LEXON®

Pet Perforator

Air and liquids that are present inside the PET bottles pose an obstacle during the baling process. In order to remove this obstacle and boost the baling efficiency, our PET perforator machine perforates and scratches the PET plastics so the air and liquids are flowed out thus a higher yield is achieved during baling

Touch Screen PLC Automation

Siemens products, supported with Profinet communication, are used in automation system infrastructure. 12" Siemens industrial touch screen provides a user friendly interface with visual elements that eases the handling of the operator. Thanks to pressure regulation function offered by the screen, pressure of the "Jaw" and "Ram" can be traced. Furthermore maintenance and servicing time can be decreased by using error diagnostics and maintenance tabs. Pizzato / Siemens safety products are used within the system to both trace potential risks and to take required precautions.



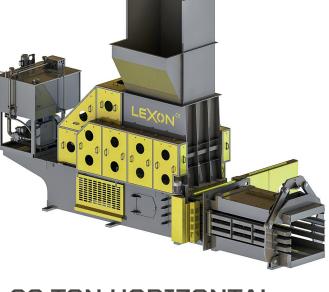


Flap Mechanism

Flap mechanism generates additional pressing force during baling process and thus directly boosts the baling efficiency. Baler knives are exposed to less force and thus their durability is increased. Moreover, it decreases the baling time and increases weight of the bales by approximately 11 per cent.

Wire Feeder/ Twister **Cutter Mechanisms**

Standard and reliablie bale wiring is achieved with the help of these systems that play a key role in rigid forming of bales. Even amount of wiring for each bale guarantees equal intervals, even loadbearing, and less wire consumption.



90 TON HORIZONTAL BALE PRES WITH FLAP MECHANISM

Ram Force	: 90	ton
Drive Motor	: 55	kw
Bale Dimensions	: 1100x850	mm
Capacity (OCC)	: 11,5	tph
Capacity (*PET)	: 3	tph
Capacity (Capacity)	: 15	tph
Number of Wires	: 4	wired
Oil Tank Capacity	: 1200	litre
Feed Hopper Width	: 1600	mm
Wire Thickness	: Ø=3,5	mm
No Load Cycle Time	: 16	sec
Baler Weight	: 21800	kg

^{*}Capacity when pet bottle crusher unit is active.

LX90

90 TON HORIZONTAL BALE PRES

Ram Force	: 90	ton
Drive Motor	: 55	kw
Bale Dimensions	: 1100x850	mm
Capacity (OCC)	: 10	tph
Capacity (*PET)	: 2	tph
Capacity (Capacity)	: 13,5	tph
Number of Wires	: 4	wired
Oil Tank Capacity	: 1200	litre
Feed Hopper Width	: 1600	mm
Wire Thickness	: Ø=3,5	mm
No Load Cycle Time	: 16	sec
Baler Weight	: 20300	kg
*Capacity when pet bottle crusher unit is a	ctive.	

LX120FLP

120 TON HORIZONTAL **BALE PRES WITH FLAP MECHANISM**

Ram Force	: 120	ton
Drive Motor	: 55	kw
Bale Dimensions	: 1100x1030	mm
Capacity (OCC)	: 15,5	tph
Capacity (*PET)	: 3,5	tph
Capacity (Capacity)	: 21	tph
Number of Wires	: 5	wired
Oil Tank Capacity	: 1200	litre
Feed Hopper Width	: 1600	mm
Wire Thickness	: Ø=3,5	mm
No Load Cycle Time	: 16	sec
Baler Weight	: 22500	kg
*Capacity when pet bottle crusher unit is a	active.	

LX120

120 TON HORIZONTAL **BALE PRES**

Ram Force	: 120	ton
Drive Motor	: 55	kw
Bale Dimensions	: 1100x1030	mm
Capacity (OCC)	: 14	tph
Capacity (*PET)	: 3	tph
Capacity (Capacity)	: 19	tph
Number of Wires	: 5	wired
Nulliber of Wiles	. ح	WIIEU
Oil Tank Capacity	: 1200	litre
Oil Tank Capacity	: 1200	litre
Oil Tank Capacity Feed Hopper Width	: 1200 : 1600	litre mm

*Capacity when pet bottle crusher unit is active.





FLAP **MECHANISM** WORKING **PRINCIPLE**



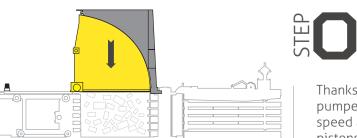
Materials are fed to chamber when the flap system is inactive. Integrated sensors trace the level of the material inside the



Hydraulic Flap mechanism becomes active when oil pumps force pressure oil to the system.



Thanks to the oil pressure pumped into the the system, speed and pressure of the pistons are controlled and materials are baled.



WOODEN PALLET RECYCLING

The wooden pallet recycling process developed by the Benli R&D department has made a breakthrough in the sector; a wooden pallet dismantling machine has been developed in the process and the associated intellectual property rights of the machine have been secured. The facility has a production capacity of 50 000 pallets per a production capacity of 50.000 pallets per month, thus allowing recycling 1000 tons of wood and thereby eliminating the need for cutting of 3500 lumber-grade pine trees that have reached 30 years of age, each month.

PLANT BUILDER

TURN-KEY SOLID WASTE

Thanks to half a century of experience; Benli offers its services of designing,

planning, manufacturing, guaranteeing and commissioning integrated systems for such rising investment areas as; Solid

Waste Sorting, Packaging Waste Sorting, RDF Preparation, Waste to energy, Waste

disposal and Recycling to both domestic and International market.

ENVIRONMENTAL SERVICES

HOUSEHOLD AND INDUSTRIAL

WASTE MANAGEMENT SYSTEMS

Benli Recycling Group started offering its waste management services for the industrial facilities in the early 1990s. As a

industrial facilities in the early 1990s. As a result of the increase in the consumption of packaged products in direct proportion with the economic development of the country starting from early 2000s, Benli has been continuing to collect and sort the packaging wastes collected separately at the source within the Eskişehir, Odunpazari municipality, with a population of 380.000, since 2007

SORTING PLANTS



RUBBER

EPDM RUBBER

RECYCLING

Clean and unused production scraps of EPDM weatherstrips, intended for the door and windows of vehicles produced by automotive industry, are processed into granules in specific sizes. These granules are offered to domestic and international markets for a variety of international markets for a variety of uses as infill for artificial turfs, elastic layer for tartan tracks and insulation material for construction industry.



Flap Mechanism (Hydraulic)

Pet Perforator Unit (Hydraulic & Mechanic)

Bale Cutter Blade

Wire Feeder Mechanism (Hydraulic Compacting Chamber (Hydraulic)

Wire Twisting Mechanism (Hydraulic & Mechanic)

Service Hatches

Ram Force Mechanism (Hvdraulic)

























50 Years of Knowledge and Experience in Recycling Technologies



Benli Recycling Group located in Eskişehir is one of the leading waste management companies of Turkey. The Benli Group has been in operation since 1968 and offers integrated and sustainable solutions in the fields of waste control, collection, sorting, processing and recycling. The group has blended its experience in the waste sector since 1968 with the scientific works carried out in its R&D department established in 2007 in the same pot and redirected the future of the waste sector by developing many machines, processes and systems, acquiring intellectual and property rights and making "know-how" transfers from Europe on certain technologies, whereby has placed in the first rank in various scientific competitions.





