Delta ENGINEERING

Improve your efficiency

Company Roots

The company was founded in 1992 by Danny De Bruyn and Rudy Lemeire, both engineers active in the production of plastic bottles. Noticing the lack of efficient leak detection equipment, they started designing and producing the UDK 200, a single head leak tester. Delta Engineering was born!

In the following months and years, they stayed very much attuned to the needs of their customers, leading quickly to the development of a whole range of solutions solving the actual problems of todays companies.

This hands-on approach enabled Delta Engineering to establish a preeminent position in the industry. In no time, all Belgian blow moulders were working with Delta Engineering solutions.
As Belgium is such a small country, they set their sights on the bigger export markets from the beginning.

Today Delta Engineering counts large multinational groups, as well as smaller independently owned companies among its customers. They are located in most countries of Europe, but also in North America, Turkey, South Africa, Argentina to name but a few.

Delta
ENGINEERING

Providing solutions for the plastics industry

We have become the leading supplier of automation solutions for the plastics industry. Our product line is the widest in the market: containing take-out systems, quality control equipment, packing and finishing solutions for the production of plastic bottles and containers.

Mission: “We improve your efficiency”

It is our mission to develop the necessary solutions to enable our customers to differentiate themselves from others. Our customers’ process, labor, packaging material and transport costs are our KPI’s when designing new machines and solutions.

Vision: “You dictate our quality”

How do we realize our product range? Through cooperating closely with you, our customer: your critical feedback allows us to adjust and improve our products.

The crucial factor for our success: the people in our enterprise and their creative potentials. Our goal is to achieve customer satisfaction through excellence in designing high-quality, cost-effective solutions, manufacturing, installation and after sales support. Through our culture, drive and expertise of each individual employee, we are uniquely positioned to meet the demands of our customers around the world.

Full service

Our customer is confronted with a problem?
Together with the customer, we create a solution.

Our customer is looking for a specific solution?
We investigate all possibilities.

You can't find a suitable machine in our product range?
We will develop a solution.

Our secret? Full service. From a challenging idea to a machine integrated in your production line.

The reference in blow moulding

Delta Engineering is an engineering company: we not only design machines for highly specialized corporations, but we also build them, offering our customers a more efficient, less costly production with a thorough quality control.
Our strength? Nobody knows blow moulding automation better than we do!

Company values

- **Innovation**: we constantly develop new solutions.
- **Flexibility**: no other company answers as promptly to the customers' needs.
- **Creativity**: engineers are developers, especially in today's commodity market.
- **Proactivity**: we anticipate the customers' problems before they encounter them.
- **Reliability**: our machines do what they have to do. All of the time.
- **Efficiency**: a driving factor in our developments and in our machines.

Strong growth thanks to:

- **Repeatability**: serial production of standard products with fine tuning according to the customers' needs.
- **Compatibility**: using as many existing and standard components.
- **Cost-effective production**: using high-quality yet affordable components.
- **Modularity**: designing multifunctional machine parts.
- **Account management**: fortifying our customer relations.
- **Market expansion**: offering our machines on other markets and other domains as well.
- **Investment**: investing in the future through people, technology and R&D.

We know our customers are looking for strong co-operation and flexible solutions. That is why we deliver a total concept: design, construction and integration in your production line, we do it ourselves. Adapting an existing machine or creating a complete new production or packaging line?

It goes without saying that Delta Engineering has a significant competitive advantage by the in-house engineering and production facilities: we realize our machines from concept to finished product. This allows us to control all steps of the conception process, enabling us to respond almost immediately to customer requests and market changes.

Engineering

Our mechanical design team conceives all machines in 3D. All designed pieces are checked during the design phase to be sure they can be produced on the work centers.
The electrical and software teams design the electrical boards and the application software taking into account the latest evolutions in the automation market.
Our technical staff provides you with a CAD service in implementing the automation of your factory.

Production

from welding to final assembly, we control everything … under the same roof!

State of the art machinery is to be produced with state of the art tools! Our mechanics have following equipment at their disposal: CNC laser cutting machine, a CNC lathe with bar feeder durret, 4 axis CNC work centers, CNC vertical machine centers, CNC press brake, Hydraulic shear, CNC cutting machines, …

Having our own job shop, provides us with the flexibility to fulfill most of our customers' needs with a shorter lead time.

What's in it for you?

Our team of experienced professionals is able to provide our customers with answers to the ever changing needs in the plastics industry. The hands-on experience of our engineers allows us to better advise you about the possible solutions to your challenges, whether they are of technical, conceptual or economical nature: we solve these issues based on our extended industry knowledge and creative approach.

Next to all Delta Engineering's technical and technological knowledge, we have got another advantage: our multilingualism. Our employees master multiple languages to support you in your own language.

Assist in factory design

Our team of qualified employees can assist you in the design, redesign or integration of new lines in your factory. By taking into account all constraints and using the latest technologies, we can help you turn your production site into an efficient entity.

