	7089 L
Power	5.5 kW, 400 V
Mixing time	10 min.

MP-5000 WITH FEEDER

Tank capacity	8850 L
Power	7.5 kW, 400 V
Mixing time	20 min.

WIR SERIES (HORIZONTAL MIXERS)

*Horizontal feed mixers of the **WIR** series are designed to achieve highly concentrated mixtures by mixing crushed grains and other bulk products with a high uniformity of mixed ingredients up to 95%. The mixing time of the mixer allows for 3 to 6 working cycles per hour. The simplicity of the design ensures high operational reliability. When equipped with nozzles, it is possible to add liquid ingredients. During manual loading without a cyclone, the upper cover opens completely. With an efficient gear motor, mixers in this series perform exceptionally well in mixing various ingredients, including wet, dry, and sticky materials.*

WIR-1000

Tank capacity	1000 L
Power	3.7 kW, 400 V
Mixing time	from 5 to 10 min.

WIR-2000

Tank capacity	2000 L
Power	9 kW, 400 V
Mixing time	from 5 to 10 min.

WIR-4000

Tank capacity	4000 L
Power	15 kW, 400 V
Mixing time	from 5 to 15 min.

Feed mixers can be combined with KRAFT series hammer mills or RD series shredders and granulators to create a mini line.

WIR-2000 + EXTRUDER ESK-60

WIR-2000 + KRAFT-11 SHREDDER

WIR-2000 + RD-1000 SHREDDER

WIR-2000 + RD-1000 SHREDDER + KRAFT-11 CRUSHER

MACHINES FOR FEED PRODUCTION

The multifunctional Feed Master module for feed production is designed for the comprehensive processing of various feed raw materials, including grains and legumes, such as peas, into ground grains of different fractions.

The raw material fed into the loading hopper is crushed into particles no larger than the holes of the installed screen (3 mm for wheat and barley, and 5 mm for corn). After grinding, the flour is sifted on a vibrating screen. The waste is removed via an aspiration channel immediately after the flour is sifted. Next, the cleaned ground grain is divided into size fractions on a double-layer vibrating screen.

This indispensable tool is suitable for farms, small and medium-sized enterprises engaged in feed production, as well as for those looking to produce high-quality feed for their animals independently.

The Feed Master module consists of key components that ensure efficient and effective processing of raw materials. The funnel-shaped loading hopper can hold a significant amount of grain, allowing for continuous operation of the device. An adjustable shutter mechanism controls the dosing of grain into the grinding chamber, guaranteeing optimal processing conditions. The grinding chamber is equipped with rotating hammers that break the grain into smaller pieces, which is crucial for achieving the desired consistency of the feed. A cylindrical screen placed under the grinding chamber precisely separates the flour from the meal, and with interchangeable screens of different hole diameters, the module can be easily adapted to process various types of grains and other feed ingredients.

Additionally, the aspiration channel is responsible for separating bran from the meal, and the operation of this mechanism is regulated by a special flap, allowing for precise control of the separation process. The dual-section screen with different mesh sizes enables effective segregation of the meal into fractions of varying sizes.

EXTRA SERIES

FEED MASTER 350

Productivity	
Wheat Groats	up to 250 kg / h
Barley Groats	up to 160 kg / h
Corn Groats	up to 325 kg / h
Power	6.25 kW, 400 V

FEED MASTER 500

Productivity	
Wheat Groats	up to 475 kg / h
Barley Groats	up to 345 kg / h
Corn Groats	up to 495 kg / h
Power	12.4 kW, 400 V

FEED MASTER 1000

Productivity	
Wheat Groats	up to 950 kg / h
Barley Groats	up to 690 kg / h
Corn Groats	up to 990 kg / h
Power	12.4 kW, 400 V

EXTRUDERS

EGK SERIES

HOME USE

The EGK-30/50/60 *series of extruders is designed to produce high-quality feed aimed at significantly improving animal growth and increasing milk production. The extruder transforms grain into a foamed mass in the form of small sticks or flakes. Anti-nutritional substances in legumes are deactivated. Under high temperatures, the feed is disinfected, killing harmful microflora, fungi, and pathogenic bacteria, which are particularly sensitive to young animals and chicks. This series of extruders has found a niche in small farms, where for many years, extruders produced by our company have rightfully earned a reputation as some of the best on the market.*

EGK-30

Productivity	up to 30 kg / h
Power	4 kW, 230 / 400 V

EGK-50

Productivity	up to 50 kg / h
Power	5.5 kW, 400 V

EGK-60

Productivity	up to 60 kg / h
Power	7.5 kW, 400 V

INDUSTRIAL USE

The EGK *industrial extruder series is a professional line of extruders for processing grains and legumes, including soybeans. The extruders are equipped with a large tank and a controlled raw material feeding system, which is very convenient for the use of the extruder during prolonged operation. The working part of the feed extruder consists of two chambers—the raw material is ground in the loading chamber, and the pressing raw material undergoes thermal treatment at temperatures of 160-180 degrees under high pressure in the second chamber. As a result, the grain foams, increasing several times. Consequently, to satiate the animals, less feed in the form of air sticks is needed compared to regular or granulated feed.*

EGK-80

Productivity	up to 80 kg / h
Power	7.5 kW, 400 V

PTO
ELECTRIC MOTOR

EGK-100

Productivity	up to 100 kg / h
Power	11 kW, 400 V

PTO
ELECTRIC MOTOR

EGK-150

Productivity	
grain	up to 150 kg / h
soy	up to 100 kg / h
Power	15 kW, 400 V

PTO
ELECTRIC MOTOR

EGK-200

Productivity	
grain	up to 200 kg / h
soy	up to 150 kg / h
Power	18.5 kW, 400 V

PTO
ELECTRIC MOTOR

EGK-350

Productivity	
grain	up to 350 kg / h
soy	up to 250 kg / h
Power	30 kW, 400 V

EGK-500

Productivity	
grain	up to 600 kg / h
soy	up to 500 kg / h
Power	56 kW, 400 V

ACCESSORIES FOR EGK EXTRUDERS

TANK-FEEDER (DOSER)

This component is responsible for the precise dosing of raw materials into the extruder, ensuring stable and continuous feeding of the extruder. Its use allows for maintaining a consistent working pace of the extruder, which translates to the consistency of the final product quality.

