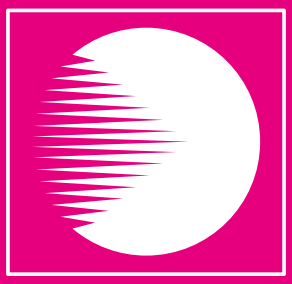


Dear customers, suppliers and co-workers,

The year 2020 has profoundly changed the entire world and significantly impacted each one of us. No one could have imagined that we would be living through such precarious times, facing immense challenges and navigating unexpected and disruptive changes in both our personal and professional lives.

Never before have we been so uncertain about our future, questioning our true priorities and re-examining the values driving our actions and decisions, redefining "Who we are".

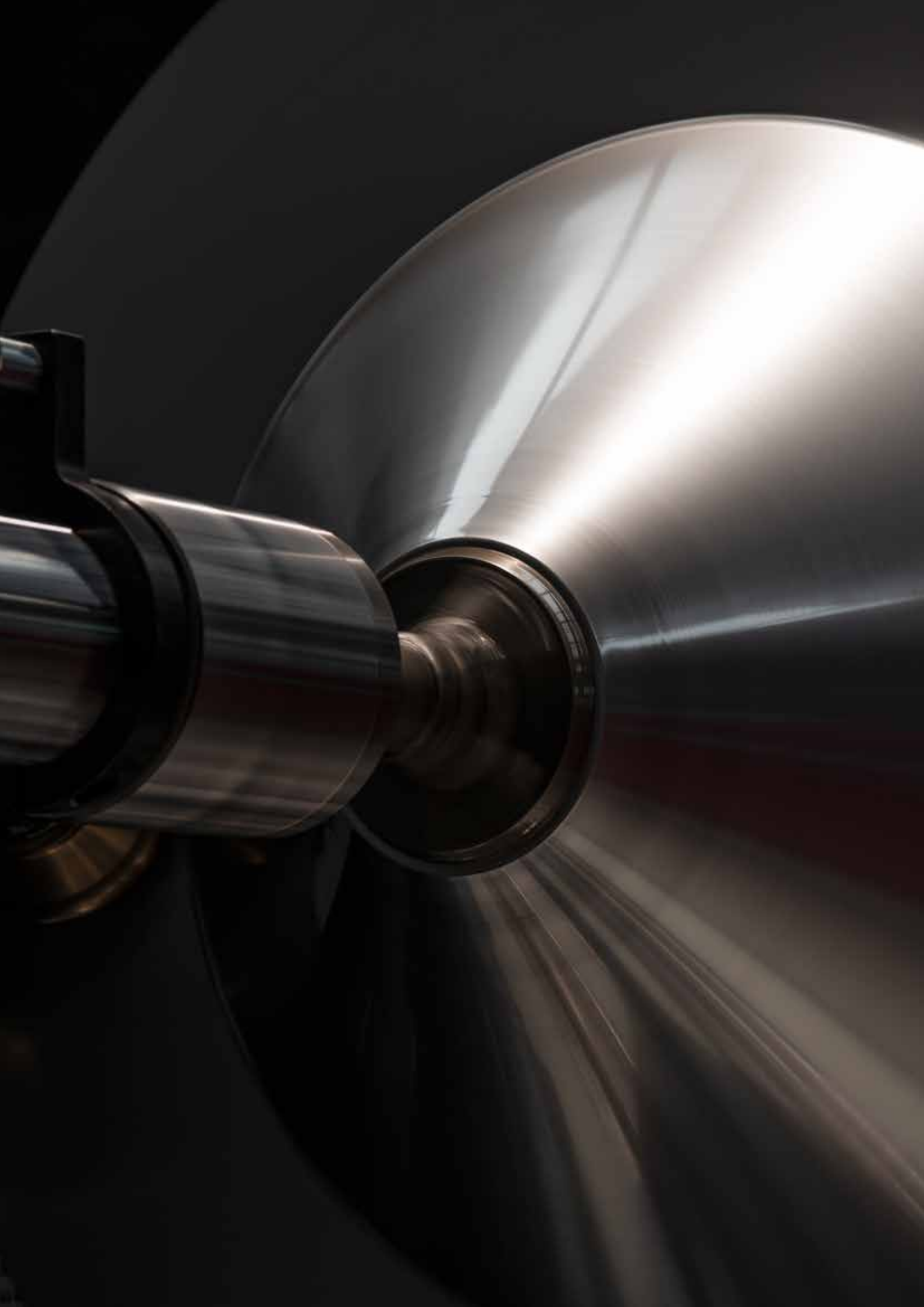
Therefore, we decided the time has come to present Nova Sidera from within, starting with the values that drive us and the message we want our brand to represent to our customers, suppliers and co-workers.

For our company, the year 2020 marked 30 years of operation and the final handover to the second generation of the Tasso family at the helm of Nova Sidera. Ours is a relatively small business based on the deeply held values of accuracy, quality and constant improvement of our products and services.
Our business format has always been centered on forging strong relationships with our customers, suppliers, co-workers and partner companies with the goal of building value and long-lasting relationships to ensure a solid and stable future.

Enjoy!

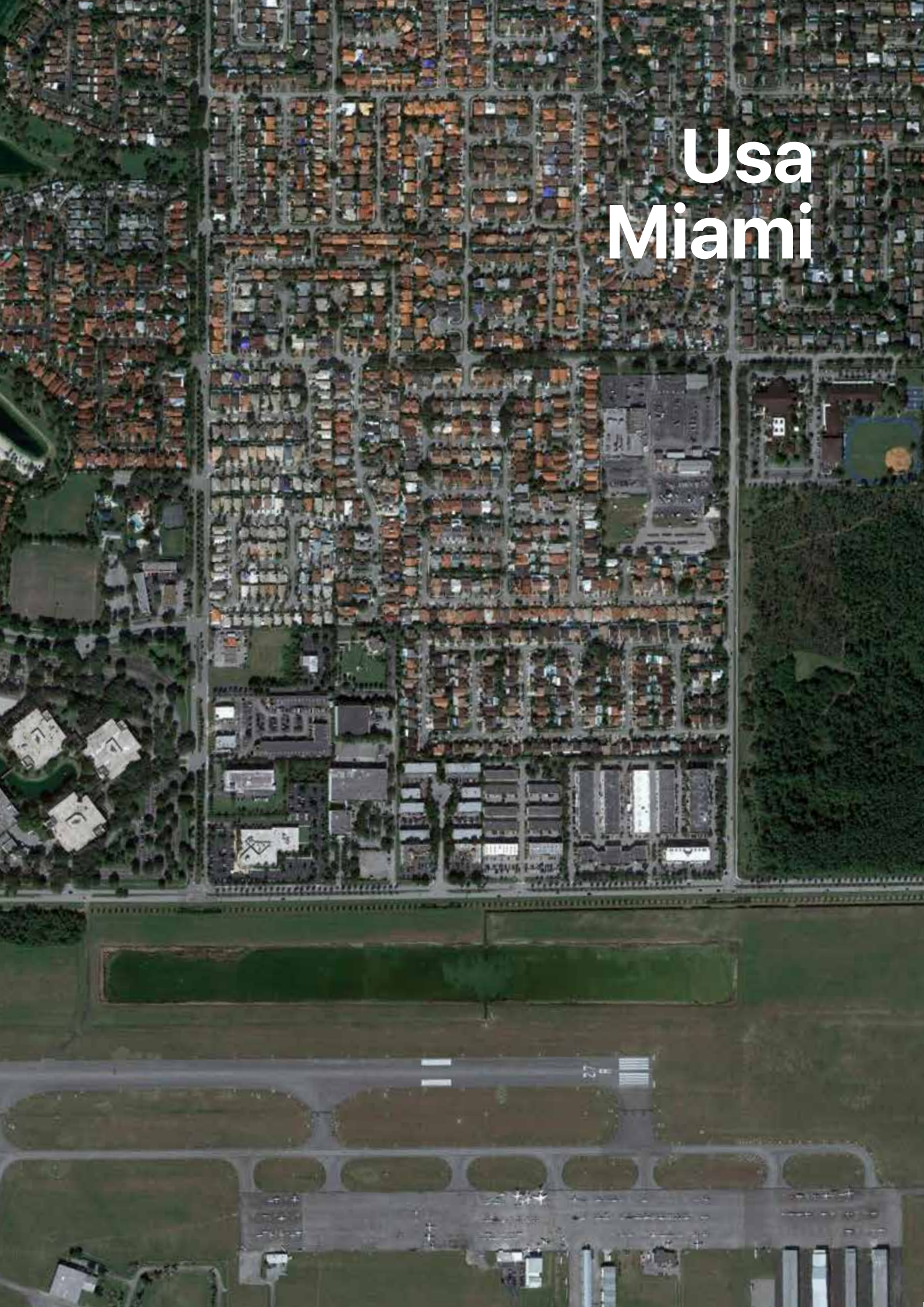
Elena Tasso

Elena Tasso, CEO



Contents

Italia
Castell'Alfero


Usa
Miami

Italia
Castell'Alfero

Nova Sidera was founded and continues to be headquartered in Castell'Alfero, a small town of 2,700 residents near Asti.
Nestled between vineyards and lush woods, Asti is famous for its historic medieval village and castle, at the feet of which you can find interesting taverns and restaurants serving typical Piedmontese truffle-seasoned dishes. Since 1989, Castell'Alfero has participated in the Palio di Asti, a festival dedicated to the patron saint of San Secondo that culminates every third Sunday of September in a bareback horse race that takes place in Asti's Piazza Alfieri. In 2007, we had the honor of hosting the Castell'Alfero flag-flyers during the inauguration of our new 2,500 mq factory.

Usa Miami

In 2017, we opened an office in sunny Miami, with its 471,000 residents, commercial and tourist port (ranked 11th in the US) and busy international airport (among the main hubs for flights to the US). This 300 mq commercial office, including 200 mq of dedicated workshop space, represents our commercial outpost for customers in the United States, Canada, Australia, UK and South America. The United States and Canada have always been our target markets, and our new on-site location allows us to offer improved technical and logistical support to our overseas customers.

History of the company: From its founding to the second generation

Nova Sidera was started in 1990. The company's founder, Silvano Tasso, with the tireless support of his wife, Tiziana, pursued the idea of creating a safer spinning lathe that could enhance the capabilities of metal spinners by facilitating machine programming with a playback joystick. Since then, Nova Sidera has been recognized for its reliability, high degree of customization and utmost attention to customer service.
Elena Tasso and Alessandro Tasso, the founder's children, have been managing company operations since 2012 and became owners of the company in 2021. This second generation has focused its efforts on improving production processes as well as research and development of innovative solutions, thereby solidifying the company's position as partner and consultant for their customers.

Nova Sidera today

Elena Tasso
Partner and sole director of Nova Sidera Metal Forming S.R.L. and President of Nova Sidera Corp. Coordinates the management activities of the two companies from a productive/organizational and administrative/fiscal perspective. Oversees marketing and staff management.