Factory audits

Our experience in the business allows us to do an independent audit in your factory, detecting savings in packaging, labor, energy consumption and improving the general efficiency.

Optimize your packaging solution

Based on our experience and on a range of self-developed tools, we can optimize your packaging solution, optimize the total cost of packaging taking into account cost of labor, packaging material, transport and investments.

Extended range of packaging machines

Our packaging solutions cover tumble packing, bagging, boxing, tray packing and palletizing. All machines have been designed to be flexible and to be a long term investment in an ever changing market.

Support you with different energy saving solutions

We design machines taking into account sustainability to keep energy consumption down.

What's in it for you?

Our PP360 production monitoring system: keep your costs under control

The PP360 monitors the consumption of power, cooling water, material and air per production line and factory wise.

Monitoring labor and assigning this to the right cost center - activity based costing - we keep control of the exact cost per product and intervene when necessary. It also informs you how long it takes to change color, change a mould, start up the machine and monitors the waste during the total process.

In the extended version effective production planning tools, warehouse management and interfacing with your existing ERP can be implemented.

"Delta Engineering can help you to improve your line efficiency"

We help you control your quality

Constantly designing new solutions, we monitor your quality with our complete range of QC machines. We can supply you with our advanced pressure decay, high voltage or weight checking equipment.

Provide you with high-quality technical support

Next to all this, we offer you a fully equipped technical staff ready to provide you with the necessary support.

Delta Engineering's Website

Our website is conceived as a tool for our customers and is the ideal way to get in contact with Delta Engineerings possibilities:

- You can download our conveyor & parts catalogue.
- You can optimize your stacking patterns using our online calculation tools.
- You can calculate the cost of bag packaging and use this in your costings towards your customers. It allows you also to estimate your savings comparing the different packaging methods.
- You can calculate the accuracy of our leak testers on your products.
- Estimate the possible savings on our ESG grinder energy saving control system.

www.delta-engineering.be
www.delta-engineering-usa.com

OEM leak testers

A range of control cabinets to replace or upgrade your older equipment. They can also be used to build your equipment yourself, to integrate on production lines, etc ...

ODK100

Single head leak tester, no network capabilities, no data logging, different pressure sensors available.

ODK250

Single head leak tester, advanced version, data logging included, network capabilities, different pressure sensors available.

ODK310

Multi head leak tester, advanced version, data logging included, network capabilities, different pressure sensors available.

Static in-line leak testers

A complete range of economic units for use at lower speeds.

UDK050

Simple fixed (one type only) economic unit, one head.

UDK200

Modular leak tester, one head, different pressure ranges available.

UDK250

Advanced modular leak tester, including data logging capabilities, different pressure ranges available.

UDK310

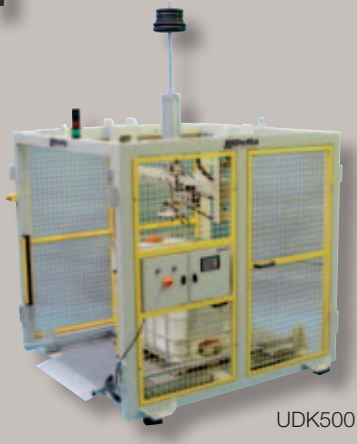
Advanced modular, multi head leak tester, including data logging, different pressure ranges available.

UDK500

IBC leak tester to use separate or built in existing lines, UN pressure test range available.

UDK200

UDK250



UDK500

Quality Control

On the fly leak testers

Delta Engineering proved to be very successful with its on the fly leak testers: no wonder, as they are very efficient, easy to adjust and endowed with a very low false rejection ratio, due to the technology used. The new units are even equipped with our new Adaptive Flyback, meaning that the leak tester optimizes the time between the gaps in between the bottles in order to increase the testing time and accuracy.
The changeover is fast, and requires no bottle depending parts.
Data logging is standard.

UDK350

UDK350

Single head economic high speed on the fly leak tester, up to 8 000 BPH.

UDK400

Modular up to twin heads on the fly leak tester, up to 13 000 BPH.

UDK401

Modular up to triple heads on the fly leak tester, up to 18 000 BPH.

UDK402

Modular up to four heads on the fly leak tester, up to 22 000 BPH.

UDK406

Modular up to 6 heads on the fly leak tester, up to 30 000 BPH.

“ In comparison to rotary machines, no bottle depending parts are needed.“

UDK402

High voltage leak testers

Our high voltage leak testers have been developed to cope with the extreme small gate stress cracks which can occur now and then in the 1 & 2 stage PET bottle blowing process. They are conceived to detect any leak in the 40mm (1.5”) surrounding area of the bottle gate. Optionally, we can integrate bottle height detection & bottleneck inspection camera’s.

“The cost of a leak tester is not buying it... it is the number of false rejects every day. “

UDK451

Single head high speed high voltage leak tester, up to 9 000 BPH.

UDK452

Twin head unit, up to 16 000 BPH.

UDK453

Three head unit, up to 20 000 BPH.

