

NIELSEN[®]

RECYCLING SOLUTIONS



Where ecology meets economy



UTICA 2017
Social Innovation
Award



ISO 9001



HUB AFRICA
2016 Award for
the Most Innovative
African Business



PASRI Euro -
Mediterranean
Award 2014
for Innovation





A company at the forefront of innovation to optimizing the management of waste and recyclable packaging

Our slogan is to reconcile ecology with economy: *Ecoliving*

Undisputed leader in its markets, NIELSEN offers optimized solutions for the recovery, sorting and recovery of waste, through a wide range of balers, compactors, shredders, bottle perforators, food waste shredders, industrial choppers, green waste packing presses and other tailor-made equipments for its customers. with the aim of:



- ♦ Covering a very wide range of applications with a single machine.
- ♦ Offering robust and reliable machines.
- ♦ Ensuring minimal maintenance and the lowest operating costs on the market.
- ♦ Reducing the costs of handling and transporting waste.
- ♦ Offering the best in technology, with a view to continuous innovation, but without superfluous sophistication.
- ♦ Optimising the profitability of its clients' investments.



UTICA 2017
Social Innovation Award



HUB AFRICA 2016
Award for the Most Innovative African Business



PASRI 2014
Euro - Mediterranean Award for Innovation



Solutions adapted to every field

Food and non-food distribution:



To free up storage space, better handle waste in the storage area, reduce theft, fire risks and sell your recyclable used packaging.

Industrial companies and bottlers:



To better manage your waste: less time, less energy, more recycling. Your cartons, plastics, polystyrene, aluminum cans, PET bottles, textiles, tyres ... become a valuable source of income.

Hotel and catering:



To become Eco-responsible and dedicate time to your customers not to your waste, to reduce your transportation and waste management costs and allow you to sell your recyclable packaging.

Communities and the public service:



To answer one of the main economic and social concerns and improve working conditions and services.

Service providers:



To optimize your collection, sorting or recycling projects, make them even more profitable and offer a high added value service.

The warehouses and logistics bases



To improve the supply chain, streamline the process and improve efficiency.

The financial sector:



To be in compliance with the rules of confidentiality and data protection rules.

The maritime / offshore sector:



To be in compliance with the IMO and the MAPROL Convention for the waste rational treatment.

The medical sector (hospitals, clinics)



For a better hygiene, an optimal management and a rigorous operation of your establishments

Military bases and bases of life:



For hygiene, safety and well-being of people and premises.

♦ And many other activities that we discover every day ...





Give value to all your wastes

We compact

- ♦ **Le metal** : Different types of light or hollow metals (empty or full cans, barrels or metallic drums, slag ...)



- ♦ **Cardboard and paper**:

Reduces the volume of your cardboard waste, your printing waste, bags, magazines and newspapers up to 90% and limits the risk of fire.



- ♦ **Textile**: Whether it is fibers, made-up falls or thrift-shops, everything is compactable.



- ♦ **Food Bricks**:

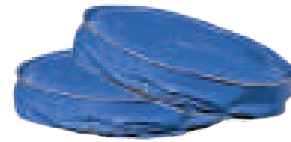
Breakthroughs, compacted and emptied, their treatment has never been easier.



- ♦ **Tyres**: Compact them for a second life!



- ♦ **Plastic** : Whether plastic films, big bags, plastic bottles, cans or drums, the volume is reduced up to 22 times and facilitates storage and handling for recycling.



- ♦ **Wooden crates** and wafers: as soon as they are compacted they are ready for recycling or incineration.



- ♦ **Polyurethane foam**:

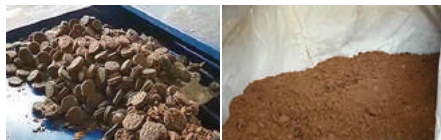
Once compacted, become easier handling and storage.



- ♦ **Aromatic and medicinal plants**: Difficult to store, their transport in bales becomes simpler and more profitable

We grind, shred, value ...