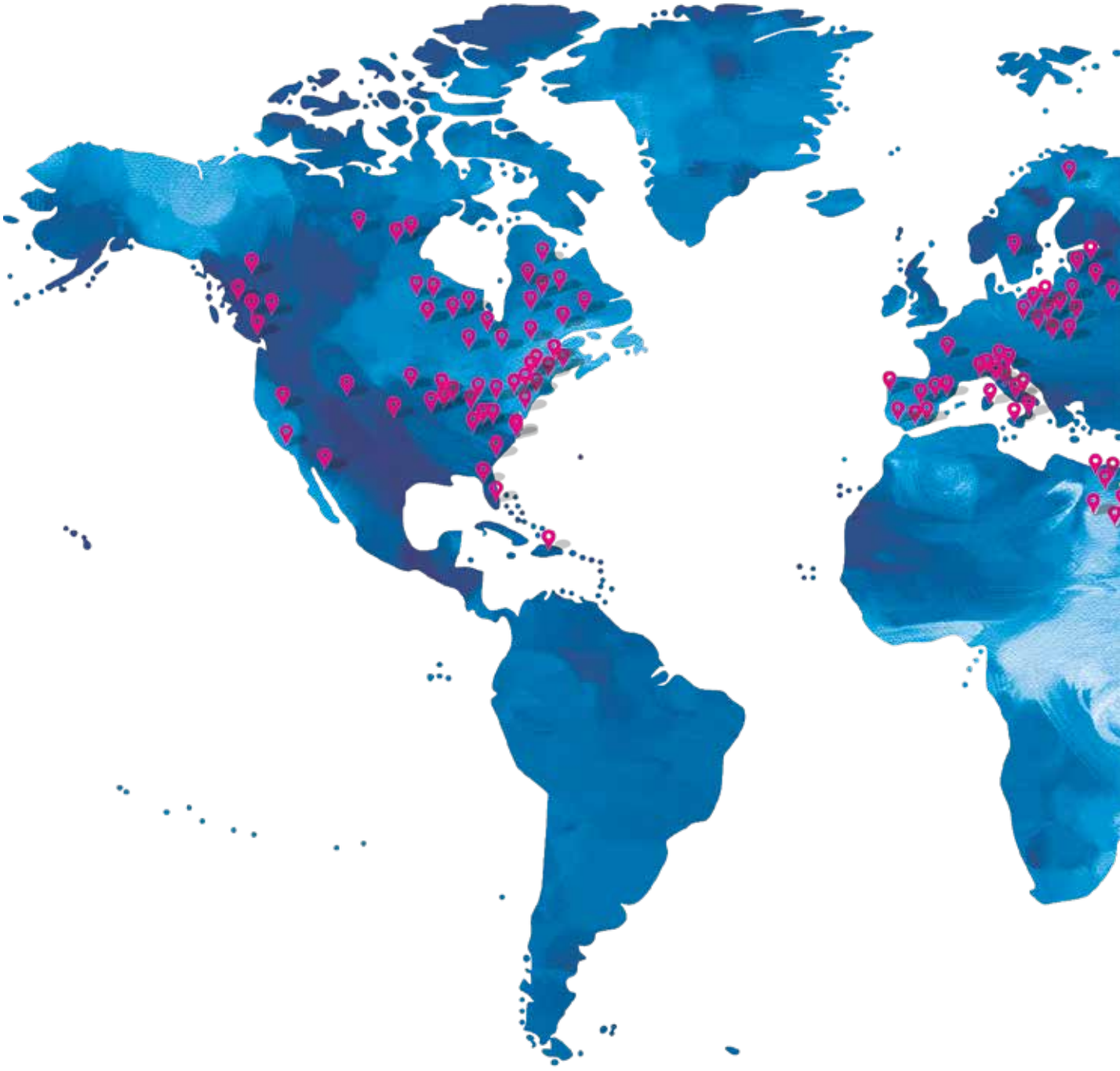
Alessandro Tasso
Partner and worldwide customer service supervisor. Manages Research and Development as well as training and technical updates for customers.

Luca Zannol
Manager of the design and sales management office. Works side by side with Alessandro in the company's Research and Development area.

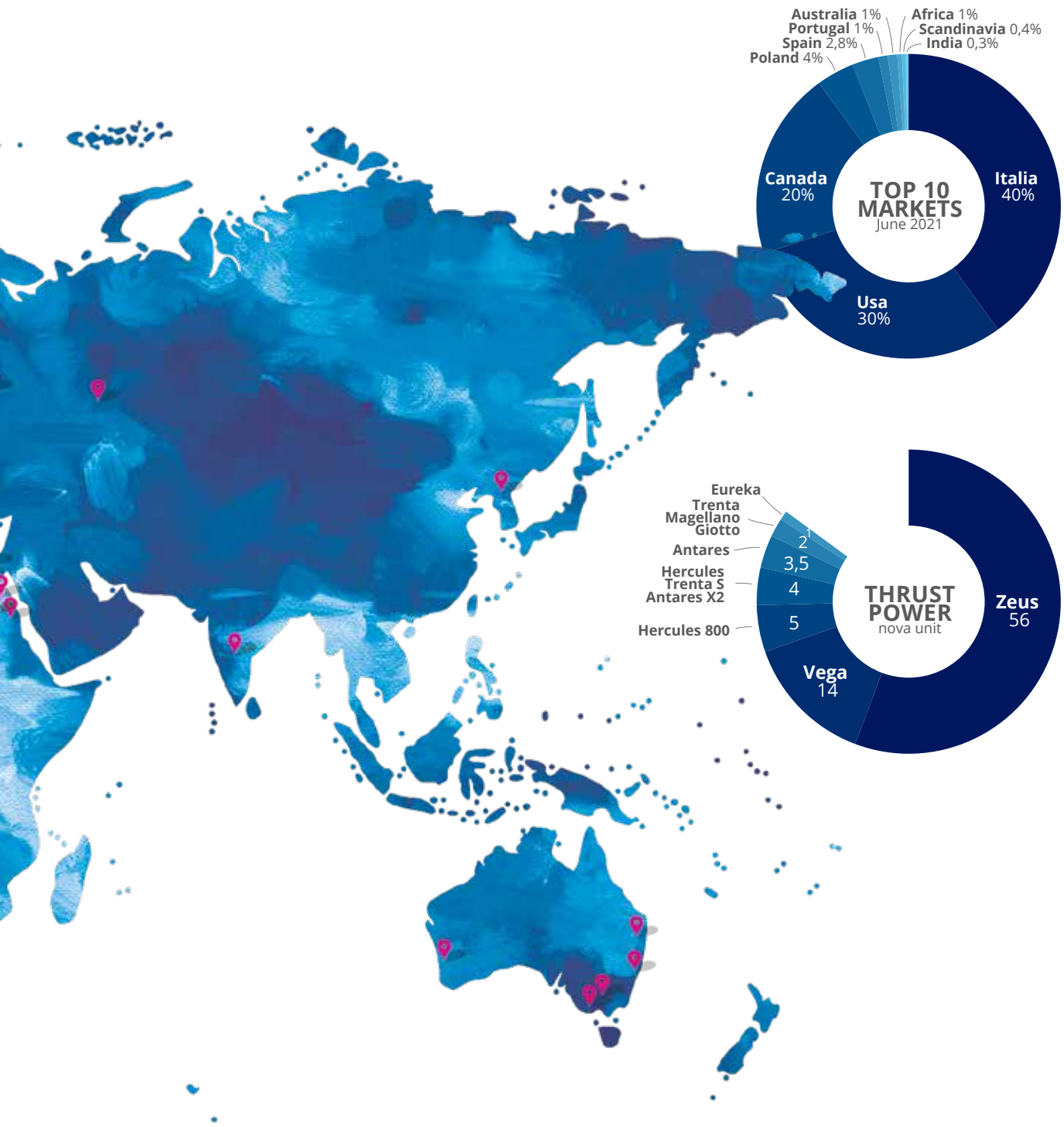
Claudio Tiozzo
Reliability and deep knowledge of metal deformation technologies—a go-to expert for all our Italian customers.

Gianfranco Pirastu
Managing director and member of the Nova Sidera Metal Forming Corp. Board.
Since 2018, coordinates and manages sales activities from the Miami headquarters.

Over 500 installations worldwide



Since the very beginning, Nova Sidera has maintained an active presence in foreign markets, preparing both the linguistic and logistic/customs resources necessary to offer comprehensive services to its global customer base.

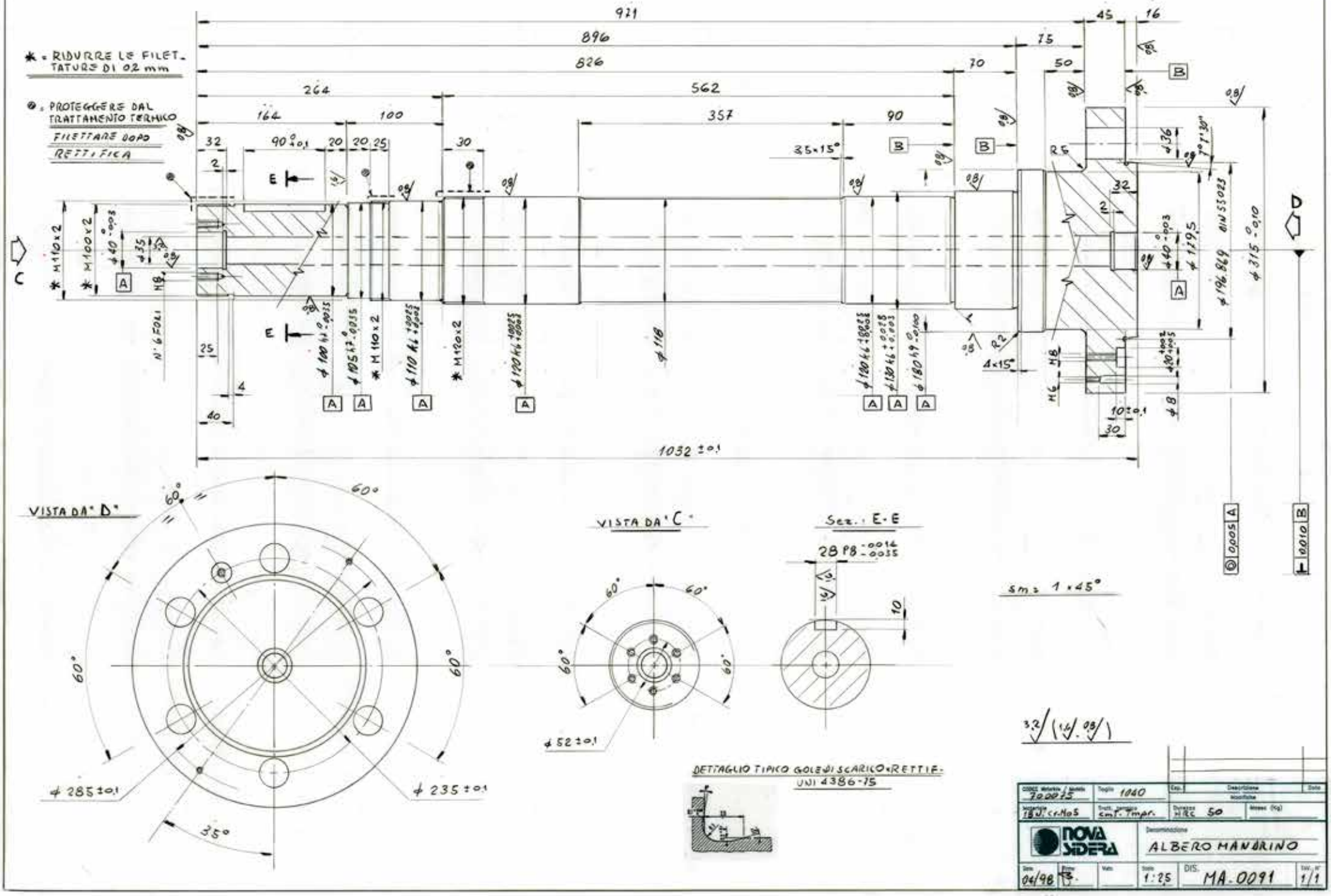


Our manufacturing process

The careful selection of raw materials and detailed production of components, reinforced by our selective group of reliable suppliers and strong global presence, form the foundation on which our machinery and services are built. Internally, Nova Sidera handles the order from beginning to end, starting with the initial design, followed by processing and finishing with machine tools, up to the final assembly, programming and testing of its products, culminating in outstanding technical assistance and user/refresh training for our spinning lathes.

