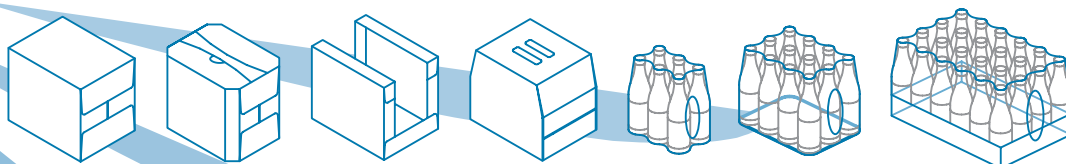




INVOSPEED

Continuous Operating High-Speed Shrink Wrapper
With single or twin lane tray packer module
Output up to 130 packs per minute



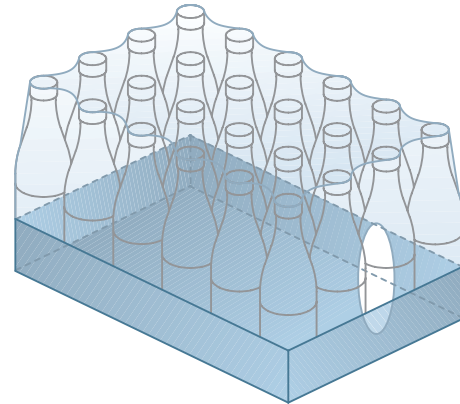
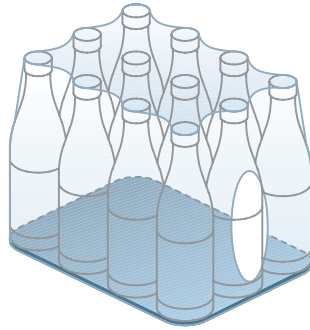
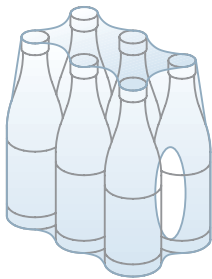
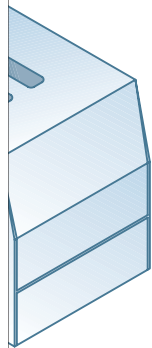
we wrap it. whatever

Reliable and Intelligent Machine

INVOSPEED is the “all rounder” among the continuous running shrink wrappers. Thanks to the single or twin lane tray packer it has an output of up to 130 packs per minute. The shrink film is fed from just one film roll and the tray or pad blanks from only one magazine. During packaging both are split up into two flows if required and a vast range of products can be packed into regular shrink packs alternatively with trays or pads as well as into full size Wrap-Around cases. Product data recording, communication with the line control and traceability of the products throughout our process is guaranteed.

The solid, modular machine design operates continuously in accordance with the overlapping principle, without welding bar. This, paired with the servo-drive technology stands for a high degree of efficiency, flexibility and it is user-friendly. The arriving products are gently guided into lanes which can be easily adjusted to a new diameter by a hand wheel. The machine is fast and reliable, the change over time is short and it has a long service life. The maintenance costs are moderate and the delivery of spare parts or additional change parts are possible even after years of operation.





Variety of Products and Pack Styles

With our broad experience we design unique and very flexible product infeed and pre-grouping modules allowing for the grouping and wrapping of all type of products, sizes and shapes cost effectively and efficiently.