Productivity	up to 200 kg / h
Power	0.1 kW, 230 V
Tank capacity	50 L

EXTRUSION GRINDER

This device is used for further processing of the extruded product by grinding it into finer fractions. The grinder ensures excellent homogenization of the material, which is crucial in the production of feed and other products that require a uniform structure.

Productivity	up to 600 kg / h
Power	1.1 kW, 230 / 400 V

INCREASED CAPACITY TANK

Designed to handle larger amounts of raw materials, this tank allows for extended operation without the need for frequent material replenishment. The increased tank capacity supports the production process on a larger scale, minimizing downtime and increasing overall productivity.

Tank capacity	1173 L

MACHINES FOR DOG, CAT, AND FISH FEED PRODUCTION

BELT DRYERS (COOLING DRYERS)

Belt dryers *are used in the production of soy snacks, animal feed, fish food, and dried fruits. They operate at temperatures of 60–110°C, with a final product temperature of up to 40°C. The tunnel belt dryers ST-15 are used for both drying and cooling products. Cooling occurs through convection (heat exchange with air) and evaporation (removal of water). The process takes place on the principle of crossflow or counterflow. During drying, warm air passes through the product from bottom to top, in the direction of the conveyor belts transporting the product, while the air largely absorbs moisture, which is then discharged by fans on the upper wall of the dryer, allowing for gentle and effective drying of the product.*

BELT DRYER ST-15

Number of conveyor belts (levels)	5 pcs.
Total length of conveyors	15000 mm
Width of mesh belt	500
Type of belt	Teflon
Minimum mesh size	2 x 2 mm
Speed of mesh belt	10...50 mm/s
Power of drive	2.2 kw
Maximum power of the heat generator	50 kw
Type of energy carrier	Fuel pellets
Temperature of drying medium	60...110 °C
Product fraction	3...25 mm
Raw material moisture	max 25 %
Product moisture	max 8 %

COATING SET FOR FEED

*The Coating Set **ZPK-1** is used for evenly mixing wet and dry ingredients with the product. It consists of Drum No. 1, an ingredient feeder ATC-2, and Drum No. 2. In Drum No. 1, the product is coated with liquids, which increases its adhesion to dry additives. The feeder for dry ingredients and liquids ATC-2 allows for precise dosing of ingredients at various stages. Drum No. 2 ensures even mixing through speed and tilt angle adjustment. The entire setup allows for simultaneous use of both drums or operation with only wet or dry ingredients. In this setup, both drums work simultaneously, with liquids being fed into Drum No. 1, and dry additives being supplied directly to the tray as the product flows into Drum No. 2.*

COATING SET ZPK-1

Productivity	from 100 to 1000 l / h
Drum rotational speed (nominal)	8 rev / min
Liquid tank capacity	50 l
Dry ingredient container capacity	55 l
Dosing accuracy	0.2 %
Power consumption	no more than 1 kW
Voltage	400 V, 50 Hz
Air pressure in the system	6 bar
Air consumption	0.12 NL / cycle

ESK SERIES OF EXTRUDERS

*The **ESK** series extruders are devices for producing feed for dogs, cats, fish, goats, and other pets. The extruders in this series utilize the extrusion method, enhanced by the installation of electric heating elements that heat the working part to the desired temperature and maintain it throughout the operation. As a result, you gain control over the temperature and assurance of consistent productivity and quality of the final product. Additionally, due to the high temperatures, the raw materials undergo thermal treatment, ensuring product disinfection and maximum digestibility. The extruder comes with several different dies (pads, hearts, balls), allowing the final product to have various shapes. Furthermore, with the installed knives, the length of the final product can be controlled from 1 to 20 mm. The device features an adjustable feeding speed that can be changed according to moisture, type of mixture, fraction, etc.*

ESK-50

Productivity	up to 60 kg / h
Power	7.5 kW, 400 V

ESK-60

Productivity	up to 100 kg / h
Power	11 kW, 400 V

ESK-80

Productivity	up to 200 kg / h
Power	22 kW, 400 V

RMK SERIES SHREDDERS (FOR MEAT AND BONES)

The meat shredding machine is designed for processing various types of materials in meat industry facilities. It is characterized by exceptional durability, allowing it to shred parts of animal carcasses such as horses, pigs, and cattle, as well as offal and bones from meat and poultry slaughterhouses. These devices are used to shred a mixture of meat and bones into small pieces. The crushing process occurs at low speeds, effectively shredding even harder bone fragments. This shredded meat contributes to a smoother process in subsequent thermal processing stages. The powerful drive ensures high torque, essential for effective material crushing, while easy access for parts replacement minimizes production downtime.

RMK-15

Loading hole size	400x300 mm
Power	15 kW

RMK-15 with a discharge screw

Loading hole size	400x300 mm
Power	17.2 kW

AERATORY / GRAIN MIXERS

KOZAK SERIES AERATORS

These devices are designed for the maintenance of fresh grain, ensuring its cooling and partial drying through active ventilation. They extend the storage period of raw material in warehouses and prepare grain for sowing that requires heating, which can also be performed using the aerator. The construction consists of a ventilation pipe – available in galvanized or painted versions – and a high-pressure fan, usually axial-centrifugal. Grain ventilation is carried out through the pipe, which is screwed into the grain layer. This solution allows maintaining high grain quality for a long time without the need for transportation and significantly reduces the risk of storage-related issues.

KOZAK-2

Length	2000 mm
Power	1.5 kW, 230 / 400 V
Pipe diameter	140 mm

KOZAK-3

Length	3000 mm
Power	1.5 kW, 230 / 400 V
Pipe diameter	140 mm

KOZAK-4

Length	4000 mm
Power	1.5 kW, 230 / 400 V
Pipe diameter	140 mm

ZM SERIES GRAIN MIXERS

The ZM series grain mixers are practical devices used in silos and grain storage facilities, with the main purpose of maintaining the high quality of stored material. By evenly mixing the grain, they prevent its stratification and clumping, while also supporting air circulation, which helps maintain optimal moisture and temperature within the grain mass. Regular mixing prevents overheating and mold development, thereby extending the safe storage period. The mixers are characterized by simple design, easy installation, and low operating costs, making them an efficient and economical solution for farmers and companies engaged in grain storage.