UDK454

Four head unit, up to 24 000 BPH.

UDK452

Quality Control

Quality Centers

Our quality centers are mainly used in the container business >5L (1.32 US gallon).
They allow us to check in a simple, reliable way for a lot of following flaws :

- Handle scrap
- Handle deformation
- Neck scrap
- Neck ovality
- Scrap lying on top of the product
- Weight check and feed back to the die correction gap of the machine (saving over 5 tons per year on material)
- Leaks (Testing standard or UN)

Data logging is standard, allowing to connect to your ERP systems & printers over our PP360 interface. This can be used specifically for bar code labeling, traceability, RFID tagging, etc...

QC050

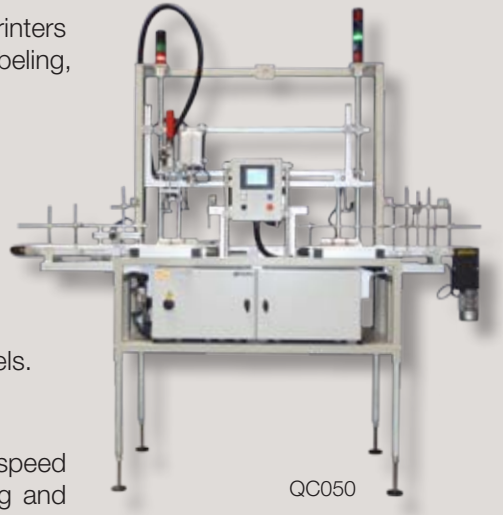
Single head Quality center, designed for containers from 5 (1.32 US gallon) - 60 l (15.8 US gallons).

QC060

Single head Quality center, designed for containers from 60 l (15.8 US gallons) -220 l (58 US gallons), mostly used for L-Ring Barrels.

DDR200

On QC060 optional punching & L-Ring rotation station, used when the speed on the QC060 is too high or when speed constraints prohibit punching and orienting.



QC050

Other solutions

Metal detection check

“ Metal detection check: A must on food related lines! “

DMD200
Standard metal detector including special metal-free chain conveyor.

Drop test equipment

VT050
Simple wall mounted drop test unit, including splash screens and pump unit, up to 35 l (9.2 US gallons) containers.

VT100
Extended drop test unit, capacity up to 1000N.

Closure sealing detection

DVT100
Delta Engineering has developed a very simple bottle closure test unit. It consists of a vacuum chamber in which the water-filled bottles are placed on a tissue, indicating even the smallest leak. Once the unit is closed and activated, it starts evacuate. When the desired vacuum is achieved, the energy saving system takes effect and disables the air consumption.
This enables you to test the bottle cap sealing in production, helping you avoid all customer complaints.

Packaging

Bagging, the future of bottle packing

The cost of bagging being averagely only 20% of the cost of cardboard packing, reducing labor drastically and often allowing to get more per pallet position in the truck, it is clear to say that bagging is the future of bottle packing. We did not even mention yet the advantages for the food industry: no physical contact with the finished product anymore and no risk for cardboard contamination.

Payback of the investment in bagged bottle packing is achieved between 6 months and 2 years.
The main obstacle, faced by our customers, is to convince their customers to change the way they work; this usually happens if there is a substantial cost reduction between their actual packing and the new, bagged packing.

All of our bagging machines are, within their range of settings, able to produce different packing lengths and widths to optimize pallet stability. They have also been designed to handle difficult bottles and make fast change-overs.

Delta Engineering's range of bagging machines:

