

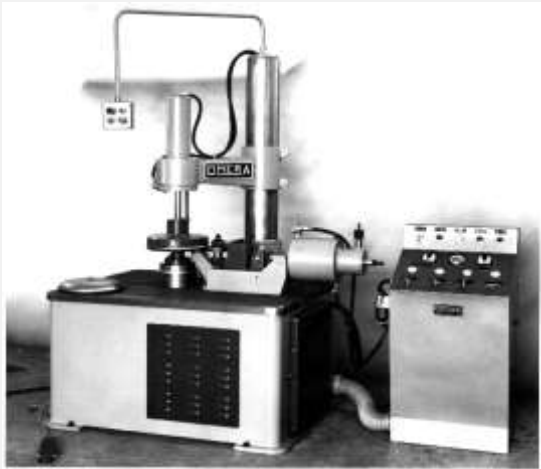


## Beading Machines



Beading Machines

# History



1958

First machine

1964

Multi Units machines

1980

Trimming Beading lines

1992

Hydraulic Units

2004

Brushless Units

2009

CNC Units

Since 1951 a unique partner for your needs

Beading Machines



Since the **60's** Omera and beading machines are two synonyms.

Products and solutions improved during the years to follow market challenges.

Omera tradition is written in terms of **customers' satisfaction**, machines which are still working for decades and several machining problem solved.

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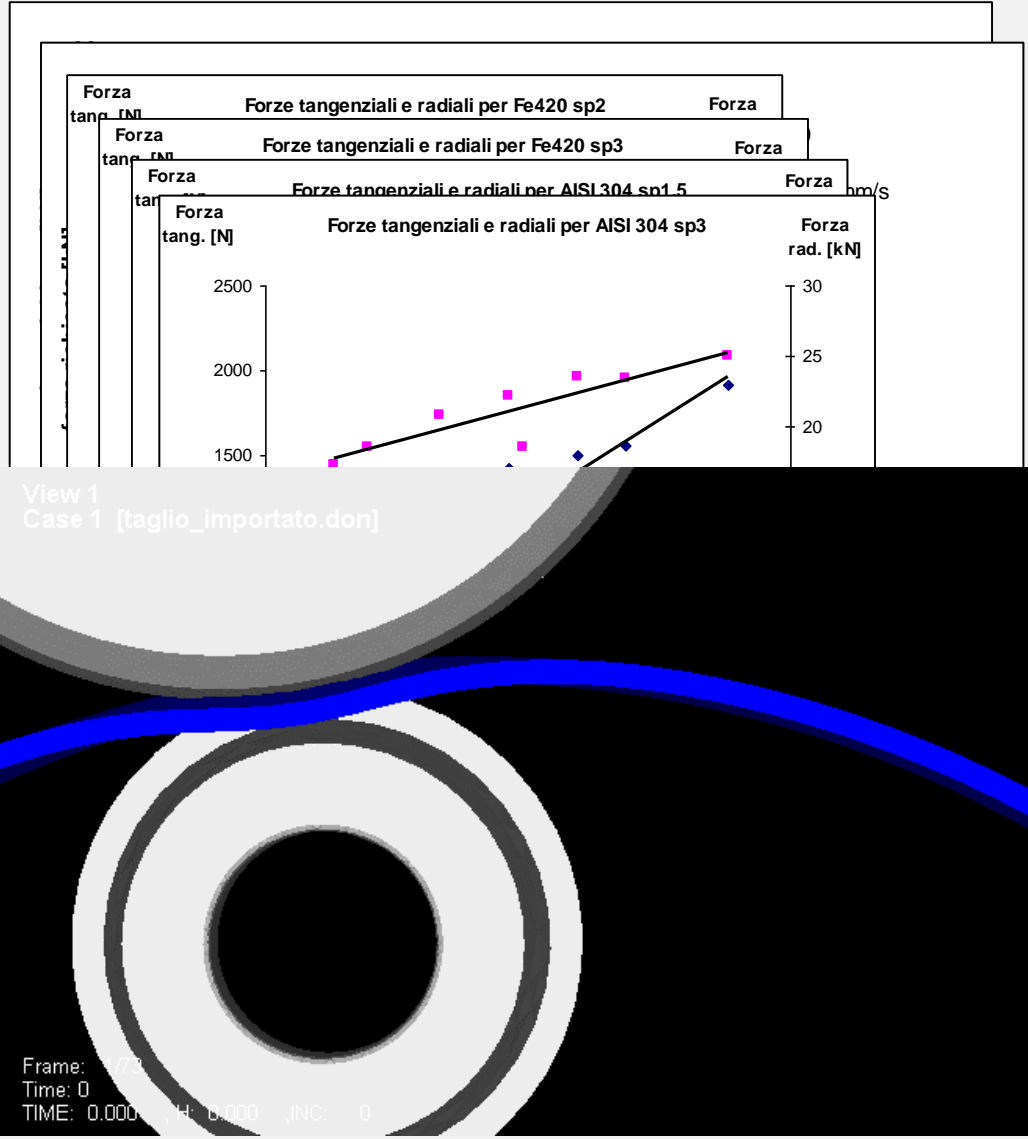
Category	Q	Sub-category	T	Product	1.1	Product line	1.1.1	Reference
Submerged pumps		Pump driver elements		Pump impeller		Trimming-off the bottom		U) 2.2-1
Size of the mm		Material	Thickness mm	1" Diameter	<b>BOTTOM TRIMMING-OFF</b>			
100		SS	3	2" Diameter				
Machine code		Automatic production	Production	2" Diameter				
8				4" Diameter				
Product before machining				Product after machining				
SALES MAN SAND BOOLE				Page 120				
Category	V	Sub-category	S	Product	1.1	Product line	1.1.1	Reference
Baskets		Paper or garbage basket		Round basket		Curled edge basket element		V) 1.1-1
Size of the mm		Material	Thickness mm	1" Diameter	<b>CURLING</b>			
200		SS	2.6	2" Diameter				
Machine code		Automatic production	Production	2" Diameter				
8				4" Diameter				
Product before machining				Product after machining				
SALES MAN SAND BOOLE				Page 120				



Moving from **pneumatics** to **hydraulics** and then **brushless technology**, quality, efficiency and flexibility according to customer ideas.

Wide range of solution lead to a **unique portfolio** and made possible to fit any request, for any customer, for any country.

Our experience based on years of **tests**, **prototypes** and now **simulation** support us in suggesting the proper solution for different machining process.



Beading Machines



**Safety** is milestone of **Omera** Policy

The collaboration of a **Notified Body**, allow to develop the proper safety levels.

These efforts lead to the reduction of brake time for spindle and unit axis, improving operator comfort.

Safety on Board drivers guarantees **SIL3** safety level. On request, for special machines, specific **Risk Analysis** can be supplied on request.



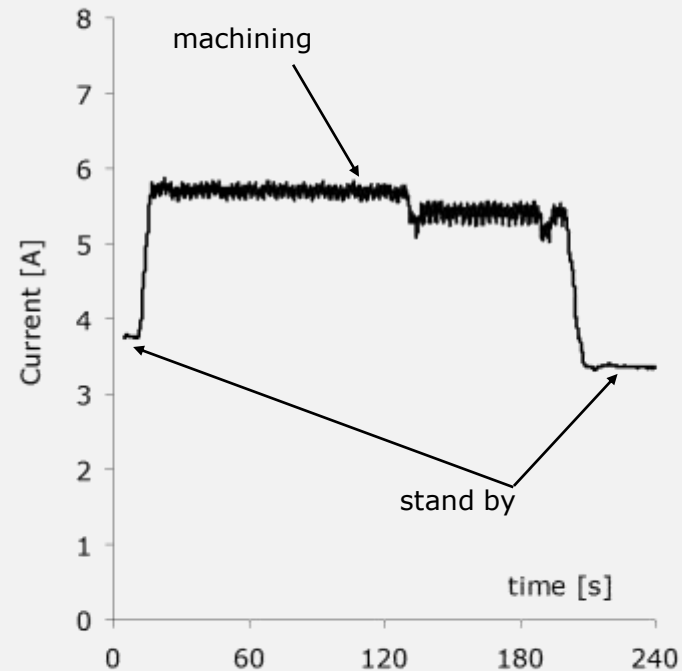


Spindle equipped with inverter performing **Start & Stop**.

Power consumption for basic **pneumatic units** similar to **hydraulic** solutions due to optimized sizing and pressure management.

**High Energy Efficiency** for Brushless units configuration.

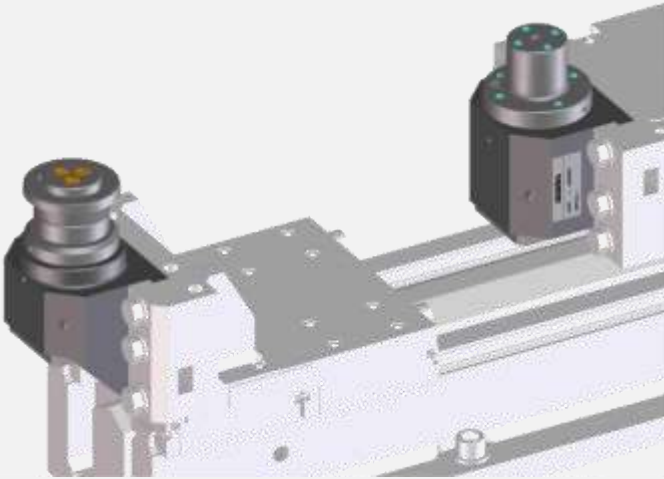
**Regenerative drives** available for multi axis machine, allowing to exchange power feeding and power braking on a common power line optimizing energy balance.