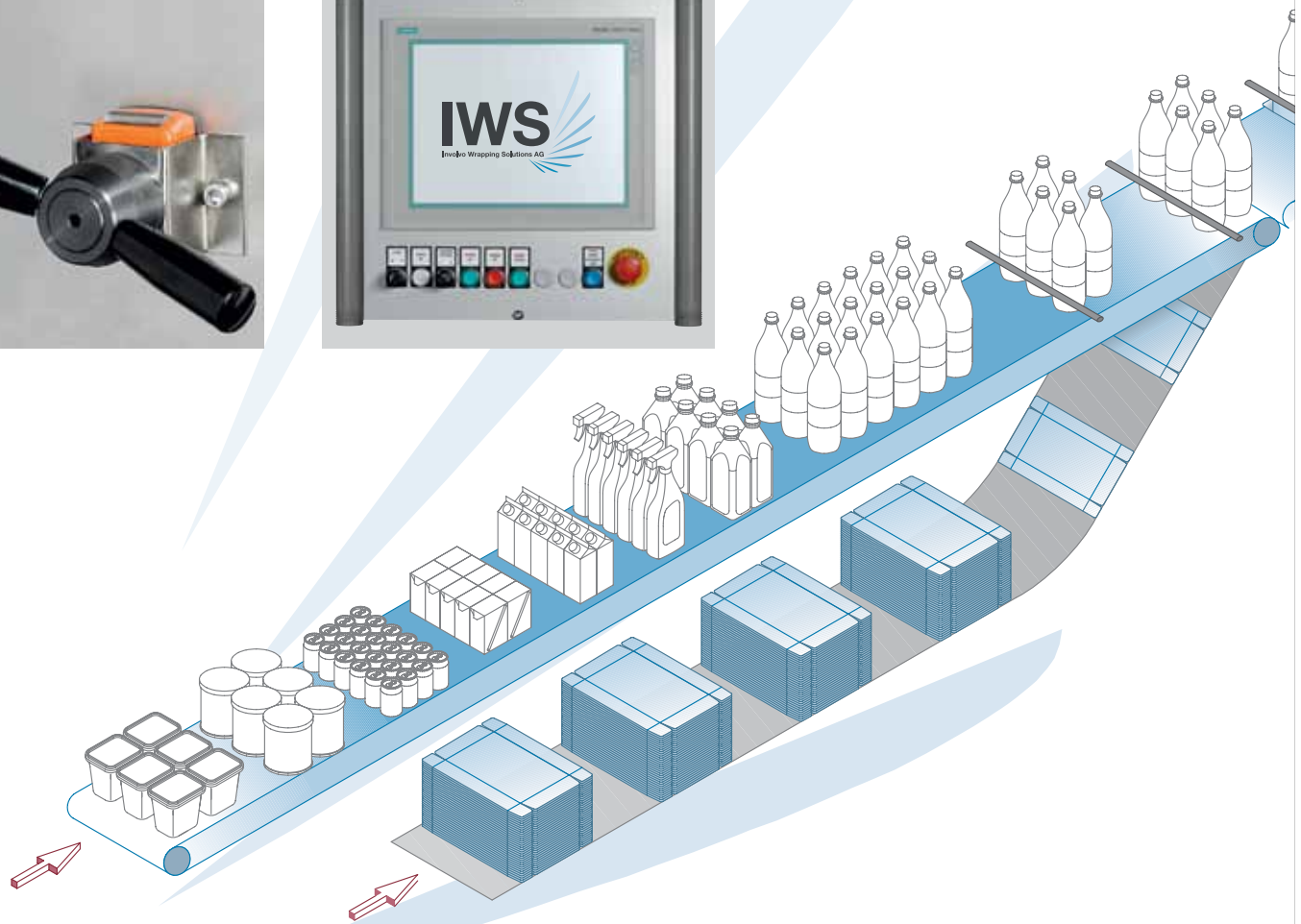
Shrink packs with and without trays or pads are standard. As an option full size Wrap-Around cases, octagonal, dome or shelf ready packagings can be produced.