- ♦ **Food waste**



- ♦ **Plastics**



- ♦ **Glass**



- ♦ **Metal**



- ♦ **Archives And**
- ♦ **Textile**



And many other products



20 years of experience as a leader in innovation for the recycling industry



A research and development laboratory
Starting point of all our future innovations and prototypes.



Qualified engineers and technicians

Guarantors of the quality and reliability of our equipments and the pride of our company.



Vertical balers

Balers CE marked, compact, ergonomic, and robust.

A range rich in innovations

- ◆ The premium range is available in all sizes (from XS to XL model).
- ◆ Benefit from multiple innovations that will result in saving the operating time and a source of additional revenue.
- ◆ Perfect combination of high performance and low cost operation.

NPV PREMIUM



100% steel

Meets the requirements of the food hygiene rules.

- ◆ Combines the baling of waste and the drainage of liquids to a tank for their continuous discharge.
- ◆ Equipped with ultra powerful teeth that allow the destruction of several thousand of yoghurt pots, food bricks, cushions bags, PET or aluminum cans (empty or full).

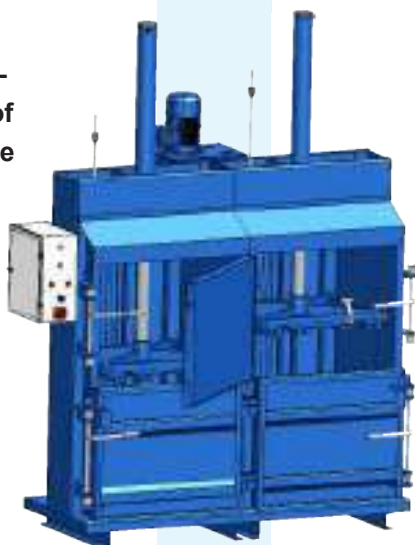
NPV SS



All our presses can be declined in double chamber presses.

For simultaneous compaction and selective sorting of various materials in a single machine.

Double chamber baler



- ◆ Much less maintenance compared to a conventional double-bin slide system.
- ◆ Higher final density.
- ◆ No risk of catching your fingers.
- ◆ Optimal use for materials that abound.
- ◆ Modular machine that can evolve by adding as many boxes as necessary.

Specific baler for textile industry waste and thrift. Ideal choice for any textile industry, sorter and recycler of used garments, used clothing stores, clothes and rags merchant.

The MEGA-TEX AND MINI-TEX baler



- ◆ Use: Used clothes (thrift shop), towels, pillows, quilts, carpets, worn shoes, rags, textile fibers, yarns and other waste and textile scraps
- ◆ Optimal yield and density
- ◆ Lowest operating costs on the market.
- ◆ Available in different sizes

NPV 2M
Manuel and Mobile



NPV XS



NPV 100
NPV 60
NPV 40



NPV 200



NPV XL

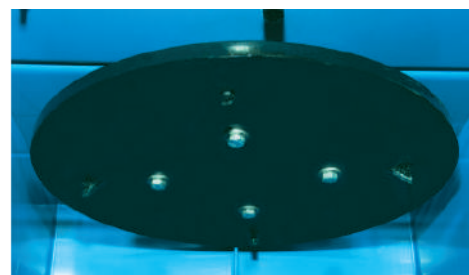
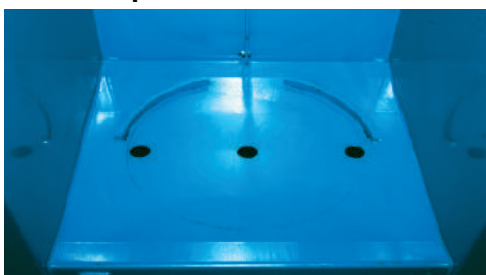


- ♦ Automatic ejection (except 2M and XS).
- ♦ Wide range according to your space, your means of handling and your budget.
- ♦ Sustainability / price ratio among the highest in the market.
- ♦ Cost of use among the lowest on the market.
- ♦ Possibility of custom-made.