Customized formulation and design

From drawing to drafting machine to 3D modeling.
Each project starts by providing a customer solution that satisfies regulations and measurement systems from around the world.
The engineering department is the linchpin of the system, supporting sales using both standard models as well as completely new and innovative solutions.
Our strength lies in flexibility and customization. Our work has a dual nature—while industrialized and technological, it is also very artisan. The technical aspect is characterized by the components and software chosen for the construction of machinery, which are constantly in the forefront in terms of both production and organizational processes following Transition Plan 4.0 guidelines.
The craftsmanship aspect, however, allows flexibility and provides the opportunity for customization of products and services based on the actual needs and requests of the customer.
This approach also extends to research and product innovation initiatives, which are constantly keeping pace with actual production needs in order to anticipate market demands. In this context, successful collaboration among customers and suppliers is crucial in order to create an endless, stimulating drive for new ideas and insights.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90
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45
16
32
2
20
25
30
35×15°
4×15°
R5
R2
1032 ±0.1
VISTA DA "D"
VISTA DA "C"
Sez. E-E
28 P8 -0.014 -0.035
sm = 1×45°
ϕ 285±0.1
ϕ 235±0.1
ϕ 52±0.1
DETTAGLIO TIPICO GOLENI SCARICO «RETTIE»
UNI 4386-75
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NOVA SIDERA
ALBERO MANDRINO
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From raw material to finished product

Nova Sidera has always produced exclusively to specification while applying lean manufacturing principles and has developed, over the years, its own organizational and production system consistent with Transition Plan 4.0 guidelines. Every phase of the order's life cycle is overseen with management software, and the production process is organized by production orders and company Manufacturing Execution System (MES) for control and progress monitoring throughout each production phase.

The process also includes a connection with the management software of the sawing machine, work center, and milling cutter for production control and remote programming via Computer-Aided Drafting (CAM), as well as the automated warehouse.

Each material and component is coded and located in two different warehouses, depending on type. Raw materials are stored separately in the machining department while purchased components, semi-finished products and finished products are stored in the vertical automated warehouse with 32 drawers and a total of 115 m2 of useful surface area.

Nova Sidera has been investing in its own machining department since 2018. This investment is motivated by Nova Sidera's belief that quality is not just what you see in the finished machine but also represented by every single component and process used to produce it.

Where a lathe is born for Nova Sidera.

At least 80% of machining operations are carried out in-house specifically for the vital parts of the machine, while the processing of electro-welded components and any heat or surface treatments are contracted out to qualified suppliers.

Thanks to the use of a 5-axis DMG work center, we can process machine components of up to 2 meters in length.

Both this work center and the other CN cutter available on site can be programmed quickly and precisely using the latest-generation CAM.

This approach allows us to specifically train our staff, especially those involved in testing and after-sales service.

Technicians can learn the details of each production phase of the machinery, greatly reducing response times and facilitating the troubleshooting of each structural unit of our spinning lathes while gaining a deeper understanding of the reasons behind the technical choices made.

The difference is in the raw material.
Every machine starts with the most precise and meticulous choice of material depending on its intended use, as the quality of the material determines the service life of the components and reliability of the spinning lathe itself.
From hardened steels to super rapid steels, alloy steels and even aerospace aluminum alloys and carbon alloys, Nova Sidera capitalizes on specific material characteristics to improve and optimize the performance of its machines.

The machining department comprises the following areas:

- Welding area
- Raw material cutting area with automatic sawing machine and Nova Sidera circle cutters
- Removal turning area with CN lathe and manual lathes
- Milling area with a 5-axis DMG work center (Model DMF260) and DEBER CN milling cutter (refurbished by Nova Sidera)
- Adjusting area with column drills, grinder

Other processing

Proper alignment is essential in order to fully harness the machine's power. The primary assembly phase of our spinning lathes is alignment of the components. The mechanical department performs the alignment following precise procedures with the aid of a 2-meter measuring arm and precision mechanical instruments guaranteeing tolerances of up to 0.02 mm.

The machine assembly tolerances are recorded in a report to be analyzed and subsequently filed with the job order.

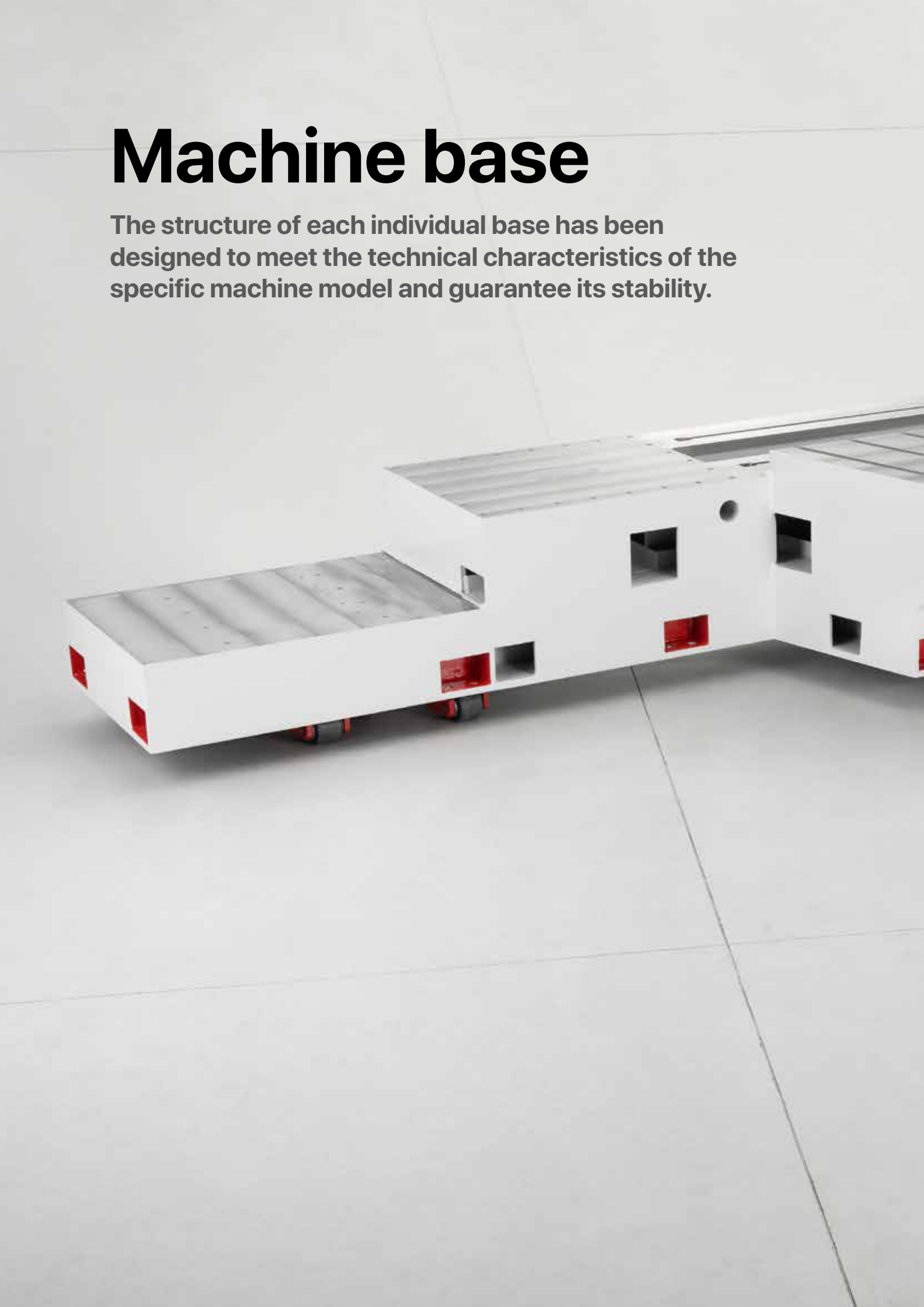
Taste is subjective, quality is not.
We measure quality.

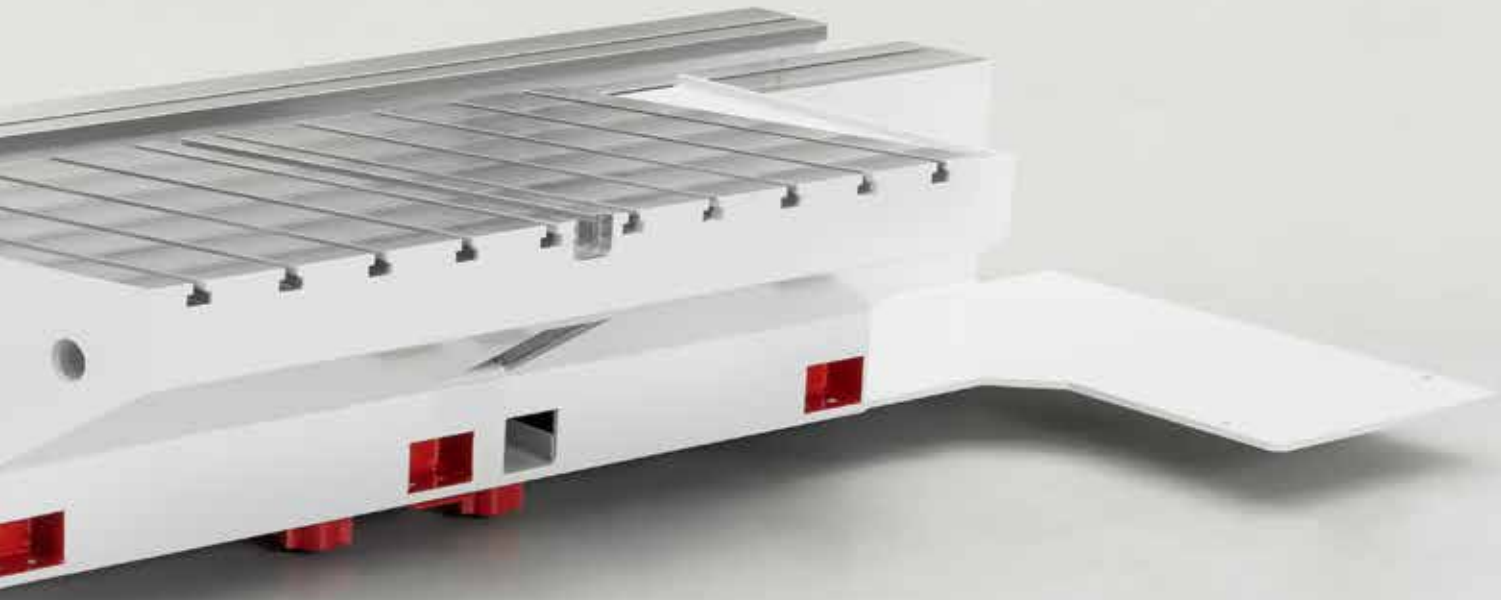
Technical file.
Archiving the technical file of each individual order is another essential step in facilitating the efficiency and effectiveness of the service department. A unique job order number is associated with each machine. This number is registered in the company management software and matched with the buyer, indicating the specific machine equipment in order to guarantee both documentary and technical traceability of the individual product. In the event an issue arises, this traceability allows for quick and proper identification of the broken or defective component and ensures its replacement with minimal machine downtime. Moreover, it is also important to have record of the state of the art at the time of any retrofit, verification of compatibility with accessories requested and installed later, or the creation of compatibility kits for older machines.

The appeal of machining.
Accuracy and exactness in the machining of precision mechanical parts, in addition to quality and reliability, lead to enhanced aesthetics of the machinery.
Thanks to precise milling and grinding with 0.01-mm tolerances, our spindle supports are the foothold of the entire machine structure for both sheet spinning and even machining of the molds, finished directly in the spinning lathe. This provides a significant advantage as it creates the tool directly in the machine, making it practically perfect for production with the chosen machinery.

Machine base

The structure of each individual base has been designed to meet the technical characteristics of the specific machine model and guarantee its stability.





