

> TIGER DEPACK SYSTEM

2 _

- > BEFORE TIGER DEPACK
- SQUEEZING
- SHREDDING + SCREENING
- HORIZONTAL SEPARATION

> OUTPUT TIGER

> OUTPUT

TIGER

NO



> RECOVERED 70% - 30% IN WEIGHT

> REJECT 30% - 70% IN WEIGHT

10 20 30 40 50 60 70 80 90 100%



VERTICAL SEPARATION THE SECRET OF TIGER DEPACK

VERTICAL SEPARATION IS AT THE HEART OF THE TIGER DEPACK SYSTEMS TECHNOLOGY. THIS RESULTS IN THE PROCESSING OF HETEROGENEOUS MATERIAL INTENDED FOR DISPOSAL PERFORMING MAXIMUM THROUGHPUT AND THE HIGEST RECOVERY. Thanks to the dedicated handling system, it is possible to add the desired amount of process liquids, which will be fed into the separation chamber and mixed with the separated product.

The Tiger Depack system is designed to operate in dry (no liquids added), wet or liquid processes. The resulting matrices are already suitable and ready for further processing such as wet or dry anaerobic digestion and composting or the preparation of pet food or paper fibre recovery.



HIGEST RECOVERY PERFORMANCE, OPERATIONAL RELIABILITY EAVEN IN H24 WORKING SHIFTS









3 > OUTPUT >>>











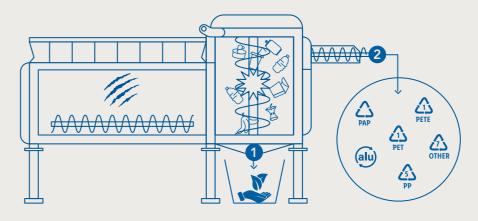






RECOVERY
PLASTIC CLEANING

PRODUCTION
PRODUCT DEPACKAGING



A SINGLE MACHINE
TO OBTAIN TWO
CLEAN AND DIRECTLY
USABLE MATRIXES FOR
SUBSEQUENT PROCESSES.

1 ORGANIC MATRIX/ CONTENT

2 DRY MATRIX

6





INPUT > ORGANIC WASTE

Generated by a multitude of sources such as roadside collection, markets, grocery stores, and large-scale retailers as well as from stations, ports and airports.

> FAULTY/EXPIRED PRODUCTS
Foodstuffs, cosmetics and detergents.



output > When introduced into waste treatment plants, the Tiger Depack can be used to recover the organic/content fraction as well as the dry material/packaging, obtaining 2 streams suitable for subsequent recycling and repurposing.





INPUT > PLASTIC REJECTS

Plastic waste from the pretreatment of Source Separated Organics and Expired Food.

> PAPER PULP

Waste from the paper-making process.



OUTPUT > Tiger's de-packagers are able to recover even rejects generated, for instance, by Paper Production or Waste Treatment Processes. Products composition of this category substantially differs from Packaged ones or Food Waste. Tiger de-packagers, in this case, are able to recover an intermediate processing reject.





INPUT > ALL TYPES OF WASTE PRODUCTION

Paper/cardboard, tetrapack, nonferrous, ferrous metals and plastics.



OUTPUT > Tiger Depack, within a production line in the control phase, such as food and beverage production sites, separates the packaging from its contents with total recovery of the matrices without generating waste.







TIGER DEPACK + UM 320 +
IL GIRASOLE TUNNEL COMPOSTING:
SYSTEM OF TECHNOLOGIES
FOR THE MANAGEMENT
OF ORGANIC MATRICES.

FROM WASTE
TO QUALITY COMPOST









TIGER DEPACK PLANTS

THE ORGANIC FRACTION OF WASTE IS USUALLY THE PREDOMINANT PART OF WASTE COMING FROM MUNICIPAL COLLECTION OR FROM WASTE GENERATED IN PRODUCTION PROCESSES.

The two plants shown by way of example allow you to notice a further typology of insertion of Tiger's de-packagers.

These Bio-Methane and Electricity production sites produced by Anaerobic Digestion have inserted Tiger HS20 after start-up.

The objective achieved by HS20 in these two cases allows to recover over 90%

of the organic fraction still present

in the plastic waste from Pre-Treatment.





Each process in the waste treatment cycle produces a small amount of waste: mostly plastic, the quality of which does not fully meet the expectations of the mass balance of a high-performance facility, as there is still a percentage of organic fraction present. Tiger Depack is able to process the plastic waste from these processes, recovering all the organic fraction and reducing the waste to landfill.

