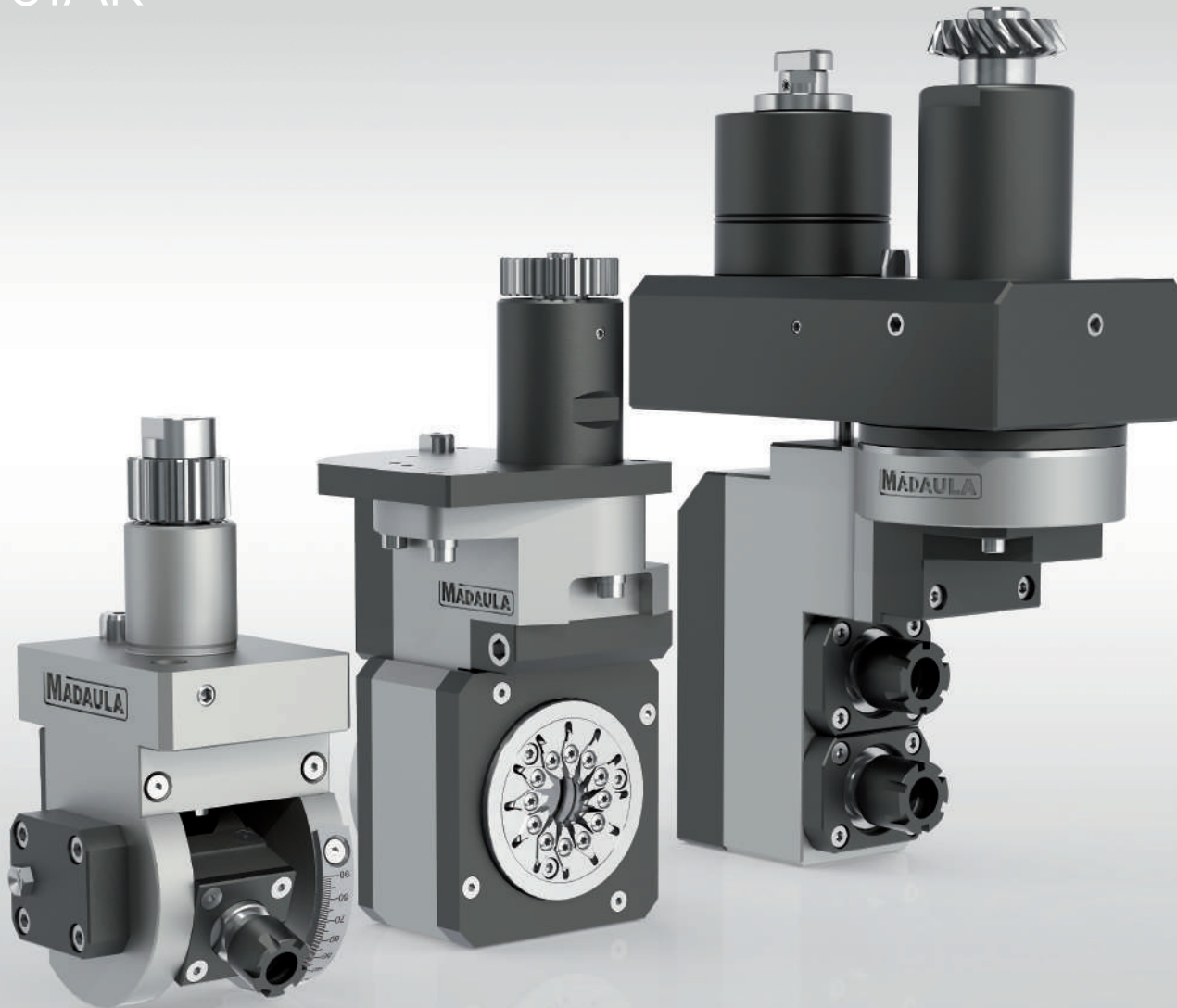


Live tooling for Swiss type lathes

STAR



"Perfect work requires passion, precision
and well designed and reliable tools.

Madaula's focus
is to supply these tools to world-wide industry"



Tradition in precision

Since 1956 **Madaula** has stood for the highest quality and the best reliability of its products.

We have more than 55 years of experience in design, development and manufacture all kind of accessories for the machine tool industry.



Depuis 1956, **Madaula** est synonyme de la plus haute qualité et de la meilleur fiabilité pour ses produits.

Nous avons plus de 55 ans d'expérience dans la conception, le développement et la fabrication de tous types de accessoires pour l'industrie de la machine-outil.

Dal 1956 Madaula è sinonimo di massima qualità e di grande affidabilità.

Abbiamo più di 55 anni di esperienza nella progettazione, sviluppo e produzione di tutti i tipi di accessori per il settore delle machine utensili.



Innovation and reliability

We're focused on our ability to create products adapted to our customer's needs, reduce their manufacturing cost, thereby improving their competitive edge in the market.

We work to ensure optimally designed, precise, robust and durable products.

We love challenges.

Our goal is to turn your vision into reality and thereby increase your productivity.

Nous nous sommes consacrés sur notre capacité à créer des produits adaptés aux besoins des clients, à réduire leurs coûts de fabrication et ainsi améliorer leur avantage compétitive sur le marché.

Nous travaillons pour créer des produits de conception optimale, durables, robustes et précis.

Nous aimons les défis.

Notre objectif est d'augmenter votre productivité.

Siamo concentrati sulla nostra capacità di creare prodotti adatti alle esigenze dei nostri clienti, ridurre i loro costi di produzione, migliorando in tal modo il loro vantaggio competitivo nel mercato.

Lavoriamo costantemente per progettare in modo ottimale i nostri prodotti per renderli precisi, robusti e durevoli.

Noi amiamo le sfide. Il nostro obiettivo è quello di trasformare la vostra richiesta in realtà e di conseguenza aumentare la vostra produttività.

All over the world

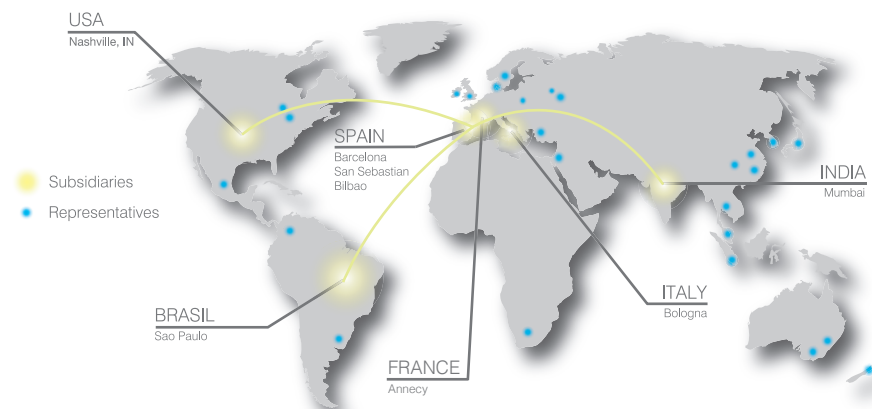
MADAULA
creative solutions

Our head office and factory are located in Barcelona, recognized city throughout the world by the creativity and constant innovation of its industries.

We sell all over the world with subsidiaries in USA, Italy, France, Brazil and India, with representatives all over the world. We export the 80% of our production.

Notre siège social et l'usine sont situés à Barcelone, ville reconnue mondialement par sa la créativité et constante innovation. Nous vendons partout dans le globe avec des filiales en USA, Italie, France, Brésil et l'Inde, et avec des représentations dans le monde entier. Nous exportons le 80% de notre production.

La nostra sede principale e lo stabilimento si trova a Barcellona, città riconosciuta in tutto il mondo per la creatività e l'innovazione costante delle sue industrie. Vendiamo in tutto il mondo con filiali in Stati Uniti, Italia, Francia, Brasile e India con i rappresentanti di tutto il mondo. Esportiamo l'80% della nostra produzione.



Manufacturing facilities

We welcome you to our facilities. Madaula has a continuous improvement policy, we invest to improve our technical production, assembly and quality departments.

Soyez les bienvenus dans nos nouvelles installations. Madaula investit constamment afin d'accroître sa capacité de production. Nous avons développé nos départements usinage et montage mais aussi qualité.

Abbiamo il piacere di informarvi a riguardo i nostri nuovi servizi. Madaula investe per migliorare la propria capacità di produzione di utensili. Ampliamo i nostri reparti di assemblaggio e di qualità.



Passion for precision

Precise and rigid manufacture
Adaptable to all types of machines
100% Checked and tested
High speed rotation
Longer tool life

Adjustable coolant nozzle.

Buse orientable pour l'arrosage.
Ugello refrigerante regolabile.

Improved sealing design combining a labyrinth and optimized friction seals to get hermetically sealed spindles.

Amélioration de la conception de l'étanchéité en combinant un labyrinthe et joints à friction optimisée pour obtenir une parfaite étanchéité.