It all starts with solid bases

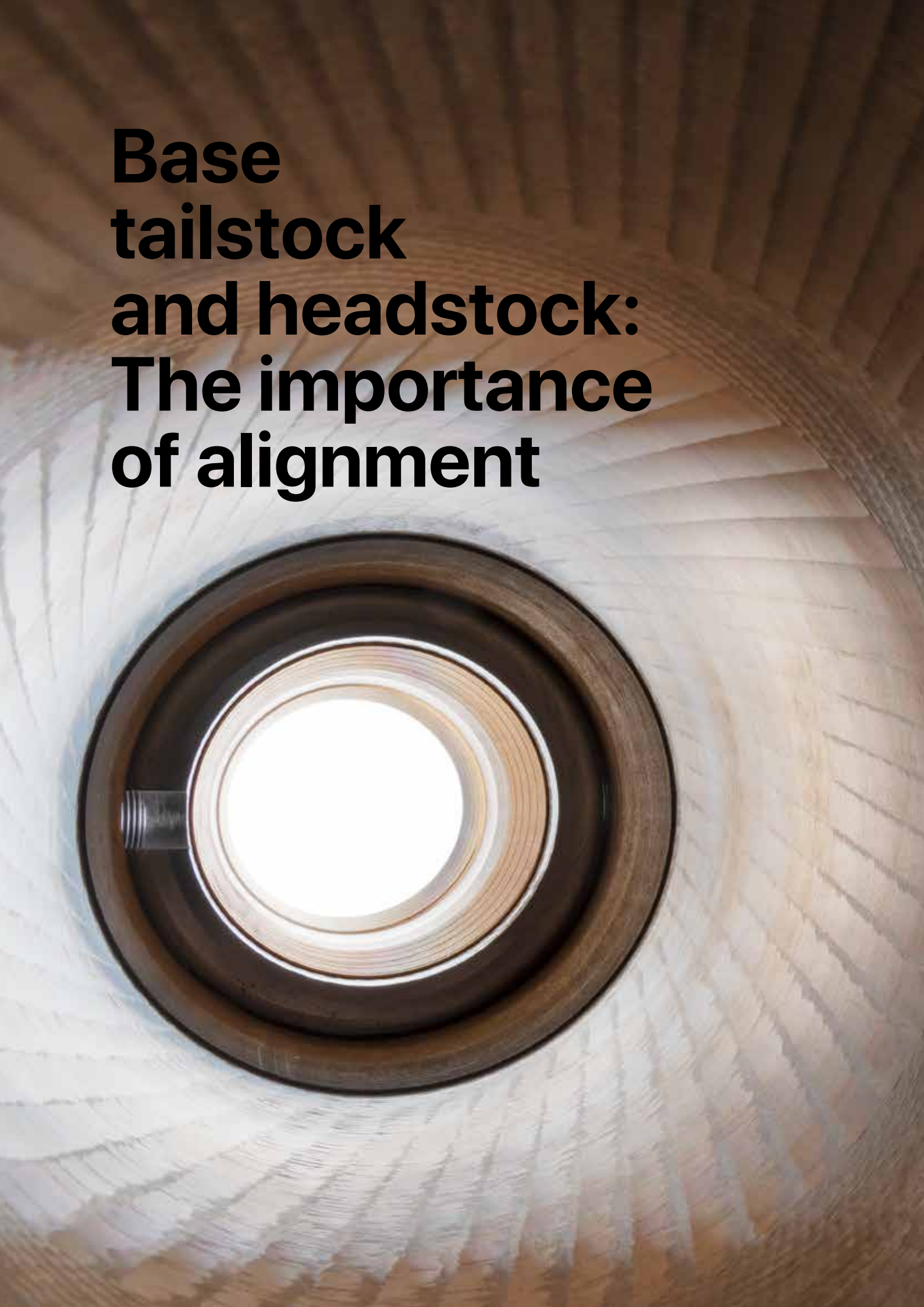
Our bases will never be too small and light or too big and heavy. They will only be properly sized. Steel is a precious asset and should be used correctly at the right points, with proportions commensurate with the actual size of the machine.

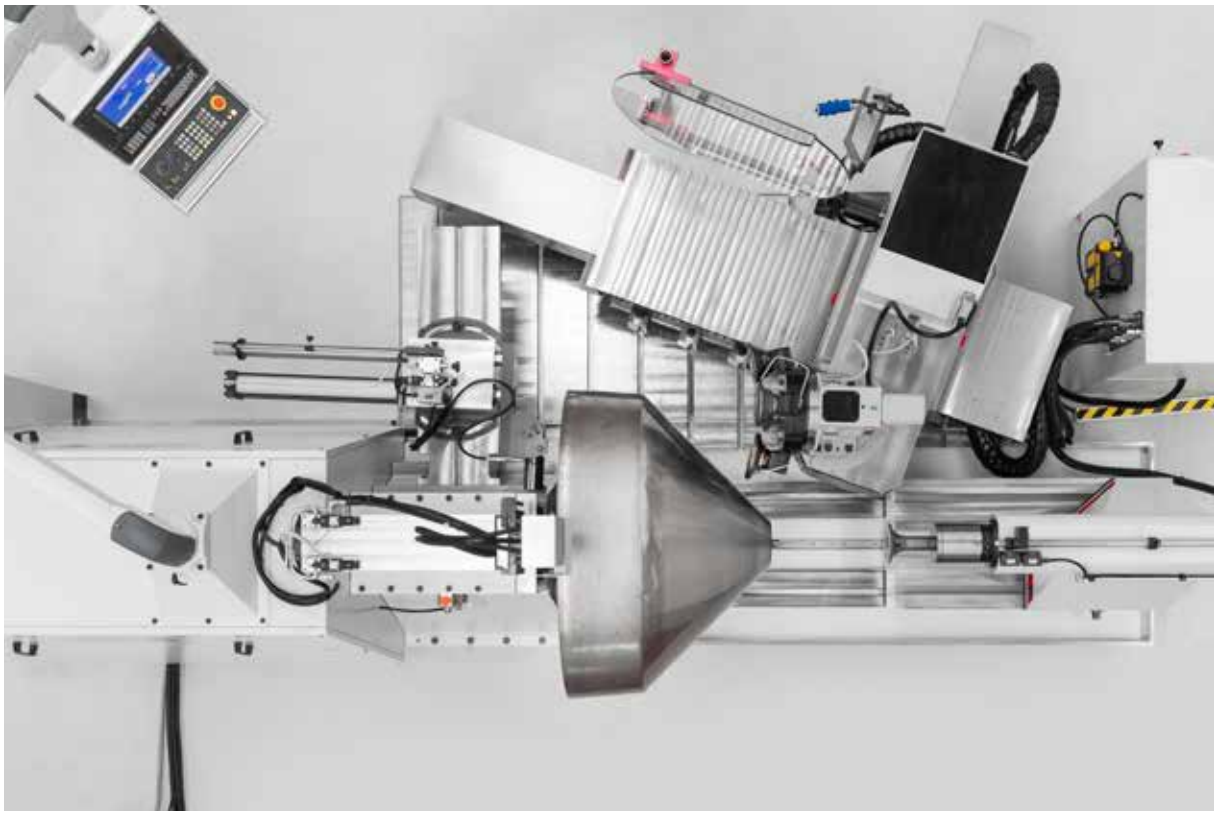
Each base consists of a normalized electro-welded steel structure with, depending on the model, internal passages or arrangements of struts and folders designed to allow proper passage of electric cables and hydraulic hoses.

The bases are designed to facilitate handling of the entire machine by providing special seats for the passage and anchoring of slings when using self-propelled cranes or gantry cranes. The lifting holes are placed strategically so that once the spinning lathe is assembled, the center of the triangle or quadrilateral of holes corresponds to the center of gravity of the machine.

The turned and burnished leveling feet are easy to adjust during commissioning to anchor the base to the ground and provide simple alignment of the machinery.
To allow for quick and easy start-up, our bases do not need to be secured to the ground. Depending on the machine model, the base can be sitting on the ground or designed to be inserted into special holes in industrial warehouses, allowing easier operator access to the work area for more powerful lathes with larger diameters.
The processing quality of the upper surface of the base is essential to allow proper alignment between the main axis group, headstock and tailstock of the entire machinery as well as their movement and repositioning when processing requires a larger inclination of the roller with respect to the disk.

Base tailstock and headstock: The importance of alignment

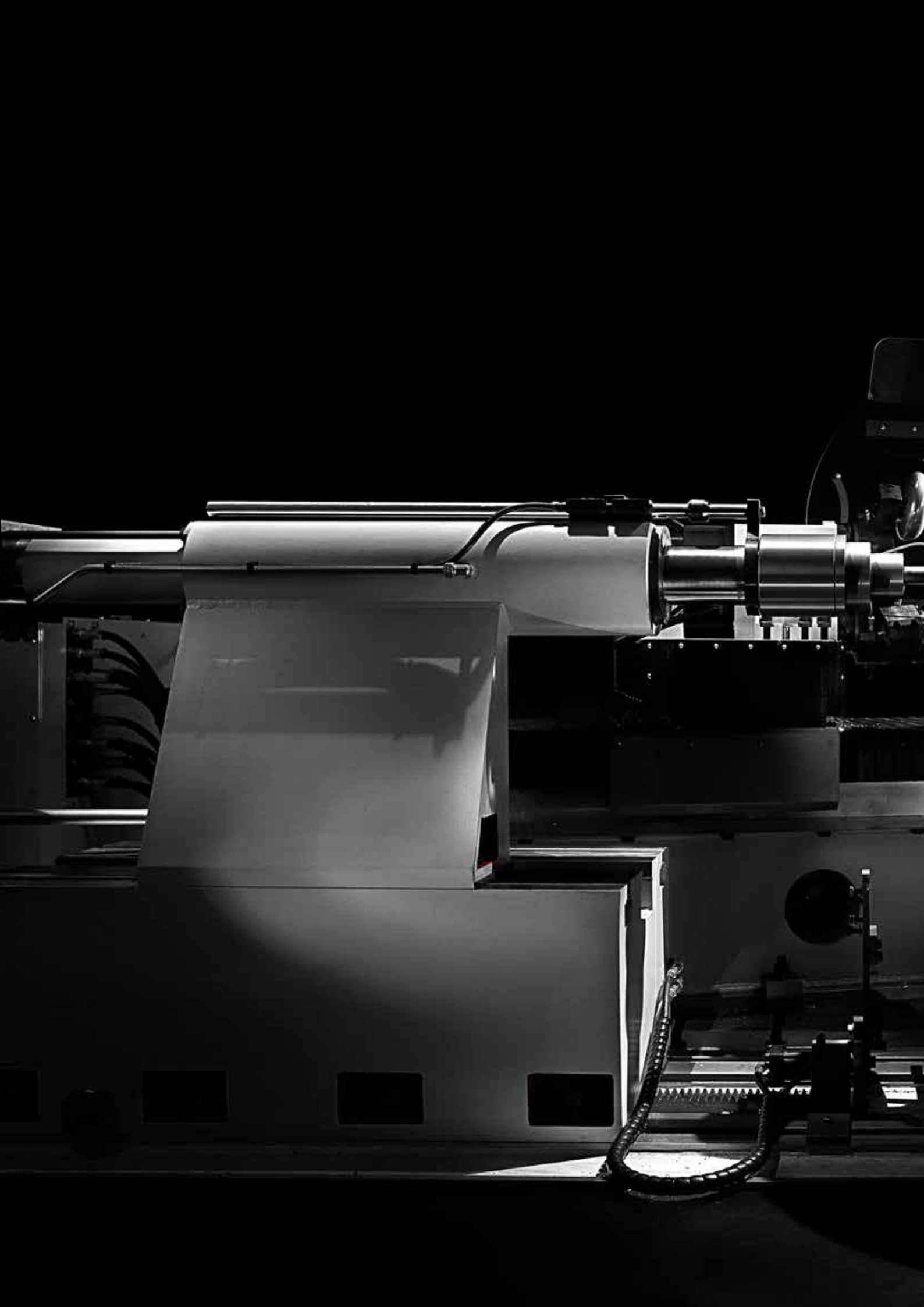




Base tailstock and headstock

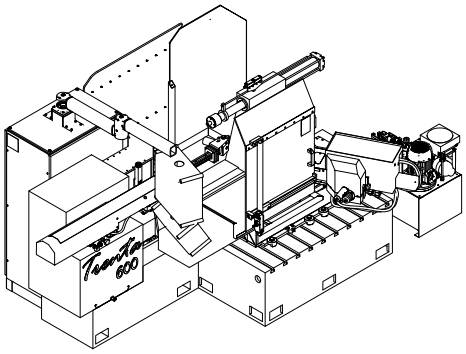
The assembly mechanic uses an internal procedure, with the aid of specific measuring instruments such as the measuring arm, to perform a pre-alignment of the individual unfinished components for verification of nominal dimensions before painting. Later, during assembly of the units, the center of the spindle axis is aligned with the center of the tailstock axis with a maximum tolerance of 3-4 hundredths.