ZM-1

Screw length	1200 mm
Power	2.2 kW, 400 V
Productivity	up to 80 t / h

ZM-2

Screw length	2200 mm
Power	2.2 kW, 400 V
Productivity	up to 80 t / h

ZM-3

Screw length	3200 mm
Power	2.2 kW, 400 V
Productivity	up to 80 t / h

MOBILE GRAIN DRYERS

*The **MS-18** bin-type grain dryer is a modern, mobile device designed to effectively reduce moisture in grains and sunflower seeds, allowing for long-term storage without the risk of quality loss. This dryer is equipped with an advanced air recirculation system that ensures optimal drying efficiency, achieving productivity of up to 5 tons per hour, depending on the type of grain and the desired moisture level.*

*The device features a simple yet extremely **reliable drive construction**, where each mechanism is powered by a dedicated electric motor, ensuring high operational stability. A centrally located screw in the drive design further streamlines the entire process, guaranteeing efficiency and ease of use. For customers with specific requirements, versions of the dryer with different heat exchangers are also available, increasing its versatility and adaptability to various working conditions.*

*The MS-18 is a fully mobile device, **meaning it can be easily relocated and installed without the need for construction work.** Thanks to this mobility, the dryer can be seamlessly integrated with various cleaning and grain storage systems and can operate using a variety of fuels, such as gas, diesel, or fuel pellets, providing great flexibility in energy source selection.*

*A key advantage of the MS-18 dryer is the **ability to precisely adjust the grain moisture level from the moment it enters the device until the final drying stage.** The user can accurately control both the initial and final moisture content, allowing for full control over the quality of the dried product. Additionally, the device minimizes waste, contributing to more efficient use of raw materials. With the MS-18, users also gain the ability to store grain for longer periods, allowing for sales at the most advantageous times without the risk of quality deterioration.*

***The usable tank capacity of the MS-18 is 17.8 m³,** which, at a **grain density of 700 kg/m³,** enables the drying of **up to 12.5 tons of grain** at one time, making this device an ideal solution for both smaller and larger farms as well as enterprises engaged in grain and seed processing.*

MS-18

Volume	17.8 m³
Power supply	Gas, diesel fuel, pellet fuel
Electric power	20.2 kW, 400 V
Productivity	
n wheat	Moisture removal from 20% to 14% - 4 tons per hour
on corn	Moisture removal from 20% to 14% - 4 tons per hour
	Moisture removal from 25% to 14% - 3 tons per hour
	Moisture removal from 30% to 14% - 2 tons per hour
on sunflower	Moisture removal from 14% to 8% - 2 tons per hour

EQUIPMENT FOR PROCESSING, CLEANING AND SORTING GRAIN

GRAIN CALIBRATOR

Used to remove impurities from grain, these separators are useful for both small and large farms. They clean and calibrate seed material, separating impurities and sorting grain by weight and quality. This ensures high germination capacity, reduces seeding rates, and increases yields.

KZ-500

Tank capacity	200 L
Productivity	up to 2.5 t / h
Power	1.1 kW, 230 / 400 V

GRAIN CLEANING MACHINE

*The **KZ-500** seed calibrator is an indispensable tool in agriculture and vegetable oil production. It facilitates seed preparation by effectively removing stones, metal, dust, sand, and other impurities. It ensures clean seed material, protecting soil and crops from the negative impact of contaminants.*

MC-500

Productivity	up to 2,5 t / h
Power	0.75 kW, 230 / 400 V

SCREW-TYPE SEED TREATER

The ZNS-160 is an efficient screw-type seed treater (1–3 t/h) equipped with a peristaltic pump that ensures even dosing and improved yields. Compact and robust, with a 50-liter tank and a 12-month warranty – a reliable solution for every farm.

ZNS-160

Productivity	up to 1-3 t / h
Power	0.75 kW, 230 / 400 V

SEED DEHULLER

***The OS-500** is a reliable dehuller for sunflower seeds, used in the oil, feed, and food industries. It effectively removes husks, preparing the grain for further processing. Equipped with a calibrator, it ensures maximum cleanliness and efficiency. The device extends the service life of oil presses, improves oil quality, and supports efficient production.*

OS-500

Productivity	up to 500 kg / h
Power	5 kW, 400 V

GRAIN CLEANING AND SORTING LINE

*The seed calibration and dehulling line is a key stage in processing soybeans and sunflower seeds into oil. It removes impurities and husks, increasing efficiency and extending the service life of the oil press. The set includes: screw conveyor **PE-6**, grain calibrator **KZ-500**, seed dehuller **OS-500**, conveyors **PT-500** and **PK-2**, extraction system **SO-2**, and bag holders. The complete system ensures efficient transport, cleaning, and dehulling of seeds, reduces dust, and prepares raw material for further processing, guaranteeing high-quality oil and oilcake.*

CSZ-1

Productivity	up to 500 kg / h
Power	12.92 kW, 230 / 400 V

A

HERKULES SERIES

*The **HERKULES** series grain crushers are modern devices that enable significant financial savings and improve productivity in agricultural operation. The use of innovative crushing technology in the feed preparation process offers numerous advantages over traditional grain crushing methods.* ***By crushing, it is possible to obtain high-quality feed with a digestibility level of up to 97%, whereas traditional grinding only achieves about 50%.*** *Furthermore, the crushing technology significantly reduces electricity consumption compared to grinding methods, leading to lower operating costs.*

*The result of the **crushing process is also a considerably lower amount of dust in the feed**, which improves the quality of the working environment and the health of the animals. The design of the HERKULES crushers' casing has been optimized for maximum tightness, ensuring precise assembly and a long lifespan for the working parts.* ***Exceptionally durable rollers with notches provide high productivity and reliability over a long service period, which is crucial for the effective operation of the farm.***

The production costs of feed using HERKULES crushers are significantly lower compared to other devices available on the market. *This is due to lower electricity consumption, higher productivity, and the process itself, as well as the exceptional durability of the working parts, which minimizes operating and service costs. An additional advantage is that the feed obtained using the crusher has a higher nutritional value, which directly reduces the amount needed for the complete nourishment of birds and animals. In practice, after using crushed grain, the volume of feed required to meet the nutritional needs of animals can decrease by as much as 70% compared to unprocessed grain.*