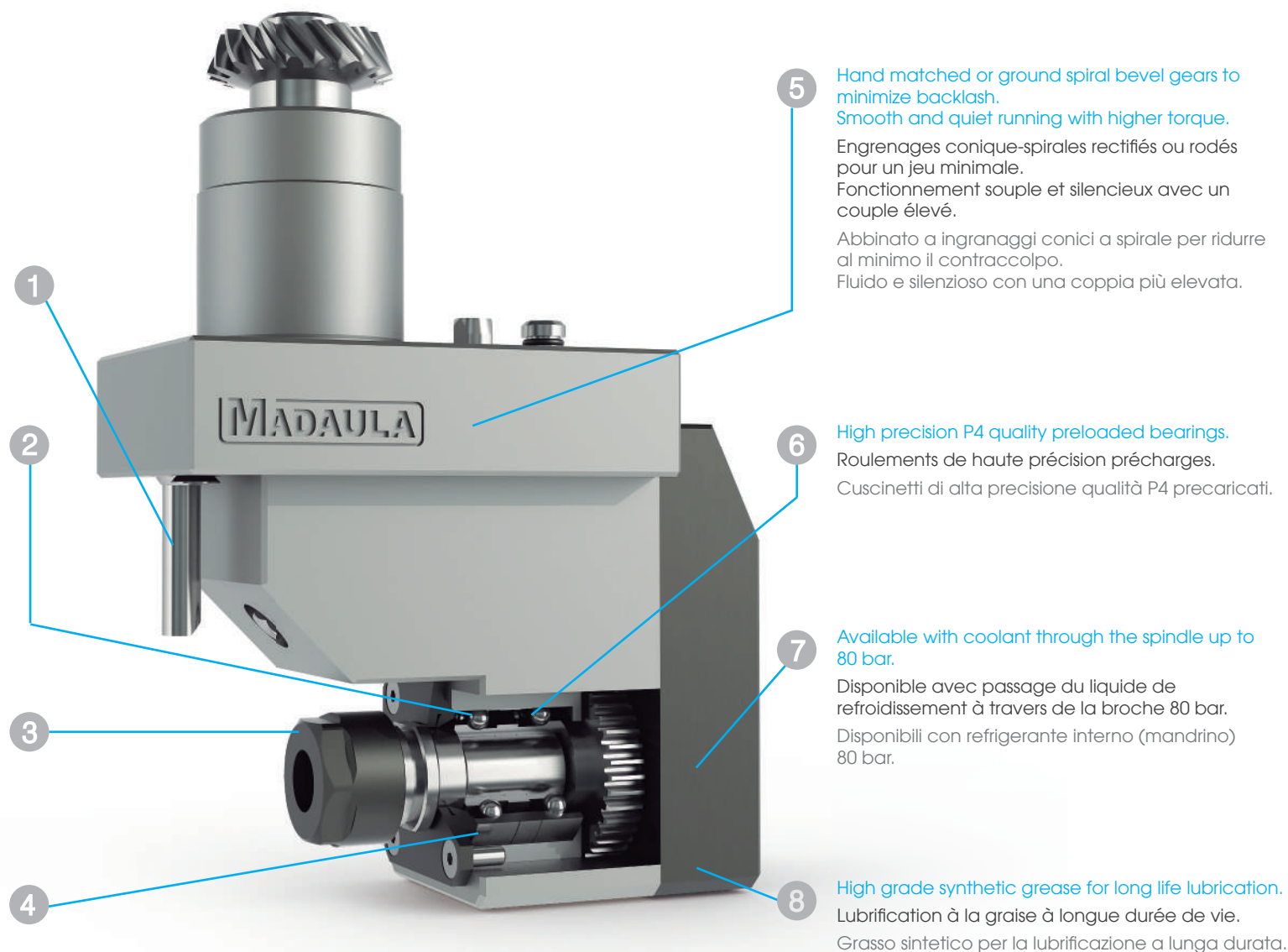
Design migliorato che combina labirinti e guarnizioni di tenuta, ottimizzati per ottenere mandrini ermetici.

Multiple output options.

Multiples options de sortie.
Diverse opzioni di uscita.

Primary labyrinth seal.

Joint à labyrinthe primaire.
Tenuta primaria a labirinto.



Contents

STAR

Ø44 Gang Tooling

- 5 SR-38 Type A / B

Ø34 Gang Tooling

- 6 SB-12R, SB-16R, SB-20R, SD-26, SP-23, SR-20JII, SR-20RIV, SR-38, SW-20, SX-38
- 6 ECAS-12/20, ECAS-32T, SB-16, SR-20J/JN, SR-20RII, SR-20RIII, SR-32J/JN, SR-32JII, SV-12/20/32

Ø22 Gang Tooling

- 10 SL-7/10, SW-12RII

Ø22 Back Tooling

- 11 SB-12R, SB-16R, SB-20R, SD-26, SP-23, SR-10J, SW-12RII
- 11 ECAS-12/20, SB-16, SR-20J/JN, SR-20RII, SR-20RIII, SR-32J/JN
- 14 SD-26, SL7/10, SP-23, SR-20JII, SR-32JIII, SR-20RIV, SR-38, SV-20R, SW-12RII, SW-20
- 14 SR-32JII, SR-38J

Turret Tooling

- 16 ST-20, SV-20R
- 16 ECAS-20T, KNC-16/20, SV-12/20, SV-32JII
- 19 ST-38, SX-38 Type A
- 19 ECAS-32T, KNC-32, SV-32, SV-38R
- 23 SX-38 Type B

Current Models / Discontinued Models



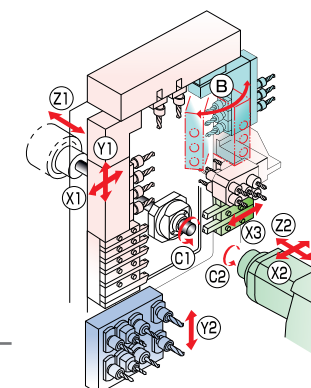
For information about others machines contact us. Pour informations avec d'autres machines veuillez nous contacter. Per informazioni su altre macchine non esitate a contattarci.

STAR

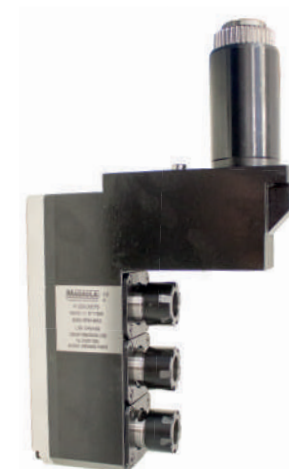
Ø44
Gang Tooling

STAR MODELS: SR-38 Type A / B
OTHERS MODELS: Goodway SK-38

MADAULA
creative solutions



Type	Axial	Axial	Axial Ultraspinn	Radial 3+3 Outputs	Radial Set-back
Code	ST.000.44-ER20	ST.000.44-W	ST-U.002.44	ST.008.44	ST.011.44
Star Ref.	101-68-00	101-68-00	-	101-69-00	-
	ER-20	WELDON Ø16	ER-11	ER-20 / ER-16	ER-20
RPM Max	6.000	6.000	24.000	6.000	6.000
	1:1	1:1	1:4	1:1	1:1



Type	Radial Triple Output	Radial Saw-Mill Reducer	Polygon Maker	Thread Whirling ±20°	Axial Saw-Mill Reducer
Code	ST.029.44-3	ST.030.44	ST.034.44	ST.035.44	ST.038.44
Star Ref.	7.170.275	-	101-71-00	101-72-00	101-73-00 / 7.170.305
	ER-20	Cyl-Shaft	Cyl-Shaft	Cutting Head	Cyl-Shaft
RPM Max	6.000	3.000	6.000	6.000	2.000
	1:1	2:1	1:1	1:1	3:1

Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø34
Gang Tooling

STAR MODELS: SB-12R, SB-16R, SB-20R, SD-26, SP-20/23, SR-20JII, SR-20RIV, SR-38, SW-20, SX-38

DISCONTINUED MODELS: ECAS-12/20, ECAS-32T, SB-16, SR-20J/JN, SR-20RII, SR-32J/JN, SR-32JII, SV-12/20/32, SV-32JII

OTHERS MODELS: Ganesh SL-20 Y2, Genturn SL-20 Y2, Goodway GTW-1500, SW-12, SW-20, SW-20II, Manurhin KMX 816, 916/820, 920 Clever, Nomura DS NN-20/25UB8, DS NN-32J, Van MR20, MR38

MADAULA
creative solutions



Type	Axial	Axial	Axial	Axial Long	Axial	Axial
Code	ST.000.34-ER8	ST.000.34-ER11	ST.000.34-ER16	ST.000.34-ER16L	ST.000.34-ER20	ST.000.34-W
Star Ref.	571-62-00	571-63-00	331-50-00 / 7.078.012	571-55-00 / 7.073.789	7.072.950	-
	ER-8	ER-11	ER-16	ER-16	ER-20	Weldon Ø10
RPM Max	8.000	8.000	8.000	8.000	8.000	8.000
	1:1	1:1	1:1	1:1	1:1	1:1



Type	Axial Offset	Axial Offset	Axial Speeder	Axial Speeder	Axial Speeder	Axial Ultraspin
Code	ST.001.34	ST.001.34-W	ST.002.34-2ER8	ST.002.34-2ER11	ST.002.34-3ER11	ST-U.000.34
Star Ref.	-	-	7.078.122 / 7.071.600	7.074.470	-	101-76-00
	ER-11	Weldon Ø16	ER-8	ER-11A	ER-11	ER-11
RPM Max	8.000	8.000	16.000	16.000	18.000	24.000
	1:1	1:1	1:2	1:2	1:3	1:4