The layout.
In the lathes with the Nova Sidera Easy Spinning playback system, the layout of the machine is the same as that used since 1990. The machine is structured with two opposite operating areas. One part is identified by the playback joystick where the first piece is programmed while the other is the operational part for loading and unloading the pieces during production. This machine configuration allows the operator complete visibility of the work area during any self-learning programming, without the roller and mold obstructing the view, thereby benefiting from hand-eye coordination while programming the part being spun.



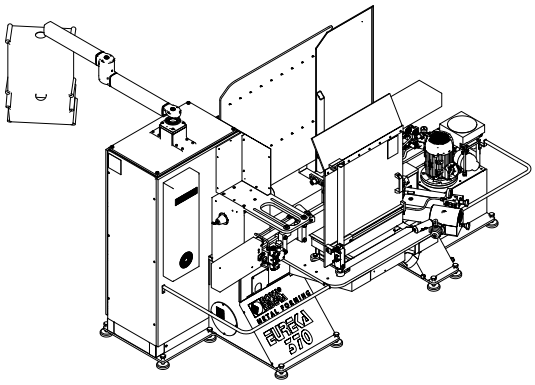

NOVA
MAGNA 80 EE

The range of machines



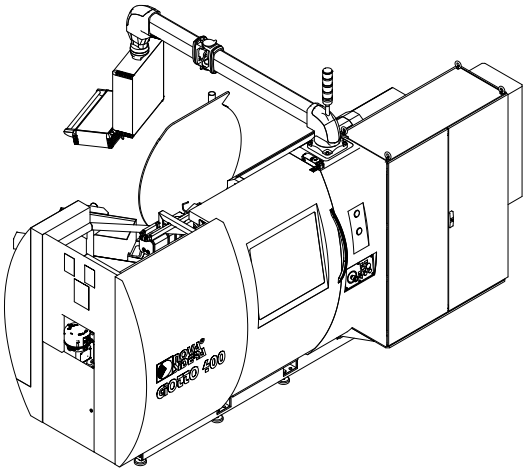
Trenta

Models: 600, 600s
Nova Sidera unit: 2
Aluminum: 5÷8 mm
Steel R40: 3÷5 mm
Stainless Steel R70: 2÷3 mm



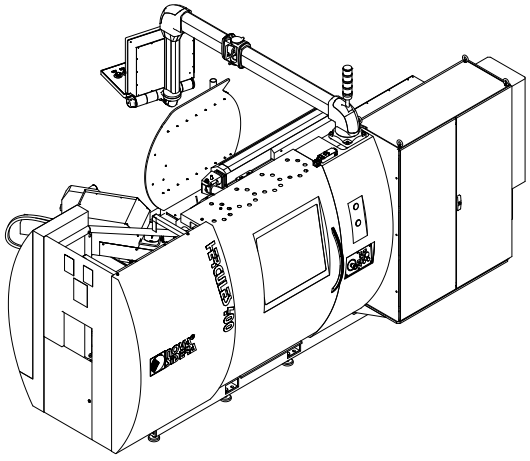
Eureka

Models: 375
Nova Sidera unit: 1
Aluminum: 2,5 mm
Steel R40: 1,5 mm
Stainless Steel R70: 1 mm



Giotto

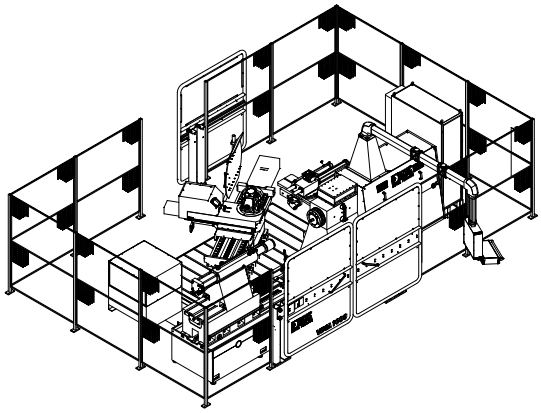
Models: 400, 600
Nova Sidera unit: 2
Aluminum: 5 mm
Steel R40: 3 mm
Stainless Steel R70: 2 mm



Hercules

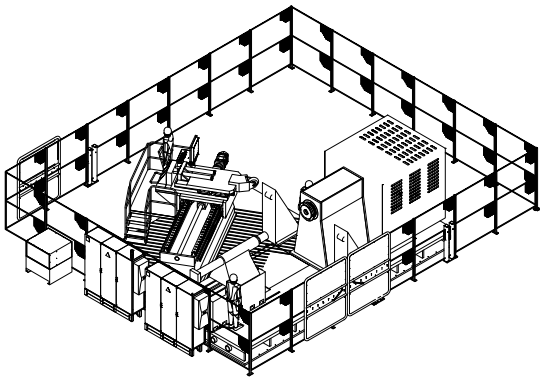
Models: 400, 600, 800
Nova Sidera unit: 4÷5
Aluminum: 8 mm
Steel R40: 5 mm
Stainless Steel R70: 3 mm

We offer our customers a series of catalog models equipped with numerical control and playback. All models can also be customized, or we can design ad hoc solutions by customer request, including semiautomatic machines and machines without a playback system.



Vega

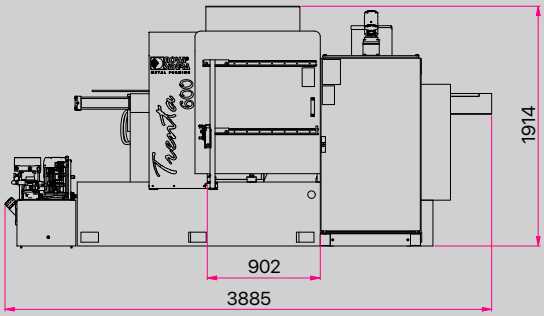
Models: 600, 800, 1000
Nova Sidera unit: 14
Aluminum: 15 mm
Steel R40: 10 mm
Stainless Steel R70: 6 mm

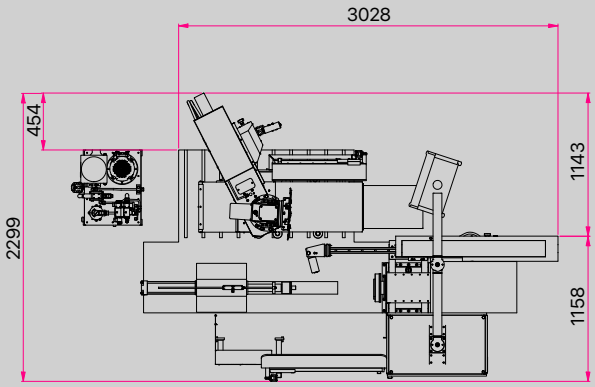


Zeus

Models: 1750
Nova Sidera unit: 56
Aluminum: 24 mm
Steel R40: 16 mm
Stainless Steel R70: 12 mm

Trenta

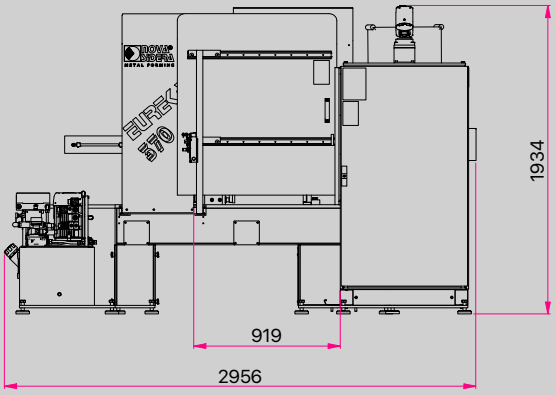


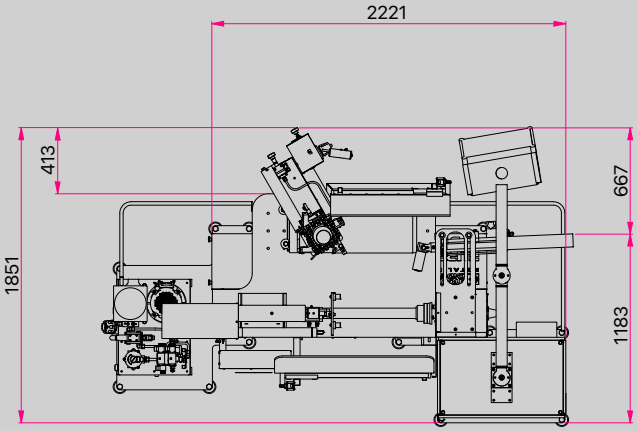


Features		**600**	**600s**
Height of centers	mm (inch)	620 (24.4)	650 (25.59)
Distance between centres	mm (inch)	1.200 (47.24)	1.400 (55.11)
Max disc diameter	mm (inch)	1.240 (48.81)	1.300 (51.18)
X axis stroke	mm (inch)	450 (17.71)	500 (19.68)
Max X axis speed	m (inch)/min	8 (314.96)	6 (236.22)
X axis drive type		hydraulic	
Z axis stroke	mm (inch)	750 (29.52)	700 (27.55)
Max Z axis speed	m (inch)/min	8 (314.96)	6 (236.22)
Z axis drive type		hydraulic	
Tailstock stroke	mm (inch)	600 (23.62)	700 (27.55)
Back roller stroke	mm (inch)	550 (21.65)	550 (21.65)
Spindle turns	N°/min	100 ÷ 1,500	100 ÷ 1,500
Spindle flange ASA		8	11
Motor power	kW	22	22
Turret tools holder	N°	6	6
Installed power	kW	33	35
Approx weight	Kg	5,000	9,800

Deformation capacity			
Aluminum	mm (inch) - Gauge	5 (0.196) - 4	8 (0.314) - 0
Steel R40	mm (inch) - Gauge	3 (0.118) - 11	5 (0.196) - 4
Stainless steel R70	mm (inch) - Gauge	2 (0.070) - 14	3 (0.118) - 11