DB010

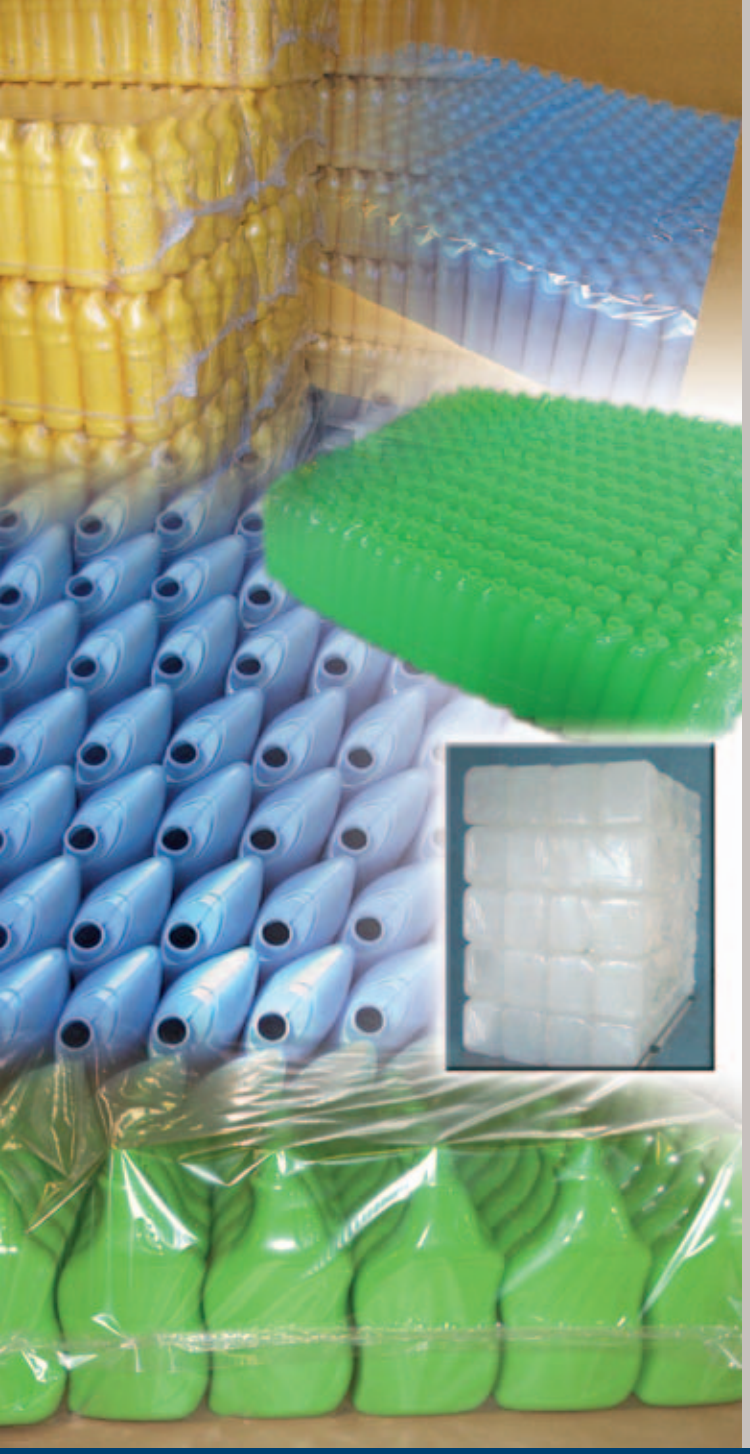
Low cost manual bagger.

DB050

Economic half automatic bagger.

DB100

Small unit to produce small bags 300mm x 400mm (12" x 16"), 400mm x 600mm (16" x 24"), etc mostly used in pharmaceutical environments.
Can, in some cases, be used with filled products.



Packaging

DB110

Cosmetic style bagging machine, producing bags from
600-800mm (24”-32”) width and 200-700mm (8”- 27.5”)length.

DB112

Similar to DB110, but with pack sizes from 800-1000mm (32”- 40”) width
to 200-700mm (8”- 27.5”) length, especially used with UK block pallets.

DB122

Fully flexible unit, producing pack sizes from
800-1200mm (32”- 48”) width
and 200 to 1200mm (8”- 48”) length.

DB122

DB132

High speed version of the DB122, producing big size bags
in up to 20-30 seconds per entire layer.
Often used in combination with a VZT500.
Able to pack products from different machines in just one packing.

DB152

Special triple bagging machine, placing a bag pack around up to 3 stacked packs.

WEL110

In-line shrinking after a bagging machine - width 1600mm -
maximum transit height 400mm.

WEL110

WEL115

In-line shrinking after a bagging machine - width 1600mm -
maximum transit height 600mm.

Packaging

Tray packing

Tray packing remains the most common way to pack bottles on a pallet. Delta Engineering offers a complete range of tray packers, easy to move around and to change over. We also provide a lot of handling tools for difficult bottles! Delta Engineering produces an extensive range of tray packers to cope with your different needs (space buffer, etc). All of our tray packing machines can be equipped with an optional space saving and economic leak tester.

VZT11X line
Small collation table, 800mm (32”), 1000mm (40”) or 1200mm (48”) wide, 1200mm (48”) long.

VZT21X line
Tray packer, 1 full tray buffer, 800mm (32”), 1000mm (40”) or 1200mm (48”) wide, 1200mm (48”) long (max).

VZT22X line
Similar to VZT21X, but shorter version with only 300mm (12”) buffer.

VZT210

These units are to be used with low speed machines or with only little space available.

Inverted tray style tray packer

The bottles are gathered on a synchronized belt, according to the packing pattern. Between the different layers, a programmable space is created. The operator approaches the machine, puts the hood invertedly over the prepared layer, slides this box into the rotary station and, after rotation, takes away the tray with the bottles upside down.

VZT23X line
Inverted style tray packer, 800mm (32”), 1000mm (40”) or 1200mm (48”) wide, 2500mm (98.4”) long belt.

VZT24X line
Similar to VZT23X, but shorter version with only 1500mm (59”) long belt.

Packaging

Special tray packers

VZT400

Robotpacker, grabbing difficult shaped products on the fly without stopping and stacking it into a tray. It is often used with preformed thermoformed trays in conjunction with e.g. conical products.

This unit, in combination with a UDK350 on the fly leak tester and a specific take out system, enables you to create a line were you can handle all difficult shaped products that normally would not make it to the tray packer.

