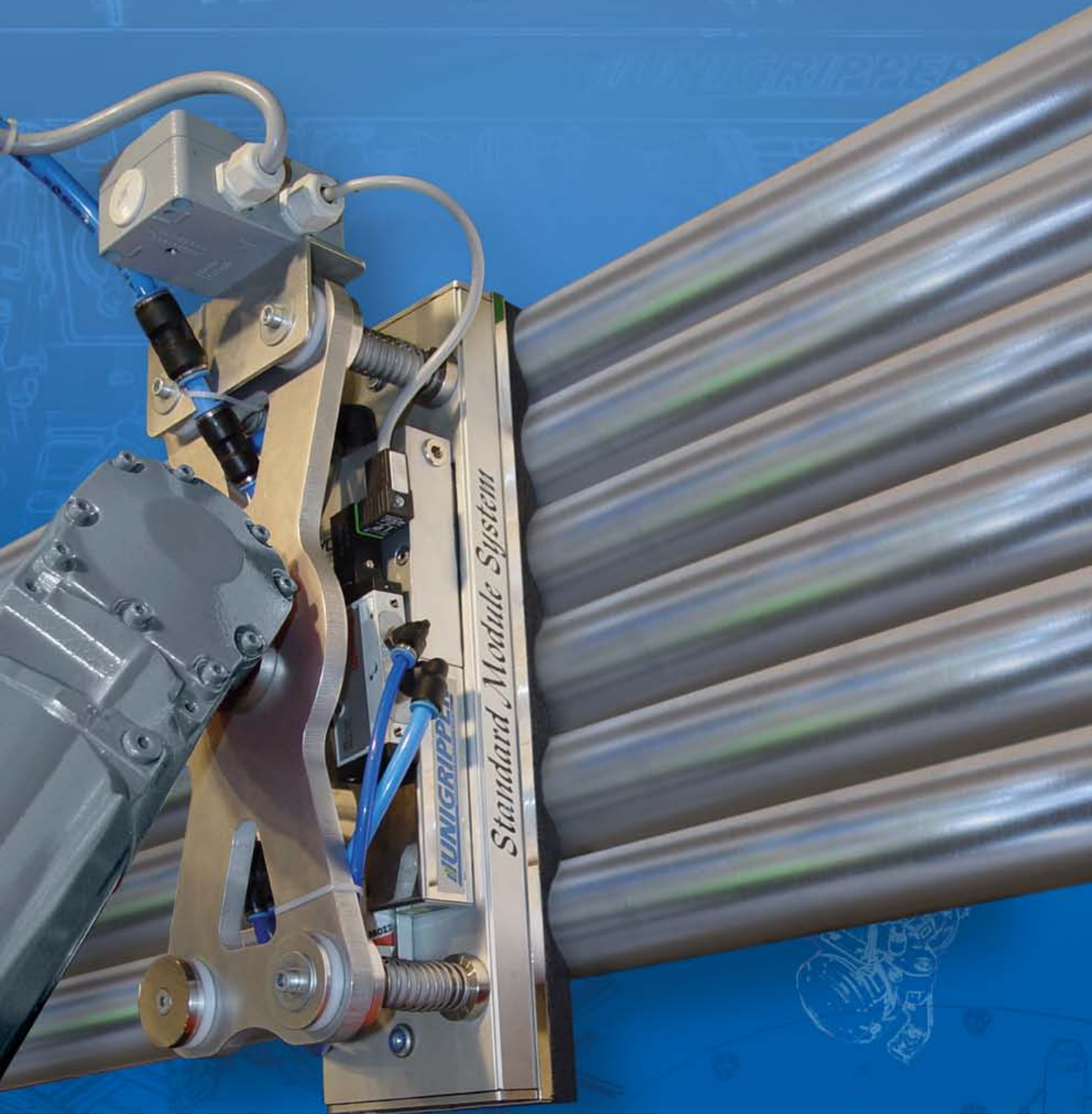


VSP UNIGRIPPER

Intelligent Vacuum



UNIGRIPPER

When Tepro Machine & Pac System launched the UniGripper in 1997, little did we know that it could be used in so many different applications. Today we can see that we have created a new standard in the Material Handling Industry. We believe the UniGripper is the most effective and universal vacuum tool on the market.