# Rapid Tooling

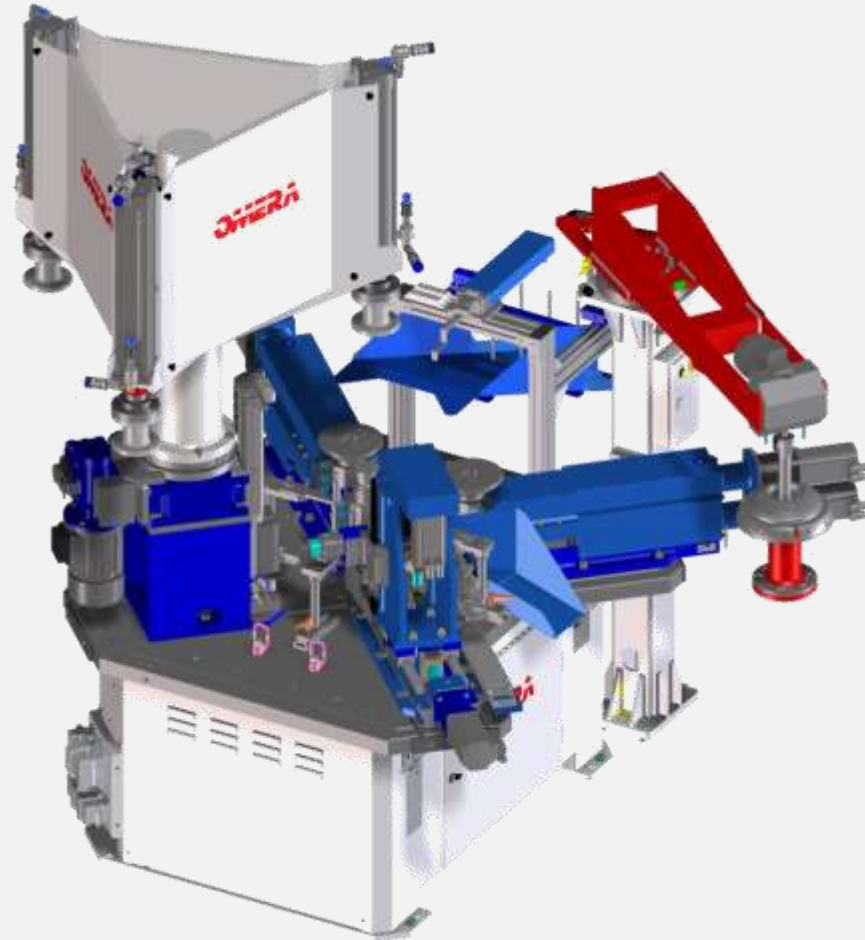


New tools supports with **rapid tool** configuration

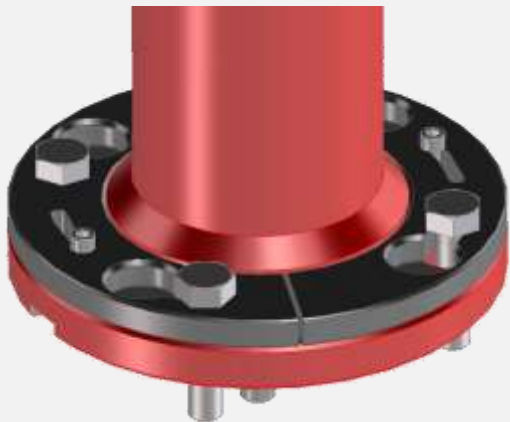


Rapid **die changing system**

**Brushless technology** available for units, presser, automation, centering units and so on.



Die connection to spindle equipped with **rapid die** configuration



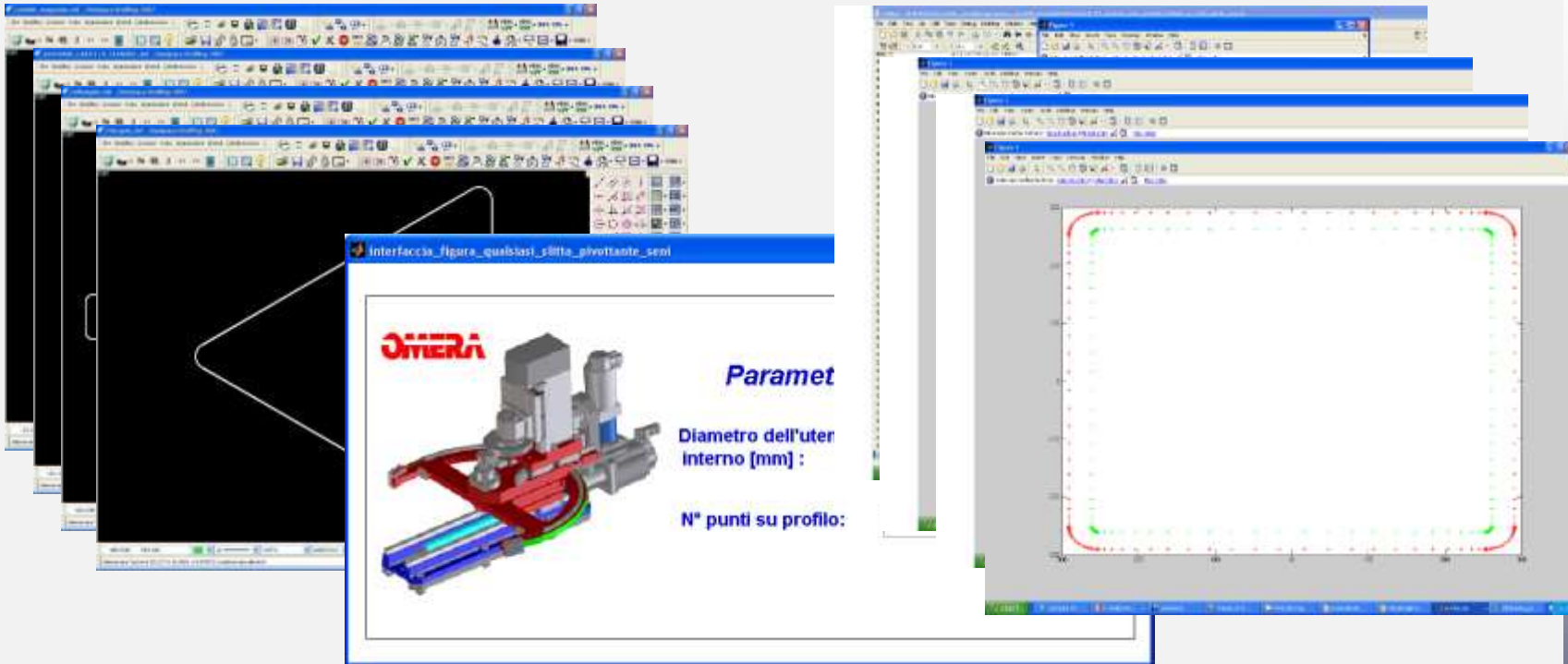
Beading Machines



# CNC Programming



Specific **CAD CAM** developed by Omera for CNC Machines



Starting data: tool-path  
on **CAD** drawing



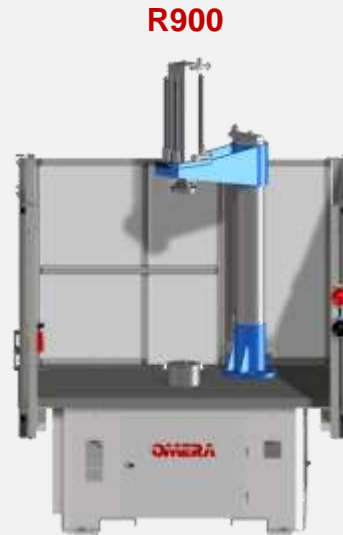
**CAD-CAM**  
Program



**CNC** Tool Path

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**A unique for all your needs**

**Beading Machines**

# Standard portfolio



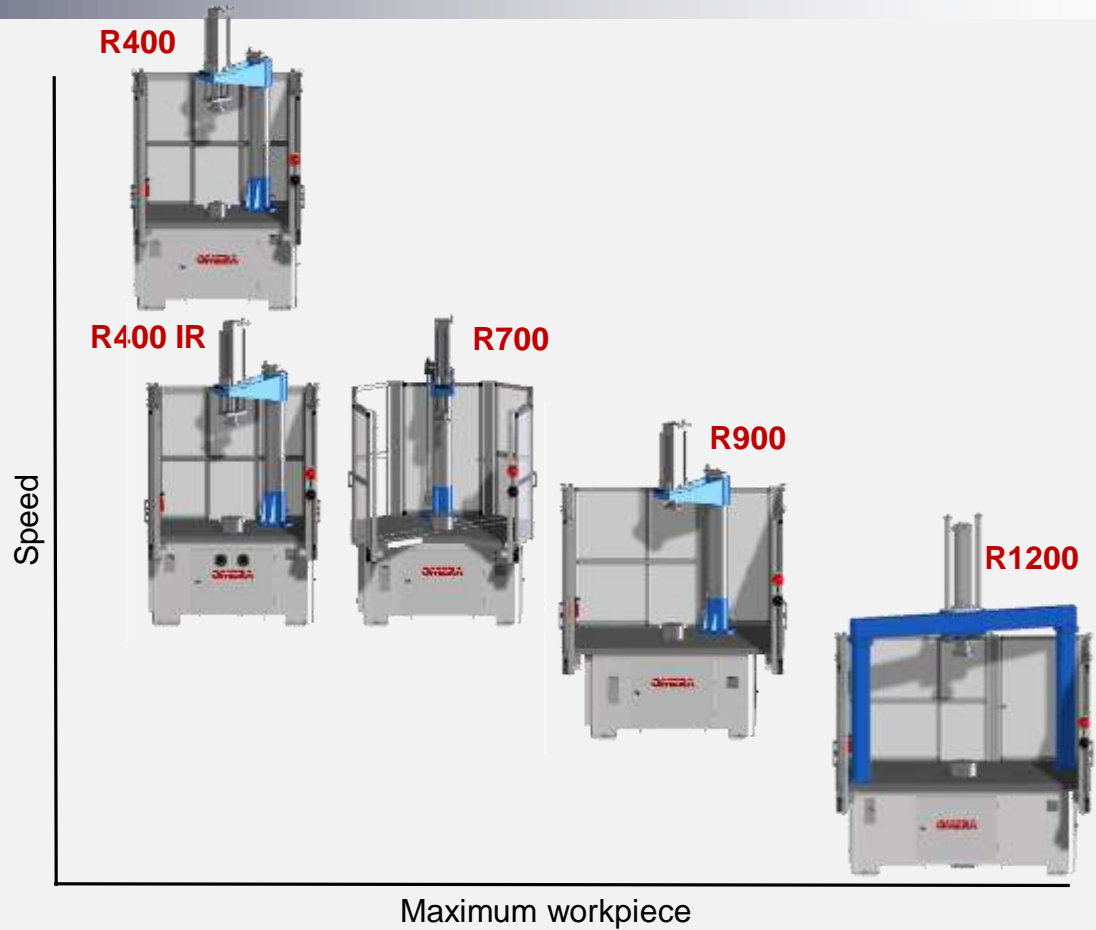
Wide machine **Portfolio**.

High **Scalability** of solutions.

Wide range of **Processes** available.

**Basic Manual** to **High Automated** solutions for optimizing investment plan.

**Customized** solutions for specific needs.



Beading Machines



Data	R400	R400 IR
Max Diameter [mm]	400	400
Speed range [rpm]	60-600	30-300
Spindle Power [kW]	5,5	7,5
Number of Working Units	3	3
Equipment	Pneumatic/ Brushless	Pneumatic/ Brushless



### Optional

- Light curtain
- Light curtain with cycle initiation, single or double brake
- Automation interface
- Teleservice
- Automatic scrap evacuation system



Data	R700	R700P
Max Diameter [mm]	700	700
Speed range [rpm]	30-300	4-40
Spindle Power [kW]	11	7,5
Number of Working Units	4	4
Equipment	Pneumatic/ Brushless	Pneumatic/ Brushless



### Optional

- Light curtain
- Light curtain with cycle initiation, single or double brake
- Automation interface
- Teleservice
- Automatic scrap evacuation system



Data	R900	R900P
Max Diameter [mm]	<b>900</b>	<b>900</b>
Speed range [rpm]	<b>23-230</b>	<b>4-40</b>
Spindle Power [kW]	<b>11</b>	<b>7,5</b>
Number of Working Units	<b>3</b>	<b>3</b>
Equipment	<b>Pneumatic/ Brushless</b>	<b>Pneumatic/ Brushless</b>



### Optional

- Light curtain
- Light curtain with cycle initiation single or double brake
- Automation interface
- Teleservice
- Automatic scrap evacuation system



Data	R1200T	R1200P
Max Diameter [mm]	<b>1200</b>	<b>1200</b>
Speed range [rpm]	<b>20-190</b>	<b>2-22</b>
Spindle Power [kW]	<b>11</b>	<b>7,5</b>
Number of Working Units	<b>3</b>	<b>3</b>
Equipment	<b>Pneumatic/ Brushless</b>	<b>Pneumatic/ Brushless</b>

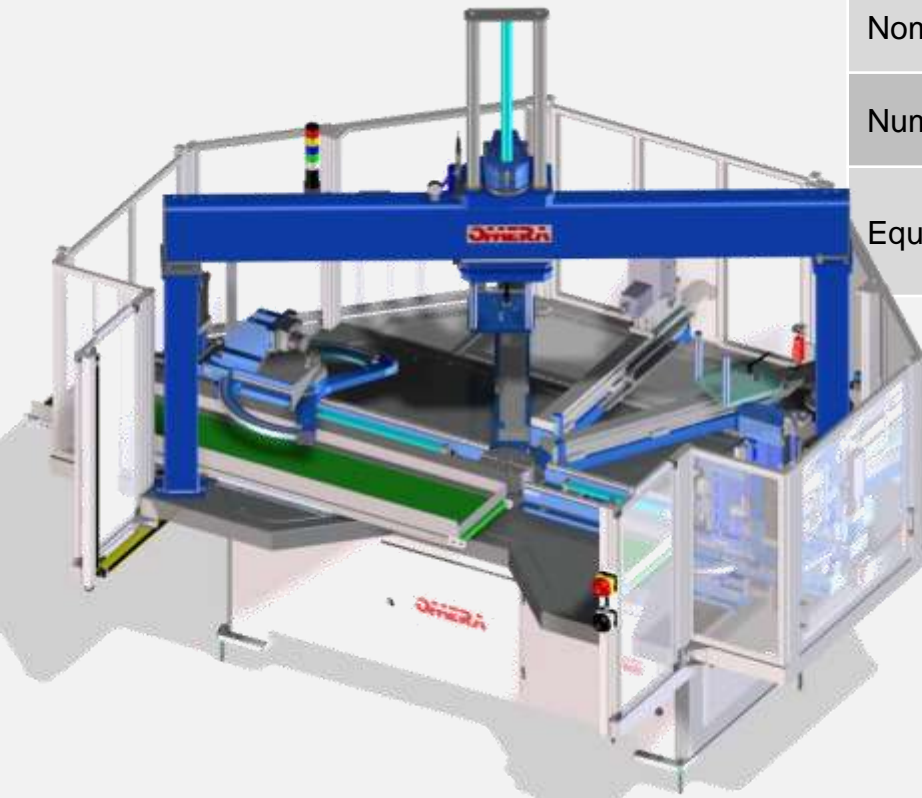


### Optional

- Light curtain
- Light curtain with cycle initiation, single or double brake
- Automation interface
- Teleservice
- Automatic scrap evacuation system