Handles trays up to 800mm (32”) wide max.

VZT500

State of the art high speed tray packer. Grabs and places product rows in as fast as 3.2 seconds.

The unit is also equipped with an advanced control system, allowing to be fully used in combination with our DLC line controllers.

The VZT500 integrates seamlessly with puck lines to handle the most difficult bottles imaginable. Depending on the products, the VZT500 is also to be used as a buffer unit.

The most advanced application of the VZT500 is a complete integration with RFID tags either on the pucks or on the bottles (depending on the use) to obtain complete traceability.

VZT500

Palletizers

Delta Engineering also offers an extensive range of palletizers for different applications.


DP200

DP200
A semi-automatic palletizer for empty bottles on trays, under trays or on flat sheets. It can handle pallets sizes from 800mm x 800mm (32” x 32”) to 1200mm x 1200mm (48” x 48”) and can make half height pallets up to 1.6m (63”) high. Averagely allows one operator to work with 6 machines.

DP201
A semi-automatic palletizer for empty bottles on trays, under trays or on flat sheets. It can handle pallets sizes from 800mm x 800mm (32” x 32”) to 1400mm x 1400mm (56” x 56”) and can make half height pallets up to 1.6m (63”) high. Averagely allows one operator to work with 6 machines.

DP250
Fully automatic palletizer to place bottles into trays including automatic pallet in- and out-feed and internal buffer capacity. AGV interfacing available. Trays can be fed automatically into the DP250 with our DKP200 tray folding machine.
Re-usable trays can be placed with one of our different tray warehouses.
Stacks up to a height of 3.1m (122”).

DKP200
Unit to fold and glue cardboard trays up to 1200mm x 1200mm (48” x 48”)

Palletizers

DP300
A full automatic palletizer for stackable cans with different layer layout possibilities.
Including automatic pallet in- and out-feed and internal buffer capacity.
AGV interfacing available. Stacks up to a height of 3.1m (122”).

ETK300
Dust cap applicator to put dust caps automatically on containers.

DP300

DP400
Stacking unit for bags, linear (conceiving pallets with bags e.g. DB122).

DP410
Flexible stacking unit that can be used to position trays, bags, layers, top covers, …
High speed rotative system with up to 4 product positions.

DP500
Flexible, fully automatic palletizing unit, specific for simple squared products on trays, under trays or on flat sheets. It can handle pallets sizes up to 1200mm x 1200mm (48” x 48”) and can make pallets up to 3.1m (122”) high. Very limited footprint.

DP500

DP550
Flexible, modular, fully automatic palletizing unit including automatic pallet in- and out-feed.
Specifically designed for use with flat sheets up to 9000 BPH.
It can handle pallets sizes up to 1400mm x 1400mm (56” x 56”) and can make pallets up to 3.1m (122”) high.
Very limited footprint.

Packaging

Packaging

Palletizers

DP600

High speed palletizer, up to 30 000 BPH. Co-operates with other equipment like lane switchers, testing equipment, etc …
Can handle your most difficult formed bottles at fairly high speeds.

DSW600

High speed lane switcher with 1 incoming conveyor up to 6 outgoing conveyors.
On the fly switching so that bottles are never stopped.

DPF600

Centering frame, keeping the pallet stacked together nicely and avoiding dropping products.
Optionally equipped with hood placer (opening the hood from the inside to avoid tray jamming).

DSW600

Other solutions

Case packer

DCP050
Simple manual unit, using a tray packer.
Bottles are packed in a tray, exactly fitting the box. The trays are stacked in the unit manually and are removed sideways. One pulls a bag over the unit, inserts and rotates the box. Now, the box is filled and ready.

DCP100
Unit, packing bottles fully automatically in boxes. Even today, a lot of customers stay very much attached to this system, so this calls for a reliable Delta Engineering solution.

Tumble packing

DSB200
Unit able to tumble pack bottles in a controlled way in boxes, up to 9 stations.

DSB300
Our DSB 300 grabs the bottles sideways, elevates them and drops them over a diverter into a bottle silo.
The system allows to fill 2 silos at the same time.


DSB300

Spray coating

DSC100
Bottle spray coating unit to coat PET bottles and avoid scuffmarks & sticking on the filling lines.

DSC200
Preform spray coating unit, to coat preforms as they are produced.

Packaging

Robotic solutions

DRP050

Packing robot, low range (2000mm),
to pack trays & bags to a pallet.

DRP100

Packing robot, high range (6000mm),
to pack pallets, bags & trays.

Packaging solutions

Packaging soluti

Packaging solutions

Delta Engineering constantly develops new packaging solutions for its customers, in close cooperation with them.

Pallet Box

Plastic injected pallets, who are very small when returned (35mm (1.3”) stacking height only).
The pallet is used as a base and as a cover.
Weighing less than 7 kg (15.55 lbs) makes it easy to handle for your operators.

