



Nova Sidera Metal Forming is focused on spinning lathes and special metal forming application since 1990.

The company 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. During the last decade Nova Sidera 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. In Nova Sidera there's a dual spirit, one is industrialized and technological, the other is profoundly rooted on craftsmanship. Our technological dimension allows us to guarantee high level of performance and an efficient production process, while being rooted in a craftsmanship tradition allows us to create unique and customized machines.

Indeed, beyond our lineup of standard machines, we can personalize all models and design customized solutions, including spinning lathes without playback system or semi-automatic.

Furthermore, our customization-oriented approach is also directed to our research and development. To anticipate market needs, we constantly cooperate with customers and suppliers, nurturing a dynamic and stimulating dialogue.

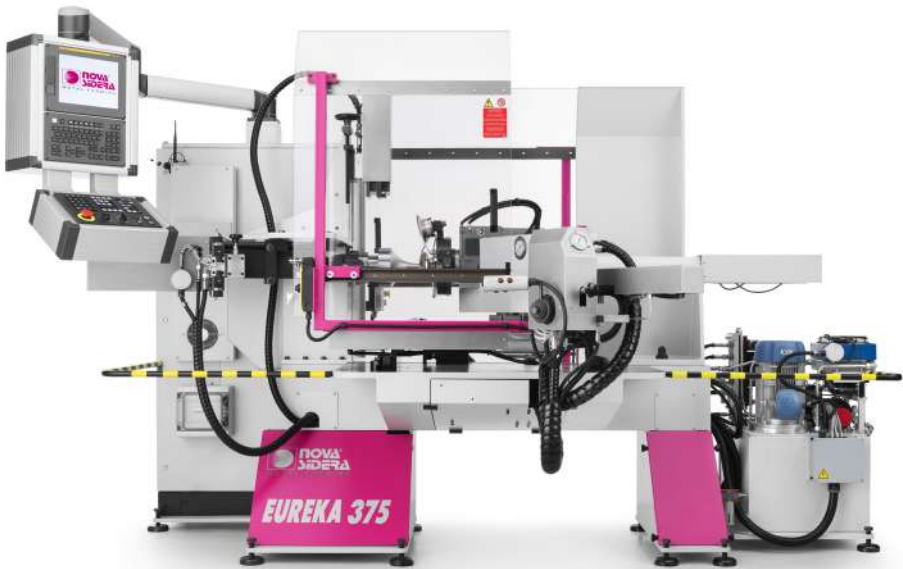
Eureka

Aluminium - 0.098 inch (2,5 mm)

Steel R40 - 0.059 inch (1,5 mm)

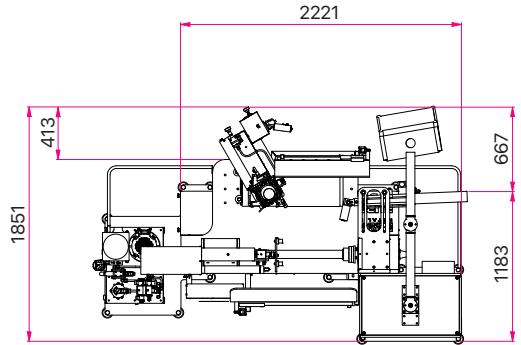
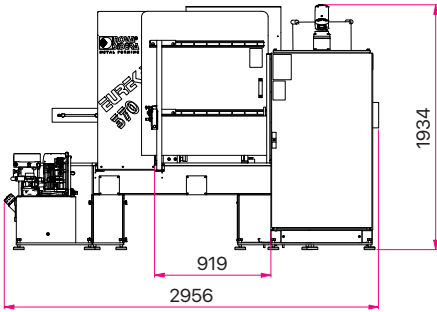
Stainless steel R70 - 0.039 inch (1 mm)

1:1 scale representation
of Eureka deformable
thickness.



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.

This is our entry level model, the smallest of the family, with only 1800 kgs it has the ability to easily deform up to 0,039" stainless steel, 0,059" mild steel and 0,098"aluminum.