Standard technical details (Possibility of customized manufacturing)	NPV XS	NPV 40	NPV 60	NPV 100	NPV 200	NPV XL
Hydraulic compaction power (tons) (T)	2.5	4	6	10	20	50
Average weight of a bale (depends on the product) (Kg)	15 - 35	30 - 80	40 - 100	60 - 150	140 - 420	170 - 500
Height (mm)	2050	2200	2400	2800	3250	3250
Machine weight (Kg)	280	460	600	800	1760	2250
Finished bale dimensions LxWxH (mm)	600X400X500	600 x 500 x 600	800 x 500 x 600	900 x 700 x 600	1250X1000X850	1250X1000X850
Cycle duration up/down (s)	30 s	24	24	24	35 - 40	40
Installed power (kw)	1.1	1.5	2.2	3	4 - 5.5	7.5

* These informations are given as an indication. NIELSEN reserves the right to change the technical specifications of its products without notice.

Possible options on vertical balers



Retention tank option with drain valve and drilling system:

For bottle waste and full cans, food bricks, yogurt, metallic /plastic drums ...

Packing baler for green waste, sawdust, various chips and shredded materials

Machine used for the compression and a semi-automatic bagging of some specific products and wastes (animal food and fish farming, shredded green waste, agricultural waste, agro-food products, biscuits waste ...).



Technical characteristics	Values
Hydraulic Compaction Power (KN)	500
Installed power (kw)	7.5
Power supply (v)	380
Frequency (Hz)	50
Cycle time (s)	45
Acoustic Pressure Level	<70dB (A)
Finished bale dimensions (mm)	250 x 400 x 600
Approximate weight of the machine (kg)	700
Overall dimensions W x W x H (mm)	2320 x 2535 x 1355
Type of waste	Sawdust Crushed wood
Performance	15 bales / hour
Bale weight (depending on materials) (kg)	15 - 25

* These informations are given as an indication. NIELSEN reserves the right to change the technical specifications of its products without notice.

Nielsen manufactures more than balers...



Single or Double Rotor shredding lines (High Torque Low Speed - Mono or Twin Shaft)

HTLS-TS 400



Technical characteristics	Values
Dimension Bloc (mm)	400 x 600
Dimension Cutting block (mm)	Tri. 400 V 50 hZ
Reducer motor power (kw)	11
Number of knives	20 stainless steel knives
Thickness of knives (mm)	20
Number of Axes	02 rotary axes
Electrical cabinet	Controls the intensity of the current absorbed by the motor and automatically reverses the direction of rotation
Hourly yield (Kg/H)	400 - 700

HTLS-TS 600



Technical characteristics	Values
Dimension Bloc (mm)	600 x 700
Dimension Cutting block (mm)	Tri. 400 V 50 hZ
Reducer motor power (kw)	18
Number of knives	37 stainless steel knives
Thickness of knives (mm)	20
Number of Axes	02 rotary axes
Electrical cabinet	Controls the intensity of the current absorbed by the motor and automatically reverses the direction of rotation
Hourly yield (Kg/H)	500 - 2000

To reduce volumes or destroy your:

- Packaging waste
- Industrial waste
- Dangerous waste
- Agricultural waste
- Organic waste
- All batches of expired or non-compliant food products
- Medical waste, disposable equipment and syringes
- Municipal waste
- Electrical waste
- Drug waste
- Plastics and polymers
- Metal and plastic drums
- Scrap and scrap metal
- Bumpers and hoses
- Tubes and pipes
- Paper and cardboard
- Whole files
- Documents, listings and confidential archives
- Credit cards and bank checks
- Chucks
- Cans and aluminum
- Containers
- Jute bags
- Laminates
- Oil filter



- Tyres
- Textile
- Vegetable straws
- Animal bones
- Customs seizures

... and many other wastes

Food waste destroyers

Technical characteristics	Values
Installed power (kW)	3
Rated frequency (Hz)	50
Rated voltage (V)	380
Sound level (db)	60
Press dimensions L x W x H (mm)	3300 x 1200 x 2700
Loading height (mm)	2210
Machine weight (kg)	1100
Compaction force (KN)	60
Cycle time (s)	30
Oil type Hydraulic oil	Hydraulic oil 46
Volume of the tank (l)	80



* These informations are given as an indication. NIELSEN reserves the right to change the technical specifications of its products without notice.