Eureka

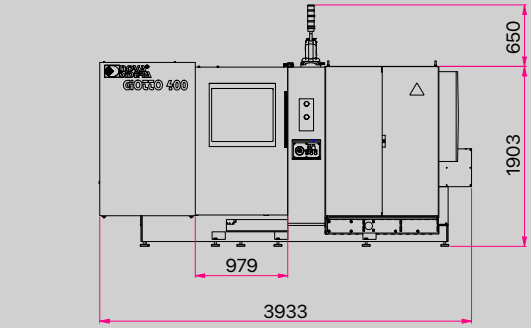


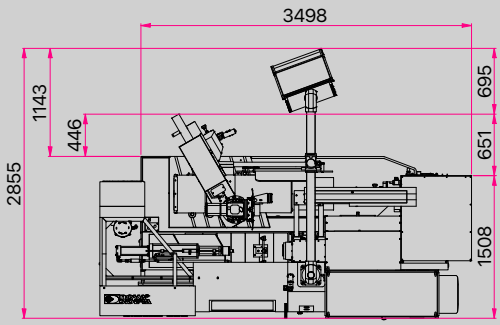


Features		375
Height of centers	inch	14.76
Distance between centres	inch	27.55
Max disc diameter	inch	27.55
X axis stroke	inch	11.81
Max X axis speed	inch/min	393.7
X axis drive type		hydraulic
Z axis stroke	inch	15.74
Max Z axis speed	inch/min	393.7
Z axis drive type		hydraulic
Tailstock stroke	inch	13.77
Back roller stroke	inch	13.77
Spindle turns	N°/min	100 ÷ 3,200
Spindle flange ASA		4
Motor power	kW	5,5
Turret tools holder	N°	4
Installed power	kW	10
Approx weight	Kg	1,700

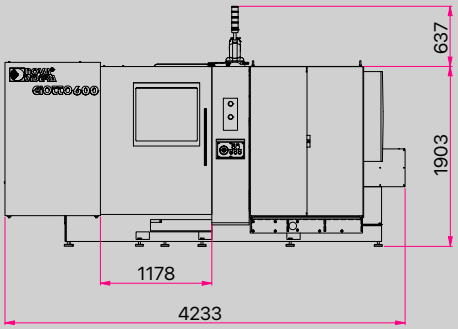
Deformation capacity		
Aluminum	inch - Gauge	0.098 - 12
Steel R40	inch - Gauge	0.059 - 14
Stainless steel R70	inch - Gauge	0.039 - 20

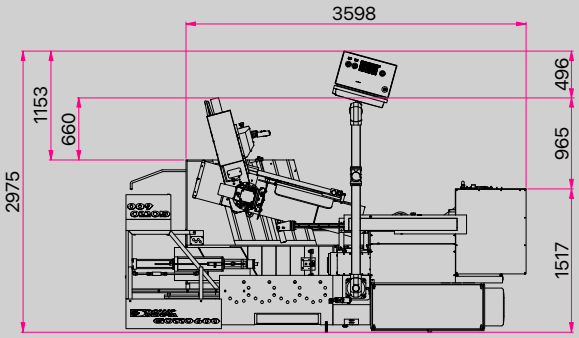
Giotto 400





Giotto 600

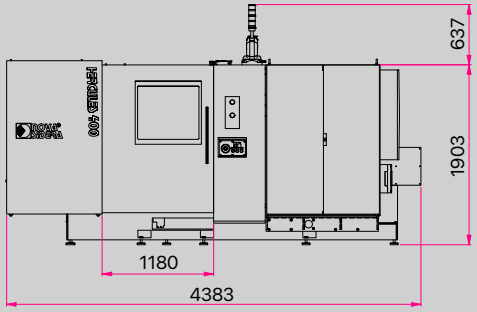


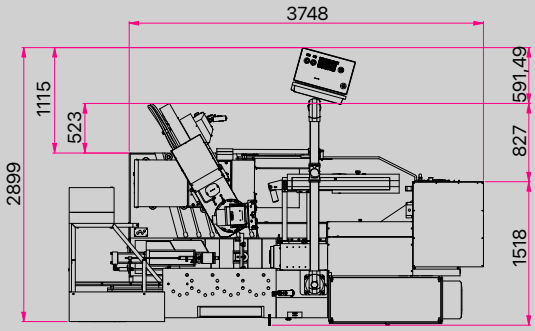


Features		**400**	**600**
Height of centers	inch	22.44	24.4
Distance between centres	inch	39.37	47.24
Max disc diameter	inch	44.88	48.81
X axis stroke	inch	15.74	17.71
Max X axis speed	inch/min	314.96	314.96
X axis drive type		hydraulic	
Z axis stroke	inch	19.68	23.62
Max Z axis speed	inch/min	472.44	472.44
Z axis drive type		electric	
Tailstock stroke	inch	19.68	23.62
Back roller stroke	inch	17.71	21.65
Spindle turns	N°/min	50 / 2,500	50 / 2,500
Spindle flange ASA		6	8
Motor power	kW	11	17
Turret tools holder	N°	6	6
Installed power	kW	16	21
Approx weight	Kg	4,900	4,900

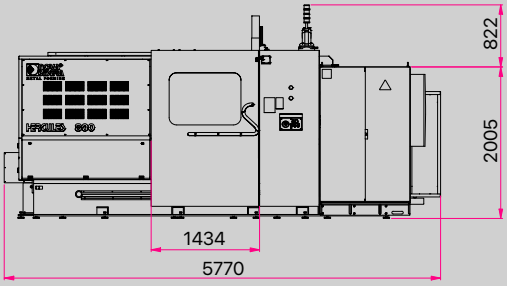
Deformation capacity			
Aluminum	inch - Gauge	0.196 - 4	0.314-0
Steel R40	inch - Gauge	0.118 - 11	0.196-4
Stainless steel R70	inch - Gauge	0.07 - 14	0.118-11

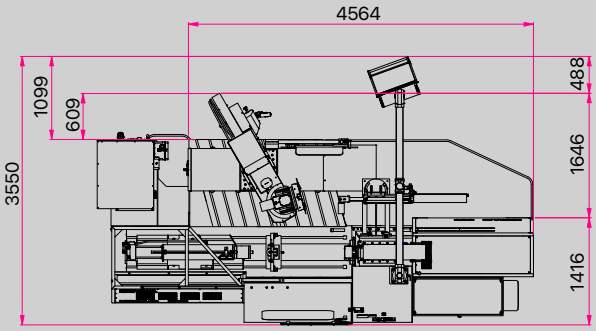
Hercules 400





Hercules 800

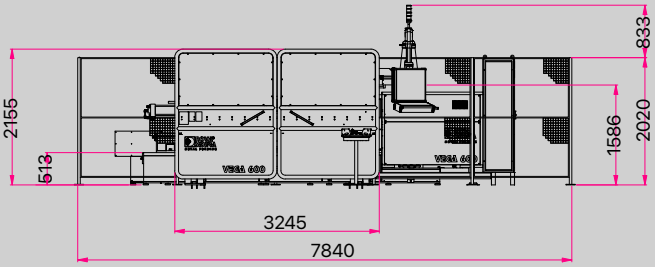


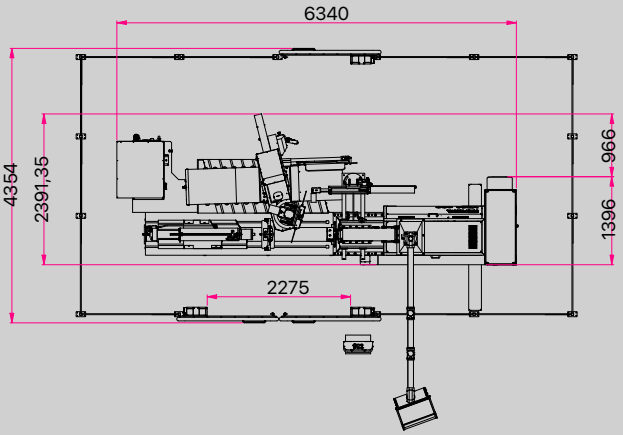


Features		400	600	800
Height of centers	inch	22.24	25.59	32.28
Distance between centres	inch	47.24	55.11	59.05
Max disc diameter	inch	44.88	51.18	64.56
X axis stroke	inch	15.74	19.68	21.65
Max X axis speed	inch/min	314.96	236.22	236.22
X axis drive type			hydraulic	
Z axis stroke	inch	23.62	27.55	39.37
Max Z axis speed	inch/min	393.7	314.96	236.22
Z axis drive type			electric	
Tailstock stroke	inch	19.68	27.55	35.43
Back roller stroke	inch	17.71	21.65	21.65
Spindle turns	N°/min	50 / 2,000	50 / 1,500	80 / 1,200
Spindle flange ASA		8	11	11
Motor power	kW	17	22	30
Turret tools holder	N°	6	6	4
Installed power	kW	24	35	43
Approx weight	Kg	5,200	9,800	11,000

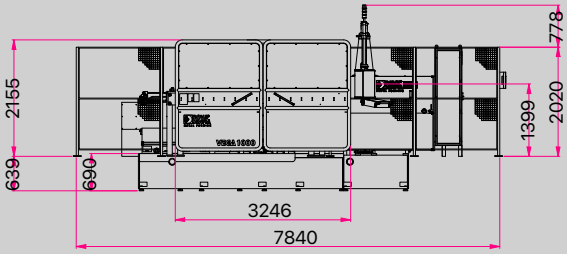
Deformation capacity				
Aluminum	inch - Gauge	0.314 - 0	0.314 - 0	0.314 - 0
Steel R40	inch - Gauge	0.196 - 4	0.196 - 4	0.196 - 4
Stainless steel R70	inch - Gauge	0.118 - 11	0.118 - 11	0.118 - 11

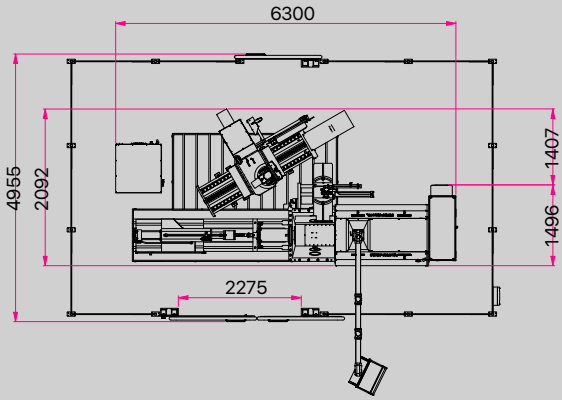
Vega 600





Vega 1000

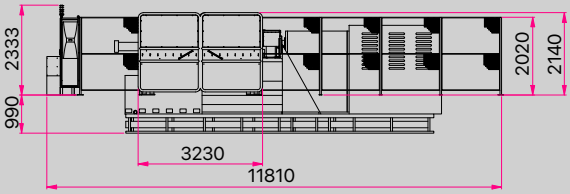


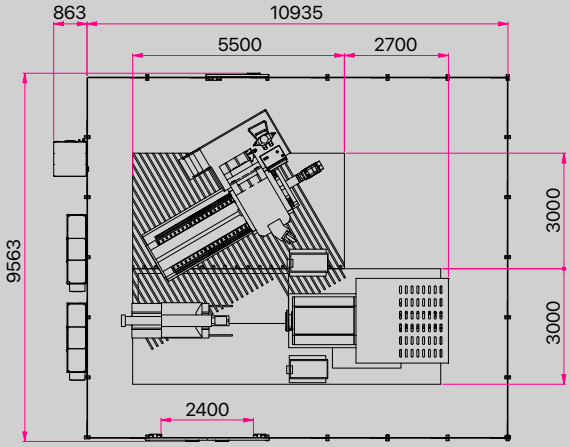


Features		600	800	1000
Height of centers	inch	25.29	32.28	41.34
Distance between centres	inch	47.24	78.74	78.74
Max disc diameter	inch	51.18	64.57	82.67
X axis stroke	inch	21.65	21.65	21.65
Max X axis speed	inch/min	6	6	6
X axis drive type			hydraulic	
Z axis stroke	inch	39.37	39.37	47.24
Max Z axis speed	inch/min	6	6	6
Z axis drive type			electric	
Tailstock stroke	inch	35.43	35.43	35.43
Back roller stroke	inch	21.65	29.52	29.52
Spindle turns	N°/min	80 / 1,200	80 / 1,200	80 / 1,200
Spindle flange ASA		11	11	11
Motor power	kW	30	40	40
Turret tools holder	N°	4	4	4
Installed power	kW	43	63	63
Approx weight	Kg	11,000	13,000	18,000