*Thanks to these advantages, HERKULES series grain crushers are an **ideal choice for modern farms aiming to maximize production efficiency,** reduce costs, and improve feed quality, which directly translates to better breeding results and overall production profitability.*

HERKULES

Productivity	up to 150 kg / h
Power	1.5 kW, 230 / 400 V
Tank capacity	10 kg
Diameter of rollers	75 mm
Length of rollers	135 mm

HERKULES-2500

Productivity	up to 2500 kg / h
Power	4.4 kW, 230 / 400 V
Tank capacity	133 L
Diameter of rollers	178 mm
Length of rollers	300 mm

NUT CRACKERS

GRK SERIES

This series of nut crackers is versatile, allowing for use in both home and business settings. The thoughtful design and adjustment features enable the nut cracker to be adapted for nuts of any size, avoiding the need for preliminary calibration of the nuts. The gap between the roller and the sliding plate can be increased or decreased if the nuts do not pass into the cracking chamber or, conversely, if they are not being cracked properly.

The principle of operation of the cracker is very simple: the equipment should be adjusted to the size of the nut, the motor starts, and the nut feeds in. The nut shell breaks during the rotation of the roller, which presses the nut against the wall of the cracker. As the roller turns, the nut cracks and falls down. The working part of the crackers is designed to carefully crack the shell without touching the kernel. The yield of the kernel halves can be up to 70%. Productivity depends on the chosen model. Calibration of the nuts is not necessary. However, it should be noted that when working with any nuts without a calibrator, sorting the nuts will improve the equipment's productivity. The main differences between the devices are the type (roller, conical) of the working part, productivity, dimensions, and the presence of an electric motor.

GRK-50

Productivity	up to 50 kg / h

*Powered by a drill

GRK-200

Productivity	up to 200 kg / h
Power	1.1 kW, 230 / 400 V

GRK-300

Productivity	up to 300 kg / h
Power	0.75 kW, 230 / 400 V

OIL PRESSES

WT SERIES

*The **WT** series screw presses for oil extraction are designed for producing oil using the cold pressing method from oilseed plants. These devices can be used for oil production in both home and industrial settings. The presses are easy to maintain, reliable, and durable. The raw materials can include flaxseed, sesame, black cumin, sunflower, soybeans, and other oilseeds. The tanks are made of stainless steel. The raw material is placed in the tank and, passing through a flap, enters the screw. The screw crushes the seeds and pushes them into the pressing chamber, which consists of a cylinder with holes, a screw shaft generating pressure, a pressing cone, and a nut for adjustment. The by-product is removed through a gap in the nut, while the oil flows out through the holes in the chamber cylinder.*

WT-50

Productivity	up to 6 l / h
Power	1.5 kW, 230 / 400V

WT-50 DUO

Productivity	up to 12 l / h
Power	2.2 kW, 230 / 400 V

WT-75

Productivity	up to 16 l / h
Power	3 kW, 400 V

WT-85

Productivity	up to 30 l / h
Power	4 kW, 400 V

WT-150

Productivity	up to 150 kg / h
Power	7.5 kW, 400 V

WT-150 DUO

Productivity	up to 300 kg / h
Power	15 kW, 400 V

PO SERIES

*The **PO-500** oil press is designed for producing oils from oilseeds. A key design feature of this press is the expanding screw that rotates on a shaft inside the extraction chamber. The bars of the extraction chamber are made of steel, leaving gaps for oil to escape. The space between the shaft and the bars is smaller on the raw material discharge side to create a constant pressure on it. The gaps between the bars do not allow solids to pass through, while oil flows through the gaps and drains into the tank under the press. The pomace exits the press through a sleeve, which has an opening adjustable by a cone. The distance between the sleeve and the cone is adjustable with special screws, allowing the oil content in the pomace to be modified.*

PO-500

Productivity	up to 600 kg / h
Power	37 kW, 400 V

SETS AND LINES

*The oil extraction and filtration set is a comprehensive solution for natural oil enthusiasts and food products. The central element of the set is the **WT-50 DUO** pressing machine, capable of extracting up to 12 liters of cold-pressed oil while retaining all nutritional values. The set also includes a plate filter, which is a key element in the filtration process of the extracted oil. The raw materials can include flaxseed, sesame seeds, black cumin seeds, milk thistle seeds, sunflower seeds, soybeans, and other oilseeds. With this set, every health food enthusiast can enjoy the highest quality of pressed oils.*

OIL EXTRACTION AND FILTRATION SET TFO-1

Productivity	up to 12 l / h
Power	2.7 kW, 230 / 400 V

*The **"LPO-300"** Mini Line is designed for producing oil from soybeans. This set is an excellent solution containing devices for cleaning soybeans from impurities, calibrating, extracting, and processing in the oil press to obtain high-quality oil and pomace. Soybeans are fed to the calibrator via a flexible screw for preliminary cleaning from debris and heavy contaminants, with excess dust being removed through aspiration. The calibrated seeds are then conveyed to the huller for shell removal, and the cleaned soybeans are fed to the extruder, where they undergo thermal treatment through extrusion. The extruded soybean is then conveyed to the oil press. After the press, the oil is fed to a tank. After a short settling period, the oil is filtered using a filtration unit and then fed to the next tank.*

*The **LPO-150** line is a device for producing cold-pressed oil, ideal for continuously processing sunflower and soybean seeds. The line includes stages of cleaning, calibrating, hulling, and pressing, ensuring high-quality oil and pomace production. The main elements of the line are: flexible screw conveyor PE-6 with speed adjustment, KZ-500 calibrator for cleaning seeds, PT-1000 belt conveyor for transporting raw materials, OS-500 huller for hulling, SO-4 dust extractor for removing hulls, and PK-2 conveyor that lifts and transports cleaned and hulled seeds to the WT-150 oil press. This line is perfect for industrial-scale production of cold-pressed oil.*