# Standard portfolio



Data	R1200CN	R1600CN
Max Diameter [mm]	1200	1600
Speed range [rpm]	0-20	0-40
Nominal Power [kW]	28	28
Number of Working Units	3	3
Equipment	Brushless	Brushless

### Optional

- Light curtain
- Light curtain with cycle initiation, single or double brake
- Automation interface
- Teleservice
- Automatic scrap evacuation system

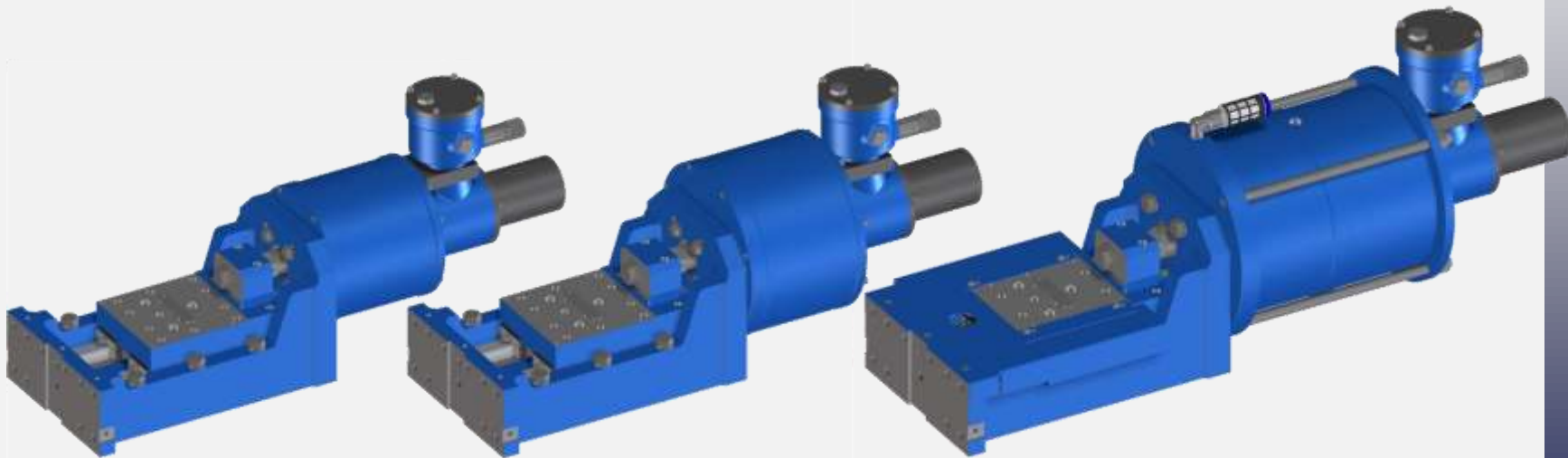
# Basic pneumatic units



## Basic Units C series

- Positive working direction
- Cost Effective
- Reliable
- High Scalability
- Wide accessories portfolio

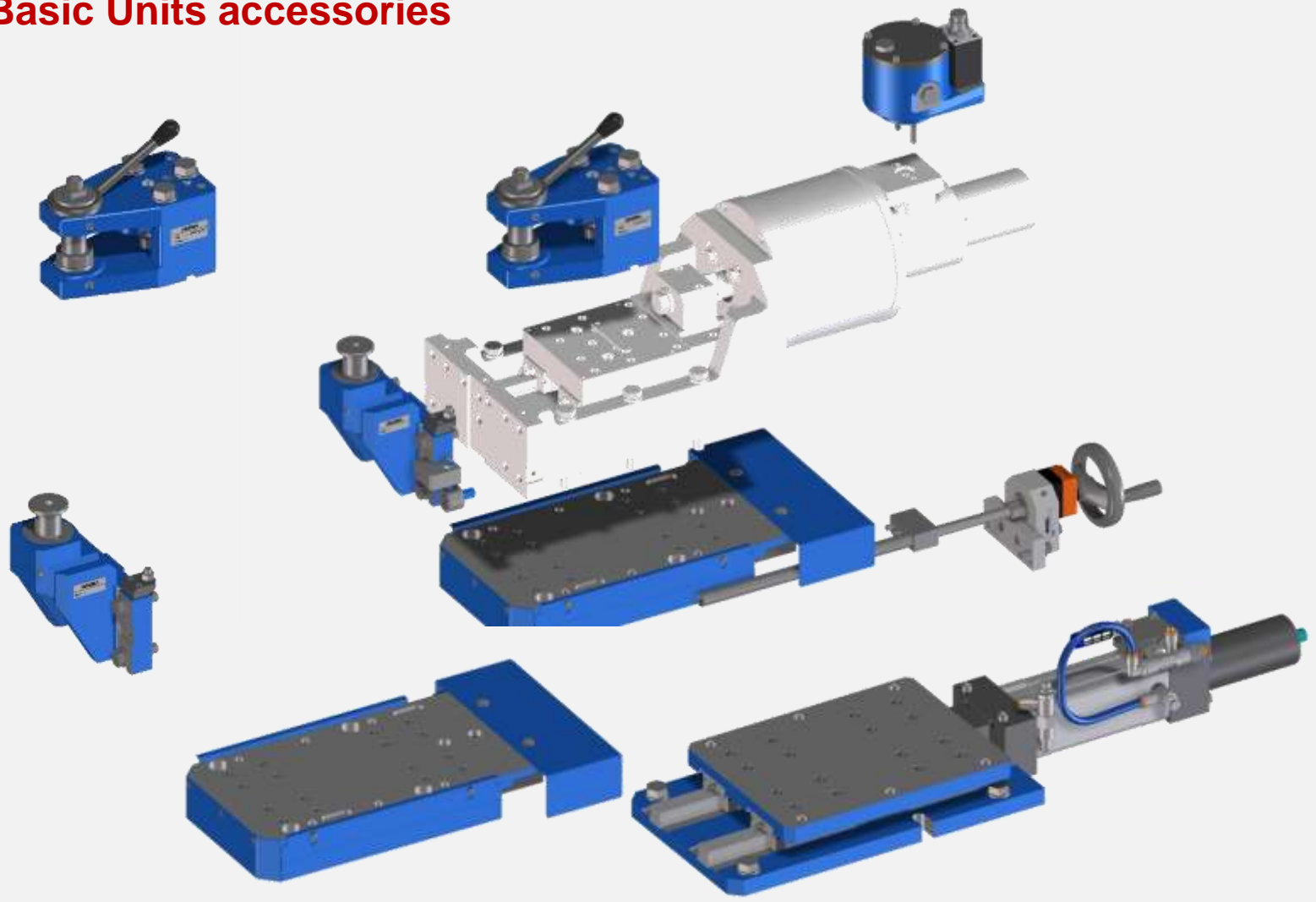
UNIT	Force [kN]	Stroke [mm]	Process
<b>C</b>	<b>20</b>	<b>80</b>	<b>Trimming Beading Turning</b>
<b>CM</b>	<b>30</b>	<b>80</b>	<b>Trimming Beading Turning</b>
<b>CSM</b>	<b>60</b>	<b>80</b>	<b>Trimming Beading Turning</b>



# Basic pneumatic units



## Basic Units accessories



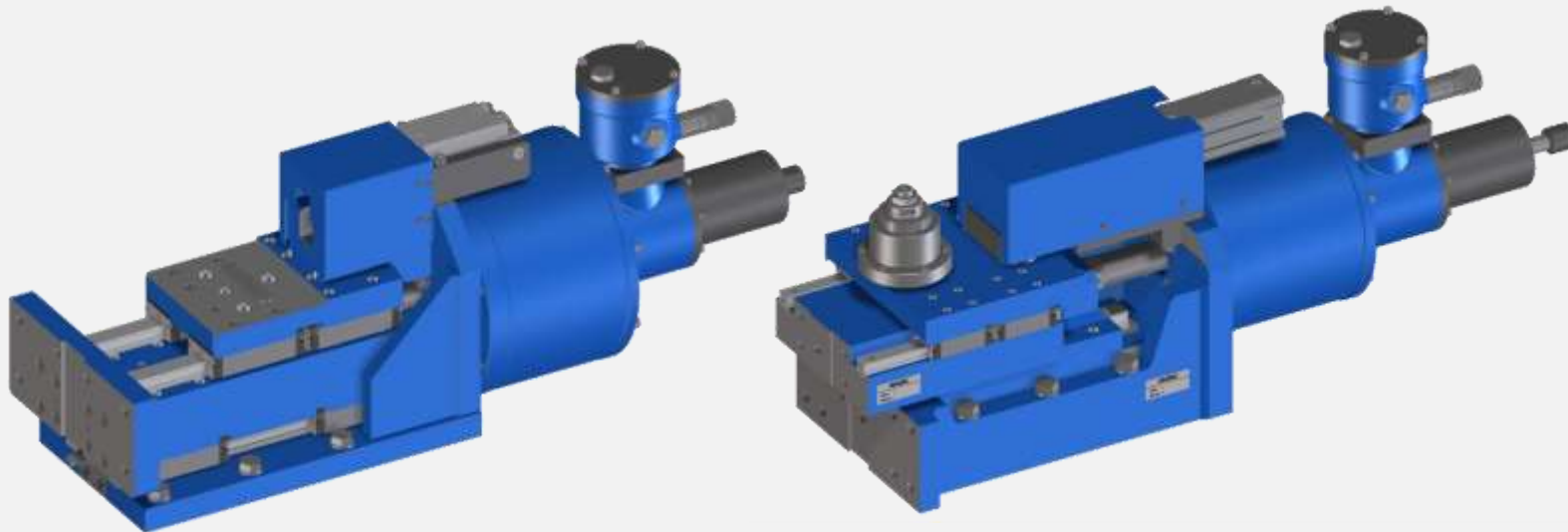
Beading Machines



## Basic Units C series

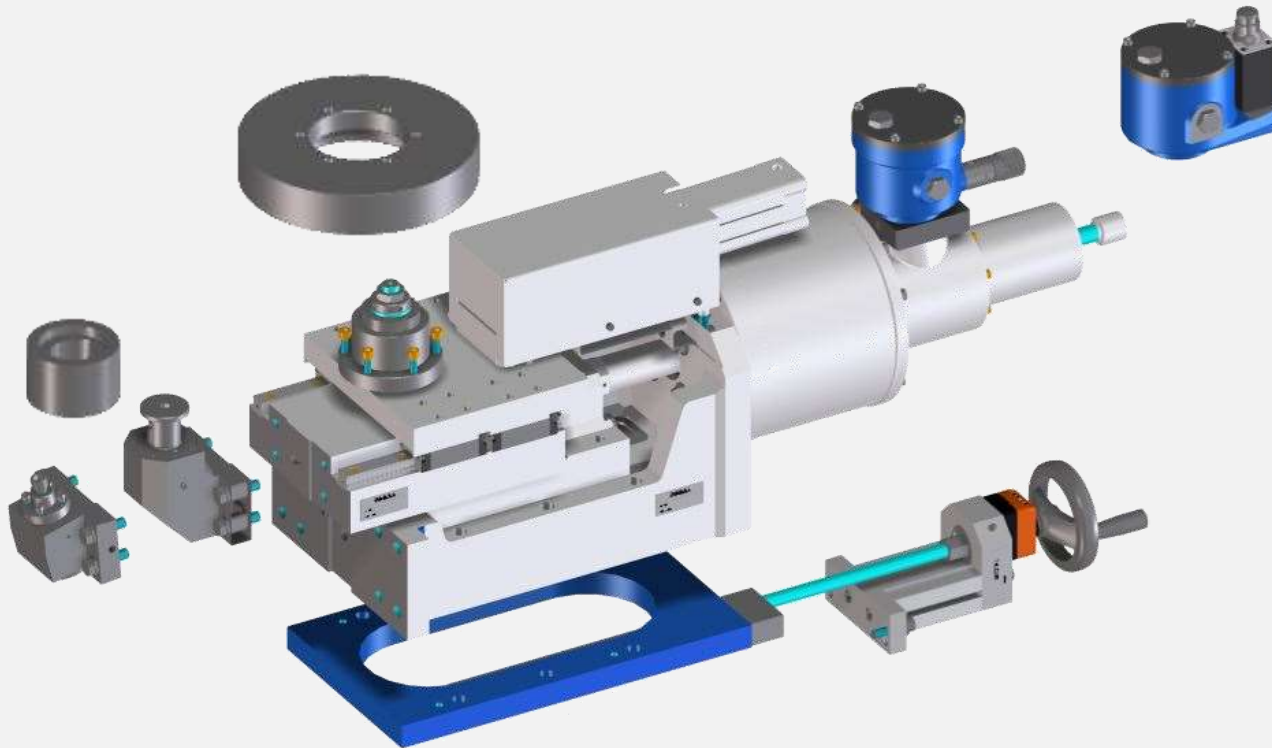
- Negative working direction
- Cost Effective
- Reliable
- High Scalability
- Wide accessories portfolio