DPB100
An easily foldable box (1000mm (40”) x 1200mm (48”)).
Sides available in cardboard or polypropylene.

Flexible silos

The perfect in-house or nearby solution ! Bottle stacking efficiency is around 25-55%, depending on the bottle type. Silos are filled in the production in a very simple way with, for instance, our DSB300 bag filling system, excluding almost all labor: the first silo full, the unit switches automatically over to filling the second one. Thereafter, the silos are transported into the warehouse (covered or closed top, avoiding all contamination) from where they go to the filling site to be automatically unloaded. Once the gate opened (manually or automatically), the bottles fall on an infeed conveyor that brings them in the bin of the unscrambler.

DFS010 1226 x 1266 x 1355mm (49” x 50” x 54”) silo, top outlet.

DFS050 1226 x 1266 x 2600mm (49” x 50” x 103”) silo, top outlet.

DFS150 1226 x 1266 x 2600mm (49” x 50” x 103”) silo, base outlet.

DFS250 2400 x 2400 x 2900mm (95” x 95” x 115”) silo, base outlet.

Take out systems

Take out systems

Delta Engineering has developed a full range of take out systems, able to handle bottles coming from the most common machines.

Aoki
We offer solutions for the complete range: Aoki 100/250/350/500/1000, either with servo take out of pneumatic style units.

Kautex
Take out systems for Keb Series KEB 3/4/5/10. In particular for these machines, we manage to increase the production efficiency up to 15%: in case the bottom deflashing fails, with Keb Series it often results in a jam-up with the equipment behind, creating almost every time a machine stop with bended guidings as a result.
Our take out systems prevent this by detecting the bottom and top flash on the bottle and dropping the bottles on the scrap conveyor in case of error, avoiding jam-ups.

Nissei
Delta Engineering produces take out systems for ASB50MB, ASB12N10, 70DPH, 70DPW, 150DP, 150DPH, as well as for the older models. For the 70DPH we even offer a completely integrated unit, that doesn't take extra space! (Bottles are thrown out at the front)

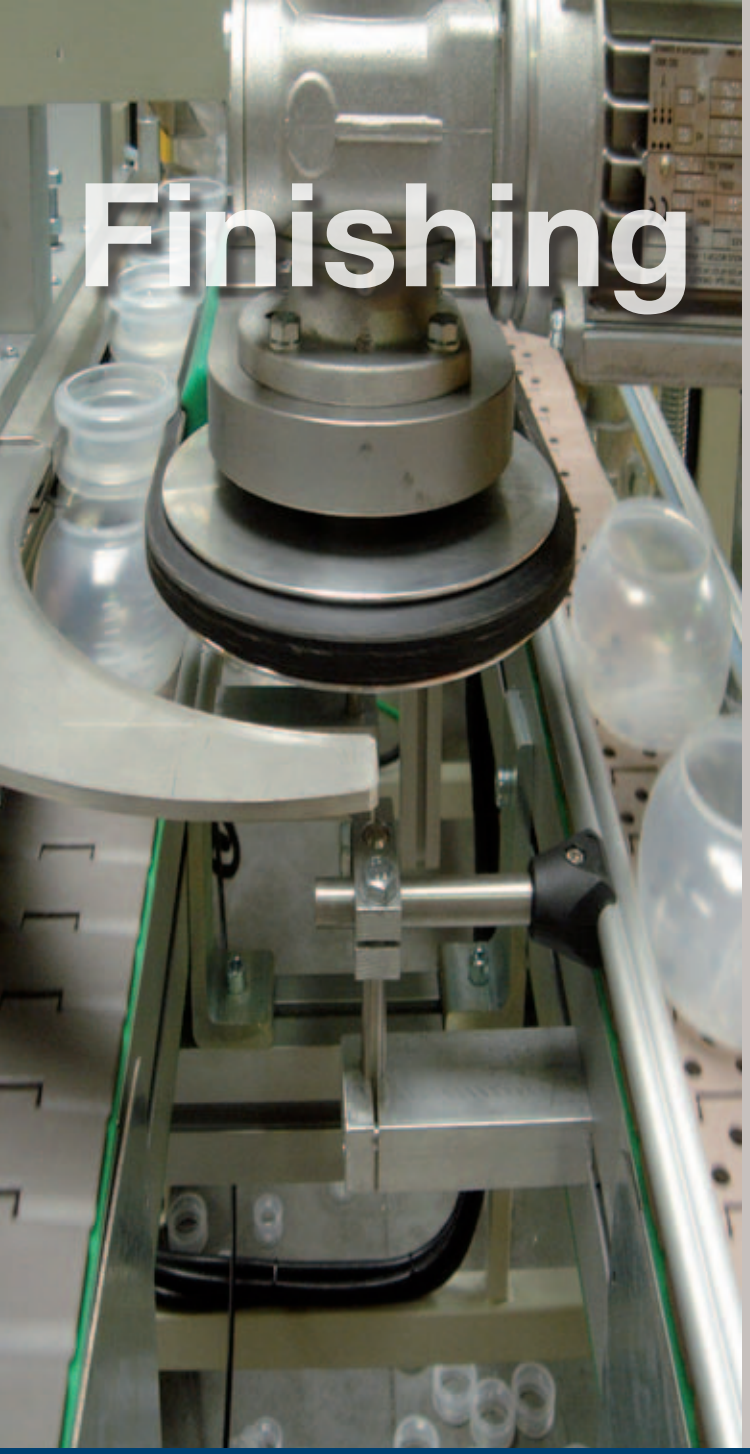
Bottle rotation style take out
Many brands produce machines that grab the bottles by the neck, rotate them 180° and put them on a conveyor: we have a very economical solution for all these types of machinery.