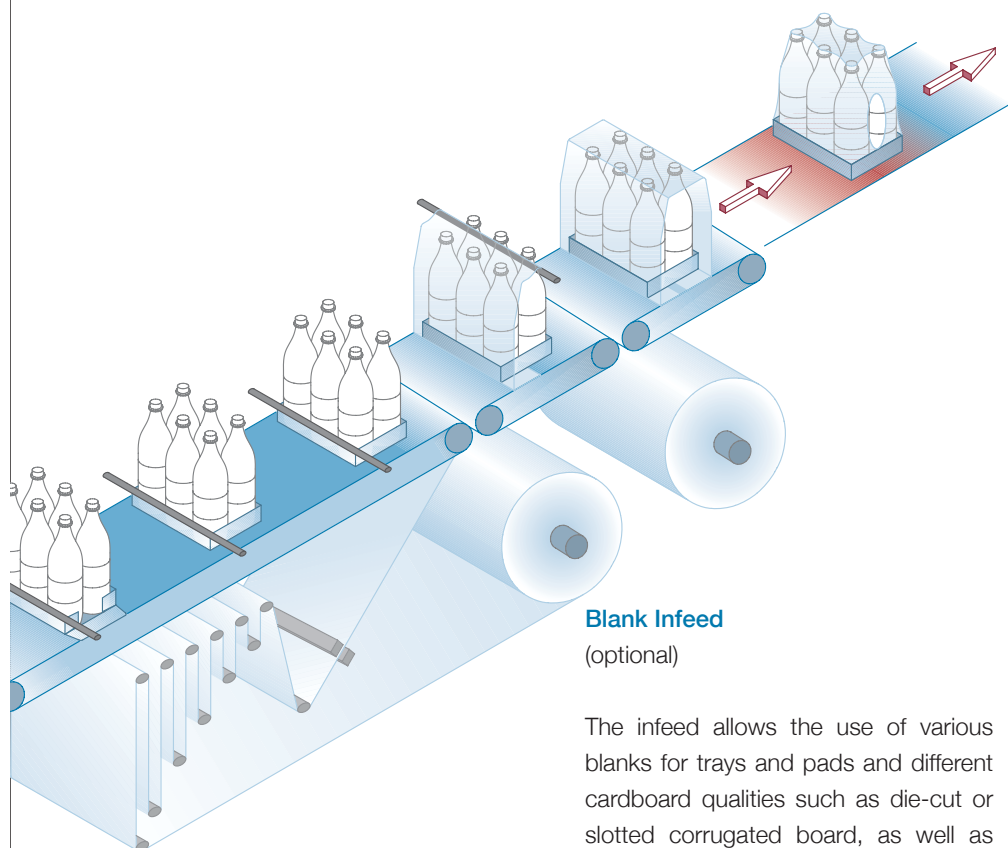


Size Change

The INVOSPEED size change is fast, easy and accurate without any special tools. The adjustments on the basic machine as well as the product infeed, the pre-grouping, the shrink film- and carton magazines are done by the touch screen and with hand wheels and digital read out.

Optionally the complete machine can be equipped with fully automatic touch-screen operated size change features. This increases the availability of the machine and reduces manipulation errors.





Blank Infeed (optional)

The infeed allows the use of various blanks for trays and pads and different cardboard qualities such as die-cut or slotted corrugated board, as well as solid board. The cardboard blanks are extracted from the blank magazine, are positioned into the continuously running main feed chain and the products are placed on top of the pad or tray blank. Hotmelt glue is applied and the tray flaps are compressed to a safe transport pack. The use of partition boards can be avoided in most applications. The accurately aligned tight packs or trays guarantee optimal stacking when palletized.



Film Infeed and Overlapping Principle

The machine is equipped with two film reels. If one is empty, its end is manually spliced with the beginning of the second reel. Hence the change of film reel including the automatic threading through the Tänzersystem can be done while the machine is running.

The shrink film equipment operates continuously without welding bar. One piece of film is cut off from the film reel and if required, it is perforated or cut in two halves during transport with servo controlled vacuum belts, is then wrapped around the products accurately by the wrapping rod whereby the film ends overlap underneath the products. Such wrapped packs then arrive in the shrink tunnel where the film is shrunk and the overlapping film ends are laminated to a tight pack.



Advantages of the INVOSPEED

The huge product variety, a wide format range and the capacity of up to 130 packs per minute cover all major markets. Due to our short lead time between evaluation and commissioning, the decision for the investment results in an early payback.

Shrink film and corrugated- or solid board are used to make shrink packs with or without trays or pads and on request even full size Wrap-Around cases or Shelf Ready Packages "SRP". The printed film is presented the optimal way. It is cut and placed accurately in true registration. The free choice of the source of supply enables you to buy the film and the packaging material at competitive prices.

The simple, self explanatory operation is appreciated even by personnel with modest qualifications. Already after short training sessions the machine is mastered and well accepted by the operators.

The solid construction, the almost wear free and easily accessible design as well as the worldwide availability of our standard components ensure low maintenance cost.