Our project engineers have a long and wide experience solving the most difficult applications and use their knowledge to customise the UniGripper to fit your purpose. This adds confidence to your solution and gives you advantage in the marketing position.



The Intelligent Vacuum Tool for material handling

There are a lot of advantages with a multi purpose tool. The UniGripper is using a unique patented technique that automatically sensing the position of the product and activating the lifting force. This patented technique makes it possible to use the same tool for a broad range of products and the UniGripper would most likely replace a wide range of your tools. With the high versatility and reliability of the UniGripper the downtime for service and tool change is kept to a minimum and opening up for the possibility of a higher throughput of your whole system. The UniGripper can be used in semi-automatically equipment even if the most common use is with fully automatically handling equipment as packaging machines, gantries and robotic solutions.

Custom-made for your needs

The UniGripper is designed and produced in the exact size, shape and capacity, to suit your project. When needed the suction area can be divided into sections, so that you can release the load in different steps. This is a very useful function when building pallet-patterns. We have also designed a range of useful standard accessories. This makes the UniGripper even more versatile. To eliminate downtime the whole suction area can, without any special tools, be changed in just a couple of minutes.

Your handling needs, solved...

Since the introduction of UniGripper in 1997 a huge number of applications has been successfully installed.

Application include:

- Packaging
- Jars
- Glasses
- Cans
- Food
- Bricks
- Timber products
- Grocery articles
- Automotive parts
- Consumer goods
- Pharmaceutical goods
- Window and door frames
- Kitchen furniture's
- etc, etc
- Boxes
- Wire coils
- Paper
- Plastic parts
- Bottles
- Bags

Just let us know your needs and we solve it

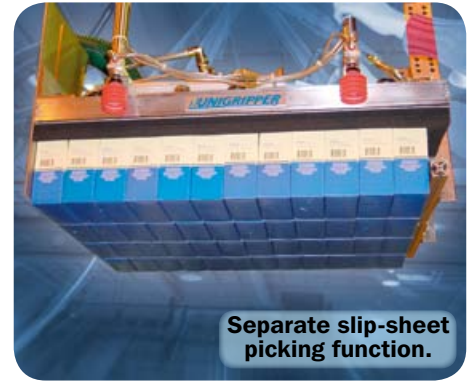
...Intelligent Vacuum



UniGripper for handling of cans, filled or empty, single or shrink wrapped.



UniGripper for handling of packages with loose trays or shrink wrapped.



UniGripper handling cardboard boxes in many different configurations and layer sizes.



UniGripper handling of portion packs of food, packed in open trays.



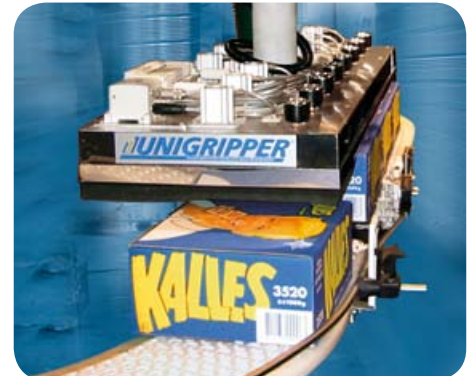
UniGripper LayerGripper handling full layers of heavy cardboard boxes in different sizes.



UniGripper BottleGripper for depalletising and palletising of PET- or glassbottles.



UniGripper for handling of different wooden products.



UniGripper Multichamber for optimized cycle-time and effective palletising.



UniGripper for pick and place handling of biscuits.



UniGripper for handling of single packages in different patterns.