Symbology



Adjustable



High Speed



Speeder



Reducer / Higher torque

STAR

Ø34
Gang Tooling

STAR MODELS: SB-12R, SB-16R, SB-20R, SD-26, SP-20/23, SR-20JII, SR-20RIV, SR-38, SW-20, SX-38

DISCONTINUED MODELS: ECAS-12/20, ECAS-32T, SB-16, SR-20J/JN, SR-20RII, SR-32J/JN, SR-32JII, SV-12/20/32, SV-32JII

OTHERS MODELS: Ganesh SL-20 Y2, Genturn SL-20 Y2, Goodway GTW-1500, SW-12, SW-20, SW-20II, Manurhin KMX 816, 916/820, 920 Clever, Nomura DS NN-20/25UB8, DS NN-32J, Van MR20, MR38

MADAULA
creative solutions



Type	Axial Reducer	Radial Double Output Speeder	Radial Double Output	Radial 2+2 Outputs	Radial 2+2 Outputs	Radial 2+2 Outputs
Code	ST.003.34	ST.008.34-S	ST.008.34-ER16	ST.008.34-4ER11	ST.008.34-4ER11/ER16	ST.008.34-4ER16
Star Ref.	-	7.073.830	-	661-59-00	-	-
	ER-16	ER-11	ER-16	ER-11	ER-11 / ER-16	ER-16
RPM Max	4.000	16.000	8.000	8.000	8.000	8.000
	2:1	1:2	1:1	1:1	1:1	1:1



Type	Radial 3+2 Outputs	Radial 3+3 Outputs	Radial Set-Back	Radial Set-Back	Radial Set-Back	Radial Set-Back
Code	ST.008.34-5	ST.008.34-6	ST.011.34-ER11	ST.011.34-62	ST.011.34-93	ST.011.34-ER20
Star Ref.	7.073.555	671-61-00 / 101-95-00	571-57-00	571-51-00	581-52-00 / 101-97-00	-
	ER-11 / ER-16	ER-16	ER-11	ER-16	ER-16	ER-20
RPM Max	8.000	8.000	8.000	8.000	8.000	8.000
	1:1	1:1	1:1	1:1	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR MODELS: SB-12R, SB-16R, SB-20R, SD-26, SP-20/23, SR-20JII, SR-20RIV, SR-38, SW-20, SX-38

DISCONTINUED MODELS: ECAS-12/20, ECAS-32T, SB-16, SR-20J/JN, SR-20RII, SR-32J/JN, SR-32JII, SV-12/20/32, SV-32JII

OTHERS MODELS: Ganesh SL-20 Y2, Genturn SL-20 Y2, Goodway GTW-1500, SW-12, SW-20, SW-20II, Manurhin KMX 816, 916/820, 920 Clever, Nomura DS NN-20/25UB8, DS NN-32J, Van MR20, MR38



Fixed Angle
(Any Angle)



Fixed Angle
(Any Angle)



Radial Adjustable ±90°



**Radial Adjustable ±90°
Speeder**



Radial 2 Outputs

Type	Fixed Angle (Any Angle)	Fixed Angle (Any Angle)	Radial Adjustable ±90°	Radial Adjustable ±90° Speeder	Radial 2 Outputs
Code	ST.012.34-ER11	ST.012.34-ER16	ST.021.34	ST.021.34-S	ST.029.34
Star Ref.	-	-	-	-	541-51-00/7.079.470/7.073.791
	ER-11	ER-16A	ER-8	ER-8	ER-16
RPM Max	8.000	8.000	8.000	24.000	8.000
	1:1	1:1	1:1	1:3	1:1



Radial 3 Outputs



Radial Saw-Mill



Polygon Maker

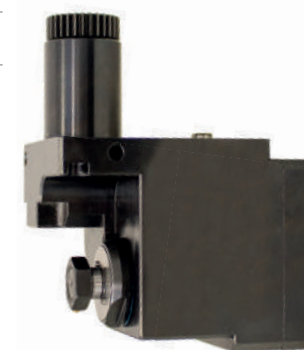


Polygon Maker Reducer



Thread Whirling ±12.5°

Type	Radial 3 Outputs	Radial Saw-Mill	Polygon Maker	Polygon Maker Reducer	Thread Whirling ±12.5°
Code	ST.029.34-3	ST.030.34	ST.034.34	ST.034.34-R	ST.035.34-12.5
Star Ref.	651-51-00	651-51-00	OM1-91	541-91-00	-
	ER-16	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft	Cutting Head
RPM Max	8.000	8.000	8.000	4.000	8.000
	1:1	1:1	1:1	2:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR Ø34 Gang Tooling

STAR MODELS: SB-12R, SB-16R, SB-20R, SD-26, SP-20/23, SR-20JII, SR-20RIV, SR-38, SW-20, SX-38

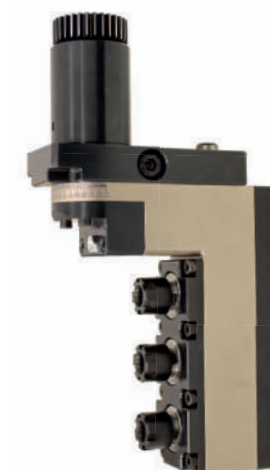
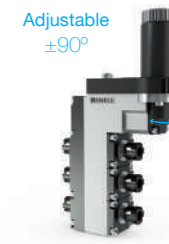
DISCONTINUED MODELS: ECAS-12/20, ECAS-32T, SB-16, SR-20J/JN, SR-20RII, SR-32J/JN, SR-32JII, SV-12/20/32, SV-32JII

OTHERS MODELS: Ganesh SL-20 Y2, Genturn SL-20 Y2, Goodway GTW-1500, SW-12, SW-20, SW-20II, Manurhin KMX 816, 916/820, 920 Clever, Nomura DS NN-20/25UB8, DS NN-32J, Van MR20, MR38

MADAULA
creative solutions



Type	Thread Whirling $\pm 15^\circ$	Thread Whirling $\pm 30^\circ$	Gear Hobbing $\pm 30^\circ$	Axial Saw-Mill	Axial Saw-Mill
Code	ST.035.34-15	ST.035.34-30	ST.036.34	ST.038.34-50	ST.038.34-80
Star Ref.	-	-	7.073.800 / 7.171.760	7.076.365/7.170.912/541-54/7.074.310	7.075.160
	Cutting Head	Cutting Head	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft
RPM Max	8.000	8.000	8.000	8.000	8.000
	1:1	1:1	1:1	1:1	1:1



Type	Radial Y-Axis 360°	Radial Y-Axis 360° 2 Outputs	Radial Y-Axis $\pm 90^\circ$ 2 Outputs	Radial Y-Axis $\pm 90^\circ$ 3 Outputs	Radial Y-Axis $\pm 90^\circ$ 6 Outputs
Code	ST.051.34	ST.051.34-2ER11	ST.051.34-2ER16	ST.051.34-3	ST.051.34-6
Star Ref.	7.073.081	7.073.081	-	-	-
	ER-11A	ER-11A	ER-16	ER-11	ER-11
RPM Max	8.000	8.000	8.000	8.000	8.000
	1:1	1:1	1:1	1:1	1:1

Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque



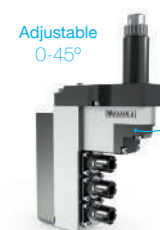
Type	Axial	Axial	Axial Offset Speeder Only for SW-12RII	Axial Ultraspin	Radial 3+3 Outputs Only for SL-7/10	Radial Set-Back Only for SW-12RII
Code Star Ref.	ST.000.SL-ER11 101-52-00	ST.000.SL-ER16 7.170.086	ST.002.SL 7.079.845	ST-U.002.SL -	ST.008.SL-6 101-44-00	ST.011.SL 7.079.850
	ER-11	ER-16	ER-11A	ER-11	ER-11 / ER-8	ER-11
RPM Max	12.000	12.000	20.000	24.000	12.000	12.000
	1:1	1:1	1:2	1:4	1:1	1:1



Adjustable
±20°



Adjustable
±12°



Adjustable
0-45°

Type	Radial 3 Outputs Only for SL-7/10	Polygon Maker Reducer Only for SL-7/10	Thread Whirling ±20°	Gear Hobbing ±12° Only for SL-7/10	Axial Saw-Mill Reducer Only for SL-7/10	Radial Y-Axis ±45° Reducer
Code Star Ref.	ST.029.SL-3 -	ST.034.SL 141-62-00	ST.035.SL-20 101-59-00	ST.036.SL 141-63-00	ST.038.SL 141-59-00	ST.051.SL 141-61-00
	ER-11	Cyl-Shaft	Cutting Head	Cyl-Shaft	Cyl-Shaft	ER-11
RPM Max	12.000	3.000	12.000	6.000	6.000	3.000
	1:1	4:1	1:1	2:1	2:1	4:1



Symbology



Adjustable



High Speed



Speeder



Reducer / Higher torque

STAR Ø22 Back Tooling

STAR MODELS: SB-12R, SB-16R, SB-20R, SD-26, SP-20/23, SR-10J, SW-12RII

DISCONTINUED MODELS: ECAS-12/20, SB-16, SR-20J/JN, SR-20RII, SR-20RIII, SR-32J/JN

OTHERS MODELS: Ganesh SL-20 Y2, Genturn SL-20 Y2. Goodway SW-12, SW-20, SW-20II, Van MR20, MR38