MINI OIL PRESSING LINE LPO-150

Productivity	up to 150 kg / h
Power	20.4 kW, 400 V

MINI OIL PRESSING LINE FOR SOYBEANS LPO-300

Productivity	up to 300 kg / h
Power	61.6 kW, 400 V

OIL FILTERS

FP SERIES

*The **FP** series plate filters are a universal tool for beginners and professionals that help easily clean liquids from various contaminants. Depending on the type of filter paper, this filter can clean oil from all oilseed crops, as well as wine, beer, cider, liqueurs, various juices, etc. The filters are suitable for natural food filtration, designed and manufactured from high-quality materials with attention to detail. They feature top-quality thick and durable nylon plates between which are placed filter layers. These filters are equipped with an Italian-made NOVAX liquid pumping pump, a manometer, and a collection tank for liquids.*

FP-6 PLATE FILTER WITH PUMP

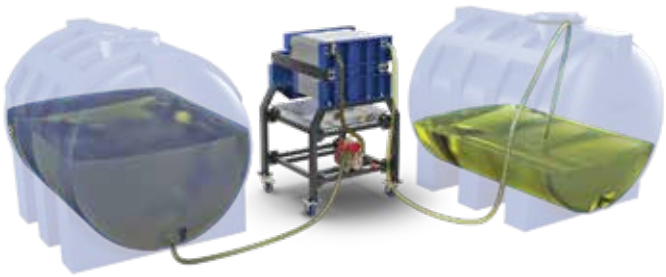
Productivity	up to 25 l /h
Power	0.5 kW, 230 V
Number of plates	6 pcs.

FP-10 PLATE FILTER WITH PUMP

Productivity	up to 25 l /h
Power	0.5 kW, 230 V
Number of plates	10 pcs.

FPR SERIES

*The **FPR** series filters are designed for use in the primary filtration stages of vegetable oils to remove mechanical impurities (fine sediment, small suspensions consisting of cellular tissue particles, as well as waxy substances) and bleaching (removal of pigments and heavy metals from oils). The filter is used for filtering various vegetable oils: sunflower, soybean, corn, mustard, flaxseed, and many others. The principle of cleaning oil from mechanical impurities in the oil filter involves filtering the oil through a porous layer of filter cloth ("belting"). These filters are equipped with an Italian-made NOVAX liquid pumping pump, a manometer, and tanks for settling and collecting liquids.*

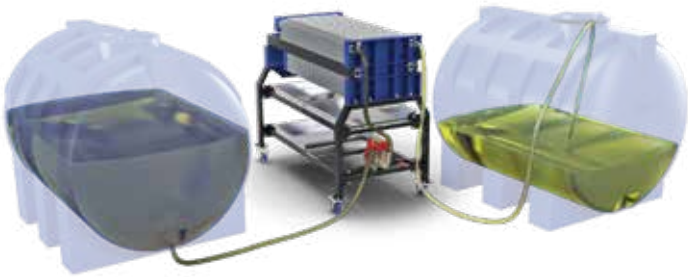


FPR-16 PLATE FILTER WITH PUMP

Productivity	up to 500 l /h
Power	0.7 kW, 230 V
Number of plates	16 pcs.

FPR-32 PLATE FILTER WITH PUMP

Productivity	up to 1000 l /h
Power	0.7 kW, 230 V
Number of plates	32 pcs.



FPR-48 PLATE FILTER WITH PUMP

Productivity	up to 1500 l /h
Power	0.7 kW, 230 V
Number of plates	48 pcs.

POMACE CRUSHERS

These crushers are designed for grinding pomace after it exits the oil press. They are specially created for enterprises specializing in oil production from any crop. The unique design of the device allows for easy grinding of the pomace without unnecessary effort and loss of time. The crushers are equipped with a worm reducer, which reduces the rotor speed and increases the torque on the rotor shaft. The knives and counter knives are made from alloy steel grades, while the housing elements are made from structural steel. Unlike the RM-1, the mini model does not have a wheeled construction and is equipped with a 1.5 kW motor. It is intended for grinding pomace after the first pass. For grinding tougher pomace that occurs during the process of re-processing or after long storage, the RM-1 is more suitable.

RM SERIES

RM-1

Productivity	up to 1000 kg / h
Power	3 kW, 230 / 400 V

RM-1 MINI

Productivity	up to 1000 kg / h
Power	1.5 kW, 230 / 400 V

WOOD PROCESSING MACHINES, WOOD SPLITTERS

The wood peeler removes bark along with sand and other contaminants that may get into the wood during harvesting and transport. The peeler has an adjustable knife reach, allowing the cutting depth or chip thickness to be adjusted depending on the type of wood. The speed of the log's movement relative to the knife disk is also smoothly adjustable. The machine is equipped with adjustable supports for the log on both sides, a removable table to support the log during loading, and a pedal to lift the log's feeding mechanism. The shavings are removed by a built-in fan that ejects them up to 4 meters away from the machine.

WOOD PEELER KD-200

Log diameter	from 50 to 200 mm
Log length	from 1.5 to 6 meters
Power	11 KW

This machine is designed for splitting logs into smaller pieces. The splitter allows for quick and efficient splitting and cleaving. The geared (inertia, electromechanical) splitter splits logs along the fibers. The trunk is placed between the sharpened cleaver and the end of the gear. The device initiates a strike and splits it with the cleaver. The LD-50 can split a log into 2, 4, or more pieces in one stroke. The LD-50 is an industrial wood splitter powered by either a gasoline or electric motor. The splitter is equipped with 13R wheels and a hitch for towing, allowing it to be moved by a vehicle.

WOOD SPLITTER LD-50 WITH GEARBOX

Log diameter	up to 420 mm
Log length	up to 500 mm
Power	3 kW / 6.5 HP

The screw wood splitter is an indispensable assistant in splitting firewood. Its principle of operation is based on combining the properties of a screw and a wedge. The cleaver for firewood is a threaded cone that, like a screw, cuts into the log, and due to the gradual increase in the diameter of the cone, the wood fibers are separated, resulting in the log being split. The drive of the screw splitter is powered by a motor and flywheels. This drive helps avoid jamming of the screw in the log and saves effort and time when splitting firewood. The SD-50 operates quickly, with human input needed only for inserting the log and pushing the split wood aside.