UniGripper for handling of coils in different materials from copper to paper rolls.

UNIGRIPPER *Special*

Customised UniGrippers - our strength. Our project engineers have many years of experience in a wide range of handling applications. This enables us to design and build the most cost-effective solutions!

UniGrippers can be supplied fully integrated, with floating attachments, robot-adapters, sensors, BUS based systems, interface, pneumatics, and electrical and mechanical components.



UniGripper types

UniGripper Classic, one tool for a broad range of products.

Multichamber, divided in controllable zones/chambers. Multiple picking optimizes the cycle-times.

LayerGripper Edition 1 full layer handling tool. Suits all types of product-handling. Side-support is not needed.

LayerGripper Edition 2 with pneumatic operated side-supports from all four sides. Allow handling of difficult packages.

LayerGripper Edition 3 multi-powered layer handling tool for gantry applications, improved with "side skirt-system" and automatic adjustment of support-heights.

LayerGripper Edition 4 multi-powered layer handling tool for robot applications, improved with "side skirt-system" and automatic adjustment of support-heights.

BottleGripper for handling of empty or

filled PET- or glass-bottles. Suitable for quick movements with precision.

CoilGripper for handling of heavy coils. Also available with zoned areas.

WingGripper for mixed palletising. Seven different grip-sizes in the same tool. Integrated power supplies and BUS-system.

TimberGripper, optimized for the tough environment in wood-handling.

Light Weight Gripper custom made grippers with extreme low weight for sensitive applications and quick movements. Integrated power supplies.

BagGripper for handling of bags, especially depalletising.

Other Special Grippers customized solutions based on UniGrippers patented valve technology.

Power Supplies

Electrical side-channel blowers 4-18 kW, with reverse blow units. Sup-

plied with silencers and particle filter.

Vacuum Generators (ejectors) Air powered with reverse blow functions.

Accessories

Rotary Joint-(Swivel) 360° rotation of hose-connection for vacuum.

Robot-adapters for all brands/types.

Floating attachment providing vertical compliance.

Side-supports, moveable or fixed.

Slip-sheet handling, separate system to handle slip-sheets.

Layer level search/detection system.

Separation function of sheets.

Vacuum slide-valves for 50-63-76 and 102 mm hoses.

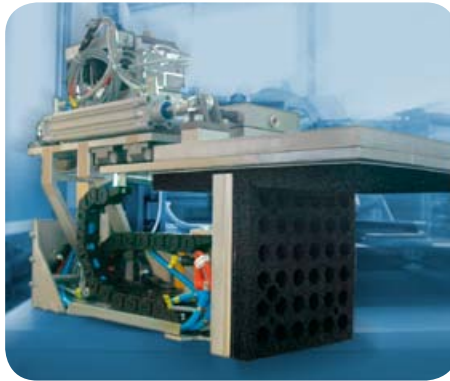
Control systems sensors, pneumatics, cabling, BUS based system etc.

Pallet-hooks, for separate pallet-handling.

...Intelligent Vacuum



UniGripper, foldable for multi purposes.



UniGripper custom built for automatic unloading of parcels from 40-feet containers.



UniGripper equipped with side support for various layer/product sizes.



UniGripper custom built for handling of cheese-strings packages.



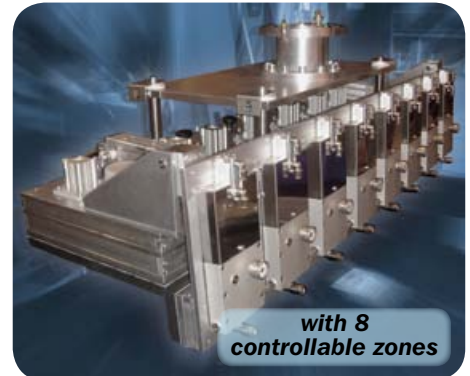
UniGripper for heavy foil rolls with expander for the centre tube.