Deformation capacity				
Aluminum	inch - Gauge	0.59 - 000000	0.59 - 000000	0.59 - 000000
Steel R40	inch - Gauge	0.393 - 000	0.393 - 000	0.393 - 000
Stainless steel R70	inch - Gauge	0.236 - 3	0.236 - 3	0.236 - 3

Zeus





Features		**1750**
Height of centers	inch	68.89
Distance between centres	inch	98.42
Max disc diameter	inch	137.79
X axis stroke	inch	27.55
Max X axis speed	inch/min	157.48
X axis drive type		hydraulic
Z axis stroke	inch	86.61
Max Z axis speed	inch/min	196.85
Z axis drive type		electric
Tailstock stroke	inch	39.37
Spindle turns	N°/min	5 ÷ 200
Spindle flange ASA		20
Motor power	kW	105
Turret tools holder	N°	single roller
Installed power	kW	150
Approx weight	Kg	90,000

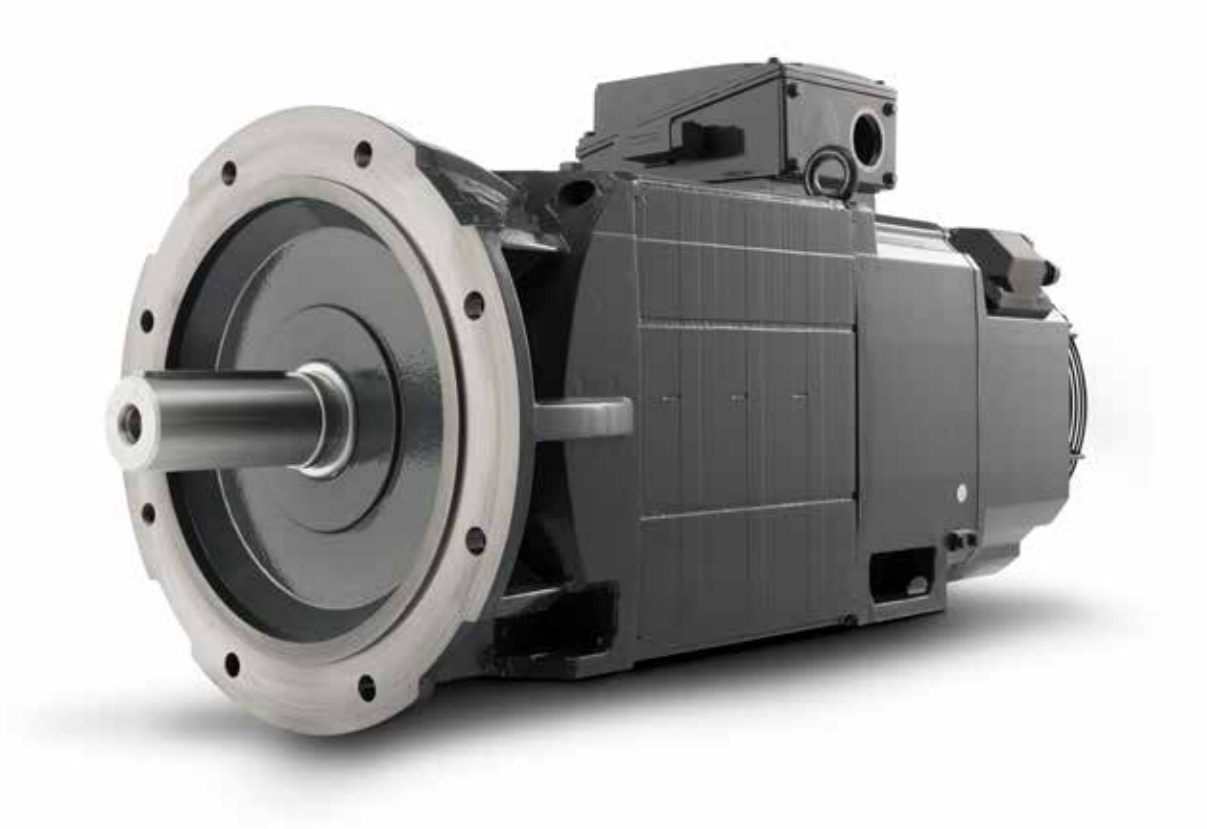
Deformation capacity		
Aluminum	inch	0.944
Steel R40	inch	0.629
Stainless steel R70	inch	0.472

Spindle and turret: The winning combination

Sheet spinning deforms a metal disk or blank, transforming it into a drawn piece shaped by the mold previously mounted on the spindle. Both the spindle and turret are actively involved in the deformation process through their proper sizing and configuration.

Spindle.
The spindle supports the flange that anchors the mold. The mold replicates the desired finished shape, rotating at different speeds during the progressive deformation of the sheet metal. The spindle is located in the headstock opposite the tailstock. Made of Fe430 steel, it encompasses high design standards through the Finite Element Method (FEM) to meet both technical and ergonomic needs.

Turret.
The turret is the component on which the material deformation rollers, trimming rollers and trim accessories are mounted. Depending on the spinning lathe model, the number of tool seats and their layout (horizontal or vertical), as well as the constructive configuration (with toolbar pass or not, fixed or with tool holder backing pad), can vary. Tool turrets allow for more demanding processing with rapid and precise tool changes.
The iteration between spindle and turret, spindle RPM, and the speed of roller passages all play an important role in the successful production of precise, high-quality lathe-turned parts. Their respective positioning provides for effortless servicing and maintenance by facilitating operator access.



Focused on energy savings since 1990

Our machines are able to work quickly and precisely, while at the same time saving energy, thanks to the specific characteristics of our parts.
Our spindles house high-energy-efficiency motors and regenerative drives in network. The network regeneration allows for the production of energy during braking, thereby reducing the overall energy consumption of the production process.

Plug and play wherever you are.
The spindle design allows for worldwide availability of spare parts and complete disassembly of the entire unit for revision. The spindle unit is designed to be "plug and play" (except for the Eureka, Vega 800/1000 and Zeus models). The customer can remove the whole spindle unit independently and send it to our service department for repair. The customer will receive the entire repaired unit ready for independent assembly on the machinery.
This approach significantly reduces machine downtime and simplifies repairs worldwide.

Just the right balance between standardization and craftsmanship.
All our spindles have a standard DIN 55027 connector, and each machine model has its own spindle size (ASA) which will be the same worldwide. This allows for interchangeability of flanges among different spinning lathe models and even different brands.

Expulsion of the piece.
Depending on the requested application, all our models can be accompanied by an ejector and/or vacuum. The expulsion of the piece can therefore be pneumatic, hydraulic or a combination of the two. The extraction stroke varies depending on the machine model on which it is installed.

Playback:
Teach it all you know

Out of all the units on the machine, this is the most complex to describe! Simplicity of use is inversely proportional to design complexity and mechatronic assembly.
The playback capability installed on our machines allows the operator to record the first piece using a joystick, without necessarily having specific skills in ISO numerical control programming. In this manner, the steps carried out by the operator, including their force and speed, are recorded.

The tool of the trade.
The Nova Sidera Joystick originated from observation of the metal spinners's body movements when using shaping sticks. In manual spinning, the deformation force is impressed by the spinner's body.

Manual processing.
The innovation of this method lies in the enhancement of the metal spinner's expertise, due to the machine layout and use of the joystick to replicate the user's movements during manual spinning. Furthermore, the speed and intuitiveness of programming with "Easy Spinning" playback makes it ideal for numerous production changes and sample spinning throughout the day, facilitating the day-to-day workload of our customers. Importantly, operators who are not professional metal spinners experience the same simplicity of use. This is demonstrated by the fact that operators become proficient at using our spinning lathes after just 3 days of training.

Manual processing plus teaching.
The main working parameters are set using the simple and intuitive human–machine interface.
The saved parameters will then be used to develop a program that can be utilized as is or modified at will to achieve the desired production or finishing results.

The electrical panel, a true nerve center

Built internally by design, the electrical panel is the brain of our machines. It contains components from leading international manufacturers to deliver reliable performance over time and guarantee the availability of spare parts, even after many years of service, ensuring continuity in the service life of the machine.
Even the electrical cabinet, the push-button panel arm and the entire electrical system are assembled internally by Nova Sidera. Over 2,500 meters of individually numbered and signed electrical cables make troubleshooting simple, even remotely.

Aesthetics and so much substance.
The electrical system and cabinet have been connected to Siemens numerical controls since 1990 and FANUC numerical controls since 2019. Depending on the model, the interface is full touch screen or industrial with a QWERTY keyboard. The choice to assemble numerical controls produced exclusively by leading suppliers, rather than industrial PCs or dedicated software, guarantees easy access to service worldwide, regardless of the machine manufacturer. It also allows the customer to have a spinning lathe with machining capabilities and greater flexibility in the event of interpolation of multiple axes simultaneously using robot or Cartesian interlocking.

Nova Sidera know-how.
The dedicated metal spinning software, designed and installed by Nova Sidera, provides an intuitive and user-friendly interface.

Courtesy package

The investment in a new production tool is always exciting but also a source of concern for the customer, as it undoubtedly requires the internal reorganization of both company processes and dedicated staff.
We believe it is critical to work side by side with our customers to provide support and make the new project as stress-free as possible.
In addition to the product line of spinning lathes and special sheet-forming machines, Nova Sidera also offers a complete range of services to its customers worldwide. All models, with the exception of the larger Vega and Zeus models, are designed to travel fully assembled for quick on-site commissioning at the customer's factory.

Testing.
The machinery is tested by reading specific measurements, parameters and temperatures when the machine is initially switched on and during an uninterrupted 8-hour work cycle, first carried out empty and then with a part to verify the dimensional and force limits of the machine. Once the technical testing is finished, the quality of the external appearance of the machine is verified, the CE certificate is issued and the CE plate is attached to the machine. Testing operations are coordinated between two technicians who verify each other's results and provide cross-checks to guarantee the highest testing standards. After testing is completed, the customer is notified in order to organize training and transport.

Transport.
Choosing the best packaging and transport with well-established carriers guarantees optimal arrival of your spinning lathe. Our machines travel by land (on rail or road), sea and air. Depending on the delivery method, the packaging will consist of a protective bag with drying salts, fumigated wood pallet or crate and container. Packaging instructions and anchoring photos travel with the machine to facilitate handling operations and unloading upon arrival at destination.

Training.
Proper management and operation of the machine is essential for correct and profitable use of our machinery. When the machine is ready for delivery to the customer, our service department coordinates training at our office before the machinery is shipped. At this stage, an overview of the user manual is provided for correct management of the machine, and the customer has an opportunity to become more familiar with the machine by using some of its molds.

Commissioning.
Once the machinery arrives at the customer's site, it is commissioned. Commissioning consists of correct positioning of the machinery in the designated work area, general inspection of the machine after the long journey, start-up and a short operational test of the main functions. Another day of customer training is provided, including a useful review of the previous training. Nova Sidera has always invested in training, as we consider it the keystone of our customer support strategy.

After sales

Our work does not end with the production of the machine; production is actually just the beginning of a long and rewarding relationship with our customers. We support our customers with on-site and remote technical service, training and updating courses, and consulting.
The year 2020 has demonstrated how important remote support is when there is little to no opportunity for travel, but it has also shown us how the proper use of well-known and widely available technology can save time and resources. Nova Sidera has been keenly aware of these tools since the early 1990s.

Updating courses and consulting.
We can offer our customers updating courses, specific courses on sheet spinning and consultancy on specific projects, such as spinning and the proper use of rollers, accessories and lubricants as well as the correct machine parameter settings in order to achieve the customer's goals.