Modular Design

The INVOSPEED with single- or twin lane tray packer have a modular design. More features can be added to satisfy the customer's need.

The control of such add-on modules may be integrated into the case packer's PLC.

Lane Dividers

integrating upstream conveyors and/or buffers

Grouping Section

with space fingers and fly bars

Product Protection

with partition boards

INVOSPEED

with single or twin lane tray packer

Film Applicator

according to the overlapping principle

Film Reel Exchange

without machine stop thanks to second film reel

Colour Mark Control Feature

for shelf ready packages

Trolley

for film reel feeding

Automatic Blank Magazine

for filling from pallets

Add-on Modules

for labeller, check weigher, metal detection, reject station

Turn Key

end of the line packaging, case/tray/shrink packer and palletizing



Modul description see following pages.

① Lane Divider

Whether loose bottles and cans and/or other containers in multi packs or clusters; we can supply the suitable lane divider. We deliver and connect also upstream conveyors or buffers and integrate their controls into the packer's PLC.

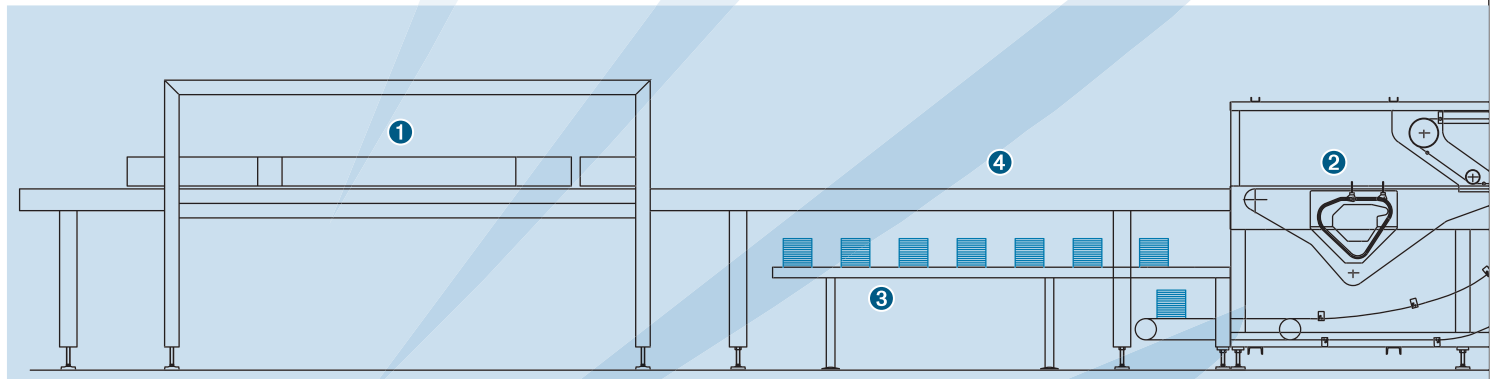


- missing product detection
- detection and rejection of fallen or faulty products
- sorting various products to be packed into the same case

② Grouping Section

Gentle and smooth product grouping with servo driven space fingers and fly bars, also for the single or twin lane tray packer, is state-of-the-art today.

- capacity up to 100'000 product per hour
- without change parts
- automatic size change



③ Automatic Blank Magazine

Optional for tray and wrap-around.

Thanks to the new design of this module also the twin tray packer can be fed out of one magazine. The magazine is very forgiving regarding blank tolerances.

- suitable for corrugated or solid board
- tolerant to the board quality
- storage for one hour of operation
- can be filled from pallets (optional)
- automatic size change (optional)
- trolley to help blank filling (optional)



④ Product Protection

If requested or due to legislation the products can be additionally protected. We supply the module for applying the partition boards.