UNIT	Force [kN]	Stroke [mm]	Process
CMDI	30	40	Trimming Beading Flanging
SCI	20	40	Trimming Beading Flanging





## Basic Units accessories

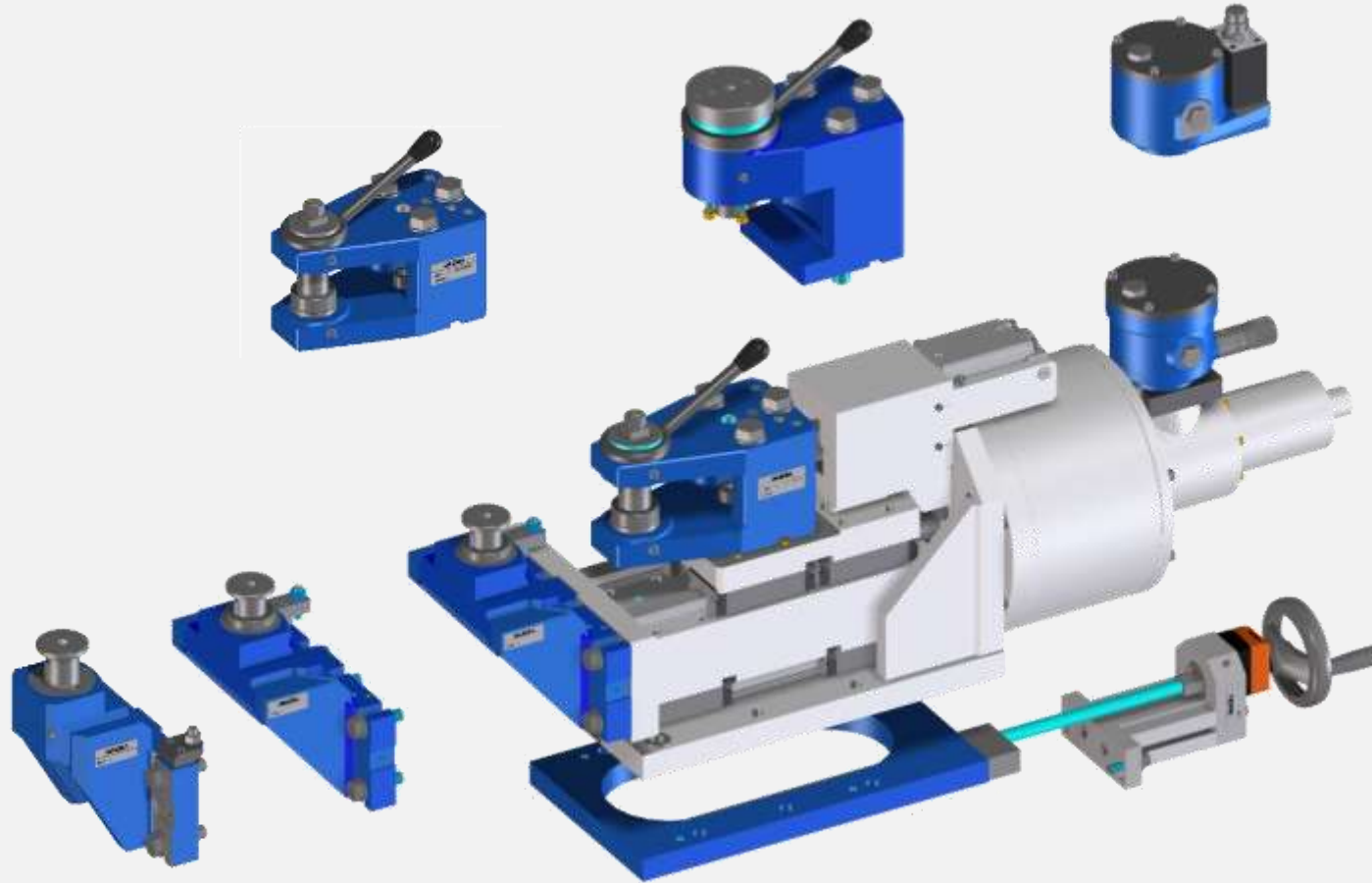


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# Basic pneumatic units

## Basic Units accessories



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## Basic Units Vertical series

UNIT	Force [kN]	Stroke [mm]	Process
SV	10	25	Vertical Turning
URM	30	40	Vertical Trimming

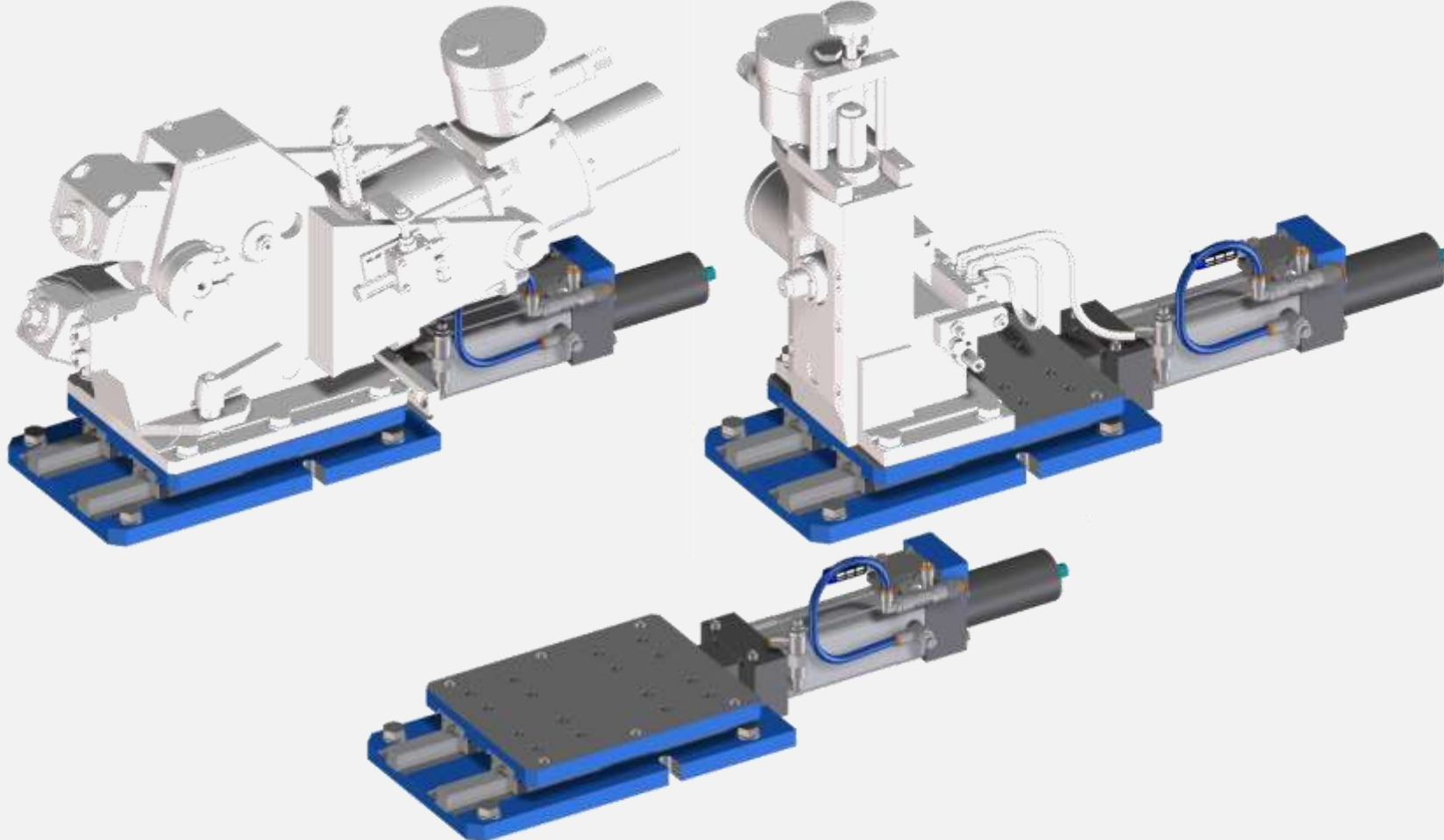
- Vertical working direction
- Cost Effective
- Reliable
- High Scalability
- Wide accessories portfolio



# Basic pneumatic units



## Vertical Units accessories



Beading Machines



## Polygonal Units

- Positive working direction
- Cost Effective
- Reliable
- High Scalability
- Wide accessories portfolio

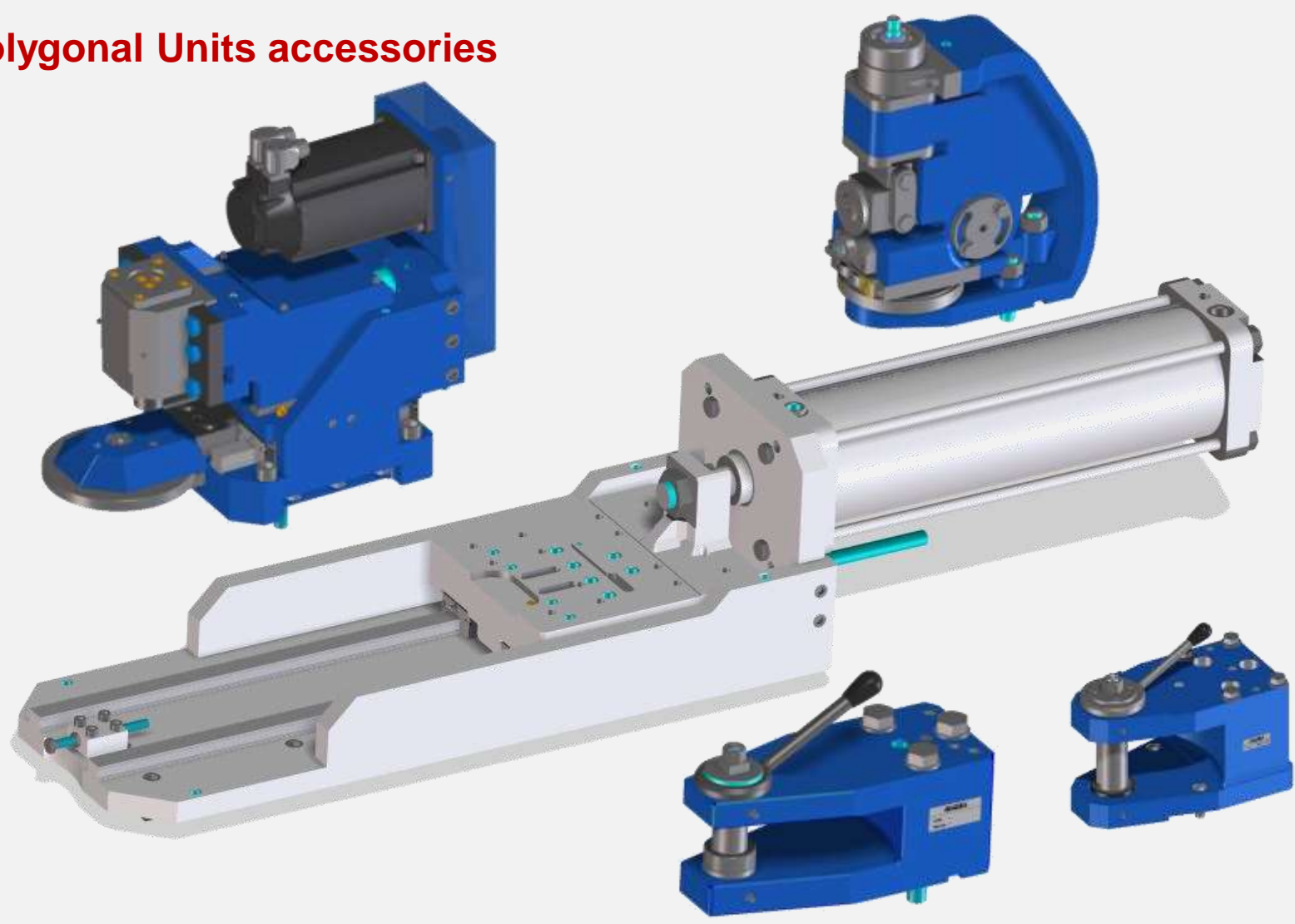
UNIT	Force [kN]	Stroke [mm]	Process
NR2	12	200	Trimming Beading
NR5	12	500	Trimming Beading
ALOC e	20	30	Trimming Beading
ARAV	20	30	Trimming Beading