Unscrambling

DBP10X
Our Flexpicker detects the bottles on the belt with a camera, calculates the position, notices eventual shape errors, grabs the bottle and puts it on a conveyor. This unit is extremely flexible and can be placed behind any machine. We have a range from 1 to 8 heads, allowing our Flexpicker to cope with almost all different bottle speeds.
All details on this range of machines can be found under DBP10X on our website.

" The Delta flexpicker, an alternative for unscrambling all type of bottles. "

DEP200
Machine for unscrambling round/oval bottles up to 3 500 BPH.



Finishing

A range of machines to help you produce special products.
Over the years we have developed a lot of experience in this field.
Please contact us for further information.

In a glance :

DC100

Trepanner to cut round lost domes from bottles.
Cuts off lost domes up to 80mm (3.1“), depending on the application and material.

DC150

Similar to the DC100, but longer, applicable for dome diameters over 80mm (3.1”), depending on the application and material.

DC200

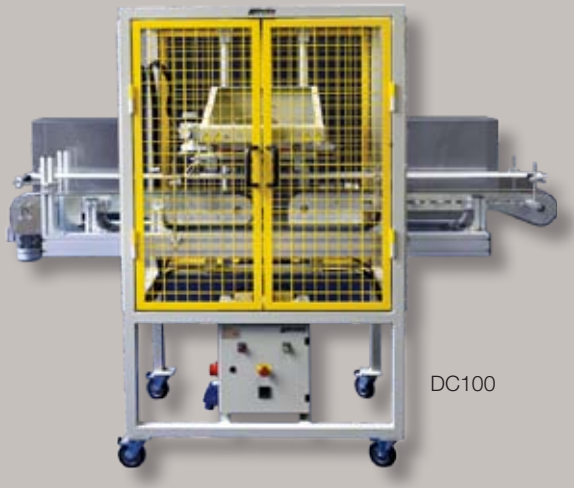
Unit to cut non circular lost heads.

DC300

Neck milling unit to mill the neck area perfectly flat,
enabling you to apply a sealing on the barrier material layer.
Optionally, a leak tester can be integrated.

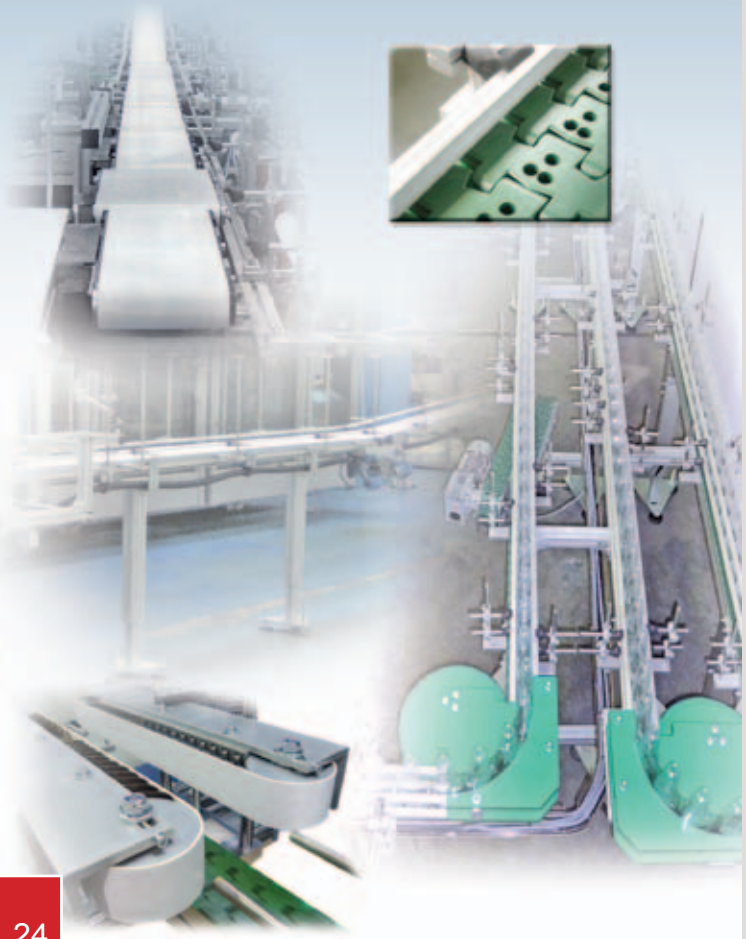
DC400

State of the art laser cutting machine to cut round plastic bottles anywhere, with any thickness.