MADAULA
creative solutions



Type	Axial	Axial	Axial	Axial Speeder	Axial Ultraspin	Axial X-Axis 3 Outputs
Code	ST.000.22-ER11	ST.000.22-ER11A	ST.000.22-ER16	ST.002.22	ST-U.002.22	ST.004.22
Star Ref.	541-61-00/7.073.790	7.075.495	571-61-00/7.073.655	-	101-76-00	7.075.500
	ER-11	ER-11A	ER-16	ER-11	ER-11	ER-11
RPM Max	6.000	6.000	6.000	12.000	24.000	6.000
	1:1	1:1	1:1	1:2	1:4	1:1



Type	Axial 3 Outputs Only for ECAS-12/20	Axial 3 Outputs Only for SR-10J	Radial 2 Outputs Only for ECAS-12/20	Radial Set-Back	Radial Set-Back	Radial Set-Back Tool Length Adjust.	Radial Set-Back Tool Length Adjust.
Code	ST.004.22-ECAS	ST.004.22-SR10J	ST.008.22	ST.011.22-ER11A	ST.011.34-ER16A	ST.011.34-ER11-TA	ST.011.22-ER16-TA
Star Ref.	7.073.900	7.077.730	7.075.510	7.072.970	-	-	-
	ER-11	ER-11 / ER-8	ER-11	ER-11A	ER-16A	ER-11A	ER-16A
RPM Max	6.000	6.000	6.000	6.000	6.000	6.000	6.000
	1:1	1:1	1:1	1:1	1:1	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

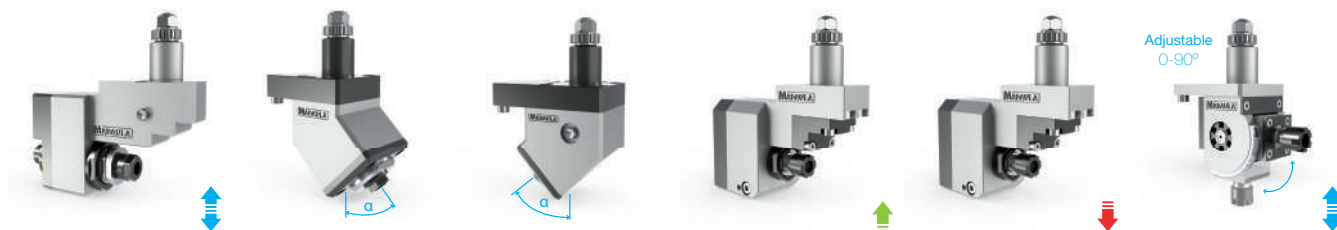
STAR Ø22 Back Tooling

STAR MODELS: SB-12R, SB-16R, SB-20R, SD-26, SP-20/23, SR-10J, SW-12RII

DISCONTINUED MODELS: ECAS-12/20, SB-16, SR-20J/JN, SR-20RII, SR-20RIII, SR-32J/JN

OTHERS MODELS: Ganesh SL-20 Y2, Genturn SL-20 Y2, Goodway SW-12, SW-20, SW-20II, Van MR20, MR38

MADAULA
creative solutions



Type	Radial Set-Back Cartridge Adjust.	Fixed Angle (Any Angle)	Fixed Angle Back (Any Angle)	Radial Set-Back Speeder	Radial Set-Back Reducer	Radial Adjustable 0-90°
Code	ST.011.22-ER11-CA	ST.012.22	ST.012.22-B	ST.013.22	ST.014.22	ST.021.22
Star Ref.	-	-	-	-	7.075.655	-
	ER-11	ER-11A	ER-11A	ER-11A	ER-11	ER-11
RPM Max	6.000	6.000	6.000	12.000	3.000	6.000
	1:1	1:1	1:1	1:2	2:1	1:1



Type	Radial Adjustable 0-90° Triple Output	Axial Triple Output Only for SR-10J	Axial 4 Outputs	Tool Holder with Fine Y-Axis Adjust. ±0.01	Radial Saw-Mill	Radial Saw-Mill	Radial Saw-Mill
Code	ST.021.22-3	ST.023.22-3	ST.023.22-4	ST.025.22	ST.030.22-5	ST.030.22-6	ST.030.22-8
Star Ref.	-	7.072.831 / 7.073.290	7.075.935	-	7.170.995	7.072.855	7.072.720/182-44-00
	ER-8	ER-11	ER-11A	ER-16	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft
RPM Max	6.000	6.000	6.000	-	6.000	6.000	6.000
	1:1	1:1	1:1	-	1:1	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque



Type	Radial Saw-Mill	Radial Saw-Mill	Axial Double Output Speeder IC	Polygon Maker 1°	Gear Hobbing Reducer	Gear Hobbing Reducer
Code Star Ref.	ST.030.22-10 7.072.701/7.174.815	ST.030.22-13 7.072.661	ST.033.22 -	ST.034.22 -	ST.036.22-13 7.072.661	ST.036.22-32 7.073.805
	Cyl-Shaft	Cyl-Shaft	ER-11A	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft
RPM Max	6.000	6.000	12.000	6.000	3.000	3.000
	1:1	1:1	1:2	1:1	2:1	2:1



Type	Gear Hobbing ±5°	Axial Saw-Mill	Axial Saw-Mill	Radial X-Axis ±25°	Radial Y-Axis ±8° Only for SR-20J/JN	Radial Y-Axis ±8° Only for SR-10J	Radial Y-Axis ±8° Only for SW-12R
Code Star Ref.	ST.036.22-16 7.075.395	ST.038.22-15.5 7.170.942	ST.038.22-28 7.077.965	ST.050.22 7.072.700	ST.051.22-SR20J 1103051	ST.051.22-SR10J 7.077.371	ST.051.22-SW12R 1103054
	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft	ER-11	ER-11	ER-11
RPM Max	6.000	6.000	6.000	6.000	6.000	6.000	6.000
	1:1	1:1	1:1	1:1	1:1	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø22
Back Tooling

STAR MODELS: SD-26, SL7/10, SP-20/23, SR-20JII, SR-32JIII, SR-20RIV, SR-38, SV-20R, SW-12RII, SW-20

DISCONTINUED MODELS: SR-32JII, SR-38J

OTHERS MODELS: Goodway SK-38

MADAULA
creative solutions



Type	Axial	Axial Short	Axial Long	Intermediate Gear
Code Star Ref.	ST.000.SW20-ER11A 7.078.450	ST.000.SW20-S OR1-61	ST.000.SW20-L 101-81-00	ST.000.SW20-P 7.076.740
	ER-11A	ER-16	ER-16	-
RPM Max	8.000	8.000	8.000	8.000
	1:1	1:1	1:1	1:1



Type	Axial Speeder	Axial Ultraspin	Radial Set-Back Only for SW-12RII	Radial Set-Back	Radial Set-Back
Code Star Ref.	ST.002.SW20 -	ST-U.002.SW20 -	ST.011.SW20-ER11 7.079.850	ST.011.SW20-ER16 OR1-51 / 7.076.370	ST.011.SW20-ER16A 7.078.800
	ER-11	ER-11	ER-11	ER-16	ER-16A
RPM Max	16.000	24.000	8.000	8.000	8.000
	1:2	1:4	1:1	1:1	1:1

Symbology



Adjustable



High Speed



Speeder



Reducer / Higher torque

STAR Ø22 Back Tooling

STAR MODELS: SD-26, SL7/10, SP-20/23, SR-20JII, SR-32JIII, SR-20RIV, SR-38, SV-20R, SW-12RII, SW-20
DISCONTINUED MODELS: SR-32JII, SR-38J
OTHERS MODELS: Goodway SK-38

MADAULA
creative solutions



Fixed Angle
(Any Angle)



Radial Adjustable 0-90°



Radial Adjustable 0-90° Back



Tool Holder with Fine Y-Axis Adjust. ±0.01

Type	Fixed Angle (Any Angle)	Radial Adjustable 0-90°	Radial Adjustable 0-90° Back	Tool Holder with Fine Y-Axis Adjust. ±0.01
Code	ST.012.SW20	ST.021.SW20	ST.021.SW20-B	ST.025.SW20
Star Ref.	-	-	-	-
	ER-11	ER-11	ER-11	ER-16
RPM Max	8.000	8.000	8.000	-
	1:1	1:1	1:1	-



Radial 3 Outputs



Radial Saw-Mill



Radial Saw-Mill



Radial Saw-Mill



Polygon Maker 1°

Type	Radial 3 Outputs	Radial Saw-Mill	Radial Saw-Mill	Radial Saw-Mill	Polygon Maker 1°
Code	ST.029.SW20	ST.030.SW20-8	ST.030.SW20-10	ST.030.SW20-13	ST.034.SW20
Star Ref.	7.170.810	7.079.230	7.078.150	7.072.661 / 7.076.165	-
	ER-16 / Cyl-Shaft	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft
RPM Max	8.000	8.000	8.000	8.000	8.000
	1:1	1:1	1:1	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø44
Turret Tooling