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 - 10
Steel R40	inch - Gauge	0.059 - 16
Stainless steel R70	inch - Gauge	0.039 - 20

Giotto

Aluminium - 0.196 inch (5 mm)

Steel R40 - 0.118 inch (3 mm)

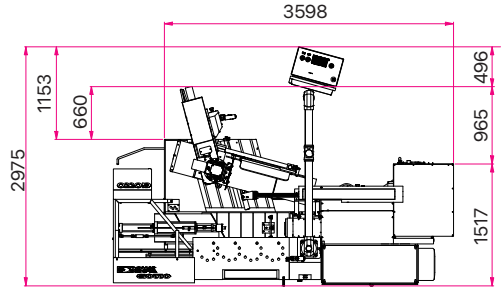
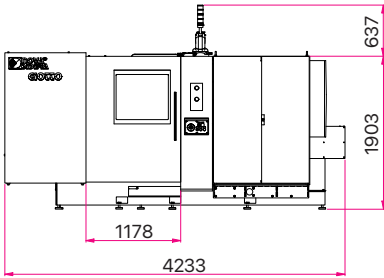
Stainless steel R70 - 0.07 inch (2 mm)

1:1 scale representation
of Giotto deformable
thickness.



It is our most versatile model that can deform diameters up to 48,81" and spins up to 0,07" stainless steel, 0,118" mild steel and 0,196" aluminum.

It's specialized in metal spinning products that need a high finishing quality. Moreover, being accurate and fast, it represents the ideal ally for both large production runs and limited sampling.



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	0.196 - 4
Steel R40	inch - Gauge	0.118 - 11	0.118 - 11
Stainless steel R70	inch - Gauge	0.07 - 14	0.07 - 14

Hercules

Aluminium - 0.314 inch (8 mm)

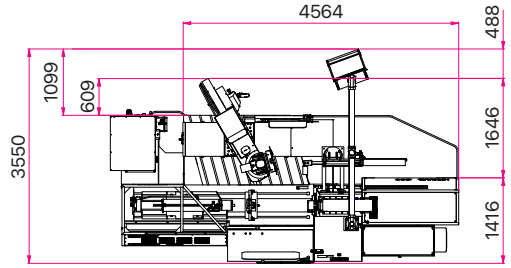
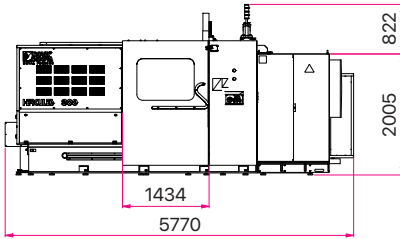
Steel R40 - 0.196 inch (5 mm)

Stainless steel R70 - 0.118 inch (3 mm)

1:1 scale representation of Hercules deformable thickness.



The Hercules model is the strongest of the family and can spin diameters up to 64,56" and spins up to 0,118" stainless steel, 0,196" mild steel and 0,314" aluminum. It's the machine of choice for complex work on basic materials, but the best came on superalloys or if there is a need to heat up the metal during the spinning process. In short, when the process gets tough, Hercules is involved with the job, combining flexibility, robustness and reliability.



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

Aluminium - 0.59 inch (15 mm)

Steel R40 - 0.393 inch (10 mm)

Stainless steel R70 - 0.236 inch (6 mm)

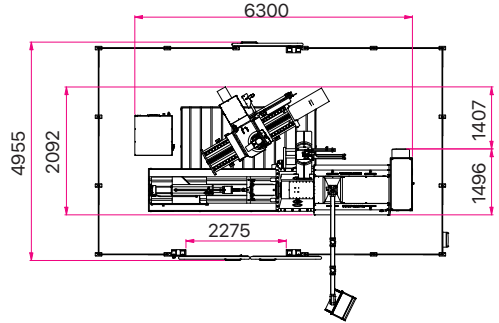
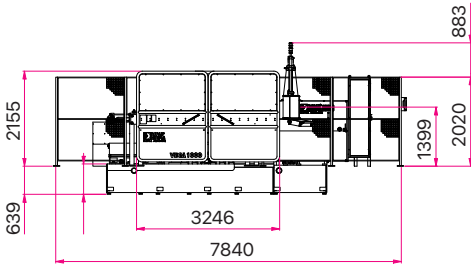
1:1 scale representation
of Vega deformable
thickness.



It's the most exclusive model of the family and can work with diameters up to 82,68" and spins up to 0,236" stainless steel, 0,393" mild steel and 0,59"aluminum.

Choosing Vega models means making a qualitative leap, both for the uniqueness of the parts produced and for the increased margin guaranteed per each spun part.

