

# **VSP** ***UNIGRIPPER***

The Original Vacuum-Gripper since 1997



Intelligent vacuum  
in motion ...

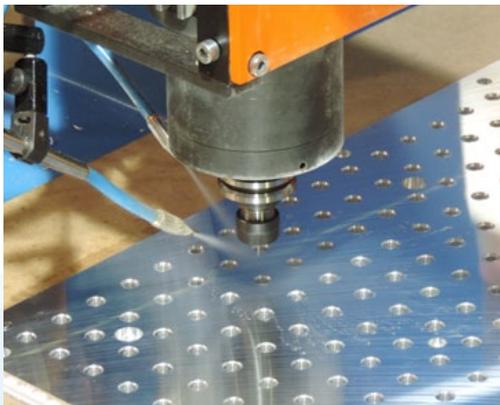
# UniGripper – The Original



## UniGripper – The Strength comes from the Inside

Our biggest asset and advantage over our competitors is the vast knowledge both in the design as well as the production of highly innovative solutions. We have gained this knowledge by being the innovating driving force on the vacuum gripper market, finding new ways to approach any material handling task.

Several years of **In-house** projecting, designing and manufacturing of UniGripper has allowed us to carefully fine tune our patented valve system, making it as customized as every single application for which the UniGripper is built.



For detailed information, please visit our website

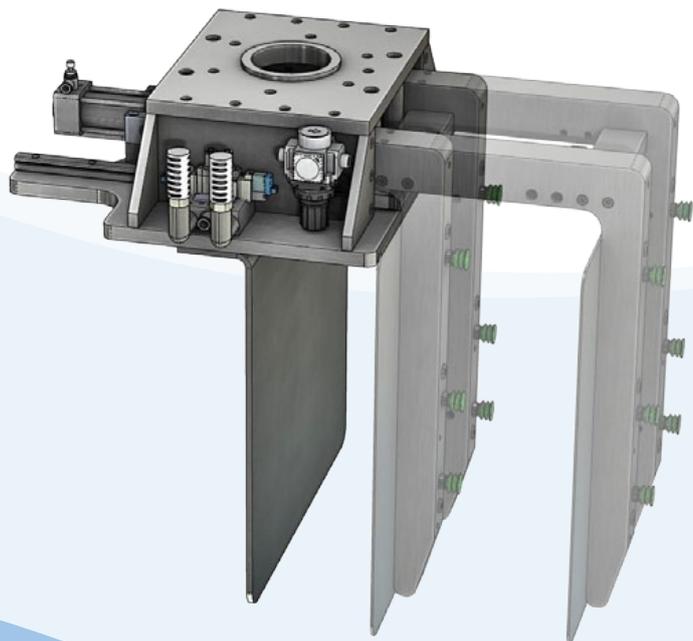
## A Swedish Success Story

*When Tepro Machine & Pac System AB delivered the first UniGrippers in the year 1997, and thereafter released the official UniGripper products to the world market, nobody expected that the technology based on the patented valve technology would be so versatile that we could expand our line of business from picking full layers of open jars to almost any product. We evolved from offering simple tools to supply complete solutions to the most challenging product handling tasks.*



## Intelligent Vacuum

UniGripper, with its patented valve technology, applies the vacuum only on the products to be handled, avoiding unnecessary losses. While others have tried to copy this technology, UniGripper has developed the technology further and further. Even the smallest component of an UniGripper is fully customizable to the customer's need. Together with the several different types of foam, UniGripper is capable of being a total solution provider for EOAT. UniGripper not only delivers vacuum-based tools, but designs and produces as well mechanical solutions, whichever suits best the task to perform.





Maybe the fact that we are located amidst the idyllic Swedish landscape inspires us to constantly strive making UniGripper more and more eco-friendly.

To us, eco-friendly means not only to produce the most energy efficient vacuum grippers, but also that most components come from suppliers located in a minimal radius around our facilities.

This way we keep the CO<sup>2</sup> Footprint as low as possible. And another positive side effect is that we let the local community be part of our success.

When it comes to UniGripper, we are constantly improving our existing components, developing new accessories which ensure that each UniGripper is a state-of-the-art gripper, up-to-date not only in regards for finding the best solution for each project, but also the most efficient.

This is why we developed the EcoCharger, which allows us to significantly save energy by working with smaller power supplies.

**ECO** *Charger*

## Certified Quality

UniGripper Tools are known for being the benchmark, not only in regards to the innovative nature of the solutions found by our qualified technicians, but also because of the high standard of our production and assembly.

Our reputation allows us to produce for the Pharma, Food and Automotive Industry; including FDA regulated environments and even produce silicone free tools.

Our unique modus operandi makes it possible to trace every delivered project throughout its life cycle, from the initial contact and budgetary offer to the final test in our factory.



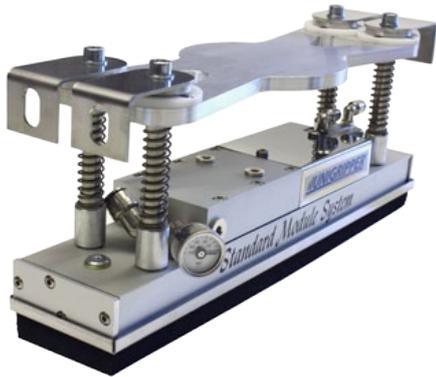
YouTube



Watch videos showing UniGripper in many different applications.

# UniGripper SMS – the Standard

Our standard module system was presented to the market in the beginning of this century as a response to the growing demand of a standard UniGripper. It has the same versatility as the UniGripper Customized as it is based on the same patented valve technology. The SMS Modules can be ordered with pneumatic vacuum generator or prepared for an electric source of vacuum.



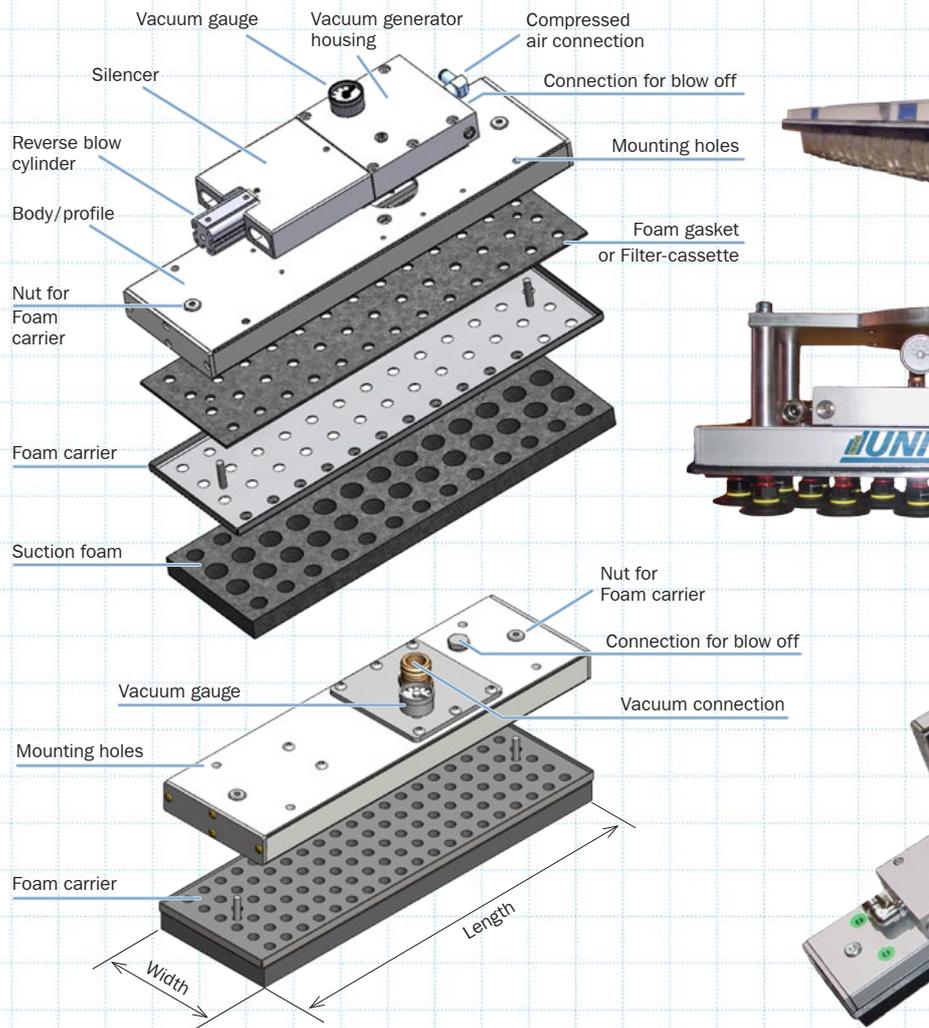
Another advantage is that we have the components of our Standard Module System in stock, ensuring a short lead time for spare parts.



Each UniGripper, and therefore the Standard Module as well, has a foam carrier plate. This ensures short down times during maintenance. In addition, the entire product range counts with a special dust filter as a standard feature, ensuring the longevity of the UniGripper Standard Module



For detailed information, please visit our website



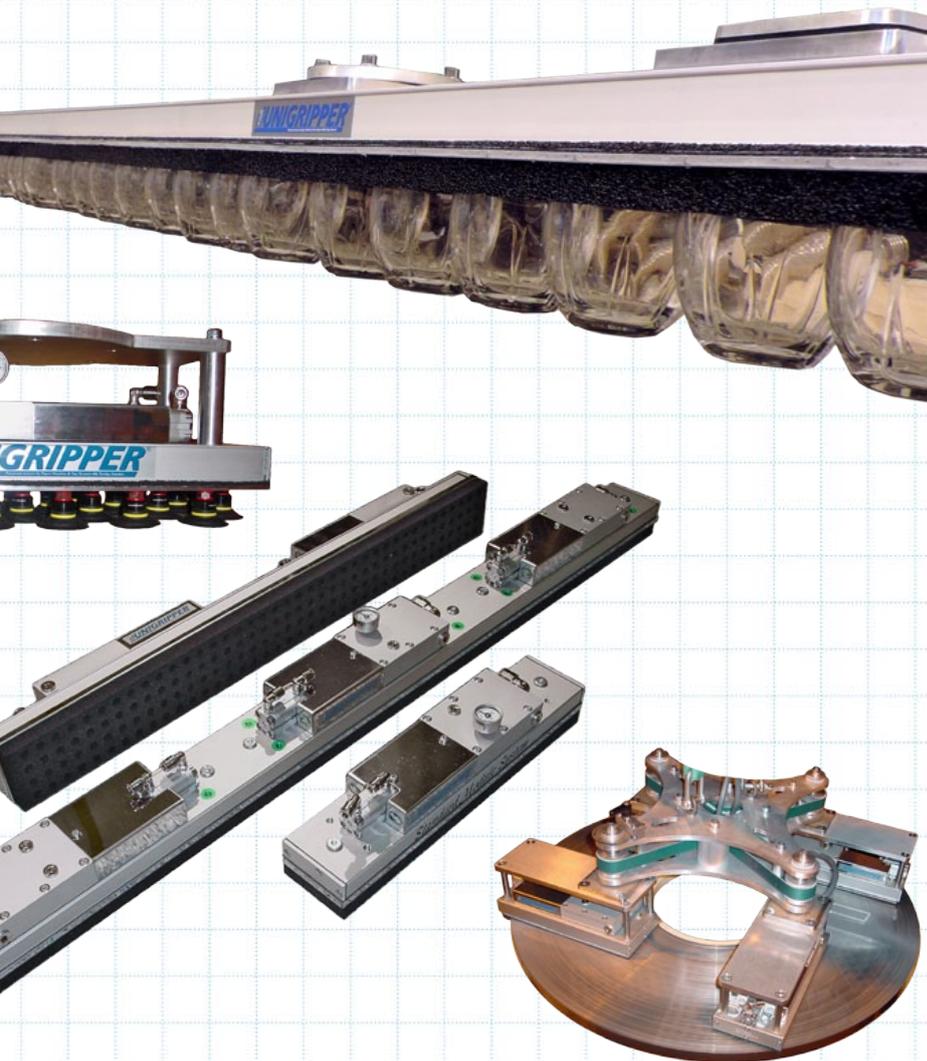
SMS 80 Type number	Article number	Width mm	Length* mm	Foam design	Vacuum generator	Weight kg	Lifting force (N) at vacuum**		Air *** consumption		Foam design SMS 80
							400 mBar	800 mBar	@ 6 bar NL/min	@ 87 psi cfm	
80/200/15.20/20-ER	300200151	86	206	A	Ext.	1,0	88	176	210	7,4	A
80/200/20/20-ER	300200251	86	206	B	Ext.	1,0	138	276	210	7,4	
80/200/30.25/20-ER	300200351	86	206	C	Ext.	1,0	160	320	105	3,7	
80/300/15.20/20-ER	300300151	86	306	A	Ext.	1,4	140	280	315	11,0	B
80/300/20/20-ER	300300251	86	306	B	Ext.	1,4	214	428	210	7,4	
80/300/30.25/20-ER	300300351	86	306	C	Ext.	1,4	267	534	210	7,4	
80/400/15.20/20-ER	300400151	86	406	A	Int.	2,8	200	400	315	11,0	C
80/400/20/20-ER	300400251	86	406	B	Int.	2,8	292	584	315	11,0	
80/400/25.30/20-ER	300400351	86	406	C	Int.	2,8	348	696	210	7,4	
80/600/15.20/20-ER	300600151	86	606	A	Int.	4,5	308	616	525	18,4	A
80/600/20/20-ER	300600251	86	606	B	Int.	3,6	444	888	315	11,0	
80/600/25.30/20-ER	300600351	86	606	C	Int.	3,6	534	1068	210	7,4	
80/800/15.20/20-ER	300800151	86	806	A	Int.	5,6	416	832	630	22,1	B
80/800/20/20-ER	300800251	86	806	B	Int.	5,6	598	1196	525	18,4	
80/800/25.30/20-ER	300800351	86	806	C	Int.	4,7	694	1388	315	11,0	
80/1000/15.20/20-ER	301000151	86	1006	A	Int.	7,5	520	1040	840	29,4	C
80/1000/20/20-ER	301000251	86	1006	B	Int.	6,6	751	1502	630	22,1	
80/1000/25.30/20-ER	301000351	86	1006	C	Int.	5,7	880	1760	315	11,0	
80/1200/15.20/20-ER	301200151	86	1206	A	Int.	8,4	628	1256	945	33,0	A
80/1200/20/20-ER	301200251	86	1206	B	Int.	8,4	903	1806	735	25,7	
80/1200/30.25/20-ER	301200351	86	1206	C	Int.	7,5	1040	2080	420	14,7	
80/1400/15.20/20	301400151	86	1406	A	None	6,6	732	1464	-	-	B
80/1400/20/20	301400251	86	1406	B	None	6,6	1056	2112	-	-	
80/1400/30.25/20	301400351	86	1406	C	None	6,6	1226	2452	-	-	

Vacuum generator: Ext.= External, Int.= integrated.

\* Length: Customised lengths up to 6000 mm can be supplied.

Subject to change without prior notification,

# Tool Concept



The model range of our Standard Module System consists of 48 models, all kept in stock with their respective spare parts. Special lengths of up to 6 meters are available upon request.



Additionally, the Standard Modules are used in many occasions as a side gripper for our classic series.



Even our Standard Module System turns out to be a fully customizable and capable vacuum gripper, both as a stand-alone unit or integrated into other more complex systems.

## SMS type no. explanation

### SMS 120/600/20/20-ER

Standard Module System  
 Width 120 mm  
 Length 600 mm  
 C/C 20 mm between valves  
 20 mm suction foam  
 E – With vacuum generator  
 R – Reverse blow cylinder

SMS 120 Type number	Article number	Width mm	Length* mm	Foam design	Vacuum generator	Weight kg	Lifting force (N) at vacuum**		Air *** consumption		Foam design SMS 120
							400 mBar	800 mBar	@ 6 bar NL/min	@ 87 psi cfm	
120/200/15.20/20-ER	300200111	126	206	D	Ext.	1.3	138	276	315	11,0	D
120/200/20/20-ER	300200211	126	206	E	Ext.	1.3	243	486	210	7,4	
120/200/30/20-ER	300200311	126	206	F	Ext.	1.3	236	472	105	3,7	
120/300/15.20/20-ER	300300111	126	306	D	Ext.	1.9	217	434	420	14,7	E
120/300/20/20-ER	300300211	126	306	E	Ext.	1.9	378	756	315	11,0	
120/300/30/20-ER	300300311	126	306	F	Ext.	1.9	392	784	210	7,4	
120/400/15.20/20-ER	300400111	126	406	D	Int.	3.5	300	600	420	14,7	F
120/400/20/20-ER	300400211	126	406	E	Int.	3.5	514	1028	420	14,7	
120/400/30/20-ER	300400311	126	406	F	Int.	3.5	512	1024	210	7,4	
120/600/15.20/20-ER	300600111	126	606	D	Int.	5.5	456	912	735	25,7	D
120/600/20/20-ER	300600211	126	606	E	Int.	4.5	785	1570	420	14,7	
120/600/30/20-ER	300600311	126	606	F	Int.	4.5	746	1492	315	11,0	
120/800/15.20/20-ER	300800111	126	806	D	Int.	6.8	618	1236	840	29,4	E
120/800/20/20-ER	300800211	126	806	E	Int.	6.8	1050	2100	840	29,4	
120/800/30/20-ER	300800311	126	806	F	Int.	5.8	982	1964	420	14,7	
120/1000/15.20/20-ER	301000111	126	1006	D	Int.	8.0	768	1536	840	29,4	F
120/1000/20/20-ER	301000211	126	1006	E	Int.	8.0	1320	2640	840	29,4	
120/1000/30/20-ER	301000311	126	1006	F	Int.	7.0	1296	2592	420	14,7	
120/1200/15.20/20-ER	301200111	126	1206	D	Int.	11.5	930	1860	1575	55,1	D
120/1200/20/20-ER	301200211	126	1206	E	Int.	10.5	1590	3180	1260	44,1	
120/1200/30/20-ER	301200311	126	1206	F	Int.	9.5	1500	3000	840	29,4	
120/1400/15.20/20	301400110	126	1406	D	None	8.6	1086	2172	-	-	F
120/1400/20/20	301400210	126	1406	E	None	8.6	1858	3716	-	-	
120/1400/30/20	301400310	126	1406	F	None	8.6	1808	3616	-	-	

\*\* Lifting force: Calculated with suction area full covered with a none porous material.

\*\*\* Air consumption: Valid for 100 % gripping-time. In reality the air-consumption is lower.

due to continuous product development.



Watch videos showing UniGripper in many different applications.

# UniGripper Customized

the

The UniGripper Customized is our core business. Being the benchmark in Vacuum Gripping, UniGripper Customized stands for our core values as well. Versatile. Reliable. Customized. Used for palletizing, de-palletizing and even pick and place applications. Able to handle stones, bags, boxes, glasses, cans and many more products



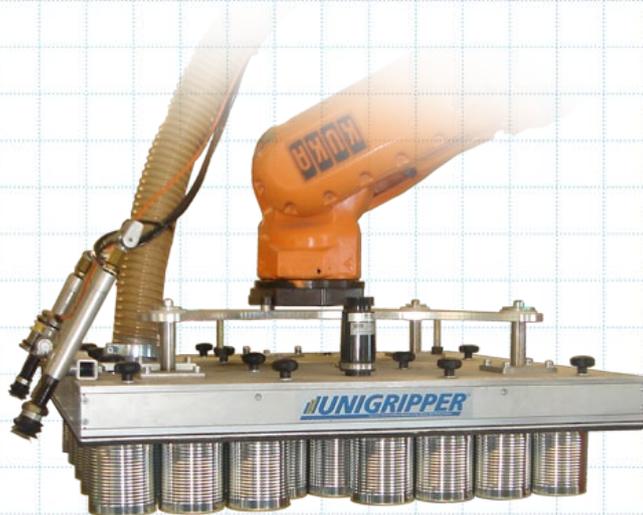
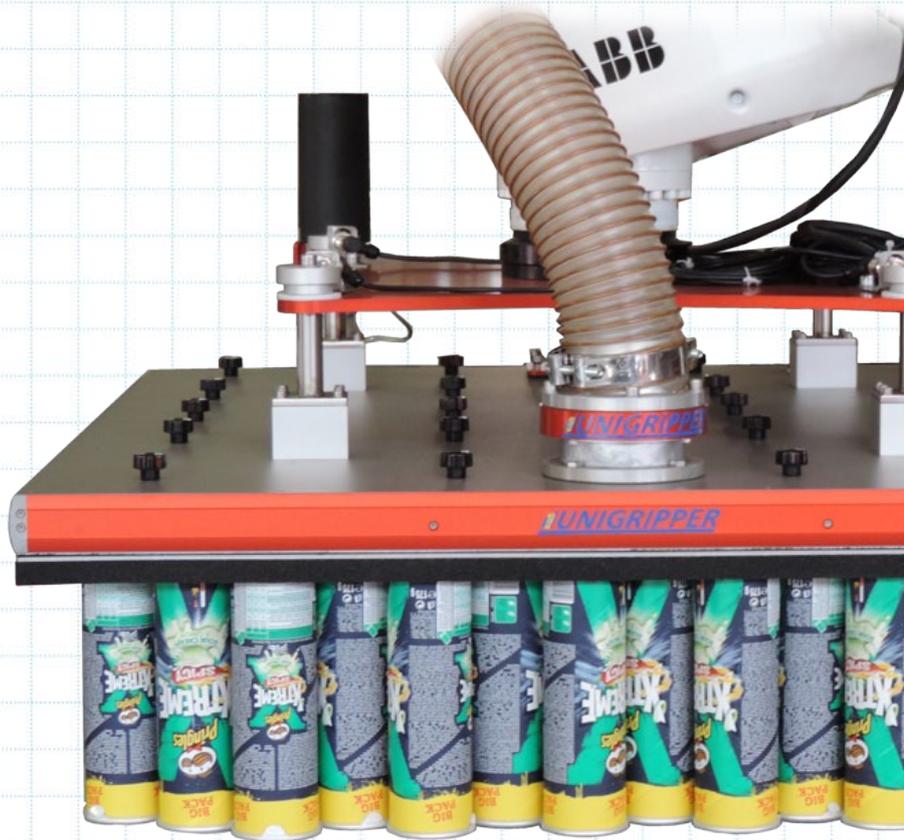
Whether the products are presented in open or closed trays, shrink wrapped or no wrap, whatever the task, there is a UniGripper to outperform your expectations.



100% customized to each project, we build the UniGripper Customized to our well proven standard. The unique patented valve technology allows the Gripper to literally recognize if and where a product is located underneath it, and applies vacuum to the product only.



For detailed information, please visit our website



# Original Vacuum-Gripper



Available in any imaginary size, the build-up of any UniGripper is the same: The top plate, usually including some of the many accessories available, a frame and the valve plate containing the outstanding patented valves.



The main spare part for any UniGripper is the foam. Ease of maintenance is granted as the foam is glued on a foam carrier plate, which enables you to change the foam within matters of minutes.



The foam is available in different thicknesses and types, tailored for different applications, including automotive (silicone free) and FDA regulated environments.

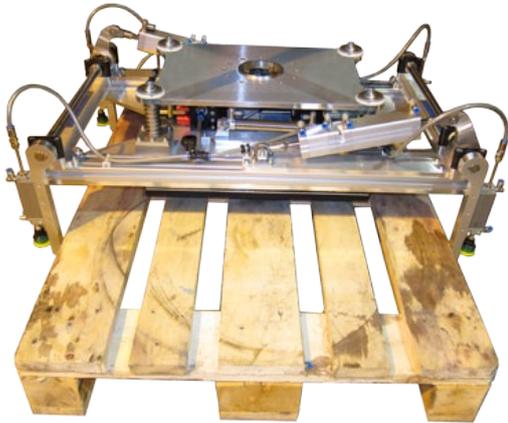


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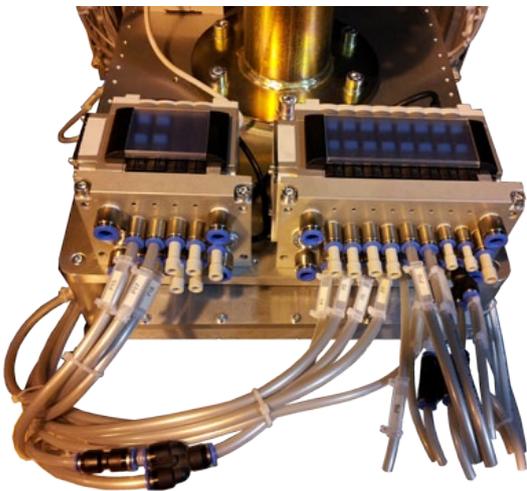
# Many options Available for Optimal

Each UniGripper can be customized according to each task to perform.

From slip sheet picking to pallet handling, from cleaning the products to gluing, there is an accessory available for each task of the UniGripper.



Last but not least we are able to customize every component of the UniGripper, from pneumatics to electrics.



For detailed information, please visit our website

**Exchangeable Foam Carrier Plate**

**Emergency Sensors**

**Pressure Regulator**

**Layer Search Sensor**

**Tilt Function**

**Robot Adapter**

**Valve Terminal**

**Communication Device**

**Mechanical Pallet Search**

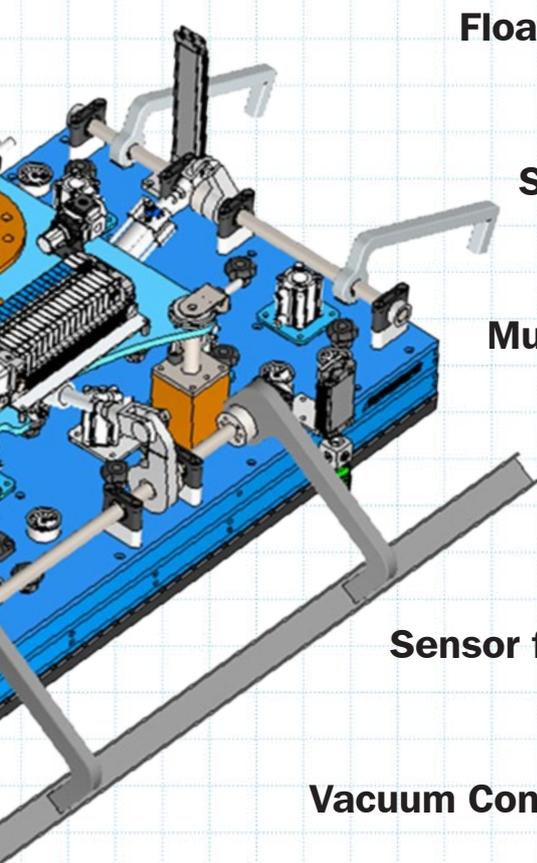
**Separation Function**

*... ask us for a "ready to*

# Tool-performance...



## Product Sensors Through the Gripper



**Floating Attachment**

**Side Clamping Bars**

**Multi-Chamber Version**

**Pallet Hooks**

**Sensor for Gripping Position**

**Vacuum Connection with Swivel**

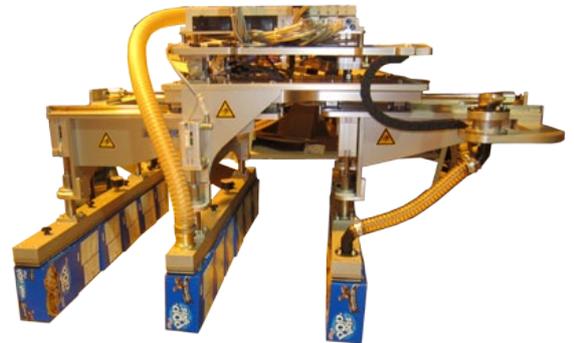
**Air-Knives on Gripper for Drying**

**Slip-Sheet Handling with Suction-Cups**

**Eco-Charging Function**

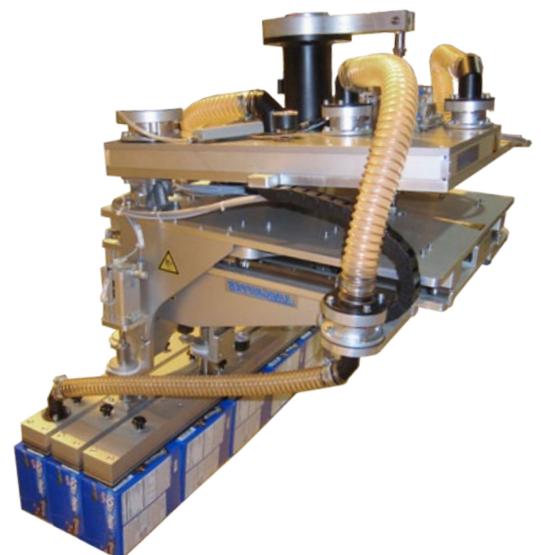
use" tool for your project

The most common tasks to be added to an UniGripper are the pallet and slip sheet handling as well as the division into different pick and release areas.



These divisions allows the UniGripper to pick an entire row of products and place them individually.

The most basic however is the source of vacuum. Either venturi style vacuum generators or side channel blowers are used to create the vacuum. We select the best power supply for each project.



YouTube



Watch videos showing UniGripper in many different applications.

Intelligent Vacuum

# TimberGripper Wood and Furniture

The TimberGripper was developed by Uni-Gripper as an answer for the need of handling wood in rough environments. Equipped with additional dust filters, a specially designed valve system as well as the more enhanced design ensure that the TimberGripper outperforms any competitor on the market.



In wood-working industries such as saw mills, manufacturing facilities and assembly lines, the TimberGripper is the choice to go for when reliability, ease of maintenance and performance are the requirements of a successful operation.

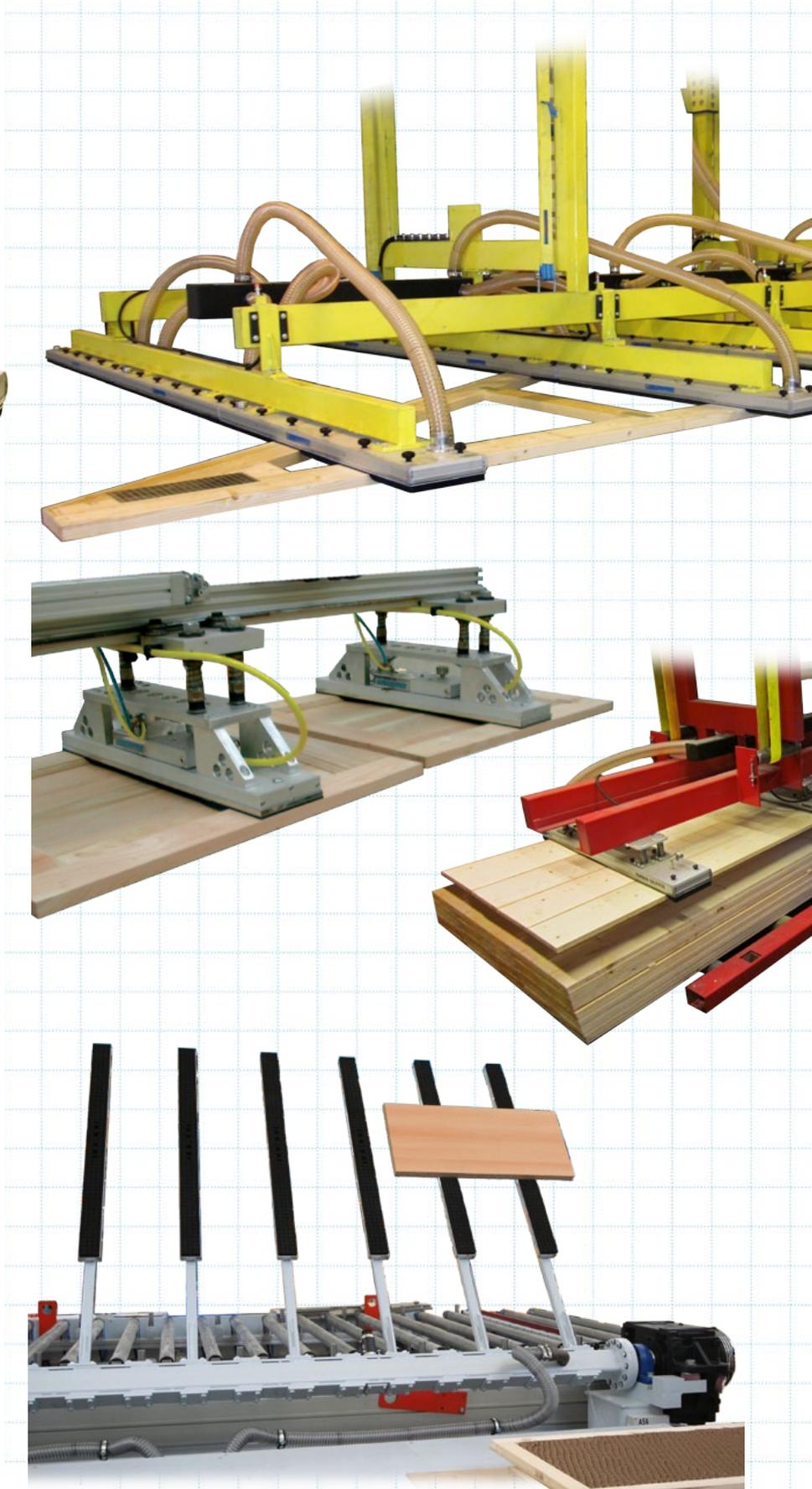


Transferring and handling raw-material to finished products, either our TimberGripper or specially adapted Standard Module Systems can be used.

TimberGrippers can be found around the globe, being the indisputed number 1 in Scandinavia.



For detailed information, please visit our website



# - Handling



The furniture industry is another area where the TimberGripper is used, depending on the amount of dust which is found in the environment.



TimberGripper is also superior in handling materials, with milled out grooves or holes.



Thanks to our valve technology, the UniGripper series is the only vacuum gripper which can be used safely on turning tables.

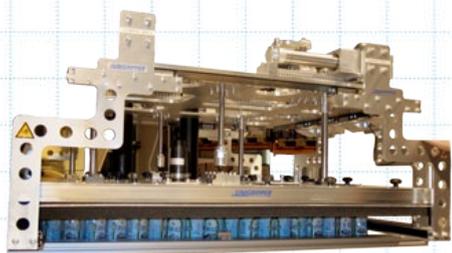
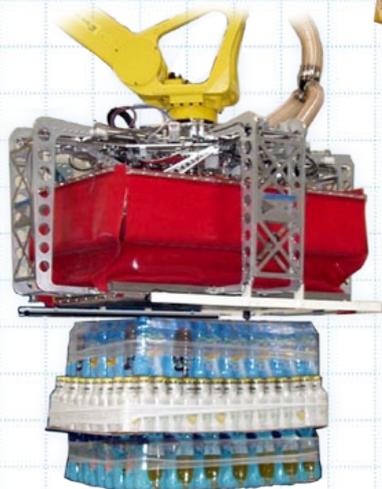
Furthermore the option to move MDF and similar porous sheets avoiding multiple unwanted picks makes us the number one in this branch as well.

Our latest innovation is the spreading function, where the UniGripper is able to separate boards from stack.



Watch videos showing UniGripper in many different applications.

# LayerGripper Full Layer Handling



Transferring entire layers is never an easy task. This is where the UniGripper LayerGripper really stands out and outperforms other solutions.

The LayerGripper is available in several different editions, depending not only on the type of products but also how many different types of products the LayerGripper has to be able to master.



Almost all LayerGrippers are equipped with the floating attachment, and, depending on the products to handle, side clamps with or without side skirts.

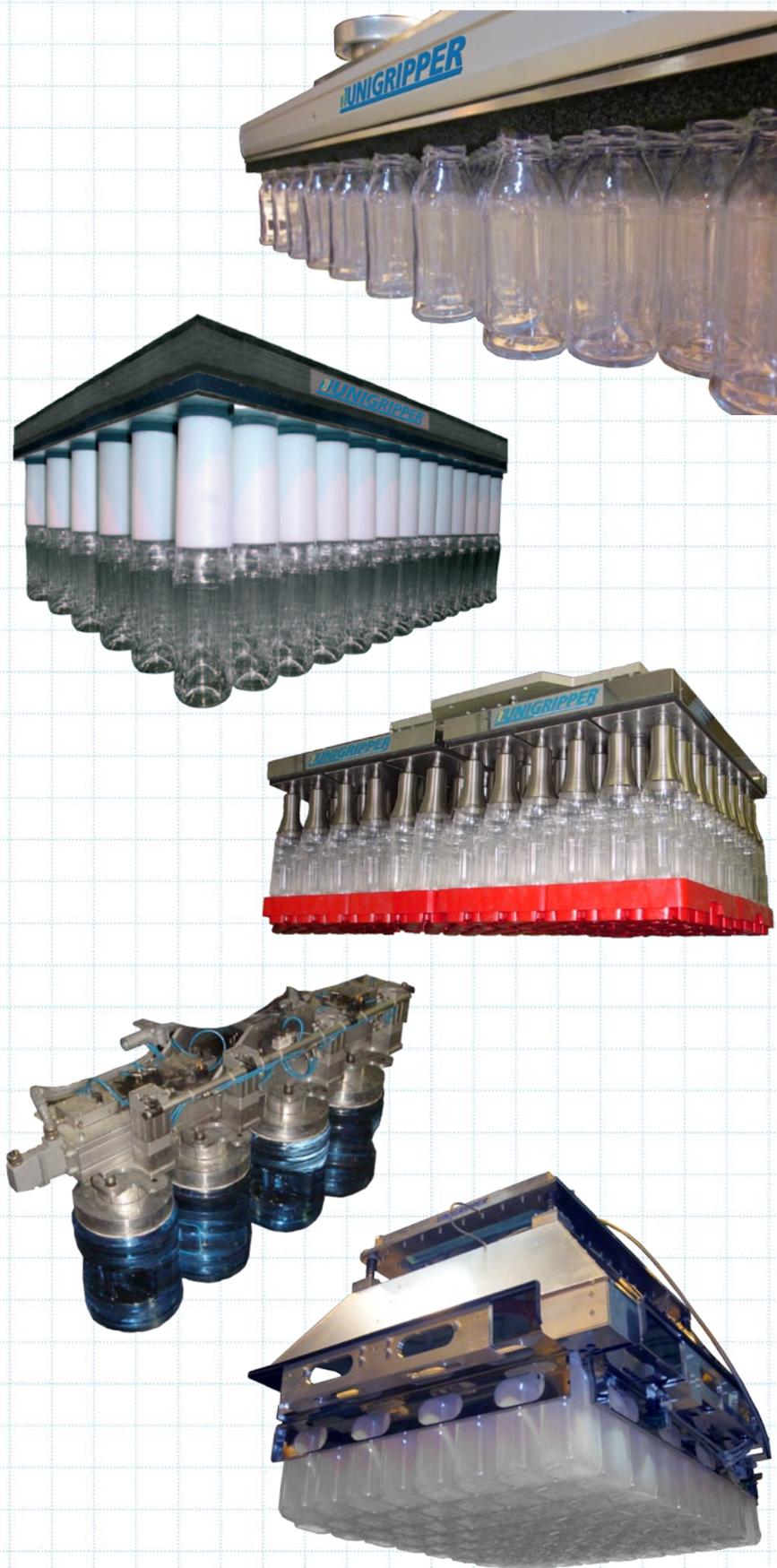


LayerGrippers are available in many pallet sizes, from Euro- to Chep-, from Industrial- to US-Pallets.



For detailed information, please visit our website

# BottleGripper Efficient Handling



Handling empty and full bottles is one of the most challenging processes. UniGrippers answer to the challenge is the BottleGripper. The BottleGripper is available for empty or filled glass- and PET-bottles. We are also able to deliver solutions for FDA regulated environments.



Whether it is one bottle, one row or an entire layer, palletizing or de-palletizing, thanks to the UniGripper solution, the BottleGripper offers the same possibilities as any other of his cousins in the UniGripper product range.



Reliability, strength, ease of maintenance makes the BottleGripper product range the most advanced tool for handling a wide range of bottles.



For detailed information,  
please visit our website

# BagGripper Unequaled Versatility

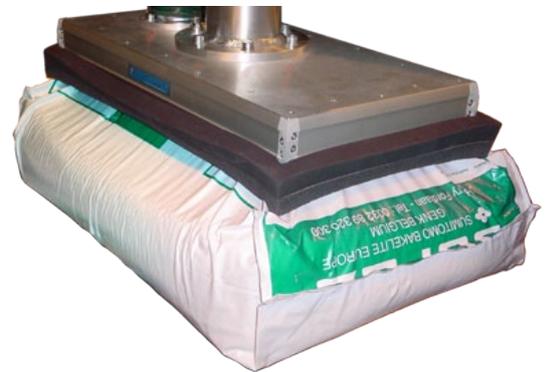


De-palletizing of both big and heavy bags as well as small pouches can be very challenging, and nearly impossible with mechanical clamps.



UniGripper with the BagGripper product range has the rare ability to offer one gripper which can handle both palletizing as well as de-palletizing tasks.

Another area in which the BagGripper is used is in pick and place applications, where the BagGripper is able to safely and efficiently handle small pouches.



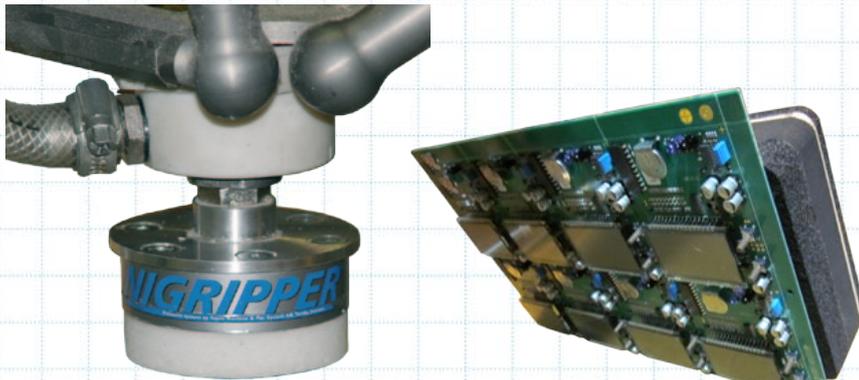
The BagGripper, as any other UniGripper, is particularly maintenance friendly with the foam carrier system.

Additional filters assure that the vacuum sources are protected and the BagGripper can work in dusty environments. In case of corrosive or aggressive residues on the bags, the BagGripper can be anodized.



For detailed information,  
please visit our website

# Special designs Pure Innovation



Due to the vast knowledge of product handling, the trust gained from our customers and delivered quality of existing projects, UniGripper is often approached by customers in need for innovative solutions to their complex and advanced handling projects.



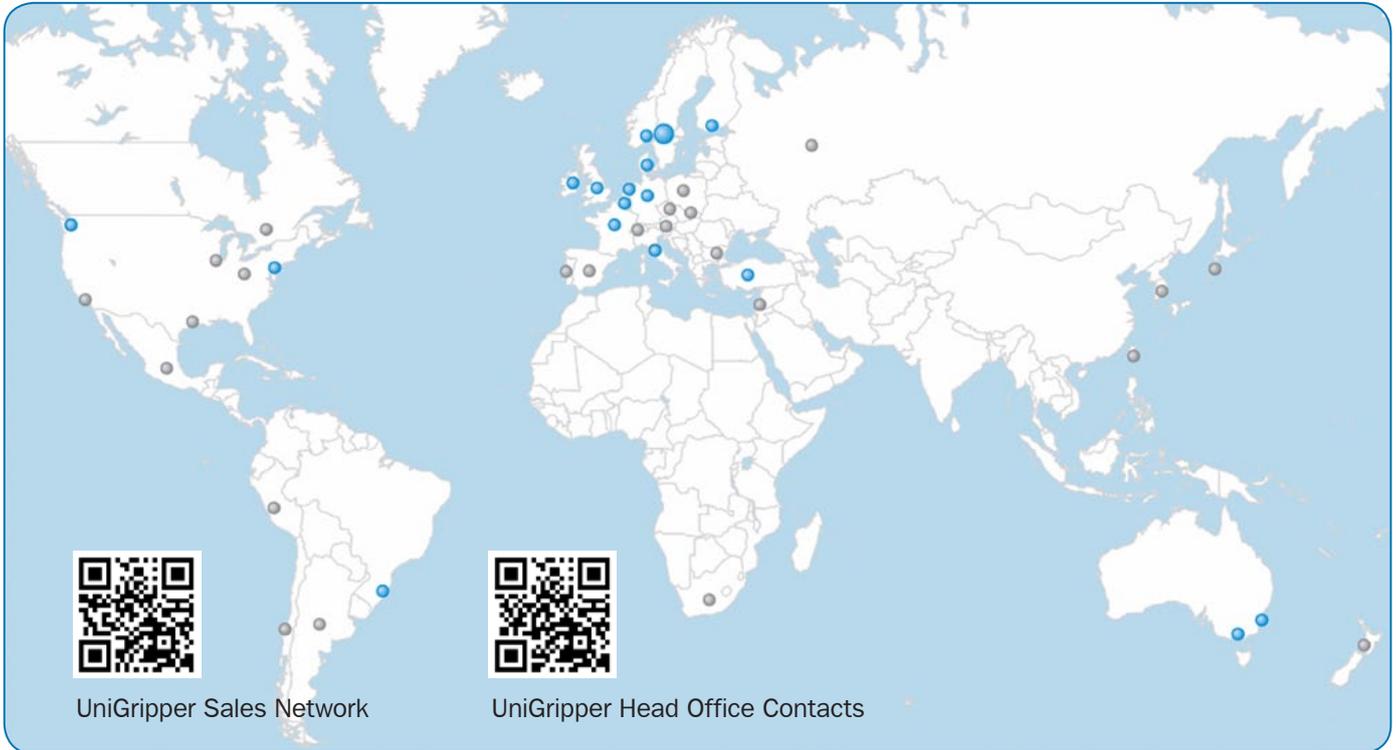
Innovation has a long tradition at UniGripper. Ever since we invented the UniGripper patented valve technology, we have improved and developed it further over the course of the years. This makes us the driving force not only innovating and creating new solutions for the most complex handling projects, but also in generating new technologies for material handling.

Our goal is not only about finding a vacuum gripper solution for our customers. We strive to find the total solution for our customer, both in quality and efficiency. Whether it is vacuum or a combination of different types of product handling solution, UniGripper is the one stop shop for your handling needs.



For detailed information, please visit our website

# **UNIGRIPPER**



## Connect with us...

Connect with us and follow UniGripper online through our social media channels, newsfeeds, photos, videos and more.



See UniGripper live in action on YouTube and be inspired for your applications.



Become a fan on Facebook to get quick updates about our company and products.



Follow us on LinkedIn for the latest insights in vacuum gripping innovation.



Visit our website for the latest news and detailed information about our entire product range.

Dealer:



UniGripper is manufactured by Tepro Machine & Pac System AB  
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Phone +46(0)560 27270, Fax +46(0)560 13536  
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