# Basic pneumatic units



## Polygonal Units accessories



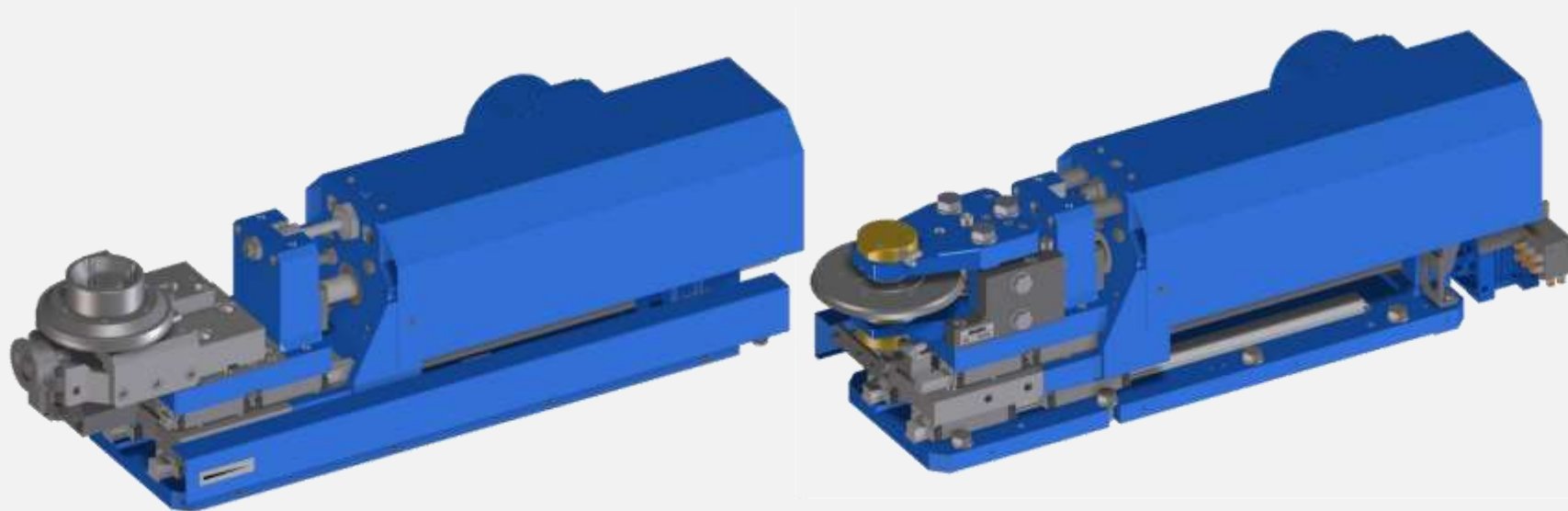
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## Air pipes production

- Cost Effective
- Regulation stroke motorized and programmable for quick machine set up
- High standardization of accessories

UNIT	Force [kN]	Stroke [mm]	Process
UBF	15	40	Beading Flanging
USJ	7	40	Seal Joining





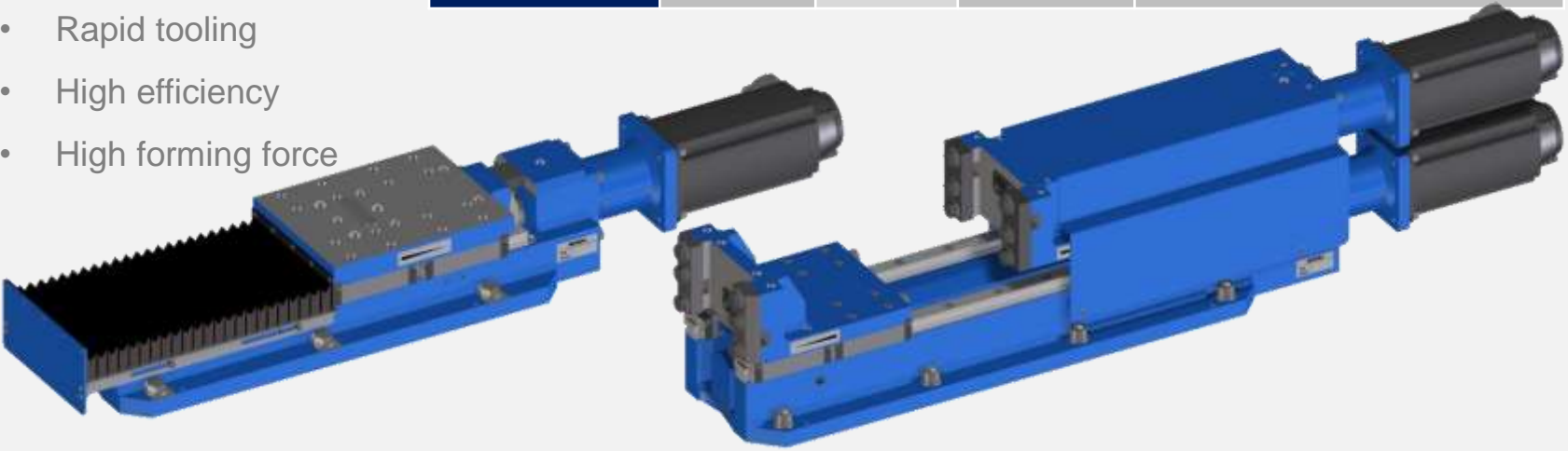
# Brushless Units



## Brushless Units

- Positive to Negative Working Direction
- Improved product quality
- High flexibility
- Programmable working parameters
- Rapid tooling
- High efficiency
- High forming force

UNIT	Force [kN]	Stroke [mm]	Axis	Process
CN 30S	30	310	Single radial stroke	Trimming, Beading, Turning Flanging
CN30D	30	310	Double radial stroke	Trimming, Beading, Turning Flanging
CN 50S	50	300	Single radial stroke	Trimming, Beading, Turning Flanging
CN 50D	50	300	Double radial stroke	Trimming, Beading, Turning Flanging



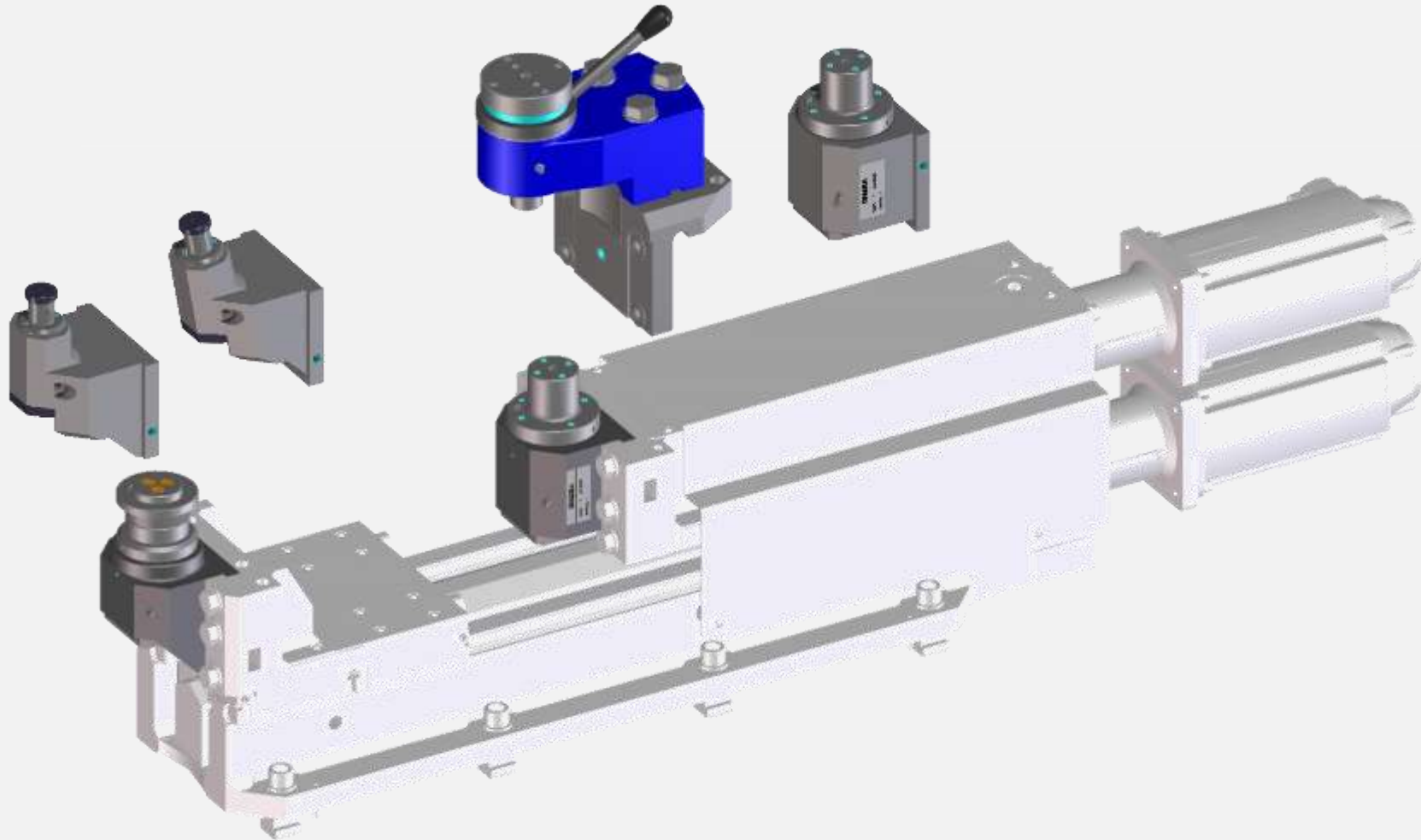
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# Brushless Units



## Brushless Units accessories



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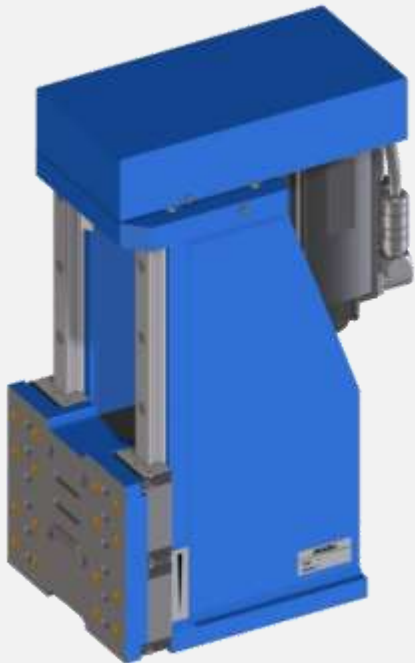
# Brushless Units



## Basic brushless units

- Improved product quality
- High flexibility
- Programmable working parameters
- Rapid tooling
- High efficiency
- High forming force

UNIT	Force [kN]	Stroke [mm]	Axis	Process
CN30VS	30	240	Radial + Vertical stroke	Trimming, beading, Flanging, Turning in radial direction
CN30VD	30	40+20	Radial + Vertical Double stroke	Trimming, beading, Flanging, Turning in radial direction