STAR MODELS: ST-20, SV-20R

DISCONTINUED MODELS: ECAS-20T, KNC-16/20, SV-12/20, SV-32JII

MADAULA
creative solutions



Type	Axial	Axial	Axial	Axial	Axial Speeder	Axial Ultraspinn	Axial Offset IC 20 bar Max.
Code Star Ref.	ST.000.20-ER11 7.074.038	ST.000.20-ER16 221-50-00/7.073.792	ST.000.20-ER20 7.073.160	ST.000.20-ER25 -	ST.002.20 -	ST-U.002.20 -	ST.006.20 -
	ER-11	ER-16	ER-20	ER-25	ER-11	ER-11	ER-16
RPM Max	6.000	6.000	6.000	6.000	12.000	24.000	6.000
	1:1	1:1	1:1	1:1	1:2	1:4	1:1



Type	Radial Double Output	Radial Double Output	Radial Double Output	Radial Double Output Speeder	Radial 2+2 Outputs	Radial 2+2 Outputs Only for SV-20	Radial Set-Back
Code Star Ref.	ST.008.20-80 221-56-00	ST.008.20-90 -	ST.008.20-ER16 7.073.210	ST.008.20-S 7.073.840	ST.008.20-4ER11 421-59-00	ST.008.20-4ER16 7.073.550	ST.011.20-ER11 -
	ER-11	ER-11	ER-16	ER-16	ER-11	ER-11	ER-11
RPM Max	6.000	6.000	6.000	18.000	6.000	6.000	6.000
	1:1	1:1	1:1	1:3	1:1	1:1	1:1

Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque



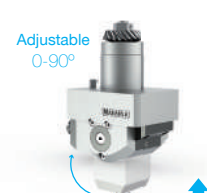
STAR

Ø44
Turret Tooling

STAR MODELS: ST-20, SV-20R

DISCONTINUED MODELS: ECAS-20T, KNC-16/20, SV-12/20, SV-32JII

MADAULA
creative solutions



Type	Radial Set-Back	Radial Set-Back Backworking	Fix.Angle Speeder (Any Angle)	Radial Set-Back Speeder	Radial Adjustable 0-90° Back-Work.	Radial Adjustable +95°/-110°
Code Star Ref.	ST.011.20-ER16 7.073.660	ST.011.20-B 7.073.860	ST.012.20 -	ST.013.20 7.073.945	ST.021.20-B -	ST.021.20-ER16 -
ER	ER-16	ER-16	ER-11	ER-11	ER-11	ER-16
RPM Max	6.000	6.000	12.000	18.000	6.000	6.000
Gear	1:1	1:1	1:2	1:3	1:1	1:1



Type	Radial Adjustable 0-90° Offset	Radial Adjustable ±90°	Axial 2 Outputs Speeder	Axial 2 Outputs	±110° Adjustable Double Spindle Holder	±105° Adjustable Double Spindle Holder	B-Axis Adjustable Double Spindle Holder
Code Star Ref.	ST.021.20-O -	ST.021.20-90 7.073.560	ST.023.20-ER11 421-52-00	ST.023.20-ER16 421-51-00	ST.025.20-110 -	ST.025.20-105 -	ST.025.20-B -
ER	ER-16A	ER-16A	ER-11	ER-16	-	-	-
RPM Max	6.000	6.000	12.000	6.000	-	-	-
Gear	1:1	1:1	1:2	1:1	-	-	-



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø44
Turret Tooling

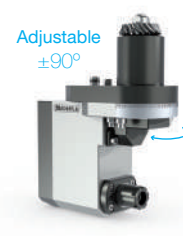
STAR MODELS: ST-20, SV-20R

DISCONTINUED MODELS: ECAS-20T, KNC-16/20, SV-12/20, SV-32JII

MADAULA
creative solutions



Type	Radial 2 Outputs	Radial 2 Outputs Back-working	Polygon Maker	Polygon Maker Reducer	Thread Whirling ±15°	Thread Whirling ±30°
Code	ST.029.20	ST.029.20-B	ST.034.20	ST.034.20-R	ST.035.20-15	ST.035.20-30
Star Ref.	7.075.070	-	7.074.060	421-81-00 / 451-71-00	7.073.765 / 7.075.435	-
	ER-16	ER-16	Cyl-Shaft	Cyl-Shaft	Cutting Head	Cutting Head
RPM Max	6.000	6.000	6.000	2.000	6.000	6.000
	1:1	1:1	1:1	3:1	1:1	1:1



Type	Gear Hobbing ±20°	Gear Hobbing ±30°	Axial Saw-Mill Reducer	Radial Y-Axis ±90°	Radial Y-Axis ±90° Speeder	Radial Y-Axis ±90° 2 Outputs
Code	ST.036.20-10	ST.036.20-13	ST.038.20	ST.051.20	ST.051.20-S	ST.051.20-2ER16
Star Ref.	7.073.885	7.073.885	421-54-00	7.074.815	451-59-00	7.073.915
	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft	ER-16	ER-11	ER-16
RPM Max	6.000	6.000	2.000	6.000	12.000	6.000
	1:1	1:1	3:1	1:1	1:2	1:1

Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø44
Turret Tooling

STAR MODELS: ST-38, SX-38 Type A
DISCONTINUED MODELS: ECAS-32T, KNC-32, SV-32, SV-38R

MADAULA
creative solutions



Type	Axial	Axial	Axial	Axial	Axial Speeder
Code	ST.000.32-ER11	ST.000.32-ER16	ST.000.32-ER20	ST.000.32-ER25	ST.002.32
Star Ref.	201-51-00	201-50-00 / 7.073.793	581-51-00 / 7.072.940	-	-
	ER-11	ER-16	ER-20	ER-25	ER-11
RPM Max	6.000	6.000	6.000	6.000	12.000
	1:1	1:1	1:1	1:1	1:2



Type	Axial Ultraspin	Radial Double Output	Radial Double Output Speeder	Radial Double Output	Radial 2+2 Outputs
Code	ST-U.002.32	ST.008.32-ER11	ST.008.32-ER11S	ST.008.32-ER16	ST.008.32-4ER11
Star Ref.	-	201-56-00	7.075.105	7.073.530	431-59-00
	ER-11	ER-11	ER-11	ER-16	ER-11
RPM Max	24.000	6.000	18.000	6.000	6.000
	1:4	1:1	1:3	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø44
Turret Tooling

STAR MODELS: ST-38, SX-38 Type A

DISCONTINUED MODELS: ECAS-32T, KNC-32, SV-32, SV-38R

MADAULA
creative solutions



Type	Radial 2+2 Outputs Only for SV-32	Radial 2+2 Outputs Only for SV-32	Radial Set-Back	Radial Set-Back	Radial Set-Back
Code Star Ref.	ST.008.32-4ER16 7.072.941	ST.008.32-4ER20 7.073.720	ST.011.32-ER11 201-52-00	ST.011.32-ER16 -	ST.011.32-ER16A 7.073.565
	ER-16	ER-20	ER-11	ER-16	ER-16A
 RPM Max	6.000	6.000	6.000	6.000	6.000
	1:1	1:1	1:1	1:1	1:1



Type	Radial Set-Back	Radial Set-Back IC 20 bar Max.	Radial Adjustable +95°/-110°	Radial Adjustable +95°/-110°	Radial Adjustable +95°/-110°
Code Star Ref.	ST.011.32-ER25 -	ST.017.32 -	ST.021.32-ER16A 7.073.770	ST.021.32-ER16 -	ST.021.32-ER20A -
	ER-25	ER-16	ER-16A	ER-16	ER-20A
 RPM Max	6.000	6.000	6.000	6.000	6.000
	1:1	1:1	1:1	1:1	1:1



Symbology

-  Adjustable
-  High Speed
-  Speeder
-  Reducer / Higher torque

STAR

Ø44
Turret Tooling

STAR MODELS: ST-38, SX-38 Type A
DISCONTINUED MODELS: ECAS-32T, KNC-32, SV-32, SV-38R

MADAULA
creative solutions



Type	Radial Adjustable 0-90° Offset	Axial Double Output	Axial Double Output	Axial Double Output Speeder	Axial Double Output
Code	ST.021.32-O	ST.023.32-ER8	ST.023.32-ER11	ST.023.32-ER11S	ST.023.32-ER16
Star Ref.	-	7.171.345	-	431-52-00	431-51 / 7.073.794 / 7.077.440
	ER-20A	ER-8	ER-11	ER-11	ER-16
RPM Max	6.000	6.000	6.000	18.000	6.000
	1:1	1:1	1:1	1:3	1:1



Type	Radial 2 Outputs	Radial Saw-Mill	Axial Double Output IC 20 bar Max.	Axial Double Output IC 20 bar Max.	Polygon Maker
Code	ST.029.32-ER11	ST.030.32	ST.033.32-ER16	ST.033.32-ER20	ST.034.32
Star Ref.	-	-	-	7.075.210 / 7.075.220	341-91-00
	ER-11	Cyl-Shaft	ER-16	ER-20	Cyl-Shaft
RPM Max	6.000	6.000	6.000	6.000	6.000
	1:1	1:1	1:1	1:1	1:1

Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque

STAR

Ø44
Turret Tooling

STAR MODELS: ST-38, SX-38 Type A
DISCONTINUED MODELS: ECAS-32T, KNC-32, SV-32, SV-38R

MADAULA
creative solutions



Type	Thread Whirling ±15°	Thread Whirling ±20°	Gear Hobbing ±20°	Radial Saw-Mill	Axial Saw-Mill
Code	ST.035.32-15	ST.035.32-20	ST.036.32	ST.037.32	ST.038.32
Star Ref.	7.073.590	431-56-00	7.073.740	-	431-54-00
Cutting Head	Cutting Head	Cutting Head	Cyl-Shaft	Cyl-Shaft	Cyl-Shaft
RPM Max	6.000	6.000	6.000	6.000	6.000
Gear	1:1	1:1	1:1	1:1	1:1