UniGripper for handling of different cans or jars into autoclave.



UniGripper with 8 controllable zones for effective palletising and pattern build.



UniGripper with foldable side-mounted grippers, for display-boxes with loose tops.



UniGripper customised for handling of brake discs in different shapes and sizes.



UniGripper WingGripper for picking of single SKU's into mixed pallets.



UniGripper with separate SMS-Gripper for the pallet handling.

UNIGRIPPER – SMS

UniGripper SMS – standard vacuum tools!

UniGripper SMS, Standard Module System, is a modular tool-system, with UniGrippers patented valve-system, and due to the compact dimensions, very space-efficient. The width of the standard module is 80 or 120 mm and can easily be increased to double, triple etc. Standard-lengths available with short delivery-time, and customised lengths up to 6000 mm can be supplied.



UniGripper SMS - Your new standard!

UniGripper SMS – Standard Module System

The Standard Module System (SMS) are available in standard-lengths of 30 mm to 1200 mm, and can also be produced in customised lengths up to 6000 mm. SMS are also available with different valve-pitch configurations to suit different product-sizes. Standard Module System (SMS), is supplied either with integrated vacuum

generators, or for connection to an external power supply. SMS is equipped with quick exchangeable Foam carrier, vacuum-indicator and connection for external reverse-blow.

The Vacuum generators (LP30-LP240) of the UniGrippers could easily be power-optimised for your system. This is due to the intelligent design with exchangeable Venturi-units. Reverse blow function is

standard on all vacuum generators. On request a simpler version can be offered without reverse blow cylinder. For external power supply the SMS-grippers are supplied with hose-connections.

UniGripper can also offer a wide range of options like Floating Attachments/Compliants, Robot-adapters, Frame-systems etc. We produce the optimal UniGripper-solution for your needs!



Floating attachment/compliants



Special-tool with 4 SMS-grippers for bread-handling



Tripple-mounted SMS-grippers

– TimberGripper

TimberGripper – optimized for Wood-handling

TimberGripper offers a wide, versatile and reliable solution with high throughput in your system. The robust and solid design makes it well suited for the tough environment in wood-handling. TimberGripper is available in several standard models and is possible to customize if needed.



Rotary joint / Swivel
Vacuum connection



Floating attachment / Compliant
with sensor system



Foam Carrier with
dust-filter system

Reliable solutions

TimberGripper is equipped with an effective dust-protection system and a powerful reverse-blow function.

TimberGripper has the Foam Carrier quick-change system for the suction rubber and is delivered with a complete power-supply package, electrical or pneumatic, and with necessary accessories, as floating attachment, rotary joints etc. We produce the optimal TimberGripper-solution for your needs!



Vacuum generator



Vacuum relief/
over flow valve



High throughput in your system



Robust and flexible applications



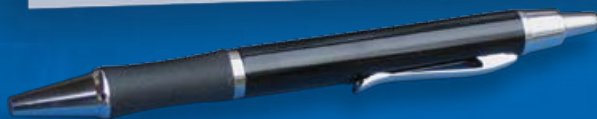
Optimized for Wood-handling!

Your needs → Our solutions!



- ✓ *Moveable or fixed side-support*
- ✓ *Floating attachment*
- ✓ *Sensors / reed-switches / valves*
- ✓ *Zones for effective palletising*
- ✓ *PROFIBUS / DeviceNet / INTERBUS*
- ✓ *EP-converter*
- ✓ *Power supply - Side-channel blower*
- ✓ *Power supply - Vacuum generators (ejectors)*
- ✓ *Reverse blow system*
- ✓ *Rotary joint (swivel) 360° rotation*
- ✓ *Product or layer-level search system*
- ✓ *Sheet-separation system*
- ✓ *Separate picking of slip-sheets*
- ✓ *Product detection*

**We produce the optimal
UniGripper-solution for you!**



www.unigripper.com

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Dealer: