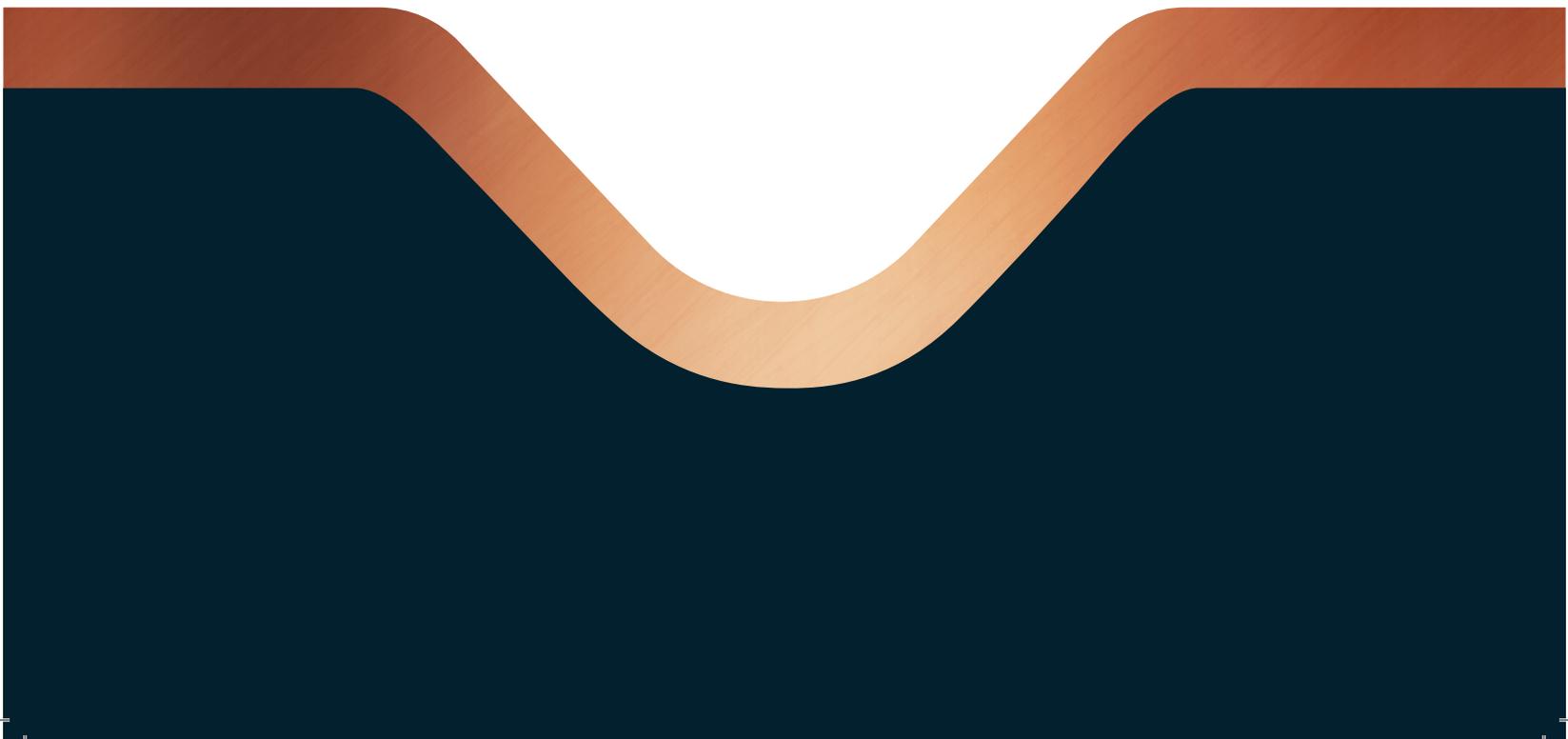




**VASKI**

**CREATING EFFICIENCY**

The next era of industrial manufacturing





# CREATING EFFICIENCY

## ABOUT US

Vaski delivers machinery and automation solutions designed to create efficiency for the future. Our solutions aim to redefine through simplification the rules of industrial manufacturing. Our passion for excellence can be found in every machine we design.

A key market and focus for us is providing busbar solutions. The fast global expansion of modern electric power infrastructure generates an unseen demand for more flexible and efficient solutions.

Furthermore, our expertise in automation allows us to design customised machinery that modernises material handling processes.

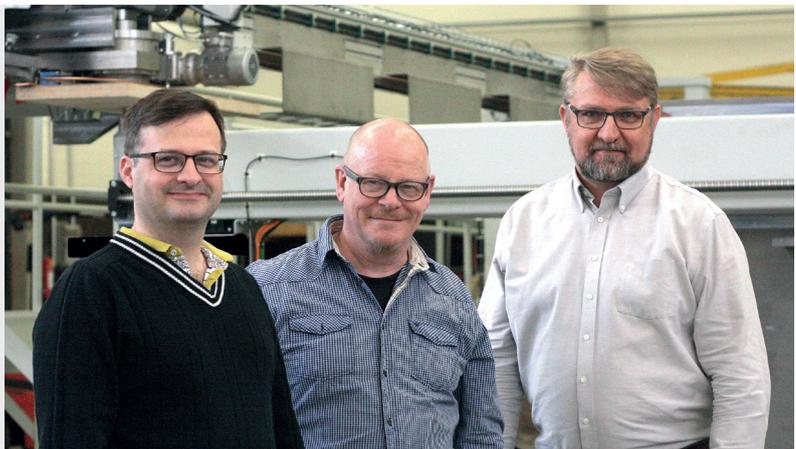
We enable our customers to save money and the environment with an all electric machine portfolio, reducing energy consumption by up to 90% and reducing maintenance time and cost by an average of 50%. Combined with progressive robotisation and high production speed, we aim to simplify every step of production.

Vaski creates partnerships for life and is committed to making your life as a manufacturer easier. We design machines that are flexible and high quality solutions for decades to come. We measure our success in watching you enter the next era of production.

**The all-electric solutions have proven to reduce energy consumption by up to 90%.**

### 3 BUSINESS PARTNERS

From left to right, Michael Mansour is Executive Chairman of Rodstein Oy and manages day to day operations, Rauno Lahtinen is the Technical Director and master inventor, while Veikko Moilanen is Managing Director and manages the front end of the business.



# OUR HISTORY AND PEOPLE



## Rodstein Oy is founded

Founded by Veikko Moilanen and El Taito, a Lahtinen family company. In the formative years the business was busy engineering new products.

## Rashmi Ltd invest

Michael Mansour invests in Rodstein, eventually a majority shareholder, he introduces a high growth strategy drawing on significant experience in machine tools.



## Rodfine launch

Simple to use, entry level machine unique on the market for deburring busbar using milling technology.

## Vaski Coil launch

Vaski come to the market with a first of a kind flat bar coiling solution for power generation industries.

2015



2017

2018

2019

2020

## Rodstein acquires Lahtisen Kone

Lahtisen Kone built the first generation punching and bending busbar machines in 1997.

Lahtisen Kone, the pioneer of all electric busbar machinery in 2007, remains the only available all electric busbar solution.

## Rodstein launch busbar machines

Rodstein launches all electric range of machines with new and unique features such as automatic tool change and vision systems.

Rodstein sells first machine to Esla Oy.

## Veikko Moilanen becomes Managing director

Veikko Moilanen joins the company as a full time Managing Director to drive growth in the business forward.

## HWJ AG acquired

HWJ AG, a Swiss business with a reputation for manufacturing high quality cut to length and slitting machines, is acquired by Rodstein.

## Vaski brand is formed



## VASKI PEOPLE

Vaski, a rapidly growing family company, creates value through close customer relationships, supporting, listening and advising. The key to the strength is a great collection of people and our highly experienced engineering team who love creating innovative new products. Our people are both the source of growth and what makes Vaski great – through their dedication, drive and willingness to go the extra mile.





## VASKIPUNCH SERIES



Energy efficient



Fast set-up



Versatile capacity



Low maintenance

## PRODUCTIVITY FEATURES

- State of the art, easy to use touchscreen operator interface.
- Servo-electric ram force easily punches 20 mm materials (Cu, Al).
- Exceptional energy saving up to 90% lower consumption vs comparable hydraulic machines.
- Servos reduce downtime and maintenance by more than 50% vs competing technologies.
- Customisable tool magazine, up to 27 tools with Multi Tool technology.
- Thick Turret and extended Thick Turret tools can be included in single magazine set-up.
- VaskiFEED loading device for automation; optional unmanned operation available for small batches of alternating materials.
- Unlimited component length with fast repositioning.



## VERSATILE SERVO-ELECTRIC FLAT BAR PUNCHING CAPACITY

# VASKIPUNCH SERIES

The **VaskiPUNCH** machine family is the world's only all electric, high speed machine with exceptional energy consumption and reliability.

Complemented by the most versatile flexible tooling system on the market, it achieves maximum cost efficiency that is a necessity with the ever changing demands of today's market.

The machines accommodate Thick Turret, extended Thick Turret and multiple styles in the magazine at the same time. With several options for automated storage and loading solutions ensures customers can optimise their production even with frequently changing product specifications.

Flexibility of interchangeable tooling magazines maximises uptime by allowing out of machine tool changeover.

**World's only flat bar all electric punch**

Large, versatile tooling capacity and easy and fast setups combined with a range of flexible automation options are further factors in making the VASKI punch family the most competitive LEAN manufacturing solution for flat bar processing.

Visit [Vaski.com](https://www.vaski.com) for further details

# VASKIPUNCH

## INSPIRATION



## SPECIFICATIONS

Type	PUNCH PRODIGY	PUNCH INSPIRATION	PUNCH LEGACY
Punching force	300 kN	300 or 400 kN	550 kN
Punching system	Electric	Servo-electric	Servo-electric
Punching stroke	Up to 100 hit / min	Up to 250 hit / min	Up to 285 hit / min
Feeding speed	N/A - Manual feeding	Up to 1,7 m/s	Up to 2,2 m/s
Feeding acceleration	N/A - Manual feeding	Up to 6 m/s <sup>2</sup>	Up to 8 m/s <sup>2</sup>

### Feeding length

Without repositioning	2 175 mm	1 250 mm	1 250 mm
With repositioning	N/A	Unlimited	Unlimited
Accuracy	0,1mm / 1,000mm	0,1 mm / 1,000 mm	0,1 mm / 1,000 mm
Tooling capacity	5 C - size Thick Turret	21 B-size Thick Turret	27 B-size Thick Turret*
Tool change mechanism	Manual	Automatic	Automatic

### Flat bar dimensions

Width	15 – 200 mm	15 – 200 mm	15 – 260 mm
Thickness	3 – 12,5 mm	3 – 12,5 mm	3 – 20 mm
Length (standard)	50 – 4 000 mm • increased length available as an option	50 – 4 000 mm • increased length available as an option	50 – 4 000 mm • increased length available as an option

\* As an option, tooling can include Extended Thick Turret and other tooling/holder systems. Please do not hesitate to request your preferred tooling requirements.



## VASKIBEND SERIES



Flexible customisation



Automatic angle verification



Energy efficient



Low maintenance

## VASKIBEND

### PRODIGY



## PRODUCTIVITY FEATURES

- State of the art, easy to use touchscreen operator interface.
- Automatic bending angle verification and correction based on machine HD vision systems.
- Energy efficiency.
- Low maintenance.
- Flexibly customisable tool turret.
- Automated tool change for greater productivity.
- Optional integration to punch and finishing machines to allow fully automatic lines.

## THE NEXT LEVEL IN BENDING PRODUCTIVITY

# VASKIBEND SERIES

The **VaskiBEND** family is an energy efficient, highly accurate bending solution which like all Vaski machines is all electric.

The machine was developed with superb part quality and production efficiency in mind, while its modular concept allows a wide range of automation alternatives, thus enabling the flexibility required to meet the most diverse and specific needs.

For fast setup changes, the new VaskiBEND Legacy machine is the world's unique machine with automatic

tool change, significantly enhancing overall flat bar processing productivity and safety.

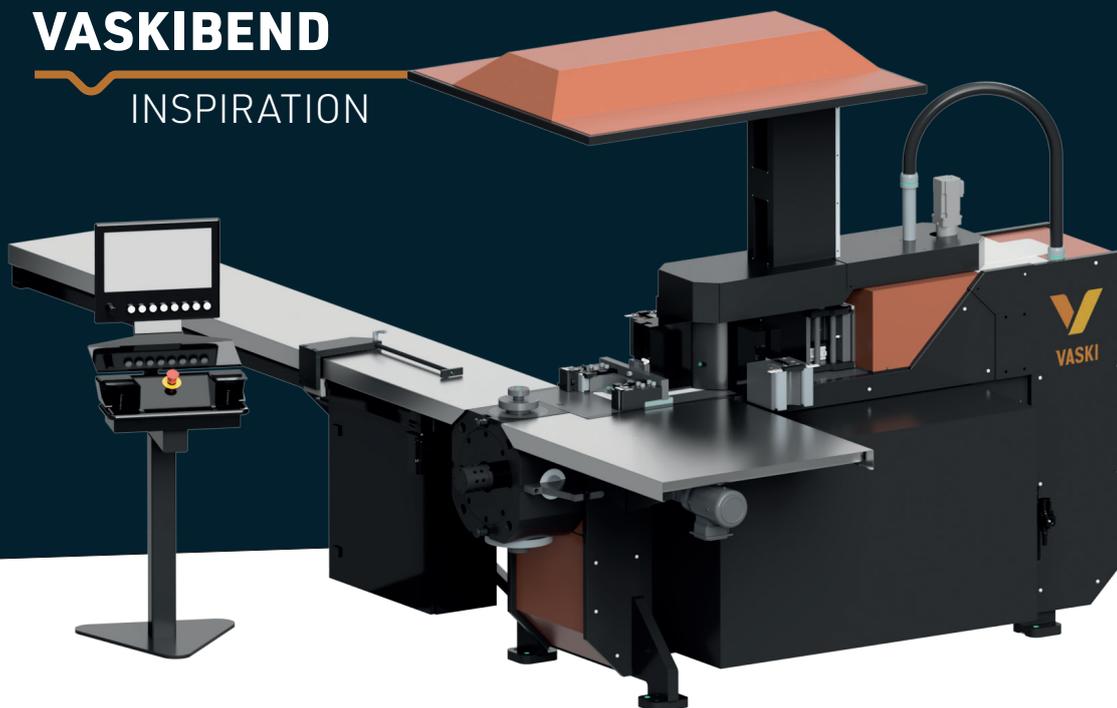
### World's only flat bar bender with automatic tool change

The unique HD vision system ensures the best quality bend every time with automatic angle correction features ensuring the perfect bend for your needs.

Visit [Vaski.com](https://www.vaski.com) for further details

# VASKIBEND

## INSPIRATION



## SPECIFICATIONS

Type	BEND PRODIGY	BEND INSPIRATION	BEND LEGACY
Bending force	200 kN	200 or 400 kN	
Bending system	Servo-electric	Servo-electric	
Positioning gauge	Electric	Servo-electric	
Tool change system	Manual	4 tool automatic option	
<b>Flat bar dimensions</b>			
Normal <sup>+</sup>			
Width	15 - 200 mm	15 - 260 mm	
Thickness	3 - 16 mm	3 - 20 mm	
Edgewise <sup>*</sup>			
Width	Up to 100 mm	Up to 120 mm	
Thickness	Up to 10 mm	Up to 10 mm	
<b>Performance</b>			
Positioning speed	20 mm/s	20 mm/s	
Bending speed	10 mm/s	10 mm/s	
Feeding acceleration	8 m/s <sup>2</sup>	8 m/s <sup>2</sup>	
Accuracy	±0.3°	±0.3°	
Tooling capacity max.	1	Up to 4	

Awesome, powerful, new machine Coming soon

<sup>\*</sup> Width and thickness maximum values may not be reached at same time.



## VASKISHAPE SERIES



Small footprint



Easy to use



Safe to operate



Consistent quality



## VASKISHAPE PRODIGY

## PRODUCTIVITY FEATURES

- Very simple to operate.
- Automation option.
- Consistent part quality.
- Fast cycle time.
- Small footprint.
- Easy to replace tool.
- Easy access to the machine.
- Safe to use, eliminating grinding belts and other deburring solutions.
- Dust extraction option.

## FINISHING MADE EASY

# VASKISHAPE SERIES

The **VaskiSHAPE** finishing family is an energy efficient, high accuracy flat and round bar end finishing solution, that will increase your bar part quality. The machine combines high production rates with consistent quality.

The VaskiSHAPE is the first solution to eliminate the safety issues caused by sanding belts and other deburring solutions.

VaskiSHAPE is exceptionally simple to operate. The small footprint saves space and enables convenient placing next to the punching machine.

Greater automation is always possible through connection to the punch.

When operating a VaskiSHAPE, opera-

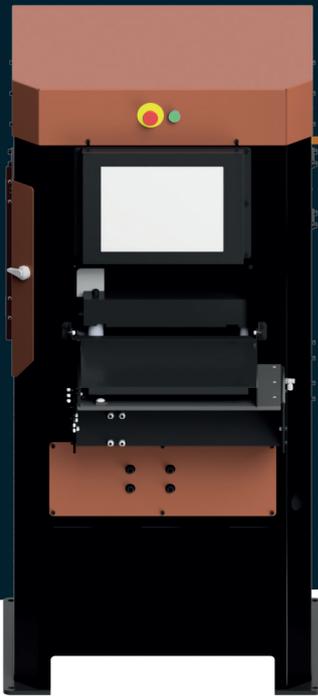
tors only need to provide bar dimensions on the touchscreen panel and the machine takes care of the rest.

**VaskiSHAPE is  
for safe use and  
consistent quality**

There is a measuring unit option to automatically detect bar dimensions and generate exact toolpaths, eliminating the potential of coding errors.

Each machine of the VaskiSHAPE family features automatic part clamping, saving operator time that can be used to prepare the next part to be processed.

Visit [Vaski.com](https://www.vaski.com) for further details



**VASKISHAPE**  
INSPIRATION



**VASKISHAPE**  
LEGACY

## SPECIFICATIONS

Type	SHAPE PRODIGY	SHAPE INSPIRATION	SHAPE LEGACY
Milling motor power	4,5 kW	4,5 kW	4,5 kW
CNC controlled servo axes	2	3	3
Loading/unloading	Manual	Manual	Fully automatic
Work cycle	Automatic	Automatic	Automatic
Automatic bar dimension detection	Optional	Optional	Optional
<b>Bar dimensions</b>			
Width	15-260 mm	15-260 mm	15-260 mm
Thickness/diameter	3-20 mm	3-20 mm	3-20 mm
<b>Performance</b>			
Machining max speed	67 mm/s	67 mm/s	67 mm/s
Spindle speed	0-18 000 rpm	0-18 000 rpm	0-18 000 rpm



**Beautiful end finishing  
with the VaskiSHAPE**



## VASKICOIL SERIES



Easy to use



Consistent quality



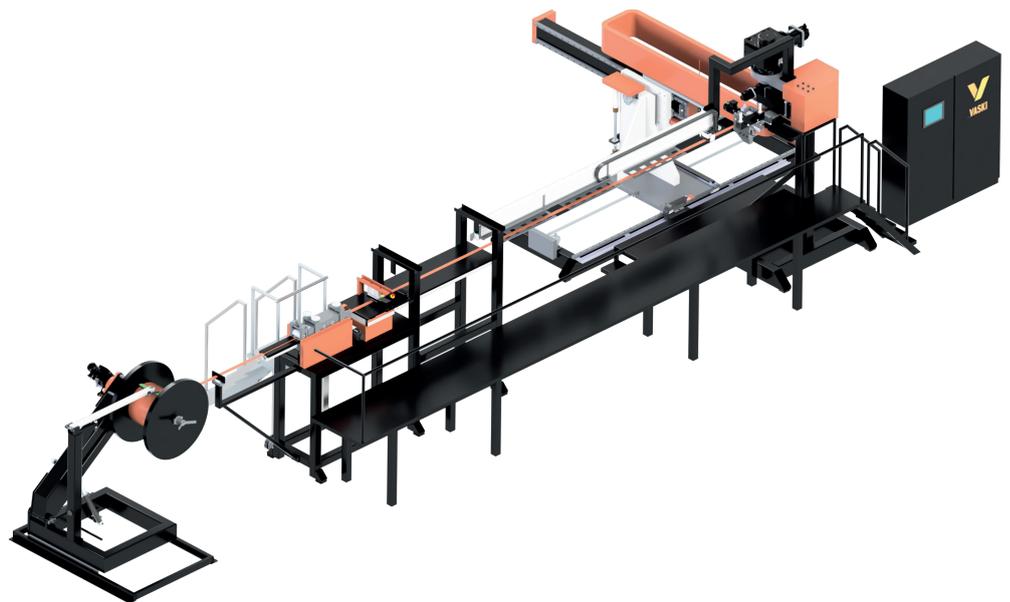
Labour efficiency



Material efficiency



Fast process



### Machine performance

Material feed rate 10 m/min

Number of NC axes 7

### Material specifications

Coil reel maximum weight 3 tonnes

Extrusion thickness 4-8 mm

Extrusion width 25-80 mm

### Finished coil specifications

Coil maximum weight 1 tonne

Coil height up to 400 mm

Coil width (internal dimension) up to 530 mm

Coil length (internal dimension) up to 3200 mm

## THE COILING REVOLUTION

# VASKICOIL LEGACY

The VaskiCOIL machine is a highly productive generator coil manufacturing machine. It is the first machine in this category to be offered on the market today – existing solution providers recommend brazing.

VaskiCOIL makes a big step forward in the production of generator coils, reducing copper coil production time by as much as 95% compared to traditional brazing technologies. VaskiCOIL also creates material savings by eliminating the use of silver during brazing.

By eliminating the brazing require-

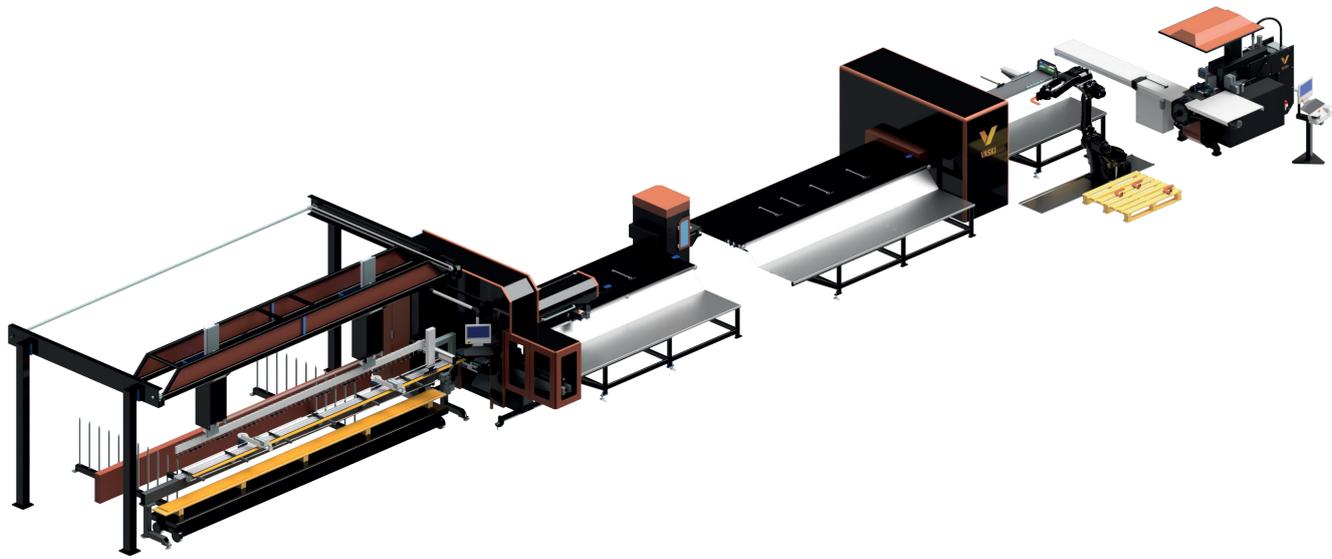
ments the VaskiCOIL also allows stronger coils and extends life of the coil.

### VaskiCOIL reinvents coil production

Vaski really takes production of generator coils to the next level with a machine that improves almost every operational metric for our customers.