The challenge successfully achieved by Tiger Depack is even more significant given the need for dry process.

BENEFITS

Organic Fraction recovered from Plastic Waste

+ over 90% organic matter sent to energetic valorization

Reduction of the Produced Rejects + cat of disposal cost till 80%



OUTPUT > 90% OF ORGANIC MATTER RECOVERED



> OUTPUT **UM320**

> OUTPUT IL GIRASOLE

> BIOCOMPOST





COMPACT, ALL-IN-ONE AND PLUG & PLAY, THAT'S TIGER DEPACK

VERTICAL SEPARATION IS AT THE HEART OF THE TIGER DEPACK SYSTEMS TECHNOLOGY. THIS RESULTS IN THE PROCESSING OF HETEROGENEOUS MATERIAL INTENDED FOR DISPOSAL PERFORMING MAXIMUM THROUGHPUT AND THE HIGEST RECOVERY.

- > THANKS TO ITS EXTREMELY COMPACT DESIGN, the Tiger Depack is an All-in-One solution insofar as all the components it requires to operate are enclosed within its chassis.
- > THE USAGE OF COMPONENTS AND MATERIALS SUCH AS HARDOX AND STAINLESS STEEL has allowed spare parts to be replaced less than half as much as competing products.
- > THANKS TO THESE FEATURES, TIGER DEPACK IS THE MOST COMPACT AND RELIABLE machine on the market with the lowest operating costs (per ton processed).

VERTICAL SEPAR RESULTS IN THE PERFORMING MA

BOTH COMPARTMENT, FEEDING AND TREATING, ARE MANAGED BY A SINGLE OPERATING SOFTWARE THAT GOVERNS THE AUGERS' SPEED, BASED ON THE SETTINGS PROVIDED AND BY THE CHARACTERISTICS OF THE MATERIAL BEING LOADED.



TIMELY DIAGNOSIS
OF THE ALARMS



TELEMETRY FOR INCREASED PERFORMANCE



INTUITIVE PARAMETER ADJUSTMENT



TIGER DEPACK HS20



TIGER DEPACK HS10



TIGER DEPACK HS5



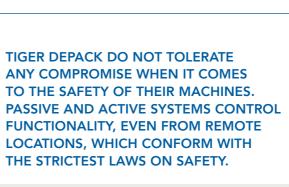
SAFETY TECHNOLOGY RELIABILITY & EFFICIENCY

- Lockable and alarmed external hatches for accessing compartments with moving parts
- Open hatch alarms and automatic shut-down of moving parts
- Manual alarm buttons
- Hatches with self-locking screws to internal compartments
- Emergency lighting signalling In Use
- Integrated control board within the body of the machine in a protected an isolated position

- Tiger Depack Emergency Circuit which can be integrated with the target system's emergency circuit
- **Lifting hooks** fitted for lifting/handling machinery
- Easy access to all parts of the machine for maintenance at any time
- Planned maintenance by specialist staff, worldwide

- Optimized automatic processing cycle with set parameters
- Machines suitable for **indoor or outdoor** processing
- **Robust** components, structure and frame designed for heavy workloads
- Production capacity over a 24/7 processing cycle
- Low maintenance
- Remote service
- Oversized electrical motor in relation to the power required
- Automated end-of-day cleaning cycle
- Internet connected

TIGER DEPACK DO NOT TOLERATE ANY COMPROMISE WHEN IT COMES TO THE SAFETY OF THEIR MACHINES. PASSIVE AND ACTIVE SYSTEMS CONTROL **FUNCTIONALITY, EVEN FROM REMOTE** LOCATIONS, WHICH CONFORM WITH