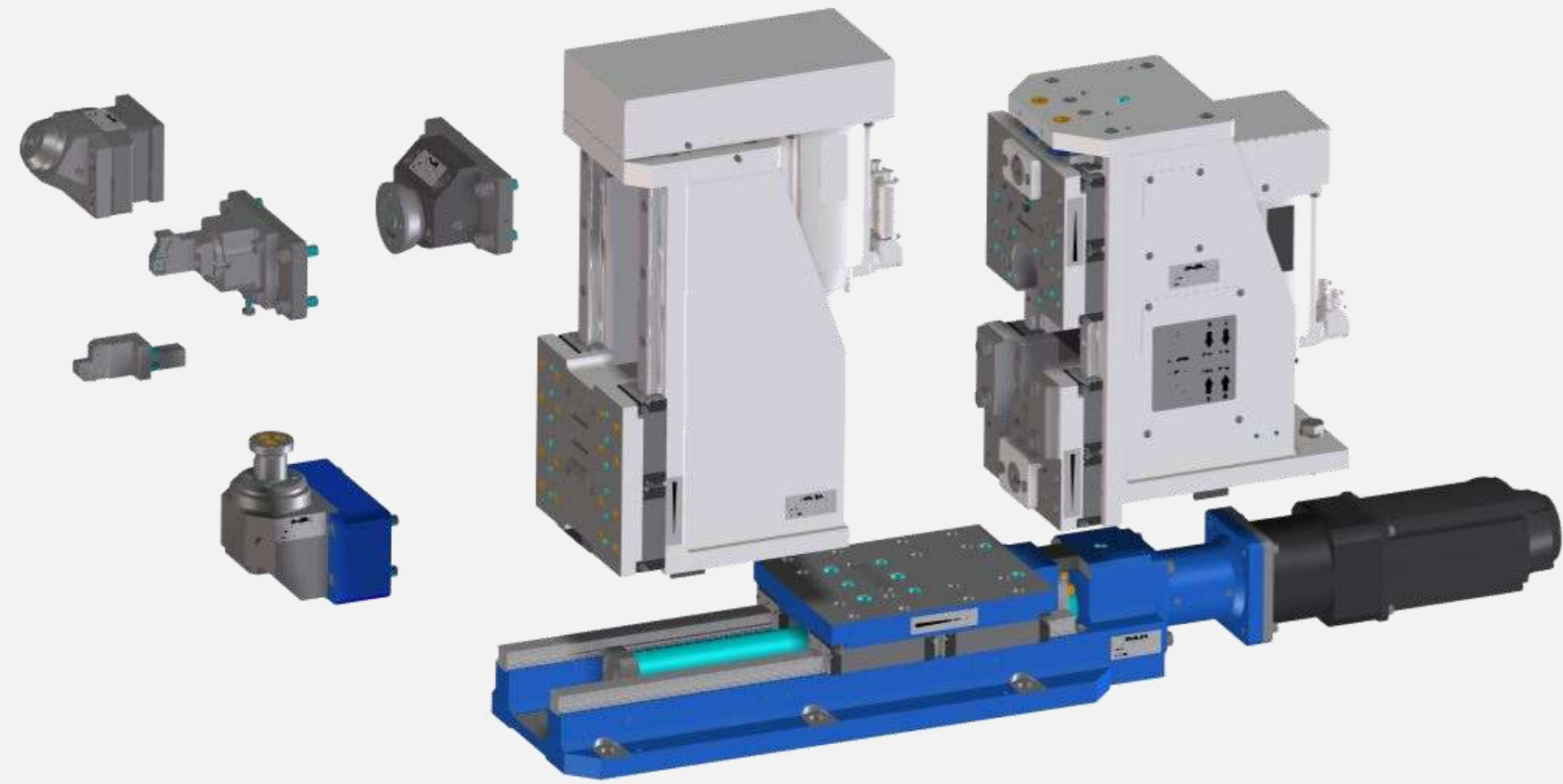


Beading Machines

# Brushless Units



## Brushless Units accessories

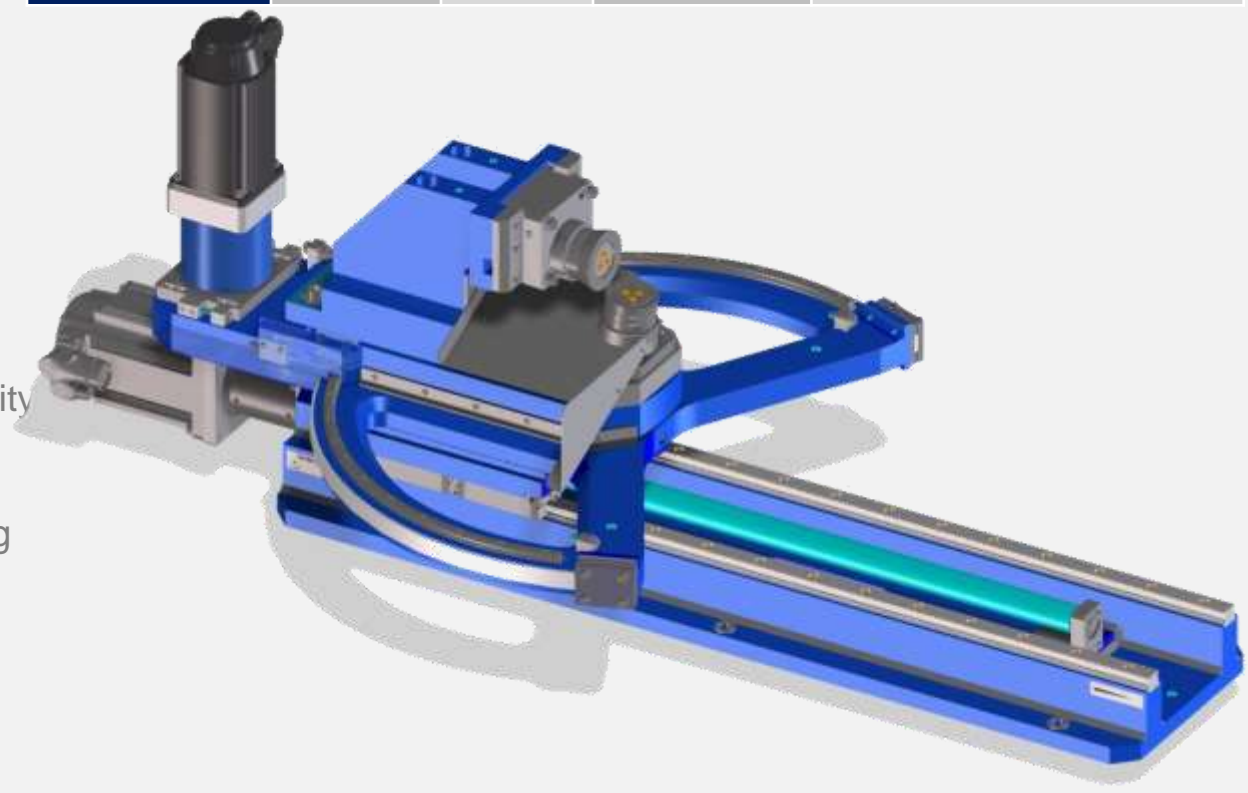


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## CNC units

UNIT	Force [kN]	Radial Stroke [mm]	Working Stroke [mm]	Process
CNC R	20	800	-	Trimming in radial direction



- Road signs production
- Improved product quality
- High flexibility
- Programmable working parameters
- Rapid tooling
- High efficiency
- High forming force

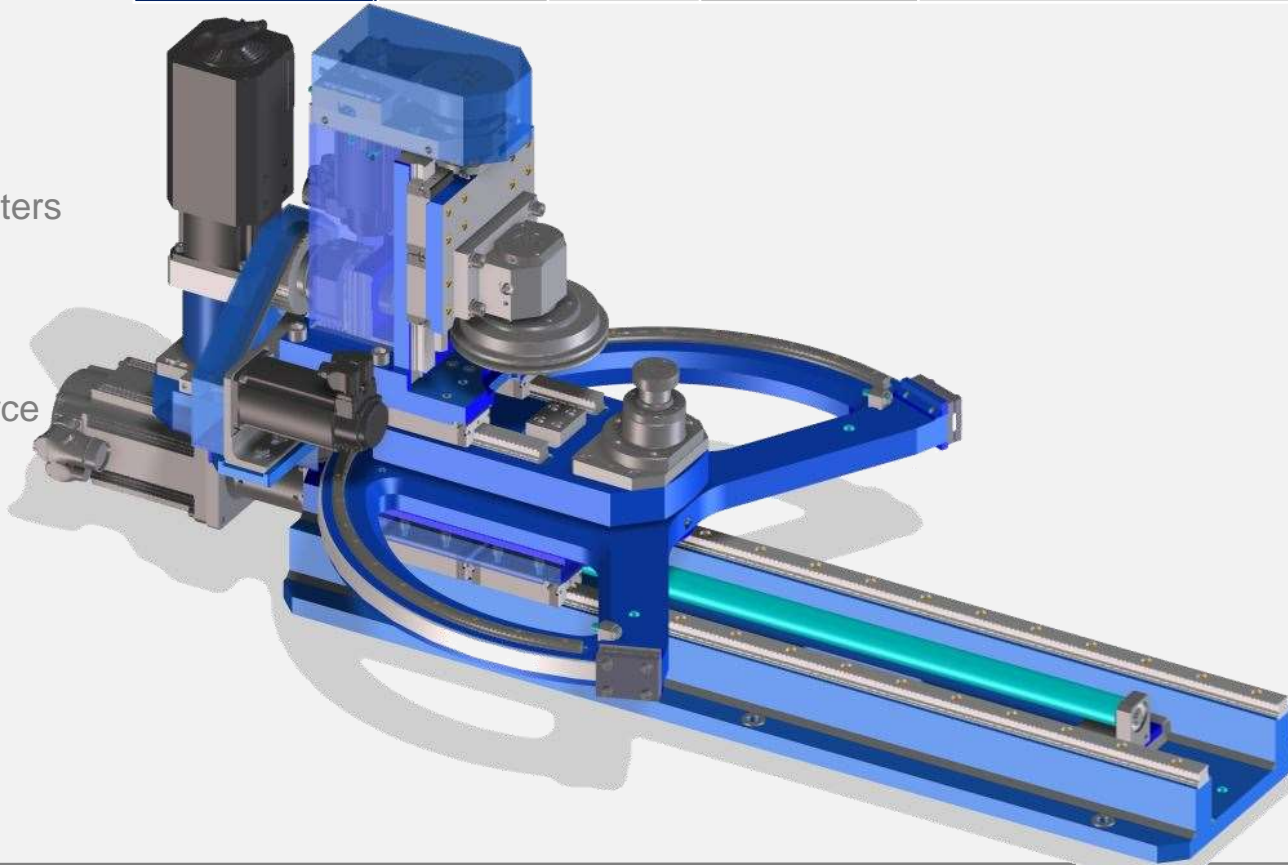
Beading Machines



## CNC Units

- Road signs production
- Improved product quality
- High flexibility
- Programmable working parameters
- Rapid tooling
- High efficiency
- High forming force

UNIT	Force [kN]	Radial Stroke [mm]	Working Stroke [mm]	Process
<b>CNC BF</b>	<b>20</b>	<b>800</b>	<b>80X/50Z</b>	<b>Beading, flanging in radial and vertical direction</b>



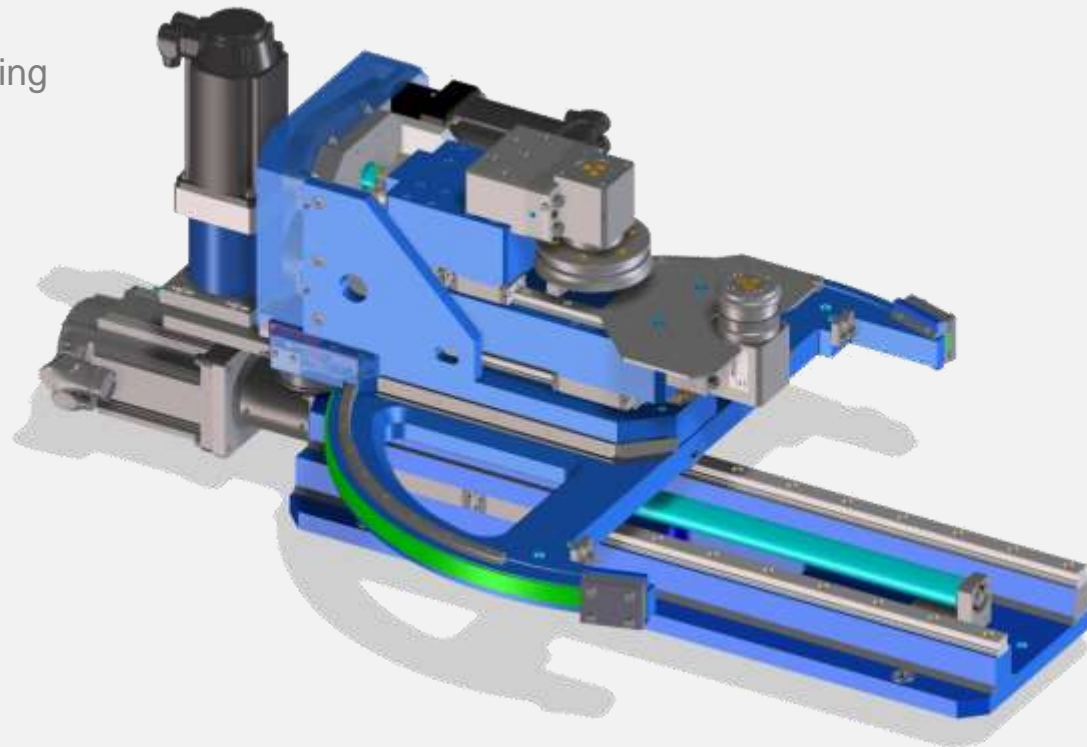




## CNC Units

UNIT	Force [kN]	Radial Stroke [mm]	Working Stroke [mm]	Process
CNC TB	30	600	100X1/30X2	Trimming, beading, flanging in radial direction