Type	Radial Y-Axis 0-60°	Radial Y-Axis ±90°	Radial Y-Axis ±90°	Radial Y-Axis ±90° 2 Outputs	Tilting B-Axis ±90° 2 Outputs Only for SV-38R
Code	ST.051.32-60	ST.051.32-ER11	ST.051.32-ER16	ST.051.32-2ER11	ST.051.32-B
Star Ref.	431-55-00	-	431-62-00	581-55/431-63/7.074.890/7.075.020	-
Cutting Head	ER-11	ER-11	ER-16	ER-11	ER-11
RPM Max	6.000	6.000	6.000	6.000	6.000
Gear	1:1	1:1	1:1	1:1	1:1

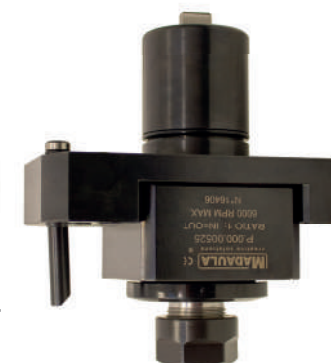


Symbology

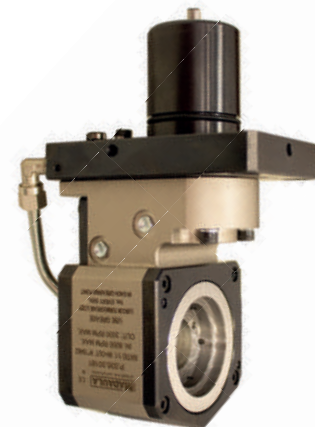
- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque



Type	Axial	Axial	Axial Speeder	Radial Double Output	Radial Set-Back	Axial Double Output	Axial Double Output Speeder
Code	ST.000.38-ER20	ST.000.38-ER25	ST.002.38	ST.008.38	ST.011.38	ST.023.38	ST.023.38-S
Star Ref.	12181	12178	-	1106069	7.173.896	7.173.897	7.174.464
	ER-20	ER-25	ER-16	ER-16 / ER-20A	ER-20A	ER-20A	ER-20A
RPM Max	6.000	6.000	18.000	6.000	6.000	6.000	12.000
	1:1	1:1	1:3	1:1	1:1	1:1	1:2



Type	Sleeve Holder for deep Hole Ø32	Radial 2 Outputs	Radial 2 Outputs Back-working	Thread Whirling ±20°	Axial Saw-Mill	Radial Y-Axis ±90°	Radial Y-Axis ±90° 2 Outputs
Code	ST.025.38	ST.029.38	ST.029.38-B	ST.035.38-20	ST.038.38	ST.051.38	ST.051.38-2
Star Ref.	12134	1103061	1103061	12174	7.173.898	7.173.901	7.173.902
	-	ER-20A	ER-20A	Cutting Head	Cyl-Shaft	ER-20A	ER-16
RPM Max	-	6.000	6.000	6.000	6.000	6.000	6.000
	-	1:1	1:1	1:1	1:1	1:1	1:1



Symbology

- Adjustable
- High Speed
- Speeder
- Reducer / Higher torque



TOHP

FULL HIGH PRESSURE machining with our live tooling Improved cutting for many different machining operations

MADAULA
creative solutions

100 % Du travail avec la haute pression grâce à nos portes outils permettant un **coupe amélioré** sur tous types d'opérations.
LAVORAZIONI AD ALTA PRESSIONE COMPLETO con i nostri portautensili. **Taglio migliorato** per diverse operazioni.



Pressure up to
150 bar

**NO LEAKS INSIDE
THE TOOLHOLDER**

Pas de fuite à l'intérieur du PO.

Nessuna perdita all'interno del Portautensile

Slip-Off Proof Clamping Nut Optional

Écrou de Serrage Antidérapant Optionnel

Ghiere Antiscivolo Opzionale



Specially designed to keep
the original tool length

System protected to avoid collisions with machine and
impacts from chips. Suitable for all types of spindles , not only collets.

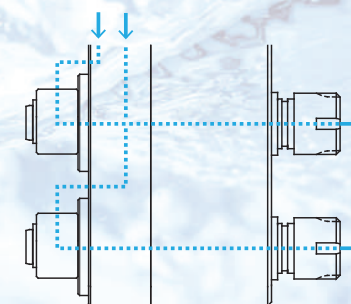
Système reculé du bout de la pince pour prévenir des collisions contre
le canon et protégé contre la projection des copeaux.

Applicable sur tout type de sortie de broche et ne pas seulement avec pinces ER.

Sistema protetto per evitare collisioni con la macchina e urti di trucioli.

Applicabile a tutti i tipi di mandrini, non solo ai morsetti.

MIC Multiple
Independent Channels



Right flow and pressure for every tool.

Pas de perte de débit ou pression
grâce des canaux directs.

Stesso flusso e pressione per ogni
utensile.

High Pressure

Coolant pressures up to 150 bar.
Coolant directed straight to the cutting area.
For emulsion and oil coolants.
Available for all spindles types.

Haute Pression

Pression jusqu'à 150 bar.
Arrosage au plus près de l'arête de coupe.
Pour huile entière ou émulsion.
Valable pour tous type de broches.

Alta pressione

Pressioni del liquido di raffreddamento fino a 150 bar.
Liquido refrigerante indirizzato direttamente alla zona di taglio.
Per refrigeranti a emulsioni e olio.
Disponibile per tutti i tipi di mandrini.

No more chip problems

Improved chip control.
It remove the chips from the holes.
Small chip production.

Plus de problème copeaux

Amélioration de la formation des copeaux.
Évacuation des copeaux des cavités.
Réduction de la taille des copeaux.

Niente più problemi di trucioli

Migliore controllo del truciolo.
Rimuove i trucioli dai fori.
Produzione di trucioli piccoli.

Big savings on tooling and enhanced tool life

Improves the quality and life of the tool at the cutting edge.
Longer tool change period.
Less tool wear.
Faster and cheaper maintenance.

Gains sur les outils coupants

Améliore la qualité et la durée de vis des arêtes de coupe.
Durée de vie accrue.
Fréquence de changement outils abaissée.
Maintenance plus rapide et plus économique.

Grandi risparmi sugli utensili e maggiore durata dell'utensile

Migliora la qualità e la durata dell'utensile.
Periodo di cambio utensile più aumentato.
Minore usura degli utensili.
Manutenzione più rapida ed economica.

Écologique

Économies d'énergie.
Durée de vie outils accrue.
Environnement préservé.

Eco-friendly

Energy saving.
Longer tool life.
Environmentally friendly.

Ecologico

Risparmio energetico.
Maggiore durata dell'utensile.
Rispetta l'ambiente.

TOHP

Minimum loss of flow and pressure

Same pressure and flow for every output.
No leaks inside the toolholder.
Right flow and pressure for every tool.

Minimum e perte de débit et pression

Pression et débit identique pour chaque sortie.
Pas de fuites dans notre porte-outils.
Le bon débit et la bonne pression pour chacun des différents outils.

Minima perdita di flusso e pressione

Stessa pressione e portata per ogni uscita.
Nessuna perdita all'interno del portautensile.
Flusso e pressione corretta per ogni utensile.

Improved surface quality

Better finish quality in the pieces.
Improvement of the surface finish.
There is not high temperature while working.

Amélioration des états des surface

Meilleure qualité de finition des pièces.
États de surface accrus.
Plus de haute température pendant la coupe.

Migliore qualità della superficie

Migliore grado di finitura dei pezzi.
Miglioramento della finitura superficiale.
Non c'è alta temperatura durante il lavoro.

Savings on cycle time

Reduced process cycle times.
Reduced number of processes.
Cutting speed increased, less time using the cutting tool, higher savings.
Savings increased by 25-30%

Réduction des temps d'usinage

Réduction des temps de cycles existants.
Diminution du nombre de passes et de process différents.
Vitesse de coupe accrue, diminution de l'usure des outils apportant d'importantes économies.
Optimisation de 25 à 30%.

Risparmio sul tempo ciclo

Tempi ciclo ridotti.
Numero di processi ridotti.
Velocità di taglio aumentata, minor tempo di utilizzo dell'utensile da taglio, maggiore risparmio.
Risparmio aumentato del 25-30%.