DC100


DC300

Transport systems



Conveying Systems

Flatbelt conveying

A complete range of flat belt conveyors, from 100mm (3.9”) up to 1400mm (56”) wide, with or without vacuum.

Chain conveying

We firmly believe that this is the way to go: a bit more expensive in the beginning, the cheapest solution over time, avoiding maintenance cost, fallen bottles in transitions and contamination.
Over the years, we have developed a full range of chain conveyors, even with a specific chain for unstable products. We also offer the possibility to use vacuum on these chain belts.
Available in width 83mm or 254mm.

Side grip conveying

Conveyor to transfer products from one conveyor to another.

Pallet Conveying

Pallet conveying has still one huge advantage over AGV’s: it creates a big buffer, allowing operators to resolve problems on the stretch wrapping unit without affecting the production.

Delta Engineering’s pallet conveying system is especially designed to allow most of the pallets being transported in any direction !

We offer a whole list of possibilities or extensions: rotary tables, side transfers, lift stations, infeed units, pallet transfer units and pallet dispensers.

Buffer solutions

Today's market with increasing speeds, in line blow & filling systems, needs good buffer solutions to keep the efficiency high. This results in different solutions we have created:

DBC202

Single loop buffer conveyor. Used before packaging machines to cope with the discontinue process of packaging machines.

DBC602

Double loop buffer conveyor. Used before packaging machines to cope with the discontinue process of packaging machines.

VZT512

Lane buffer system, up to 25 lanes of 5 meter.

DBT232

Buffer conveyor. Rows are pushed on & off on the conveyor belt. Suited for slower lines.

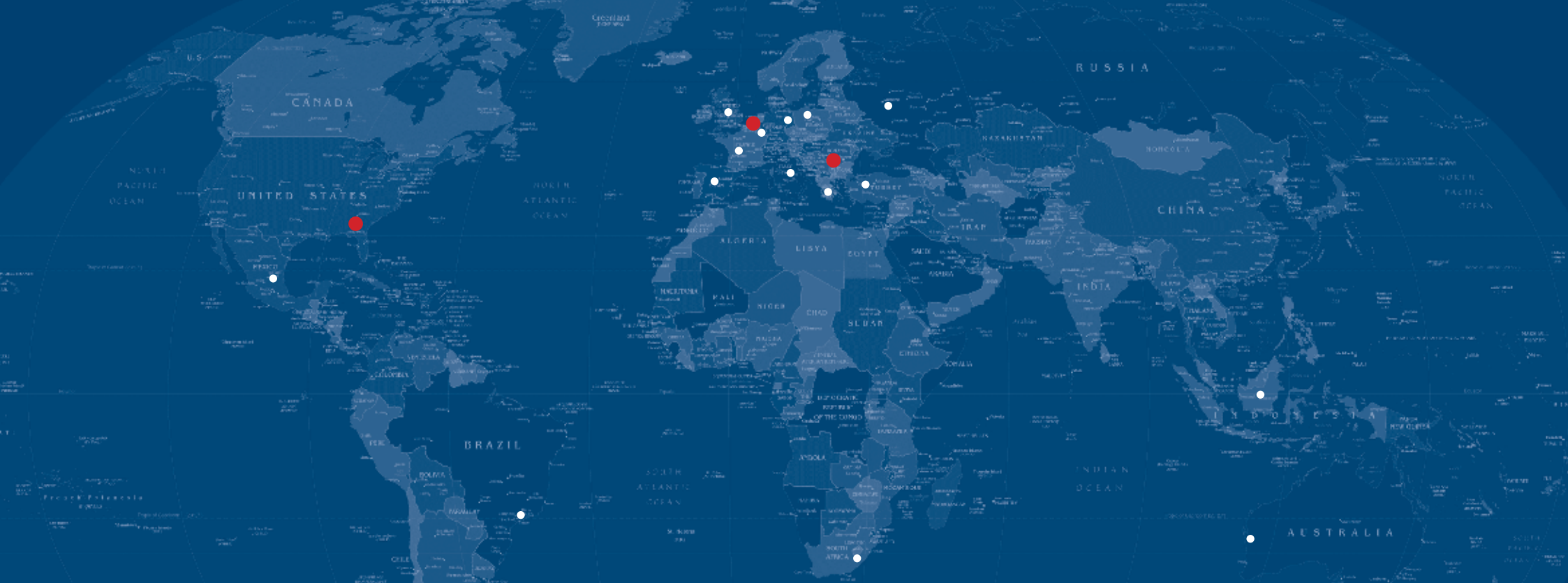
Lift systems

ELV110

High level bag/ tray conveying/lift system. 800mm(32") wide.

ELV122

High level bag/ tray conveying/lift system. 1200mm(48") wide.



Improve your efficiency

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