- Polygonal border machining
- Improved product quality
- High flexibility
- Programmable working parameters
- Rapid tooling
- High efficiency
- High forming force

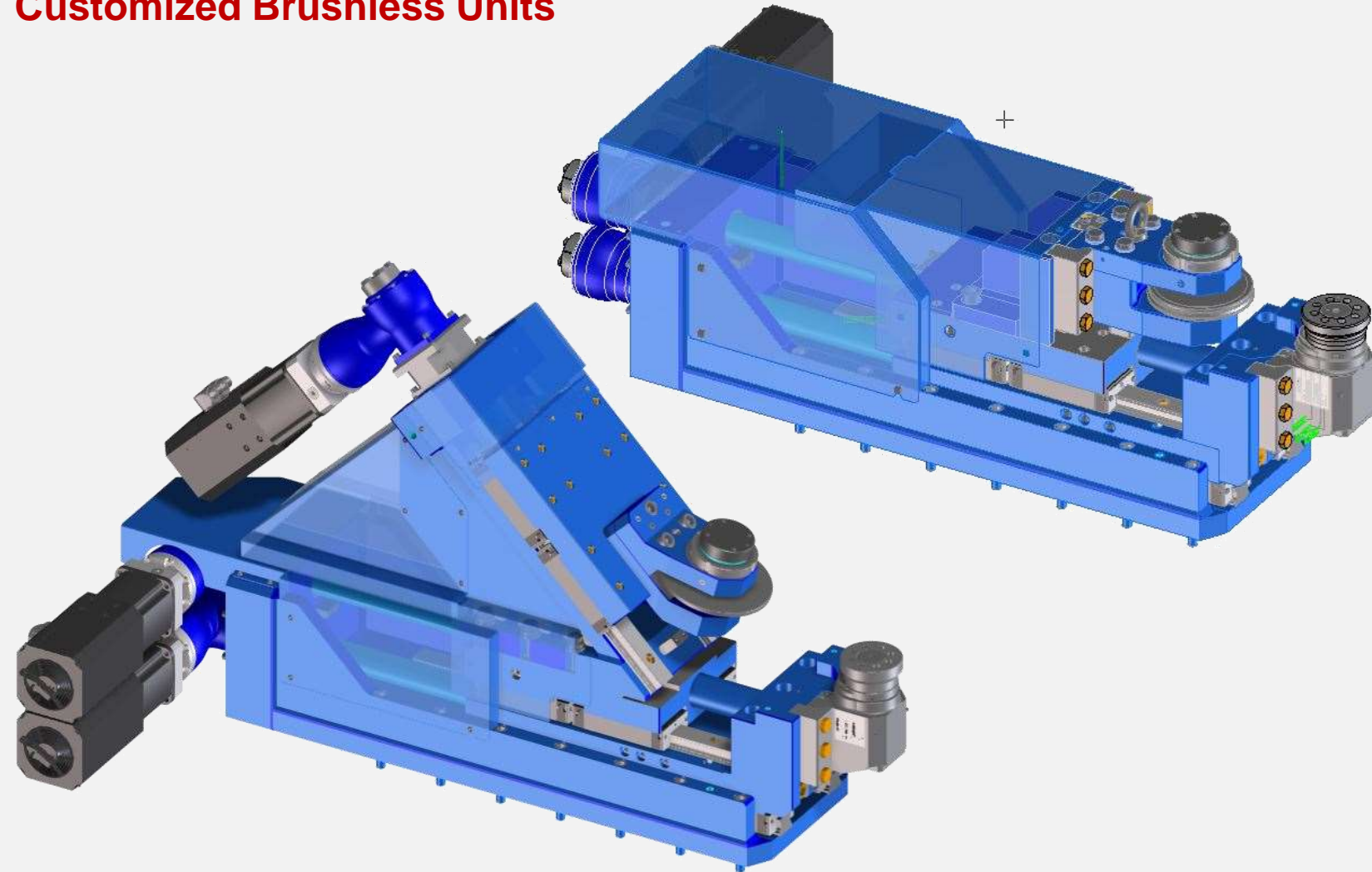


Beading Machines



# Brushless Units

## Customized Brushless Units

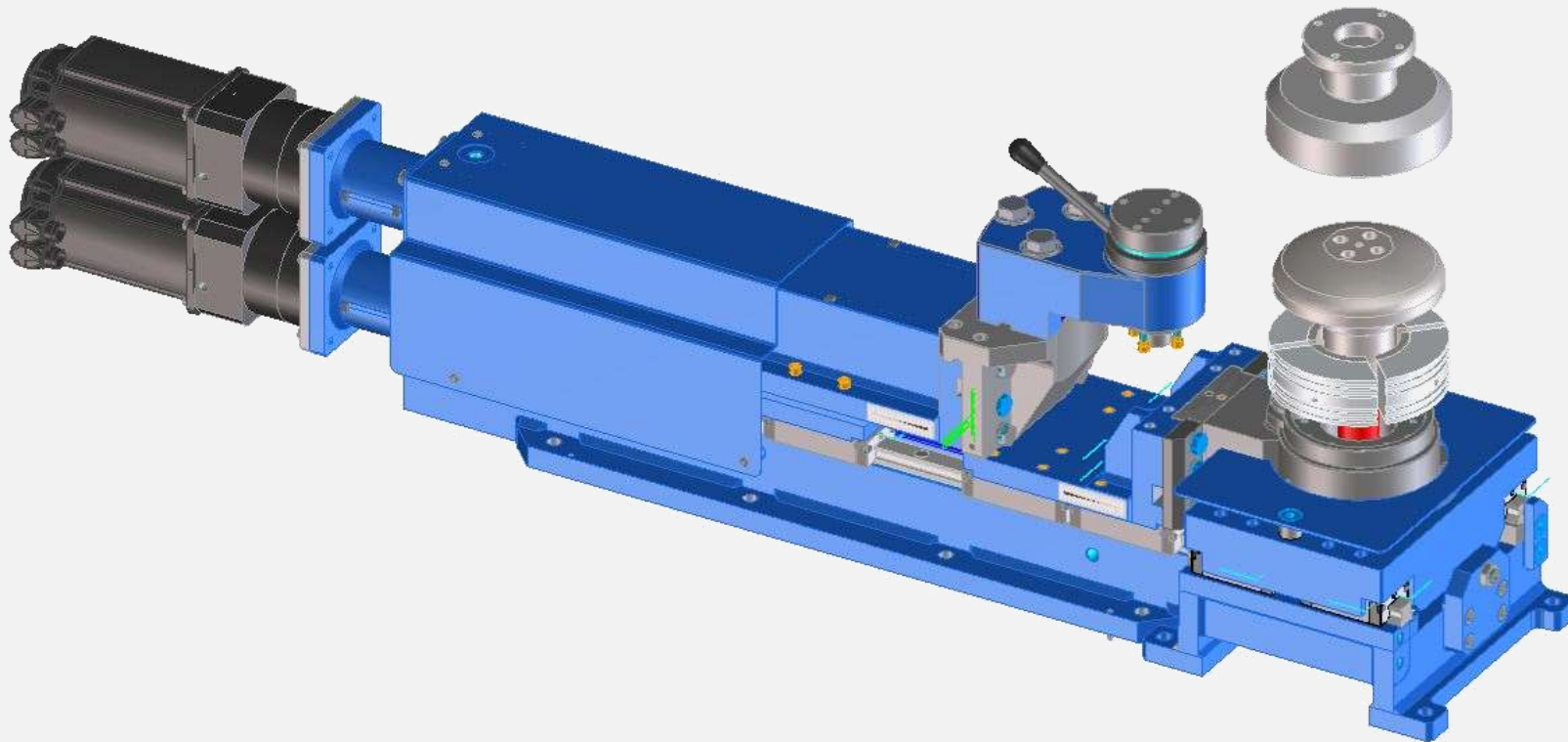


Beading Machines

# Brushless Units



## Customized Brushless Units

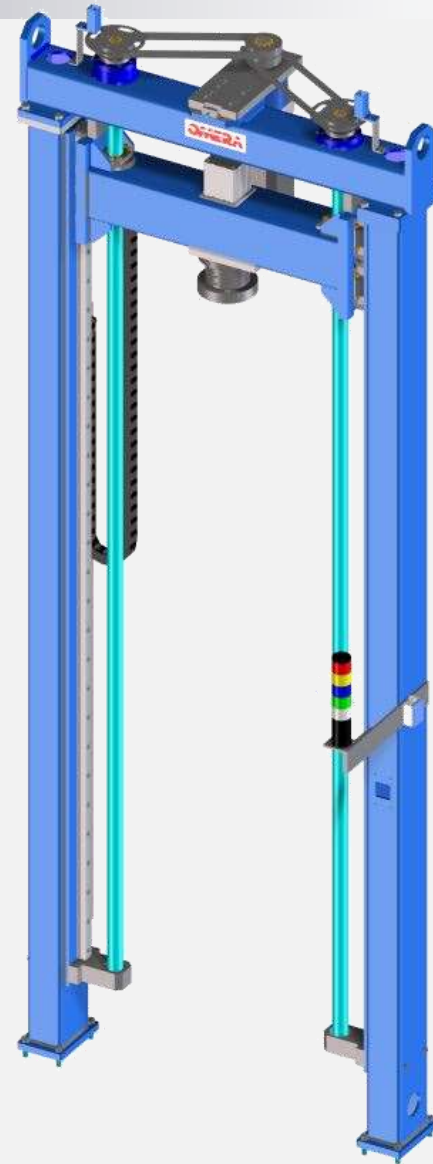


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# Brushless Units