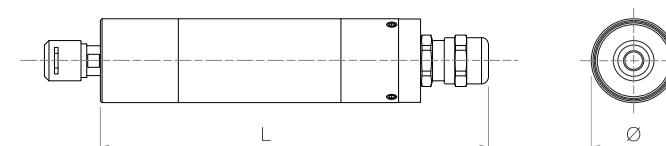
High Frequency Spindles



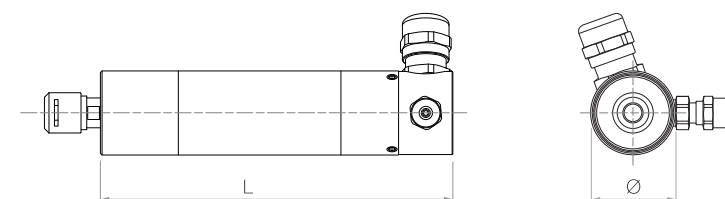
Technical Data

Product	DS-19.05 DS-20 / DS-22		DS-25 / DS-25.4 DS-28 / DS-30 / DS-33		DS-42 DS-45	
Ø mm	19 / 20 / 22		25 / 25.4 / 28 / 30 / 33		42 / 45	
	D6-UP		ER-8UP		ER-11UP	
W S1-100%	165		225		320	
Ncm max	1.5		2.5		4.8	
	Grease	Oil Mist	Grease	Oil Mist	Grease	Oil Mist
RPM - u/min	60.000	80.000	60.000	80.000	35.000	50.000
	Axial	Radial	Axial	Radial	Axial	Radial
L mm	107	90	114.5	104	180	175

Axial dimensions



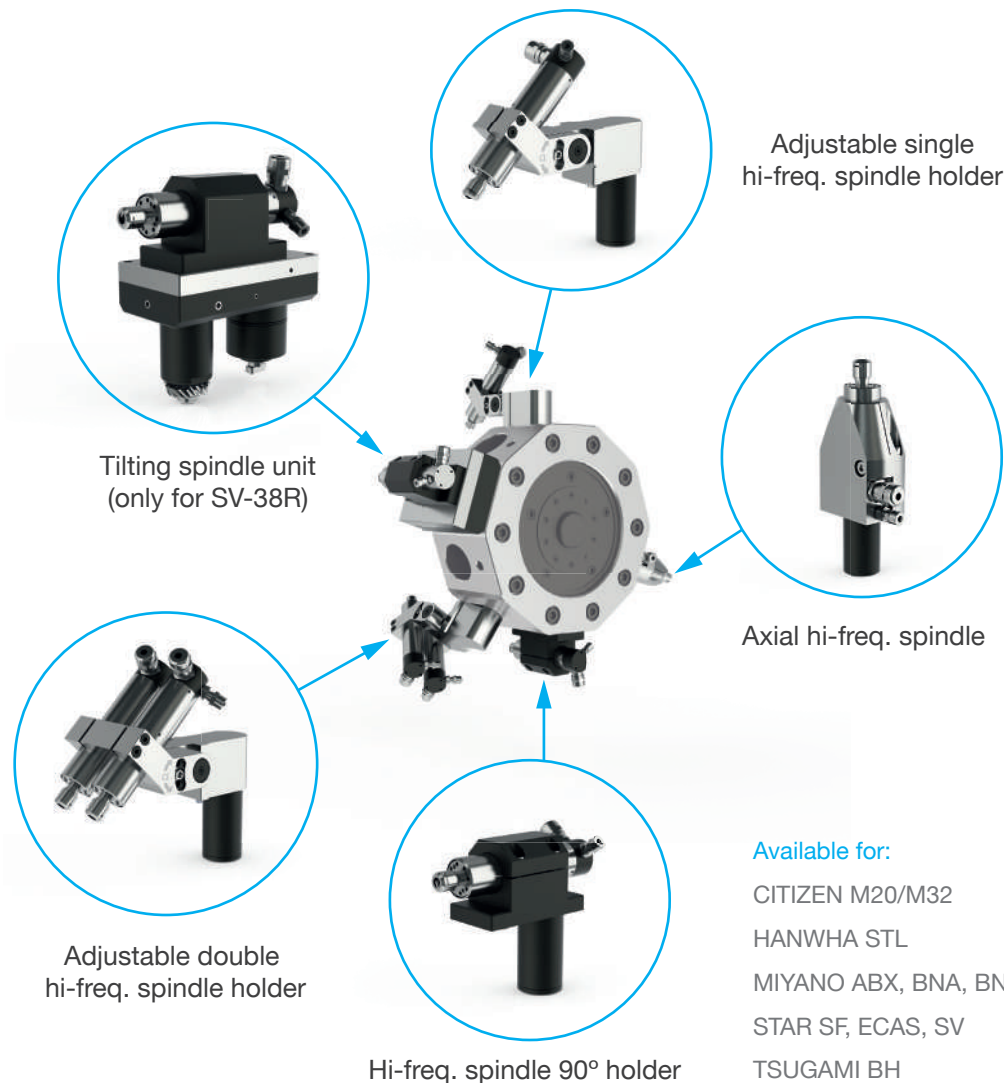
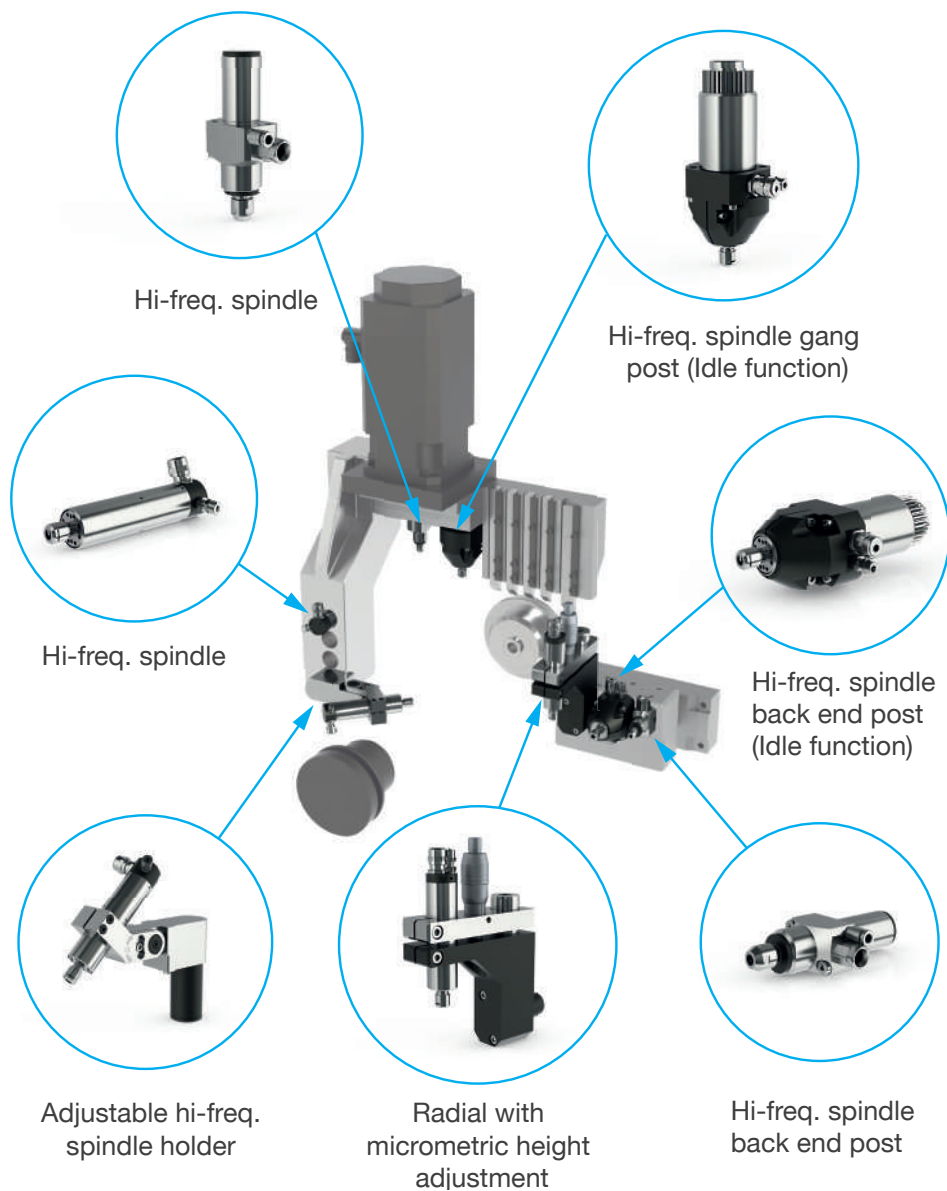
Radial dimensions



High Frequency Spindles & Accessories

for Gang & Back End Posts

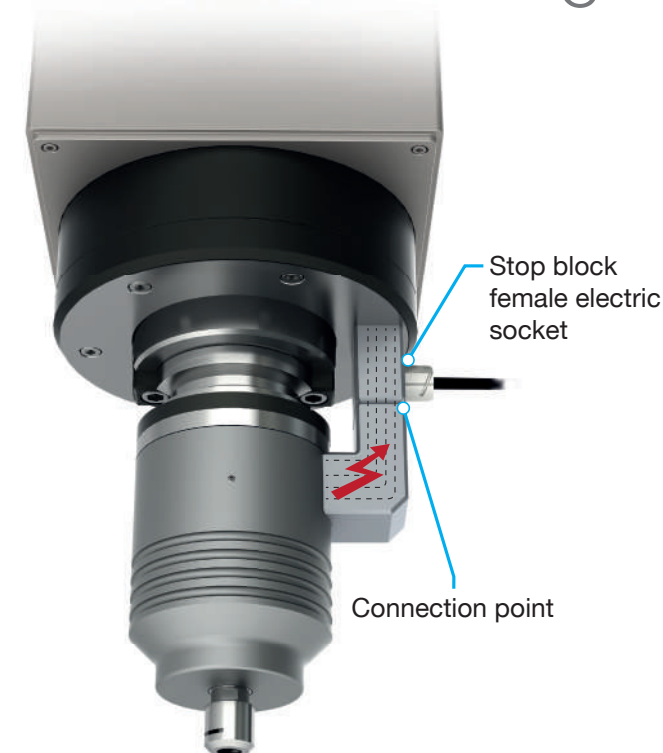
for Turrets



High Frequency Spindles for Machining centers

MADAULA
creative solutions

Automatic change



Equipment



Frequency converter



Power cord



Lubrication unit



UP Collets



Wrenches



Repair Service

Specialized repair team with extensive experience, at your disposal to overhaul all kind of high frequency spindles.