5 Product Spacing and Synchronizing

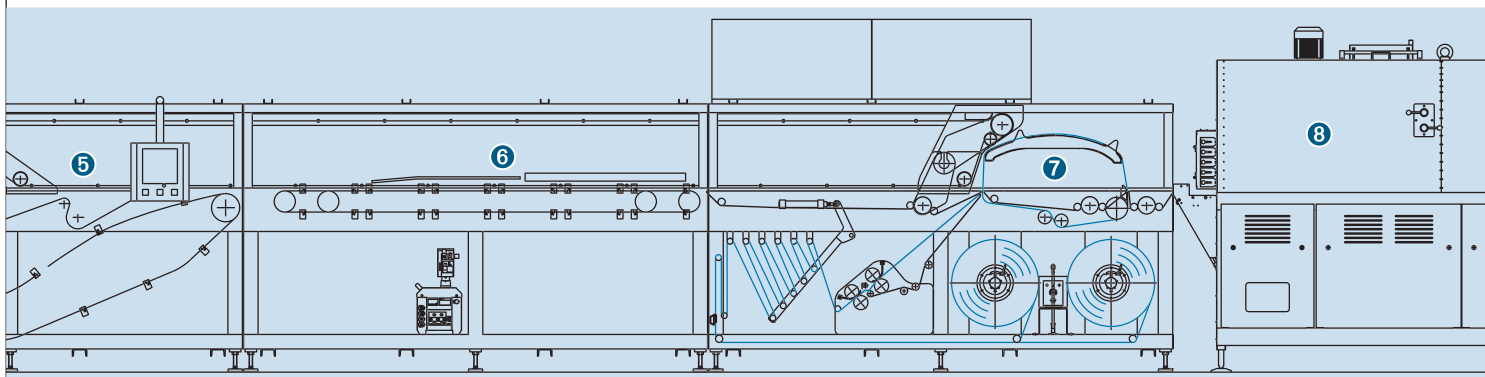
The servo driven space fingers create a gap between the product groups allowing the fly bars to enter there from the top and push the formation synchronized to the shrink film applicator onto the belt conveyor or the tray module.



7 Shrink Film Applicator

Applying the film around the pack is in accordance with the overlapping principle. One piece of film is cut from the film reel and is wrapped around the products by the wrapping rod in such a way that the two film ends overlap on its underside.

- equipped with two film reels
- film reel exchange without production stop
- film saving
- single or twin pack from one film reel
- printed film controls
- no welding bars
- no wear
- trolley for film reel feeding



6 Folding Station



Optional for tray and wrap-around. This add-on module is integrated in the equipment and guarantees:

- tight, well aligned trays or cases
- trays, rectangular or octagonal
- wrap-around cartons with inside flap
- numerous shapes like octagonal, dome or stacking-edge boxes
- trays and wrap-around closed with hot melt glue

8 Shrink Tunnel

Such wrapped packs arrive in the shrink tunnel where the film is shrunk and the overlapping film ends are laminated to a tight pack.

Add-on Modules

On request we deliver labeller, check weigher, metal detector and appropriate reject station.

Turn Key Projects

With partners we can extend our case/tray/shrink packer with robot palletizing. It has an individual control or we integrate it into the PLC of the case packer and supply the end of the line packaging as a turn key job.

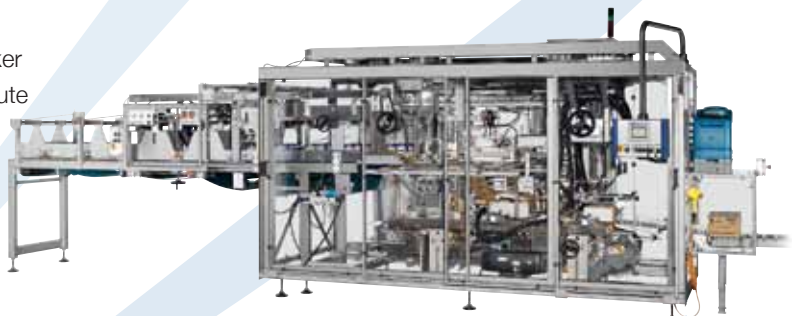
IWS Standard Range

... of Wrap-Around/Tray and Shrink Packers:



INVOPAC

Intermittent Running Case Packer
Output up to 36 cycles per minute



INVOSPEED

Continuous Operating High-Speed Shrink Wrapper
With single or twin lane tray packer module
Output up to 130 packs per minute



Convincing Solutions by Partnership with Customers

Apart from our standard range of the INVOPAC and INVOSPEED packaging machines we are specialized in the design and the realisation of custom made solutions. Depending on the requirements for such custom- and application specific machines, we may use existing concepts or develop new ones in close cooperation with our contractual partners.