CHASSIS INTEGRATED ELECTRICAL PANEL



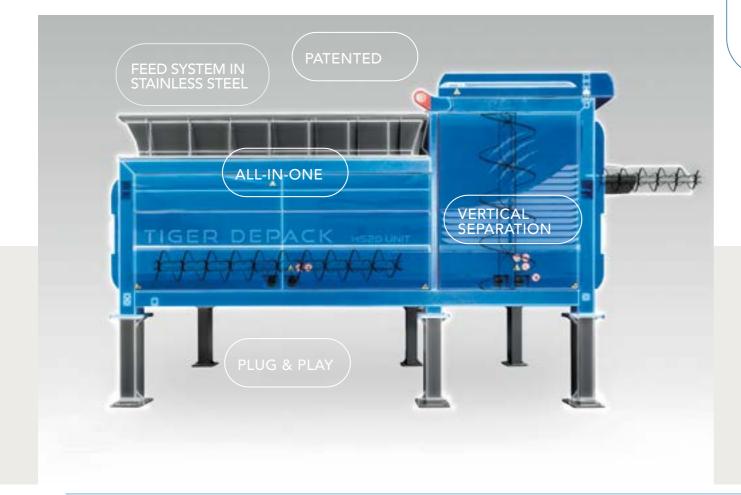
DOOR OPENING ALARM



PASSIVE AND ACTIVE SAFETY SYSTEMS



LARGER ELECTRIC MOTOR





TIGERDEPACK.COM





ACCESSORIES& INNOVATIONS

THE TIGER DEPACK'S OPTIONAL EXTRAS AND ACCESSORIES ARE AVAILABLE FOR ALL VERSIONS, OFFERING INCREASED ADAPTABILITY TO WHATEVER PROCESS THEY ARE INSTALLED IN.

DISCHARGE SYSTEMS

- > Packaging Extractor auger embedded
- > Content Discharge System for both Wet and Dry processes available as accessory
- > HYDRO AIR SEPARATION TANK





ACCESSORIES CAN ALSO BE INSTALLED AFTER TIGER DE-PACKAGER PURCHASE

INTEGRATED HARDWARE/SOFTWARE AND MEASURING ACCESSORIES

- > Profibus Module
- > Loading cells
- > User friendly
- > PID regulation
- > Alarm identification
- > Telemetry processing

DOOR PAINTING AND LUBRICATION

- > Sliding doors
- > Automatic lubrication device with timer
- > Bodywork color options



SILENT BLOCK MINIMIZE POSSIBLE VIBRATIONS



PROCESS LIQUID REGULATION



SYSTEMS FOR WET FRACTION DISCHARGE AVAILABLE



HOPPER IN STAINLESS STEEL



INTEGRATED PACKAGING EXTRACTOR



SLIDING DOORS



INTERNET CONNECTED



TIGER DEPACK HS 20 UNIT

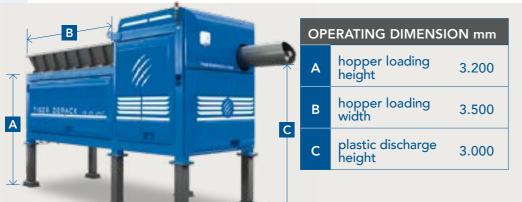
FOR HEAVY WORKLOADS

THE TIGER HS 20 UNIT WAS CREATED TO HANDLE INCREASED PROCESSING CAPACITIES. APPLICABLE IN THE FIELDS OF DEPACKAGING AND RECOVERY WHERE LARGE PRODUCTION QUANTITIES ARE REQUIRED. THIS IS THE LARGEST AND MOST POWERFUL MACHINE IN THE TIGER DEPACK RANGE.

DATA SHEET

TIGER HS 20	UNIT NOMINAL CAPACITY 20 T/H	
SEPARATION	Patented vertical separating block	
PLASTIC EXTRACTION	Dry fraction extractor screw	
HOPPER	Standard hopper AISI 304	
LEGS	Standard legs	1.200 mm
ENGINES	ABB engine for the shaft	90 kW
	Engine with gearmotor for the feeding hopper	11 kW
	Engine with gearmotor for the extraction screw	5,5 kW
LIQUIDS	Double water input line: process water line and washing line	
	Solenoid valve for the regulation of the incoming water flow	
	Liter counter	
ELECTRICAL	Control panel with touchscreen	
AND SOFTWARE	Software	
	Soft Starter	
	Frequency Converter	
	Electric cabinet	
	Rotation sensor for rotor	

Specifications subject to technical changes. Specifications are approximate, illustrations and may include options that are not part of the standard equipment.





OVERALL MACHINE DIMENSIONS mm		
D	max length	7.550 = H+I
Ε	max width	2.500
F	max frame height	2.960
G	max height	4.160 = F+L
н	external length of plastic extractor	1.100
1	frame length	6.450
L	height of standard legs	1.200







TIGER DEPACK HS 10 UNIT

THE MOST VERSATILE

THE TIGER HS 10 IS TIGER DEPACK'S SPEARHEAD PRODUCT.
CREATED AS THE TIGER HS 640 IT IS THE BASE MACHINE
WHICH IS SUITABLE FOR MEETING A VARIETY OF REQUIREMENTS
AS A RESULT OF ITS SIZE AND PRODUCTIVITY.