A votre service, une équipe spécialisée, expérimentée dans la remise en état de tous types de broches à hautes fréquences.

Reparto specializzato di assistenza tecnica con grande esperienza, alla vostra disposizione per dare servizio a tutti i tipi di mandrini ad alta frequenza.

Quality procedures

Progressive increasing to full speed

temperature, speed, noise, leakage and vibration control.

Accélération progressive jusqu'à la vitesse maximale, contrôle de température, vitesse, bruit, fuites et vibrations.

Progressivo aumento a tutta velocità:

Controllo di temperatura, velocità, rumorosità, perdite e vibrazioni.

100% Tested: main dimensional control

with Coordinate Measuring Machine for all products.

Contrôle des principales dimensions avec machine à mesurer CNC.

Controllo dimensione su tutti i prodotti con macchina per misure a coordinate.

Quality certificate

on delivery.

Livraison du certificat de qualité.

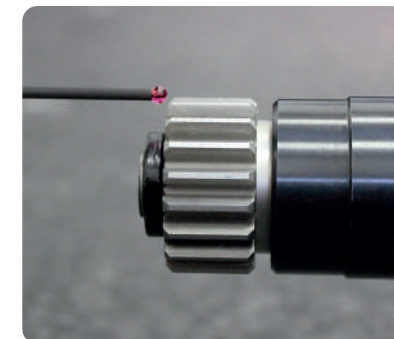
Certificato di qualità sulla consegna.



Certificate ISO 9001: 2015 since 1999

Certificat ISO 9001: 2015 depuis le 1999

Certificato ISO 9001: 2015 da 1999

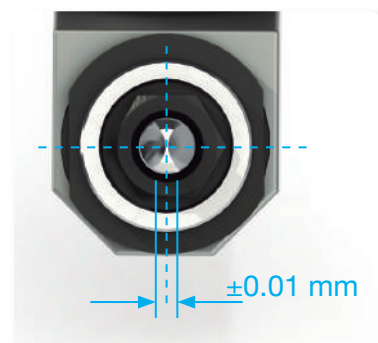


100% Tested

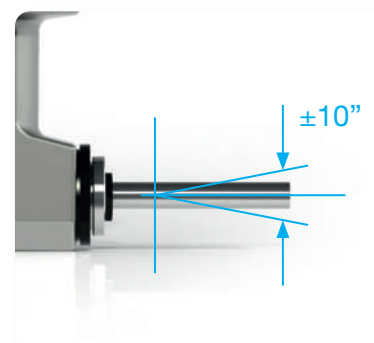


Precision

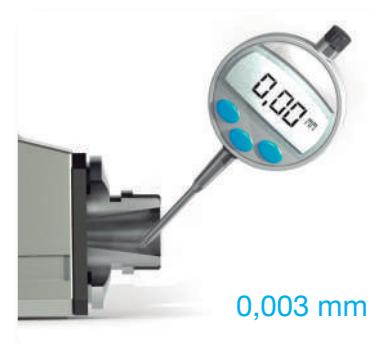
Maximum misalignment



Angle tolerance



Max. runout inside the spindle



Global services



Specialized technical assistance team with extensive experience at your disposal.

Une équipe spécialisée en assistance technique et avec une vaste expérience est mis à votre disposition.

Servizio de assistenza tecnica con team specializzato con una vasta esperienza a vostra disposizione.

MADAULA
creative solutions



Repair service

We are proud of offering to our customers a repair service for all their products, no matter how old they are.

All products of our fabrication range can be repaired, even if they have not been originally manufactured by Madaula.

Nous assurons pour nos clients un service réparation pour tous nos produits de notre marque ou de nos concurrents et de toutes générations.

Tous les produits de notre gamme de production peuvent être réparés, même s'ils n'ont pas de notre fabrication.

Siamo orgogliosi di offrire ai nostri clienti un servizio di riparazione per tutti i prodotti, anche per i più datati.

Tutti i prodotti della nostra gamma possono essere riparati, anche se non di nostra produzione.



EXPRESS service

Express repair service
on demand.
Repair of worn or
damaged parts.
Reduction of
downtimes.

Réparation express
sur demande.
Réparation des
éléments abîmés ou
cassés en minimisant
les temps d'arrêt.

servizio di riparazione
espresso su richiesta.
Riparazione di parti
usurate o danneggiate.
Riduzione dei tempi di
fermo macchina.

Preventive maintenance

Process efficiency
optimization through
our preventive
maintenance plan.

Nous optimisons
l'efficacité du processus
grâce à notre plan de
maintenauce préventive.

Ottimizzazione
dell'efficienza dei
processi mediante
il nostro piano di
manutenzione
preventiva.



Everything is possible

Customized products for Innovative solutions: We match the tool to the part and the machine.

Our team of engineers and technicians are working to create new products,
which enhance the machine capability and increase the productivity of our customers.

65 years of experience

in the development of special products.

65 ans d'expérience dans le développement de produits spéciaux.

65 anni di esperienza nello sviluppo di prodotti speciali.

Successful technical experience

and market knowledge.

Réussi savoir-faire technique et connaissance du marché.

Esperienza tecnica e successo di mercato.

Engineers and technicians

working together.

Ingénieurs et techniciens qui travaillent ensemble.

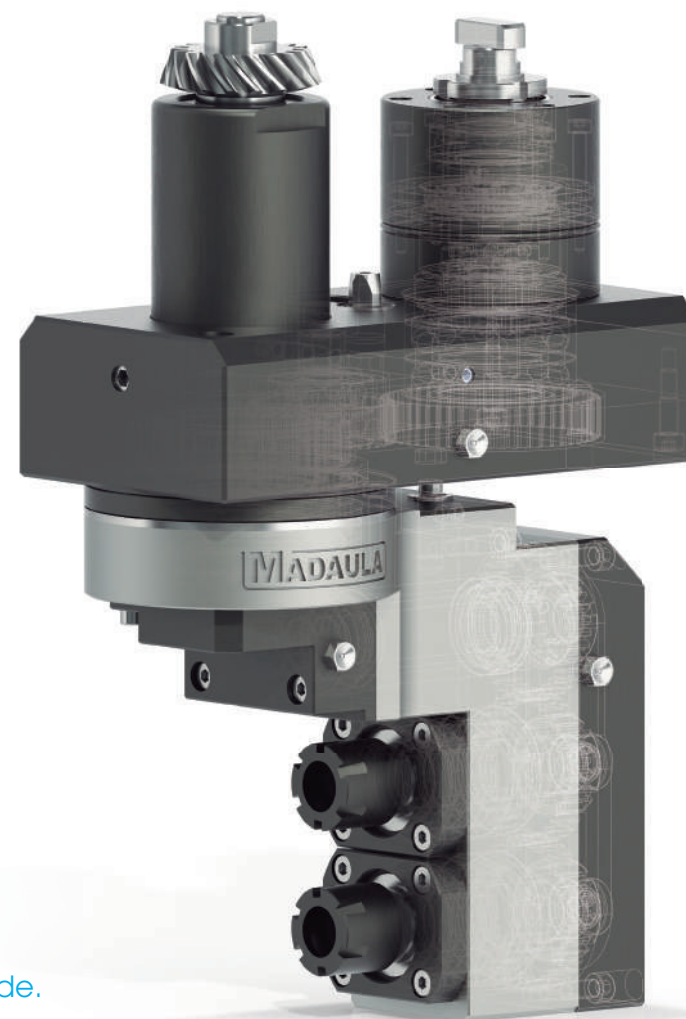
Ingenieri e tecnici che lavorano assieme.

Ingenuity and open mind

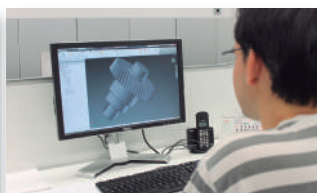
to find the best solutions.

Ingéniosité et l'esprit ouvert pour trouver les meilleures solutions.

L'ingegno e la mente aperta per trovare le migliori soluzioni.



Continuous innovation: We ensure close cooperation with our customers worldwide.



Innovation non-stop:

Nous assurons une étroite coopération avec nos clients dans le monde entier.

Innovazione continua:

Garantiamo una stretta collaborazione con i nostri clienti in tutto il mondo.

Live tooling available for:

Citizen, DMG, Doosan, Hanwha, Maier, Manurhin, Miyano, Nexturn, Nomura, Star, Tornos, Tsugami



Axial



Axial offset



Axial speeder



Axial reducer



Axial IC



Axial offset IC



Radial double
output



Radial 90°



Fixed angle



Radial 90°
speeder



Radial 90°
reducer



Radial
set back IC



Radial
adjustable



Axial multiple
spindles



Axial offset
reducer



Radial multiple
outputs



Saw-mill



Axial multiple
spindles IC



Polygon
maker



Thread whirling



Gear hobbing



Axial saw-mill



Radial
"Y" axis