Vega stand out for its power but at the same time it remains efficient and sensible, representing both the apex and the synthesis of all Nova Sidera lathes' distinctive features.

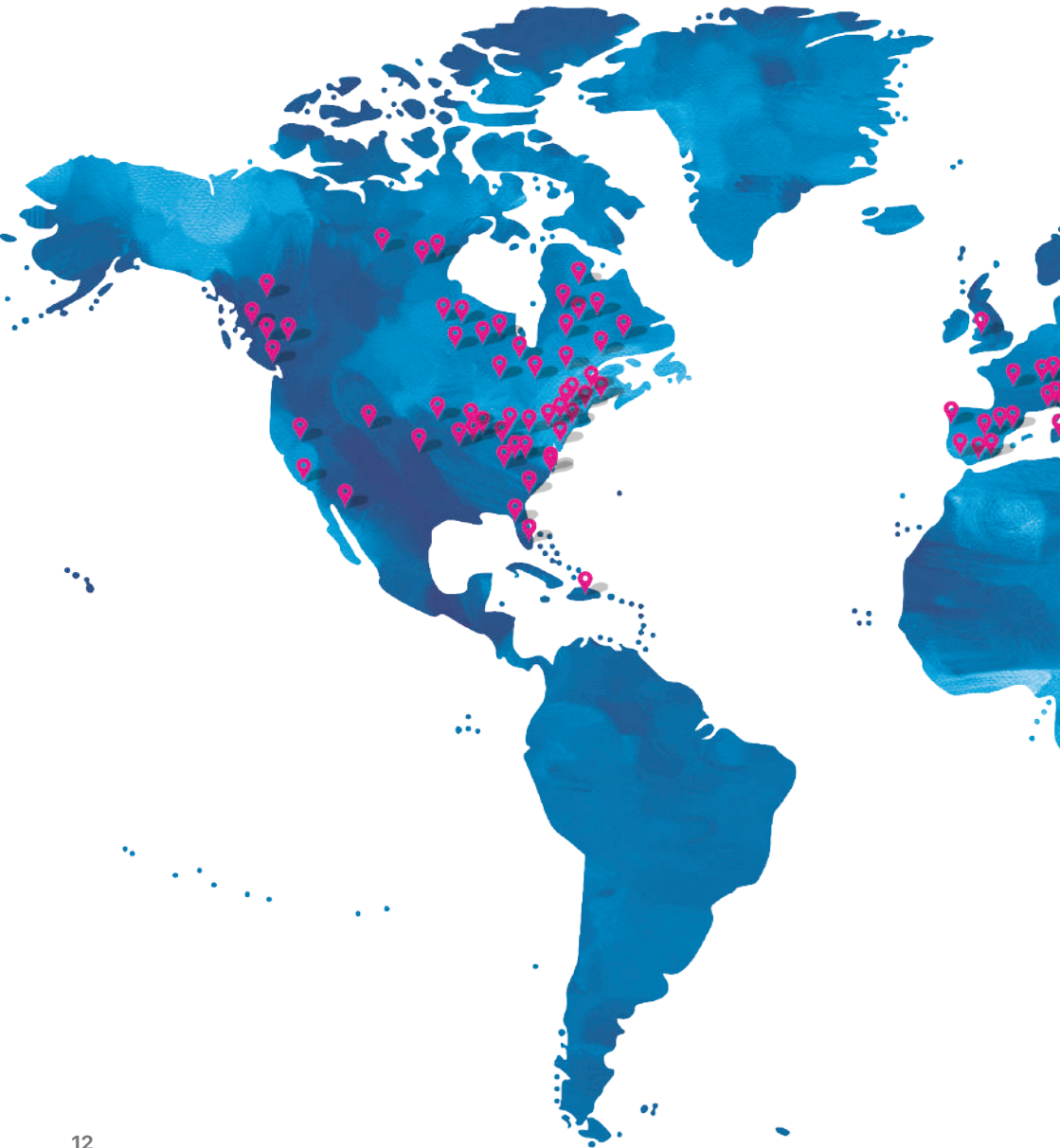


Features		600	800	1000
Height of centers	inch	25.29	32.28	41.34
Distance between centres	inch	47.24	78.74	98.42
Max disc diameter	inch	51.18	64.57	82.67
X axis stroke	inch	21.65	21.65	21.65
Max X axis speed	inch/min	6	6	6
X axis drive type		hydraulic		
Z axis stroke	inch	39.37	39.37	47.24
Max Z axis 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

