



AEROSPACE ENGINEERING



FPT INDUSTRIE SPA

Over 50 years of experience in development of highly reliable, innovative solutions

Full sales, after - sales support and program management service all around the world

FPT INDUSTRIE SPA

Oltre 50 anni di esperienza nello sviluppo di soluzioni altamente affidabili e innovative.

Supporto completo per la vendita, post-vendita e servizio di gestione programmi in tutto il mondo

FPT INDUSTRIE SPA

Über 50 Jahre Erfahrung in der Entwicklung höchst zuverlässiger, innovativer Lösungen.

Umfassende Unterstützung vor und nach dem Verkauf inklusive Programm- Management Service weltweit

FPT INDUSTRIE SPA

Plus de 50 ans d'expérience dans le développement des solutions hautement fiables et innovantes.

Ventes complètes, support après-vente et service de gestion des programmes au niveau mondial

SPACE AVIATION





CORPORATE SYSTEM

UNIQUE IN THE WORLD



MACHINE RANGE



PRODUCTION
LINE AUTOMATION



SERVICE DURING
AND AFTER SALES
SERVICE



ACCESSORIES



DIGITAL PLANT
MANAGEMENT



ADVANCE
CLAMPING SYSTEM



STOCK OF
SPARE PARTS



FRICTION
STIR WELDING



TRAINING
CENTER

FPT INDUSTRIE S.p.A. has been producing high precision numerically controlled boring and milling machines for the general mechanics and mould making sectors for over 50 years. It was founded in 1969 and since then, FPT INDUSTRIE S.p.A. has significantly increased and consolidated its presence in international markets, asserting its brand as a synonym of high-tech, precision and reliability. The company's development has not slowed down over time, thereby demonstrating the validity of its production and commercial strategies.

FPT INDUSTRIE S.p.A. owes its success to the continuous generation of innovative ideas and especially to the ongoing research to improve processes, products, services and its corporate image. This research focuses particularly on the market needs while being very sensitive to the importance of the reliability of its machines and the quality of the service provided to the end customer.

FPT INDUSTRIE S.p.A. produce da più di 50 anni macchine alesatrici e fresatrici a controllo numerico di alta precisione per il settore della meccanica generale e per il settore della stampistica. Dalla sua costituzione, avvenuta nel 1969, ad oggi, FPT INDUSTRIE S.p.A. ha incrementato e consolidato significativamente la propria presenza sui mercati internazionali, affermando il proprio marchio come sinonimo di alta tecnologia, precisione ed affidabilità. Lo sviluppo dell'azienda non ha conosciuto rallentamenti nel tempo a conferma della validità delle proprie strategie produttive e commerciali.