Plastic bottles and aluminum cans perforators

- ◆ Can pierce from 5,000 to 20,000 bottles/hour to recover liquids and facilitate compaction.
- ◆ Fixed or mobile version, continuous or discontinuous supply.
- ◆ Adaptable to any type of automatic baler (Faes, Paal, Comdec, Dicom, ...), regardless of hopper dimensions.
- ◆ Available in different loading openings, powers and perforation speeds depending on the desired productivity.



* These informations are given as an indication. NIELSEN reserves the right to change the technical specifications of its products without notice.

Plastic crusher

Here again, the innovation is to crush in a single machine plastics as different as PET, PP, HDPE, LDPE, PVC, PU ...

The crushers are available in different sizes, powers and grid-diameters depending on the desired productivity.



Technical characteristics	NSH-500	NSH-600	NSH-800
Loading Opening (mm)	510 x 300	610 x 400	810 x 540
Number of revolving blades in V	06	06	06 - 10
Number of fixed blades	02	02	04
Capacity (Kg/h)	150 à 250	200 à 350	500 à 1500
Options	<ul style="list-style-type: none"> • Vacuum cleaner (1.5Kw) • 01 Silo • Special treated steel blade sets 		



* These informations are given as an indication. NIELSEN reserves the right to change the technical specifications of its products without notice.

Glass grinders

Technical characteristics	Values
Power (Kw)	11
Rotation speed of the rotor (tr/min)	440
Loading opening (mm)	540 x 400
Crushing chamber dimensions	680 x 390
Number of hammers	24
Capacity per Hour	Can go up to 1.5 tons
Grid	Ø 100 mm



* These informations are given as an indication,. NIELSEN reserves the right to change the technical specifications of its products without notice.

Conveyors and sorting tables

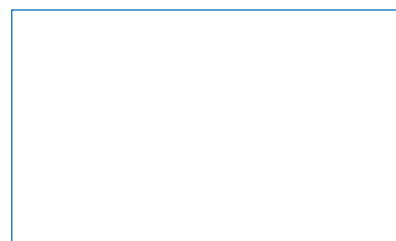
For any activity or need.



Boxes and bins

Fixed or tilting skips, custom designed, removable and upgradable up to 35 m3.

For industrial waste, household and similar waste, inert waste, rubble, etc.



Acoustic booths and soundproof boxes

Adaptable to all machines: crushers, rotating machines, hydraulic power plants, etc ...

Lift tipping devices

To revolve any emptying device.



Others products

To better meet your needs and expectations, Nielsen has developed partnerships with many global leaders. That's why we offer horizontal balers, container lifts, compactors and solid waste shredders.

♦ Horizontal balers

NIELSEN has a partnership with the world leader PAAL GROUP for horizontal balers (manual or automatic tying)



♦ Green waste Shredders and Chippers

NIELSEN has a partnership with the European leader TS Industrie for their plant and branches cutting machines



♦ Compactors

NIELSEN has a partnership with the European leader for their monobloc compactors



♦ Vacuum cleaners for urban and industrial waste



Consumables

◆ Textile straps

A complete range of high performance woven textile straps are available in different widths.



◆ Annealed iron wires

Very high quality wire that can stretch up to 40% to avoid breakage. Several diameters available.



Service: The Sense of Service around the world

Service, maintenance and security, professionalism, responsiveness and listening

A team of qualified technicians for:

- ◆ Erection and startups
- ◆ Operator training
- ◆ After Sales Services
- ◆ Periodic general visits (PGV)





Our successes around the world



Follow us on:



www.eco-nielsen.com



EcoNielsen



econielson



NIELSEN Recycling Solutions



NIELSEN RECYCLING SOLUTIONS

Your NIELSEN® reseller