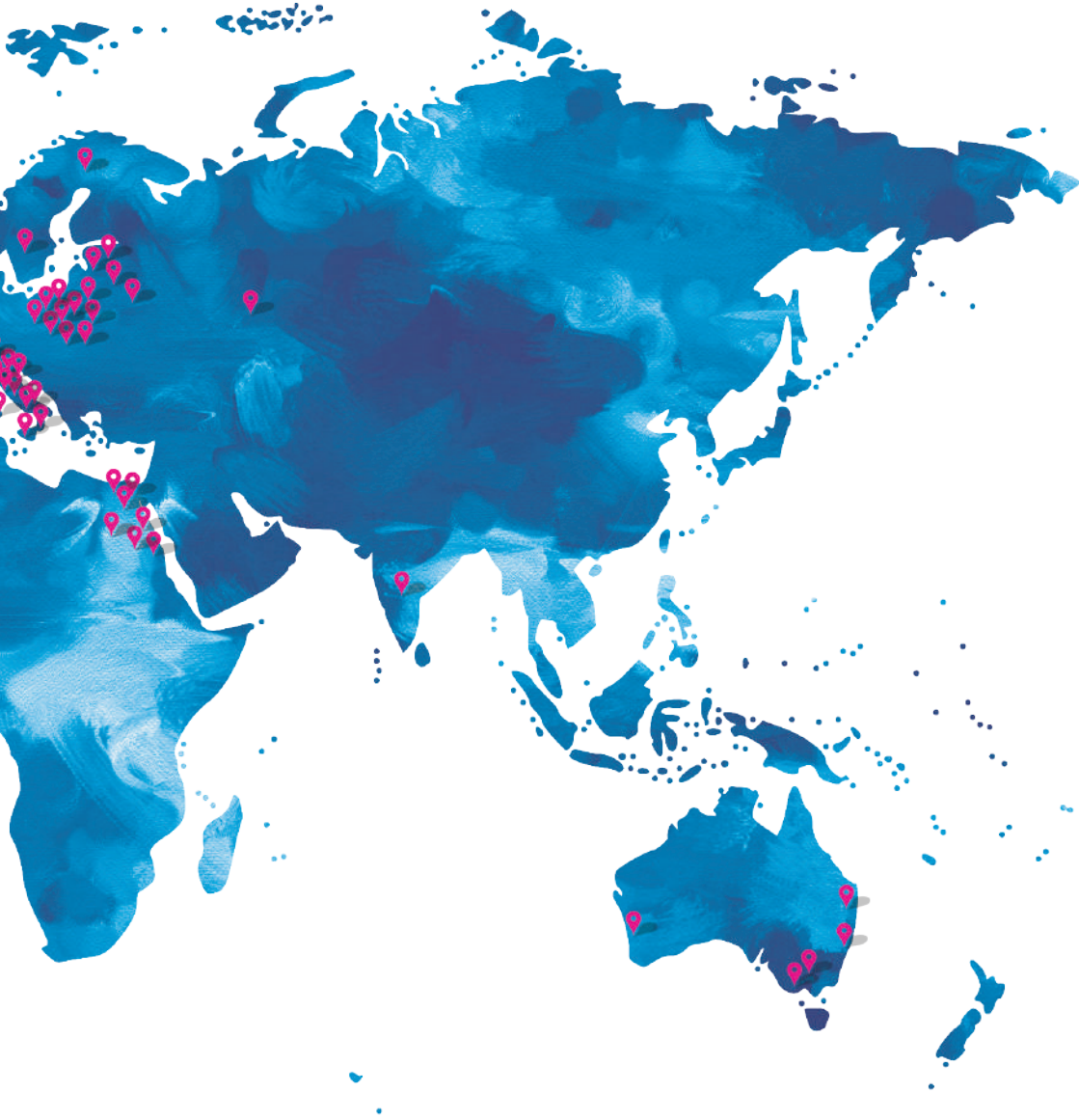
Deformation capacity

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

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.





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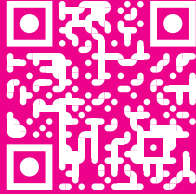
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