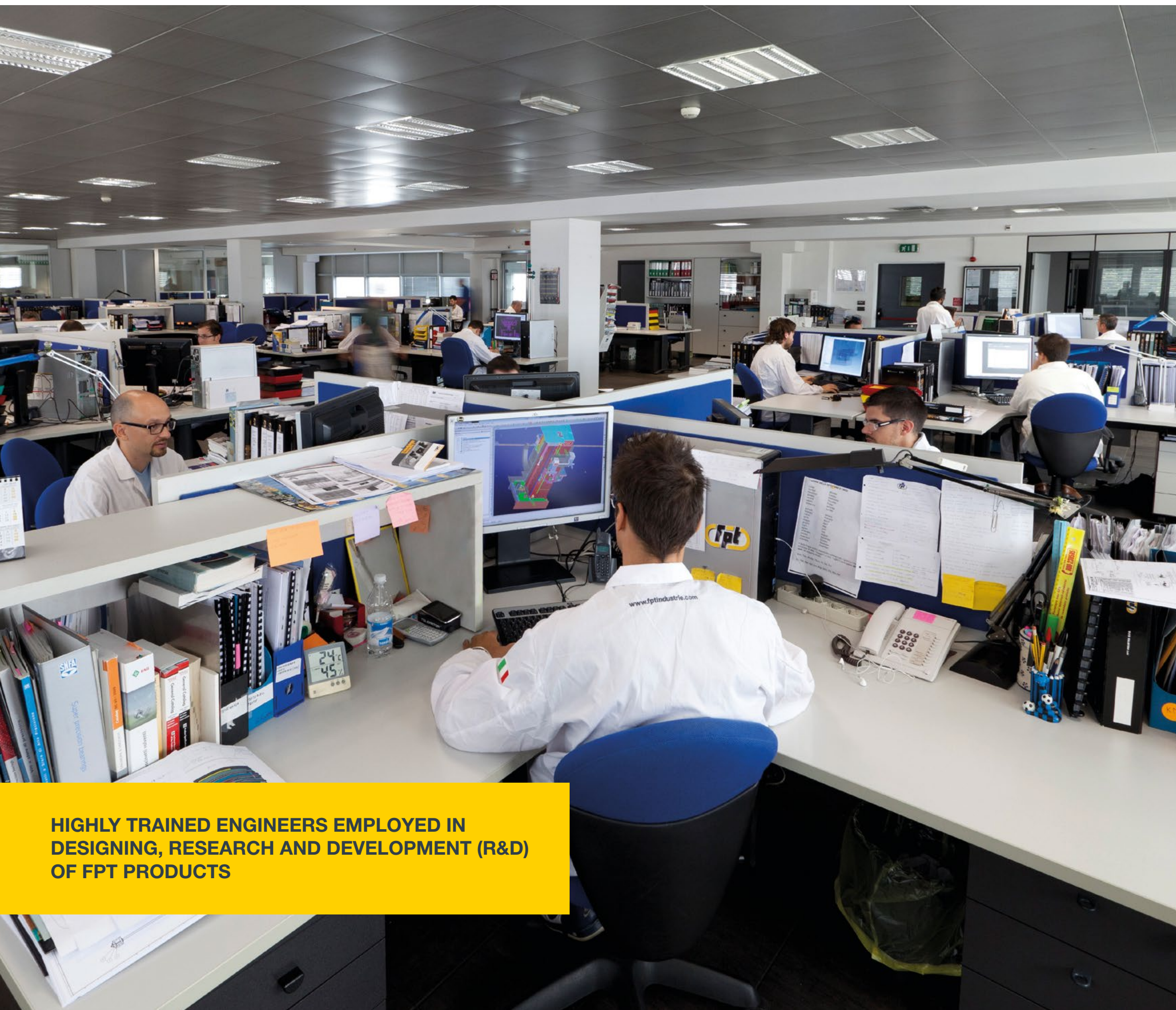
FPT INDUSTRIE S.p.A. deve il suo successo alla continua produzione di idee innovative e soprattutto al continuo lavoro di ricerca nell'ambito del miglioramento dei processi, dei prodotti, dei servizi e della propria immagine aziendale. Tale ricerca è particolarmente attenta alle esigenze del mercato e nel contempo molto sensibile all'importanza dell'affidabilità delle proprie macchine e alla qualità del servizio al cliente finale.

FPT INDUSTRIE S.p.A. produziert seit mehr als 50 Jahren Ausbohr- und Fräsmaschinen von hoher Präzision mit numerischer Steuerung für den Maschinenbau im allgemeinen und für den Formenbau. Von ihrer Gründung 1969 bis heute hat FPT INDUSTRIE S.p.A. ihre Präsenz auf dem internationalen Markt stark erweitert und konsolidiert. Damit steht die Marke als Synonym für Technologie, Präzision und Zuverlässigkeit. Die Produktions- und Vertriebsstrategien des Unternehmens haben sich als erfolgreich erwiesen, denn das Wachstum ist in all den Jahren konstant geblieben. Seinen Erfolg verdankt das Unternehmen FPT INDUSTRIE S.p.A. ständigen innovativen Ideen und vor allem der kontinuierlichen Forschungstätigkeit zur Verbesserung der Verfahren, Produkte und Leistungen sowie des Unternehmensbildes. Die Forschung achtet besonders auf die Marktanforderungen und ist gleichzeitig sehr sensibel in Bezug auf die Bedeutung der Zuverlässigkeit ihrer Maschinen und der Qualität des Kundendienstes für den Endkunden.

La société FPT INDUSTRIE S.p.A. fabrique des aléseuses et des fraises à contrôle numérique de haute précision pour les secteurs de la mécanique générale et du moulage depuis plus de 50 ans. Depuis sa création en 1969, FPT INDUSTRIE S.p.A. a considérablement augmenté et renforcé sa présence sur les marchés internationaux, imposant sa marque comme un synonyme de haute technologie, de précision et de fiabilité. Le développement de l'entreprise n'a jamais ralenti au fil du temps, témoignant de la réussite de ses stratégies commerciales et de production.

FPT INDUSTRIE S.p.A. doit son succès à la production continue d'idées innovantes et surtout au travail constant de recherche en vue de l'amélioration des processus, des produits, des services et de l'image de l'entreprise. Cette recherche est à la fois particulièrement attentive aux exigences du marché et ultra sensible à l'importance de la fiabilité de ses machines et de la qualité du service fourni au client final.