SCREW WOOD SPLITTER SD-50

Log diameter	up to 500 mm
Log length	up to 500 mm
Power	2.2 kW

The wood splitter (inertia, electromechanical) splits logs along the fibers. The log is positioned horizontally on a table along the trajectory of the pointed cleaver. The equipment initiates the impact of the cleaver's tip on the log, causing it to crack. The cleaver can divide the log into two or more parts in one blow. The wood splitter LD-600 can be powered by either an electric or gasoline motor, which is crucial in the absence of electrical power. The powerful wood splitter can be equipped with a roller or belt conveyor for continuous operation.

WOOD SPLITTER LD-600

Log diameter	up to 250 mm
Log length	up to 250 mm
Power	4 kW / 6.5 HP

The firewood conveyor is a mobile, multifunctional piece of equipment that provides convenient and efficient transport of split firewood after chopping, as well as shredded branches after chipping to a trailer or another vehicle. Thanks to its compact dimensions and simple design, the conveyor is easy to transport and install, allowing it to be used in various locations regardless of conditions. This equipment significantly simplifies the process of obtaining firewood, reducing the physical burden on the operator and shortening the time required to prepare firewood for transport. The adjustable height of the conveyor ensures its compatibility with various means of transport.

FIREWOOD CONVEYOR

Blade width	250 mm
Power	3 kW, 230 / 400 V
Height of feed	3100 mm

The firewood production line aims to facilitate work during the preparation of firewood. The principle of operation of the line is as follows: the log arrives at the roller conveyor, allowing easy movement of the log of nearly any weight to the log cutting saw PCK-25, after which the cut logs fall onto the housing of the LD-50 gearbox splitter, which splits the log into pieces. The wood then falls into the conveyor for transport, for example, to a trailer. The listed devices create a line for preparing firewood. You will no longer need to exert great effort, and productivity will improve dramatically. Everything is incredibly clear, simple, and most importantly, reliable.

SAW-SPLITTER (FIREWOOD PRODUCTION LINE)

Power	8.2 kW, 400 V

The roller conveyor is a device where rollers are mounted at small distances from each other, enabling the movement of large loads or containers, provided they are not loose, and this is done without the need for motors. This conveyor is ideal for transporting logs to a wood splitter or electric saw. With its compact dimensions, the roller conveyor is easy to install and operate, and its modular design allows flexible adaptation of the transport path length to individual needs. It can be easily adjusted, creating a simple and efficient transport line of any length, significantly streamlining the product transfer process.

ROLLER CONVEYOR

Length	1500 mm
Width	565 mm
Height	960 mm

The log cutting saw is a stationary device for cutting round logs, paired with a roller conveyor that provides full and precise material feeding while reducing the physical load on the operator. This is a reliable and powerful tool that facilitates work with wood and makes processing more efficient. This machine can be used as a standalone device for cutting wood or in combination with a wood splitter, a belt conveyor for feeding raw materials to the cutting area, and a conveyor for unloading firewood, creating a complete line for efficient wood processing.

LOG CUTTING SAW PCK-25

Saw guide	25 inches (63 cm)
Log diameter	up to 300 mm
Power	2.2 kW, 3000 RPM

JAW CRUSHERS

BIZON SERIES

*Jaw crushers of the **BIZON** series find versatile applications in various industries such as construction, recycling of construction waste, mining, production of building materials, and the chemical industry. These devices perform exceptionally well in both primary and secondary crushing of various minerals and construction waste, such as stone, concrete, brick, or plastic materials, with a compressive strength of up to 320 MPa.*

The jaw crushers of this series can be customized to meet individual needs by selecting the appropriate type of engine: gasoline, diesel, or electric. The operating principle of the device is based on the movement of the jaw, which moves up and down using an eccentric shaft. When the moving jaw approaches the stationary one, the material is crushed into smaller pieces. Then, as the jaw lifts, the angle and distance between the jaws increase, allowing the crushed material to escape.

The main advantages of the BIZON series jaw crushers are:

- ✓ *Simple construction*
- ✓ *Easy maintenance*
- ✓ *High crushing efficiency*
- ✓ *Uniform size of material at the discharge*
- ✓ *Reliability*
- ✓ *Low operating costs*
- ✓ *Low noise level*
- ✓ *Minimal dust generation*

Due to these features, BIZON crushers are a reliable choice for a wide range of applications

ELECTRIC MOTOR
GASOLINE ENGINE

BIZON-150

Power	5.5 kW / 7 KM
Size of loading opening	150 mm x 200 mm
Productivity	
for 10 mm fraction	up to 1,5 t / h
for 50 mm fraction	up to 7,5 t / h

ELECTRIC MOTOR
GASOLINE ENGINE

BIZON-300 with conveyor

Power	7.5 kW / 13 KM
Size of loading opening	300 mm x 200 mm
Productivity	
for 10 mm fraction	up to 3 t / h
for 50 mm fraction	up to 15 t / h

ELECTRIC MOTOR
GASOLINE ENGINE

BIZON-450

Power	11 kW / 18 KM
Size of loading opening	450 mm x 250 mm
Productivity	
for 10 mm fraction	up to 4.5 t / h
for 50 mm fraction	up to 23 t / h

BALERS FOR WASTEPAPER

BM SERIES

*The **BM** series balers for waste paper and recycling are revolutionary devices that enable the processing of waste in an eco-friendly and efficient manner. Thanks to their exceptional design and advanced technology, these balers can reduce the volume of waste by up to ten times, saving valuable space and time. The operation of the BM series balers is based on the pressure transfer process using a hydraulic system that drives the pressing platform. Durable and reliable constructions are made of high-quality materials, ensuring long-lasting productivity and reliability.*

Balers for waste paper and recycling are an ideal solution for companies, offices, and institutions that want to engage in environmental protection and reduce waste transportation costs. The high productivity of these balers allows for the rapid processing of large quantities of waste in a short period, saving time and increasing work efficiency. Therefore, balers are the perfect tool for businesses looking to achieve success, lower expenses, and develop in line with sustainable development principles.