For such optimized solutions, long time experience and extensive know-how is compulsory. Also the over-all view and the understanding of all criteria are essential. It's a good thing that we can fall back on sound knowledge of more than 35 years of business history.

Each solution has to satisfy the requirements of the customer and our own demands: efficient, safe, reliable and state of the art.

Gain from our experience. Your satisfaction is our goal – and our challenge.

Company Philosophy

1. The customers and his needs are the focus of our interest. Contractual obligations during design and installation but also after commissioning are professionally handled and carefully fulfilled.
2. We are convinced of our industrial proven products and their performance.
3. We work in accordance with convincing concepts and operate as an efficient team.
4. We always do more than expected and are totally committed to an optimal price/efficiency ratio.
5. We attach great importance to a good work climate and to keep the know-how/expertise gained in more than 35 years of business activities.



Welcome

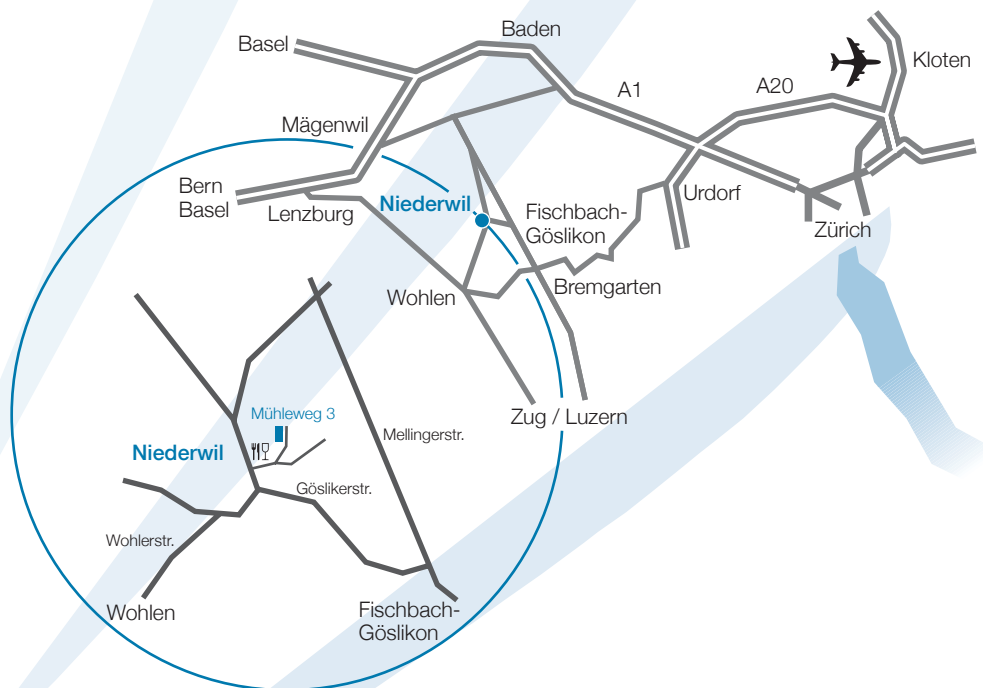
From Zürich or Zürich Airport drive via Mutschellen/Widen to Bremgarten (Aargau) and leave the Bremgarten by pass road at the Shell petrol station in direction Baden/Brugg.

At the end of Fischbach-Göslikon turn left to Niederwil. In Niederwil turn right into the main road. After 100 meter follow the road signs to IWS downhill to the right.

From Bern, Basel or Lucerne drive to Wohlen (Aargau) and follow the road signs to Baden/Brugg. Leave the roundabout at the Catholic Church to Niederwil. After 300 meter turn right again to Niederwil and follow this road for 2.5 km.

At Niederwil stay on the curvy main road and follow after 500 meter the road signs to IWS downhill to the right.

We are pleased to welcome you in Niederwil!



www.involvo.com

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Swiss quality. Swiss made 