DATA SHEET

TIGER HS 10	UNIT NOMINAL CAPACITY 10 T/H	
SEPARATION	Patented vertical separating block	
PLASTIC EXTRACTION	Dry fraction extractor screw	
HOPPER	Standard hopper AISI 304	
LEGS	Standard legs	1.200 mm
ENGINES	ABB engine for the shaft	55 kW
	Engine with gearmotor for the feeding hopper	5,5 kW
	Engine with gearmotor for the extraction screw	3 kW
LIQUIDS	Double water input line: process water line and washing line	
	Solenoid valve for the regulation of the incoming water flow	
	Liter counter	
ELECTRICAL	Control panel with touchscreen	
AND SOFTWARE	Software	
	Soft Starter	
	Frequency Converter	
	Electric cabinet	
	Rotation sensor for rotor	

Specifications subject to technical changes. Specifications are approximate, illustrations and may include options that are not part of the standard equipment.



b	OPERATING DIMENSION mm			
	Α	hopper loading height	3.200	
	В	hopper loading width	3.500	
	С	plastic discharge height	3.150	



OVERALL MACHINE DIMENSIONS mm		
D	max length	7.400 = H+I
Ε	max width	2.500
F	max frame height	2.960
G	max height	4.160 = F+L
н	external length of plastic extractor	1.600
1	frame length	5.800
L	height of standard legs	1.200



TIGER DEPACKHS10 UNIT



TIGER DEPACK HS 5 UNIT

SMALL DIMENSIONS HIGH PERFORMANCE

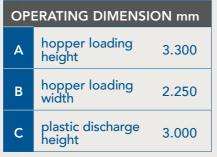
THE TIGER HS 5 UNIT IS THE SMALLEST VERSION OF THE TIGER DEPACK RANGE. BORN FROM THE SPECIFIC NEED TO BE INSTALLED IN MORE RESTRICTED SPACES, THE TIGER HS 5 UNIT FEATURES THE SAME SEPARATION AND DEPACKAGING QUALITIES AS THE LARGER VERSION.

DATA SHEET

TIGER HS 5 U	JNIT NOMINAL CAPACITY 3-7 T/H	
SEPARATION	Patented vertical separating block	
PLASTIC EXTRACTION	Dry fraction extractor screw	
HOPPER	Standard hopper AISI 304	
LEGS	Standard legs	1.200 mm
ENGINES	ABB engine for the shaft	30 kW
	Engine with gearmotor for the feeding hopper	5,5 kW
	Engine with gearmotor for the extraction screw	3 kW
LIQUIDS	Double water input line: process water line and washing line	
	Solenoid valve for the regulation of the incoming water flow	
	Liter counter	
ELECTRICAL	Control panel with touchscreen	
AND SOFTWARE	Software	
	Soft Starter	
	Frequency Converter	
	Electric cabinet	
	Rotation sensor for rotor	

Specifications subject to technical changes. Specifications are approximate, illustrations and may include options that are not part of the standard equipment.







OVERALL MACHINE DIMENSIONS mm		
D	max length	5.650 = H+I
Ε	max width	2.000
F	max frame height	2.700
G	max height	3.900 = F+L
н	external length of plastic extractor	920
1	frame length	4.730
L	height of standard legs	1.200



PACKAGING AND CONTENT RECOVERY SOLUTION







TIGER DEPACK HS 55 (CANADA) ANIMAL FEED

TIGER DEPACK HS 55 (U.S.A) / ANAEROBIC DIGESTION





TIGER DEPACK HS 5 (ITALY) / SOURCE SEPARATED ORGANIC



TIGER DEPACK HS 75 (CANADA) / ANAEROBIC DIGESTION

MORE THAN 150 TIGER DEPACK IN THE WORLD

TIGER DEPACK HS 20 (ITALY) PAPER PULP





TIGER DEPACK HS 10 (U.S.A) / WASTE FROM CAFETERIAS







TIGER DEPACK HS 55 (U.S.A) / OVERSIZE CLEANING

TIGER DEPACK HS 10 (NORWAY) / FOOD WASTE



TIGER DEPACK HS 10 UNIT (FRANCE) / SOURCE SEPARATED ORGANIC

TIGER DEPACK HS 20 (ITALY) / WASTE TREATMENT REJECTS





TIGER DEPACK HS 5 (ITALY) / SOURCE SEPARATED ORGANIC



TIGER DEPACK HS 90 (U.S.A) / OVERSIZE CLEANING







of **remote monitoring**, make the Tiger Depack an efficient and effective system.

A system that can guarantee the availability of spare parts and qualified staff capable of providing a rapid response to our customers' needs.



LEGEND

UKRAINE 🗡

LITHUANIA

IRELAND 🛨

SOUTH KOREA 💢

RUSSIA 💢

DEALER MACHINE







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