BM-5 MINI

Pressing force	5 tons
Full cycle time	43 s
Working stroke speed	25 s
Return stroke speed	18 s
Specific pressing pressure	1.6 kG/cm²
Bale weight	approx. 140 kg (waste paper) approx. 70 kg (PET)
Bale dimensions	600 x 600 x 500 mm
Loading opening	600×450 mm
Power	1.5 kW, 230 / 400 V

BM-10 OPTI

Pressing force	10 tons
Full cycle time	43 s
Working stroke speed	25 s
Return stroke speed	18 s
Specific pressing pressure	2.5 kG/cm²
Bale weight	approx. 160 kg (waste paper) approx. 80 kg (PET)
Bale dimensions	800 x 500 x 500 mm
Loading opening	800×400 mm
Power	1.5 kW, 230 / 400 V

BM-18 MAX PLUS

Pressing force	18 tons
Full cycle time	20 s
Working stroke speed	12 s
Return stroke speed	8 s
Specific pressing pressure	3.7 kG/cm²
Bale weight	approx. 350 kg (waste paper) approx. 175 kg (PET)
Bale dimensions	1200 x 740 x 700 mm
Loading opening	740×576 mm
Power	4 kW, 400 V

BM-28

Pressing force	28 tons
Full cycle time	28 s
Working stroke speed	10 s
Return stroke speed	18 s
Specific pressing pressure	3.5 kG/cm²
Bale weight	approx. 550 kg (waste paper) approx. 275 kg (PET)
Bale dimensions	1200 x 1000 x 800 mm
Loading opening	1150×800 mm
Power	5.5 kW, 400 V

SCREW COMPACTORS

KDM SERIES

*The **KDM** series compactors are designed for densifying polystyrene, making them essential for retail and small industrial businesses. These compactors can compress polystyrene (also known as Airpop) at a ratio of up to 50:1. Previously, 50 trucks were needed to transport polystyrene (EPS) to a landfill; now, only one truck is required. The density of the compressed blocks reaches up to 350 kg/m³. Polystyrene (EPS) is first pre-crushed in a tank, and then the screw and automatic hydraulic clamp compress the EPS into hard, uniform blocks. The compressed blocks can be stacked on a pallet and sold for recycling. Approximately 20 tons can be loaded into a truck or container, significantly reducing transportation costs. The KDM series compactors are robust, versatile machines that can compress a variety of materials, including heavy materials, where other equipment may fail. The KDM series compactors are available in various configurations and engine sizes.*

KDM-70

Productivity	up to 20 kg
Power	2.2 kW, 230 / 400 V
Block density	350 kg / m³
Block size	120 x 120 mm

KDM-360

Productivity	up to 200 kg
Power	21.6 kW, 230 / 400 V
Block density	350 kg / m³
Block size	380 x 380 mm

PALLET WRAPPERS

X SERIES

*The **X** series wrappers are innovative and robust pallet wrapping machines designed to optimize packaging processes. These wrappers ensure not only high quality but also a variety of solutions tailored to the individual needs of your business. Importantly, these devices can be used to secure all types of pallets, not just those filled with biomass fuel. These automatic wrappers can be utilized in various production enterprises.*

Equipped with an automatic film cutting function, the wrappers automatically cut the film after wrapping is completed, eliminating the need for manual tools and greatly simplifying the operator's work. With the multi-layer function, it is possible to set different layers and wrapping strength at any height of the pallet, with a maximum of nine layers on a single pallet, without stopping the machine, thus streamlining the process and minimizing the risk of issues.

Savings in stretch film consumption are achieved through an advanced stretching system, which allows for a 300% stretch of the film, significantly reducing costs associated with its use. Workplace safety is ensured by advanced technology, including a safety system that protects the operator's feet and head, a transparent wall that enables quick detection of potential issues, and a modern alarm system.

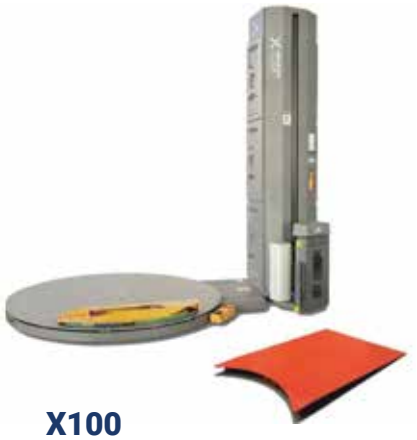
The X series wrappers are also equipped with components from reputable brands, such as SIEMENS PLC, SIEMENS inverter, SICK proximity switch, and OMRON 24DC power supply, which guarantees the reliability and longevity of the device.

X0 PS

Maximum Pallet Height	2200 mm
Maximum Pallet Weight	2000 kg
Size of the Turntable	1650 mm
Film Cutting	Manual
Productivity	up to 30 palet / h
Motor Power	1.2 kW, 230 V

X1

Maximum Pallet Height	2400 mm
Maximum Pallet Weight	2000 kg
Size of the Turntable	1650 mm
Film Cutting	Automatic
Productivity	up to 25 palet / h
Motor Power	1.5 kW, 230 V



X100

Maximum Pallet Height	2350 mm
Maximum Pallet Weight	2000 kg
Size of the Turntable	1650 mm
Film Cutting	Automatic
Productivity	up to 35 palet / h
Motor Power	1.5 kW, 230 V

HORIZONTAL BROACHING MACHINES

*The **DP-12** horizontal broaching machine is designed for horizontal broaching of internal grooves, making it essential equipment for metal processing professionals who require a compact, user-friendly, and reliable tool for daily use in small to medium production environments.*