Remote service.
Our service department has amplified this service delivery through the use of different technological tools alongside the traditional phone and email options. Teleservice in particular, thanks to the Transition 4.0 plan, has proven to be a useful tool for remote diagnosis and resolution of many problems or machine downtimes. Using special hardware and software installed on the machinery, technicians can connect directly to the spinning lathe as if they were on site and check machine alarms, settings, and parameters. Teleservice is also useful for support during programming to identify any errors in the processing program script. The hardware and software used is selected to ensure the highest safety standards in terms of cyber security.

Samples.
Our specific experience allows us to assist our customers with the production of feasibility and process samples. Everything is managed with utmost confidentiality, reinforced through signed confidentiality agreements, to protect mutual industrial properties.

Maintenance packages and routine service.
Proper annual maintenance is essential in order to reduce machine downtime and limit drops in performance of the machinery. Our service department offers support for both repairs and troubleshooting, as well as routine and special maintenance and remote service. Several packages are available to meet the wide-ranging needs of our customers.

Rollers, accessories and consumables.
When it comes to high performance, the details make the difference. For a race car, the choice of tires is essential; likewise, the choice of rollers and accessories is fundamental for metal spinning. Nova Sidera can offer accessories of various shapes and materials thanks to its long history of research into the finishing needs and ergonomics of the sheet spinning sector. We can supply customized accessories and rollers by request as well.
Proper lubrication of the rollers is also very important. Different types of lubrication are necessary depending on the material being formed and the rollers used. The lubricant facilitates processing and protects against wear of the materials by balancing the right amount of oils and avoiding waste. Nova Sidera can provide recommendations in this area as well.

Retrofit

Refurbishment or revamping consists of renewing an obsolete or damaged machine. This process is crucial for restoring a dated machine and making it safe again. Nova Sidera performs this service for both its own machinery as well as third-party machinery. It consists of much more than simply disassembling and repainting the machine; in over 300 hours of work, the machine is completely disassembled into more than 2,500 components and rebuilt entirely.

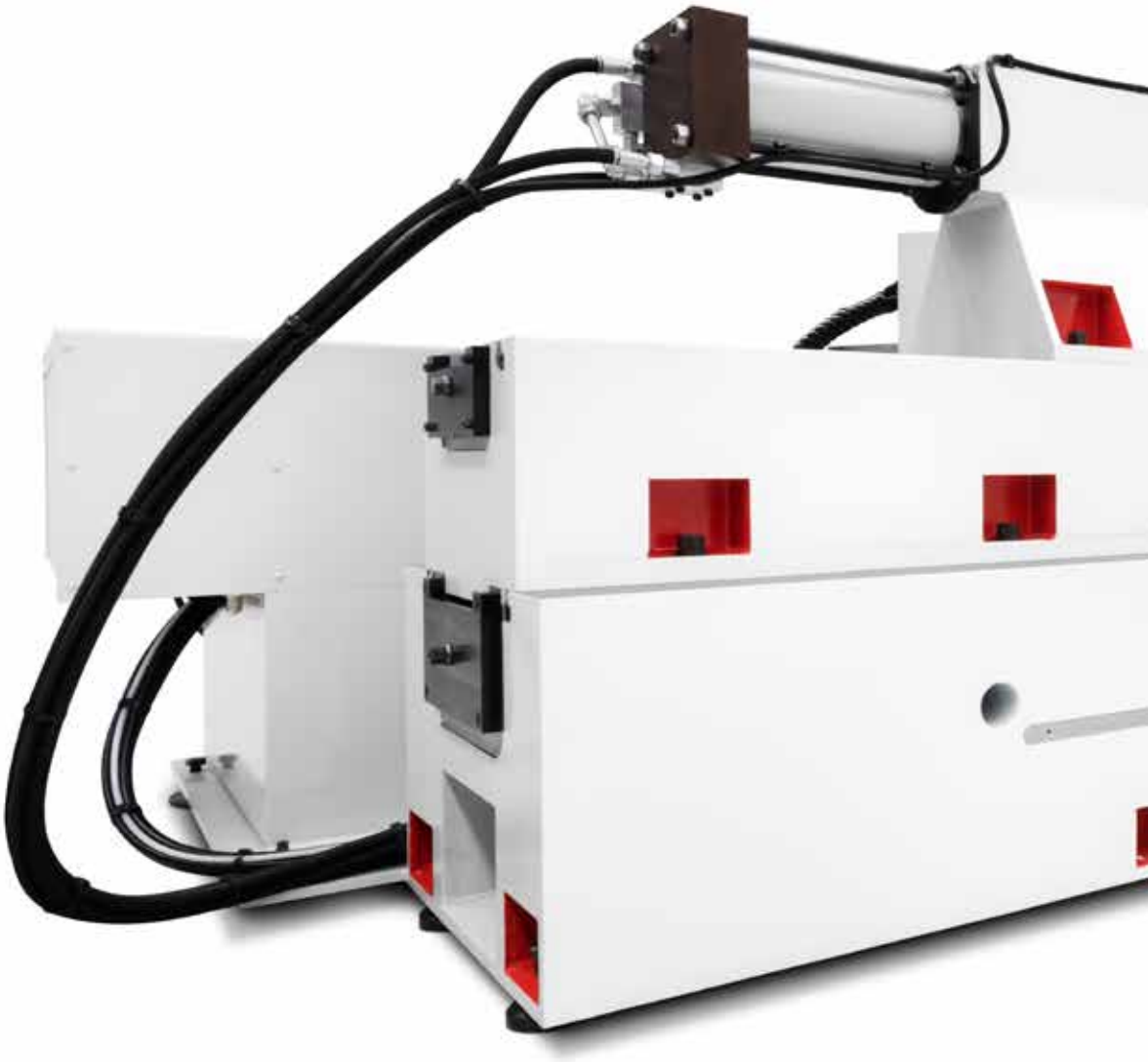



Electrical, hydraulic and oil-pressure systems are replaced, as well as the numerical control for any machines manufactured before 1998 or on any machine as necessary to meet specific customer needs. All units are overhauled and fully replaced if damaged. The components are sandblasted and repainted. Focus on safety. Refurbishment takes structurally sound machines in need of a mechanical and/or technological renewal and makes them operational again, extending their service life with optimal performance for decades to come.

Vega 800

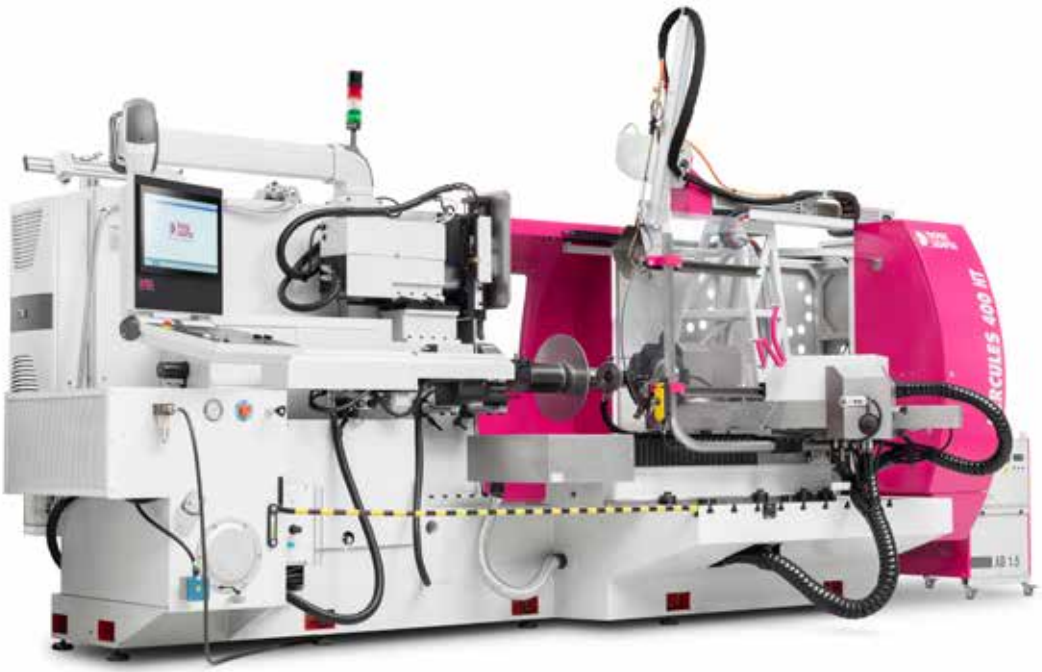
With a deformation capacity of up to 10 mm of R40 steel disk with diameters of up to 1640 mm, Vega 800 represents one of Nova Sidera's top models.
The unique layout with enclosure guarantees the highest safety standards and optimal ergonomics for machine tooling.


VEGA800



Vega 600

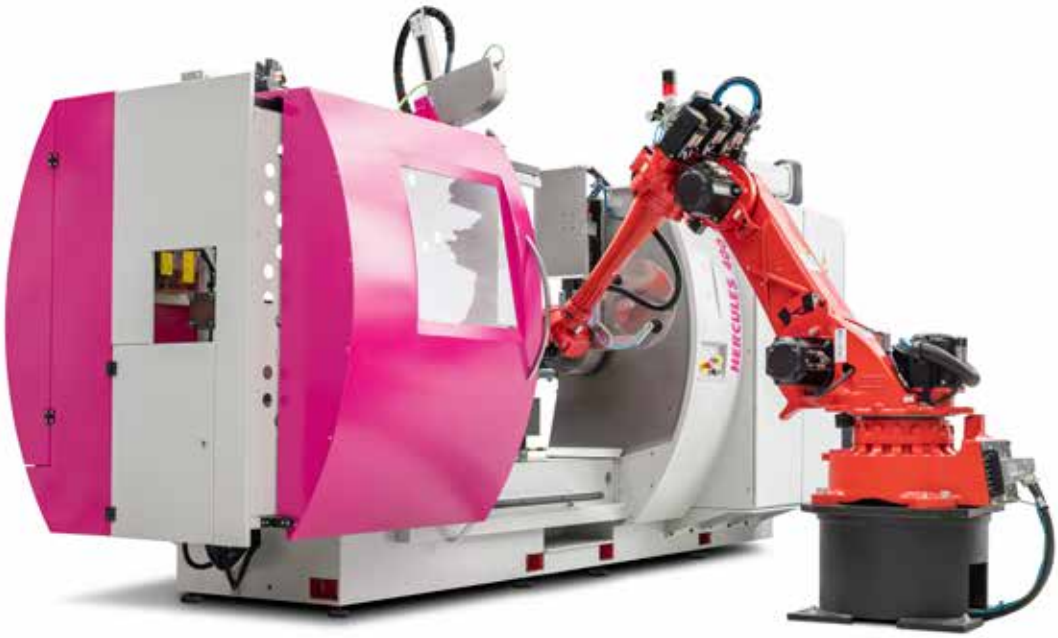
This machine is named after the brightest star in the Milky Way and represents strength and precision.



Hercules 400 HT

A special model of the Hercules product line, it is equipped with a numerically controlled heating torch, integrated cooling system and automatic hatch. This machine is also standard equipped for a robot interface.


HERCULES 400 HT



Giotto 400

Its versatility and compactness has made it the most popular and best-selling spinning lathe model worldwide.


NOVA SIDERA
GIOTTO 400

Antares X2

The special design combines sheet spinning and lamination by working with either a single turret or two specular turrets. The stroke and force of the machine can be completely customized.


ANTARES 400-X2

Eureka 320

The Eureka model (named after the exclamation attributed to Archimedes Pythagorean) originated in 2013 with model 320. It is now replaced by the current model 375.

Galileo

Our R&D used Galileo model for the first application of Fanuc numerical controls on retrofit.
Since 2019, we have offered our customers a choice between the two best numerical controls available on the market: Siemens and Fanuc.

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Production of spinning lathes
and special machines for sheet metal deformation

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METAL FORMING

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