## Customized Brushless Units



Beading Machines

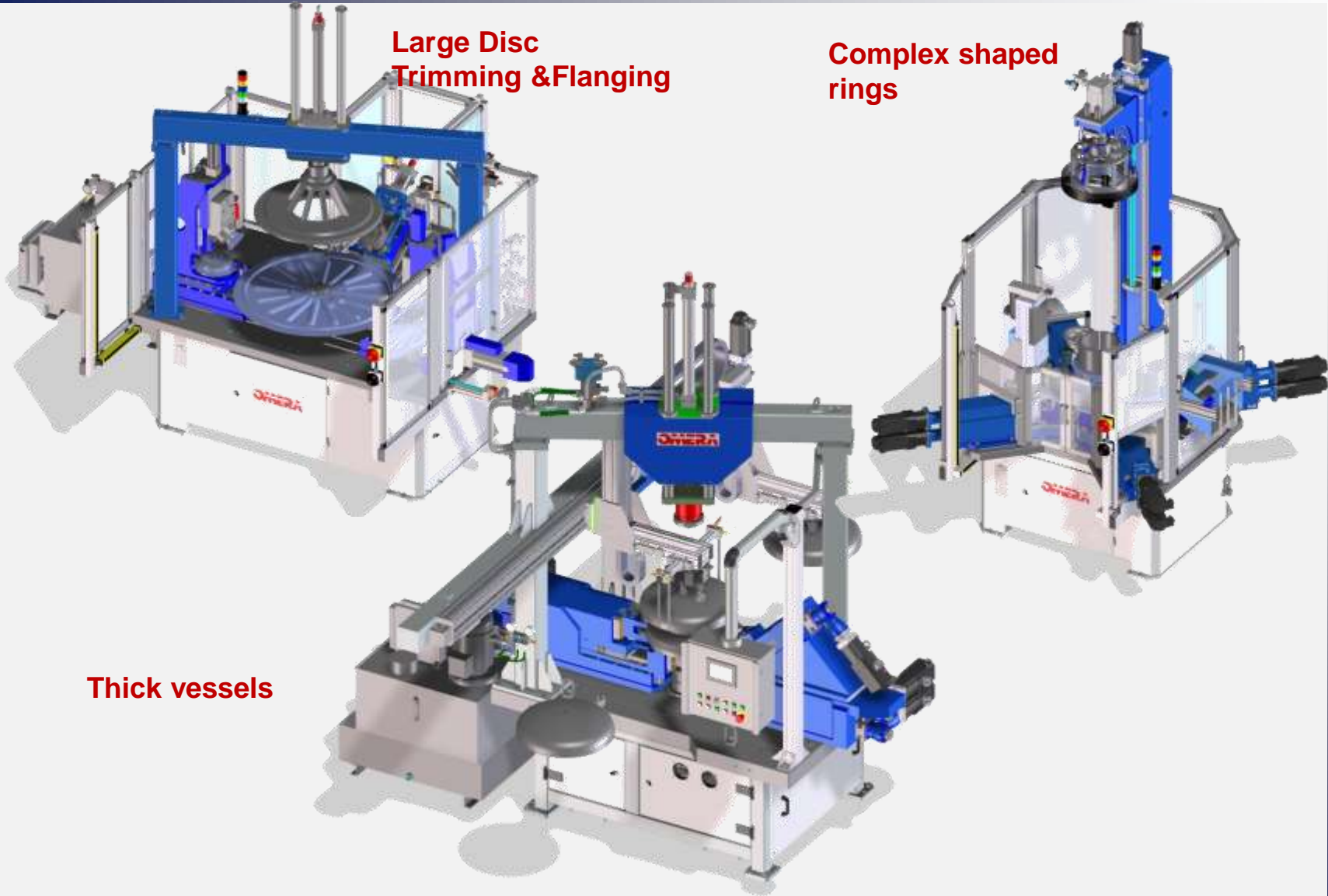
**Large Disc  
Trimming & Flanging**

**Complex shaped  
rings**

**Thick vessels**

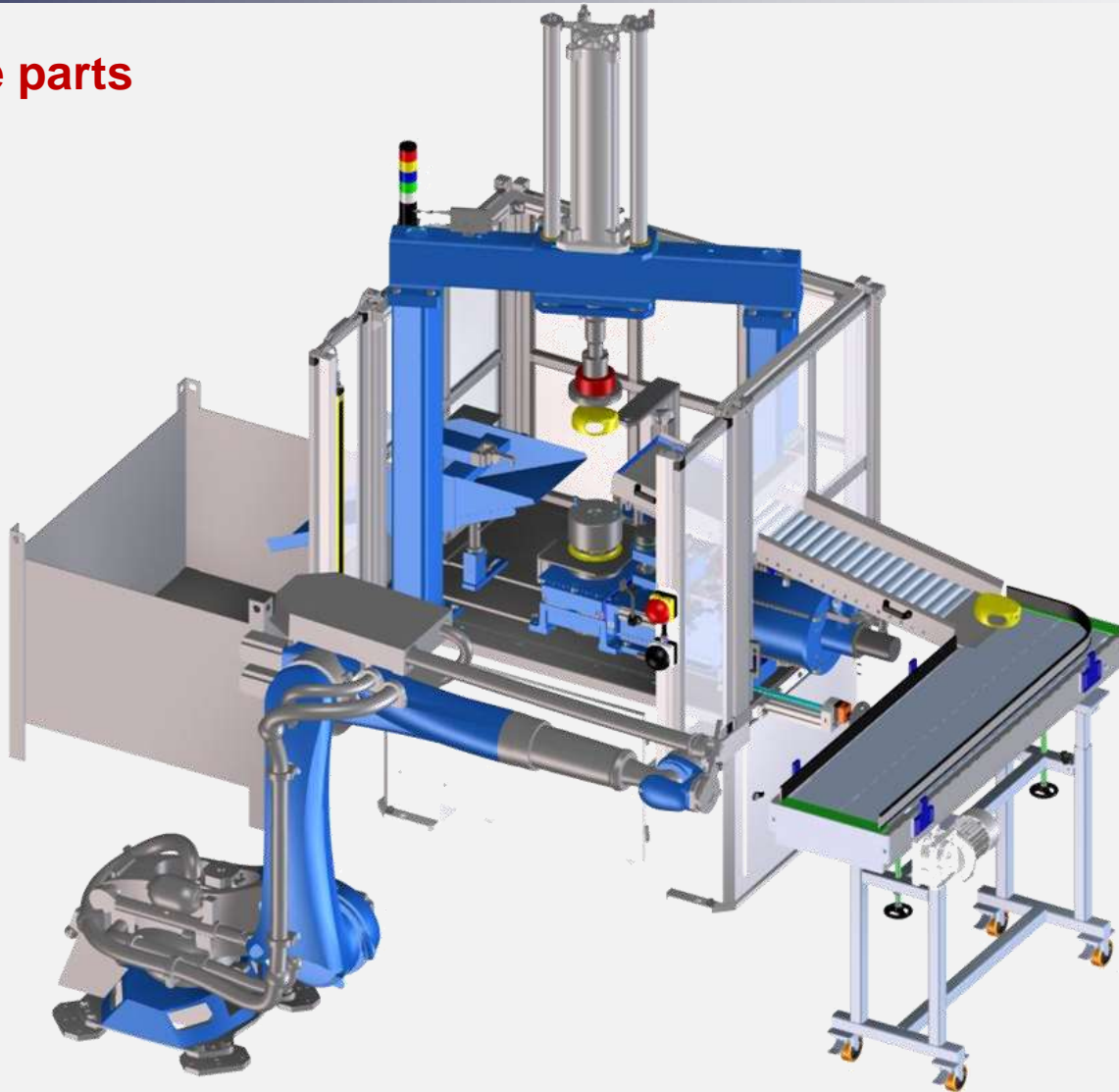


**Beading Machines**



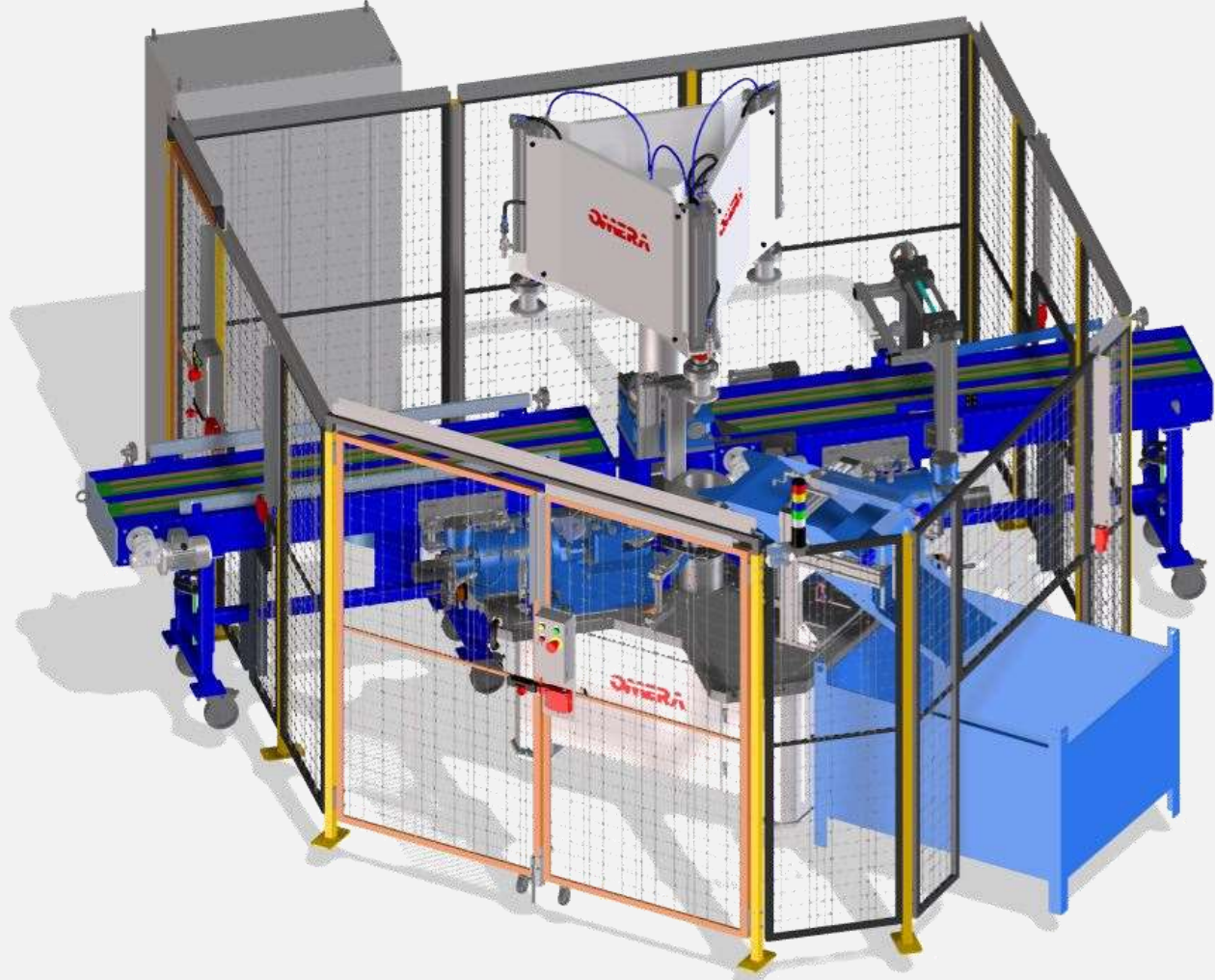


## Automotive parts



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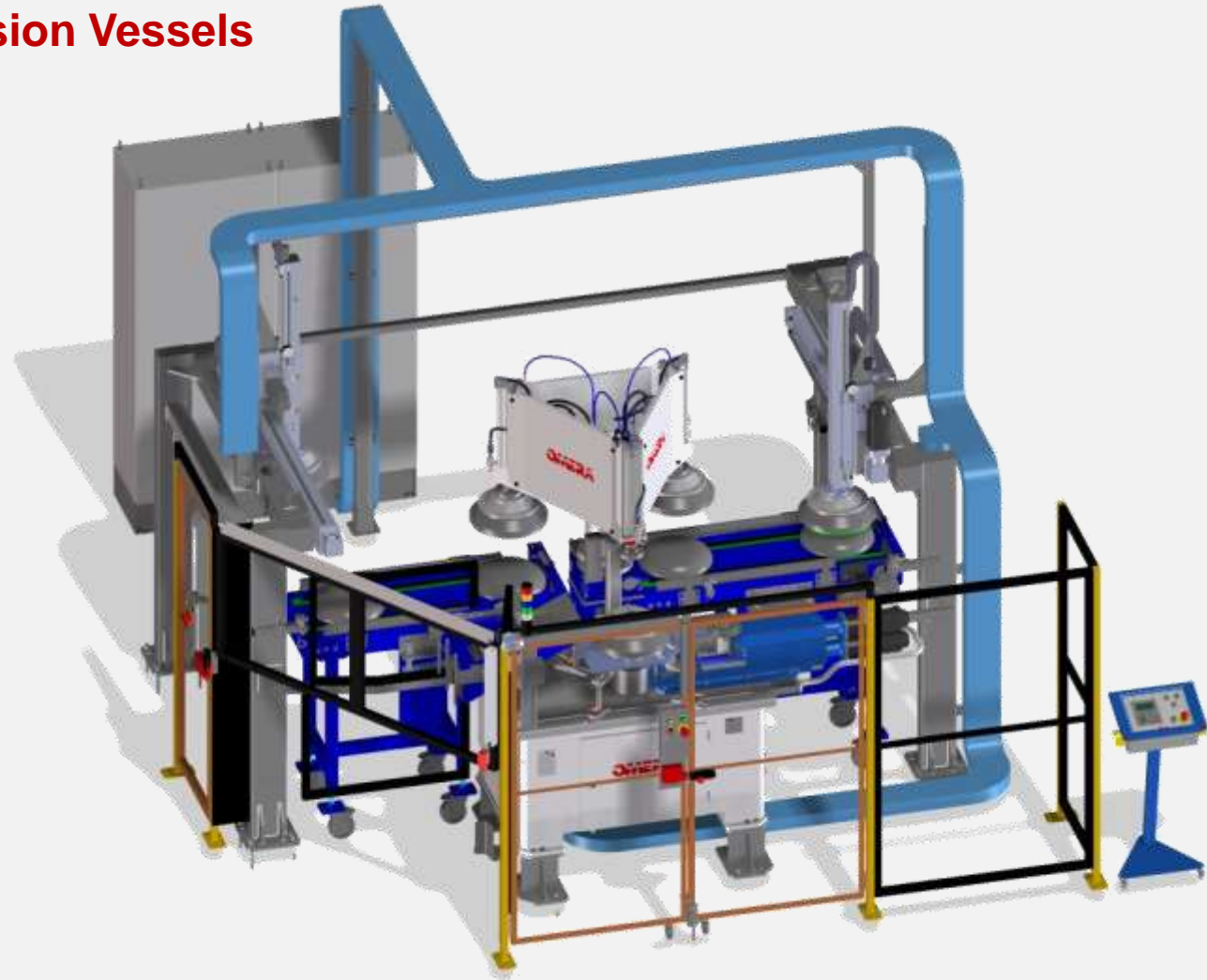
## Gas bottles



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## Expansion Vessels



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