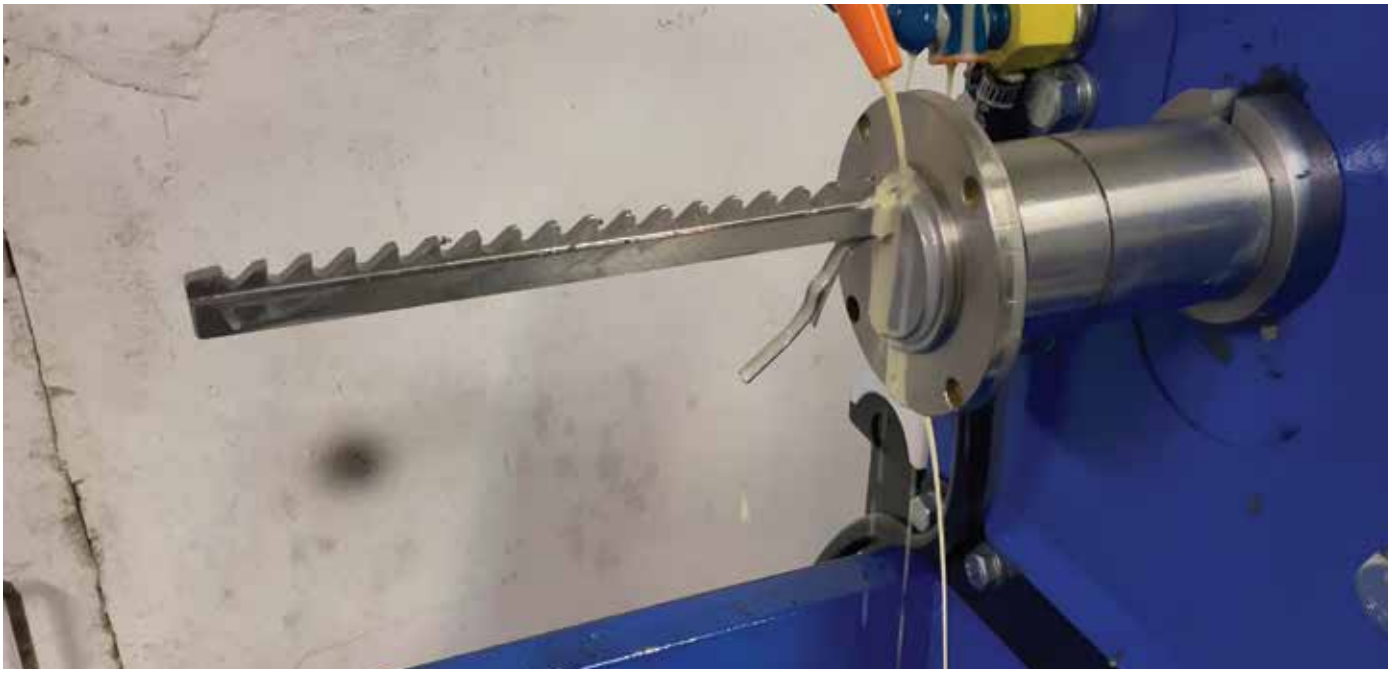
The DP-12 stands out for its simplicity, processability, and reliability. Its solid and carefully designed construction, combined with an appropriate level of automation, ensures a long lifespan even when operating in multi-shift conditions. The DP-12 is mass-produced in our facilities, guaranteeing a continuous supply of spare and service parts, which is a significant advantage over similar machines produced in other countries.

This machine is specifically designed for processing small components with a groove width of up to 12 mm. The DP-12 is powered by a worm gear drive, with force transferred via a ball-screw mechanism. This design allows the tool to be reversed and returned to its original position after the slotting is complete, with each of the end positions automatically shutting off the machine, further enhancing operational safety.

With its optimal cutting speed, the DP-12 ensures excellent processing results for all types of materials. The DP-12 machine is a reliable, compact device that meets the needs of both small and medium production facilities, providing high quality and efficiency in operation.

Horizontal Broaching machine DP-12

Maximum Groove Width	maks. 12 mm
Traction	30 kN=3t.
Stretching Speed	1250 mm / min
Return Speed	2500 mm / min
Drive Power	3.0 kW
Maximum Workpiece Diameter	maks. 310 mm
Maximum Stretching Length	maks. 1105 mm



ACCESSORIES AND ELECTRICAL EQUIPMENT

FREQUENCY CONVERTERS (INVERTERS)

Single-phase and three-phase inverters from the D11 and D12 series, used in conjunction with our production machines, are advanced devices that enable precise control of three-phase asynchronous AC motors. Our offering includes inverters ranging from 1.5 kW to 55 kW, which can also function as SoftStarts.

Thanks to advanced vector control technology, these inverters provide effective control over motors of various powers, making them versatile tools for a wide range of industrial applications. They feature a compact and elegant housing, often including an operator panel for ease of use. This allows users to conveniently monitor and adjust key operating parameters of the motor, such as rotational speed.

ELECTRIC MOTORS

General industrial three-phase asynchronous motors, which we offer in conjunction with our machines, are reliable solutions designed to power various installations, assemblies, and industrial mechanisms. They have an IP 55 protection rating, ensuring effective protection against dust and moisture, enabling uninterrupted operation even in demanding conditions.

These motors are widely used in the industry, from driving industrial fans to numerous types of pumps and machines utilized in the wood and metal industries. Their key function is to convert electrical energy from networks with voltages of 230 V, 400 V, or 690 V into mechanical energy that drives the rotating shaft, enabling efficient operation of various devices.

Our offering includes motors ranging from 0.75 kW to 55 kW, with rotational speeds of 1500 or 3000 rpm, allowing for flexible adaptation to the specific needs of applications. We provide various power options, ensuring easy integration with existing systems and mechanisms. Thanks to the high quality and reliability of our motors, they are an excellent choice for a wide range of industrial applications, guaranteeing top-level productivity and durability.

CONTROL CABINETS

We are a manufacturer of control cabinets for industrial machines, with many years of experience in the industry. We specialize in designing and manufacturing control cabinets for our machines and custom-made, tailored to the specific requirements of our clients. Every project is carried out with the utmost care, ensuring that our products are characterized by reliability, durability, and ease of use. Using modern technologies and an experienced team, we can create control cabinets that seamlessly integrate into complex industrial automation systems. We offer full support at every stage of project realization—from initial concept to production, installation, and commissioning. Our priority is to deliver solutions that ensure safe and efficient operation of machines, meeting the highest quality standards.

SOFT START SYSTEMS

We are a manufacturer of soft starters for three-phase motors, with extensive experience in providing advanced solutions for the industry. Our soft starters are designed to enable smooth starting and stopping of three-phase asynchronous motors, significantly reducing starting current and ensuring stepless acceleration of the motor. This protects the motors from sudden overloads, extending their lifespan and increasing the reliability of the entire system.

We offer custom-made soft starters, fully tailored to the specific requirements and needs of our clients. Our team of engineers works on each project with the highest precision, ensuring that our products meet the highest standards of quality and efficiency. Regardless of the scale and complexity of the project, we deliver solutions that enhance productivity and safety in the operation of motors across various industrial applications.

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