This machine epitomises the vision of Vaski – Creating Efficiency!

Visit [Vaski.com](https://www.vaski.com) for further details



## MAKING BAR EASY AUTOMATION SOLUTIONS

Vaski offer a variety of storage solutions – we are flexible enough to realise the right solution for your factory, at your side all the way whether building you a new solution or connecting to existing storage solutions you have with our options for fully automated loading systems.

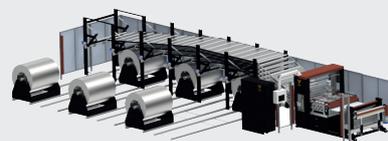
Vaski produce fully automated lines

Furthermore, Vaski produce fully automated lines and can combine any of storage, punching, end finishing, surface

deburring, tapping, cutting and bending in a single, fully automated flexible cell, allowing you to load raw material and unload neatly stacked, high quality, palletised parts. We understand that there is no one size fits all solution and so Vaski will always work with you to realise your ideal configuration.

## EVEN MORE GREAT PRODUCTS

Vaski has 2 other core product groups, offering a variety of sheet metal solutions as well as offering custom machinery. Our customer centric approach and superb build quality means our customers keep coming back for more. Vaski boasts exceptional customer retention already now.



### Sheet metal solutions

Vaski also offers automation for the sheet metal industry, renowned for quality. Our expertise in coiling extends to cut to length, slitting and recoiling lines. We introduce our solution to create efficiency for sheet metal users.



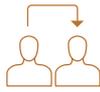
### Custom automation

Vaski offers customised machines, material handling and automation solutions for a wide variety of applications. Vaski is always available to support your factory requirements. We take pride in making your automation ideas real and strive for the highest quality and productivity.

## SUPPORTING YOUR REQUIREMENTS



**Service** Emergency interventions to maintenance contracts for Vaski machines or other brands – from preventive to full care, ask for a quote today



**Consultancy and training** Whether it is support on your specific applications or training for operating, maintenance or programming – we are ready to support you



**Tooling and consumables** Ask our spare parts experts. With a wide range of available tooling and possibilities to customise tooling



**Spares** Meeting all your spare parts requirements whether for our machines or even hard to source parts for other brands, we will support you at every step



**Upgrades** From full machine overhauls, to control or software upgrades, we are here to bring life back to your old machines whether for our brands or other brands



**Remote support** Vaski is always available and can support remotely both by telephone or with a suite of remote care support tools, call us with your requirements

# UNLIMITED POSSIBILITIES

## YOUR PARTNER AT EVERY STEP

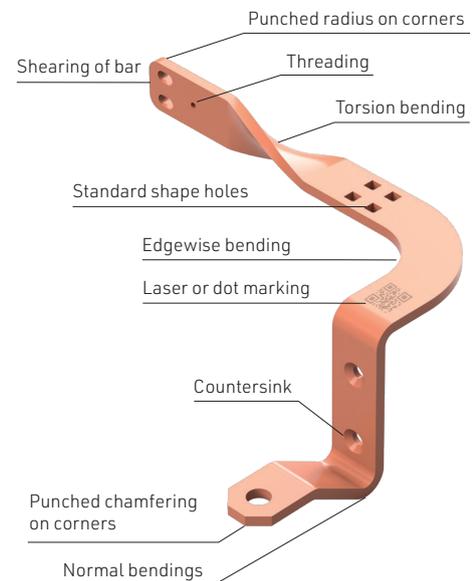
**Vaski** is your partner in every step of your production lifecycle. We originated and remain a key automation partner to a variety of industries also outside of flat bar solutions.

It is from this beginning and with a relentless focus on automation, efficiency and our customer applications and needs that enabled us to produce top quality, exceptionally innovative yet very practical automation and machinery solutions.

[www.vaski.com](http://www.vaski.com)

**We are happy** to partner you either in long product machinery (not limited to flat bar and busbar products), retrofits or alternatively in building customised automation and machines as your requirements dictate.

We always appreciate invitations for our experts to review your production processes to see how we can work together to take your production to the next level.



Passion for excellence. Partnership for a lifetime.

**Rodstein Oy** Seinäjoki, Finland