**HIGHLY TRAINED ENGINEERS EMPLOYED IN
DESIGNING, RESEARCH AND DEVELOPMENT (R&D)
OF FPT PRODUCTS**

MAIN SOLUTIONS



The monolith column with lowered trim; rectangular RAM with variable section; 4 guideway system, for both the vertical axis and the RAM, ensure the highest optimization for rigidity



The HYDROQUILL technology revolutionizes the benchmark parameters in terms of accuracy, productivity and life of the big-sized, high performance boring machines



The RAM axis and the boring axis are equipped with a dynamic control system of geometric precision that allows the utmost positioning accuracy along the whole stroke.



Clever hydrostatic thrust-bearing "tilter" for the table bearing and rotation with automatic unbalancing control of the loads to be machined, with adjustment data self-learning (Patent Int. Pend.)



Extracal is an innovative measuring system that operates in real time and measures the position of the working axes independently from the structural strains and/or bending stress of the machine



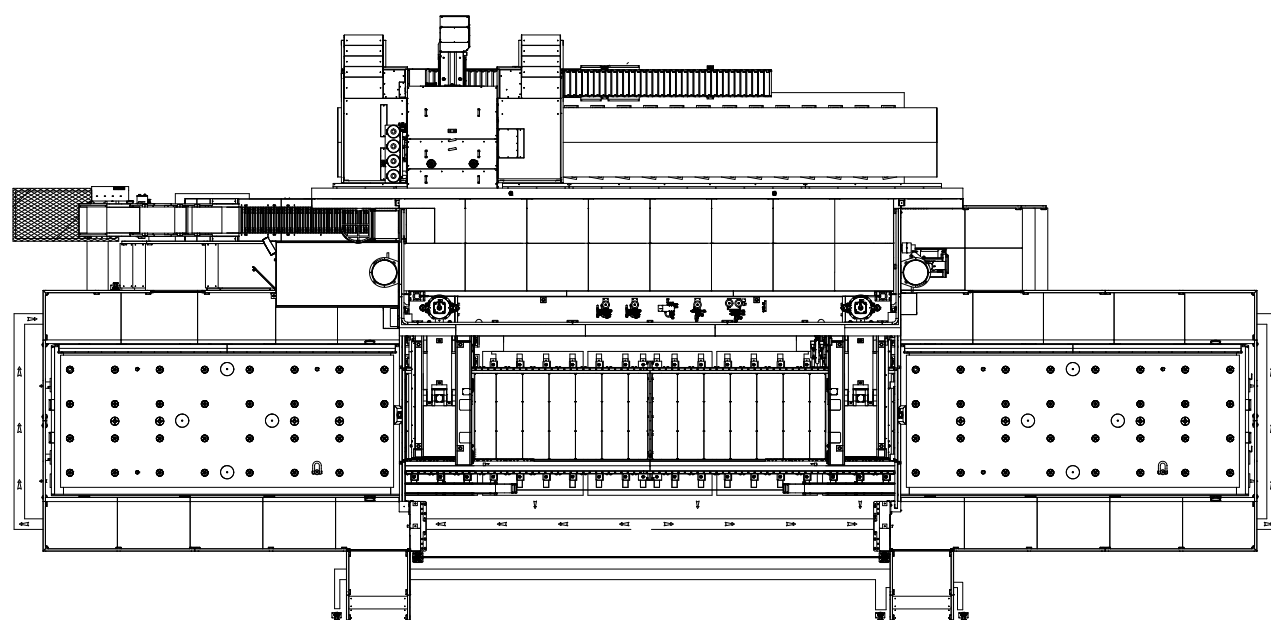
MARES 4.0 + is the only platform that allows the interconnection of machines from different manufactures and with different electronics and operator interface directly integrated on the machines



CUSTOMIZED SOLUTIONS



DEDICATED LAYOUT



HEADS / AUTOMATIC ACCESSORIES CHANGE



TUPC 1993
invented by **fpt**



TUPC HT



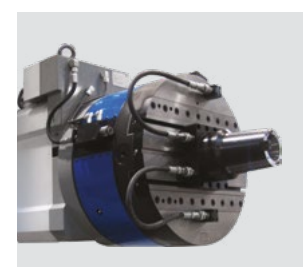
TUDX



TTWM



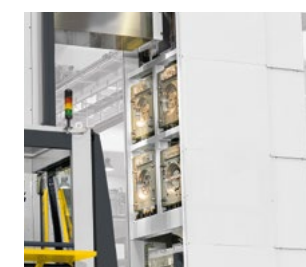
TTWT



UT 5/B



TO

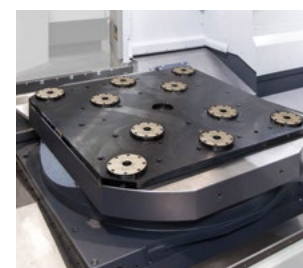


ACC SYSTEM

OPTIONS



ATC



FMZ



APC



FMS

TABLES RANGE



TRT



RT-T

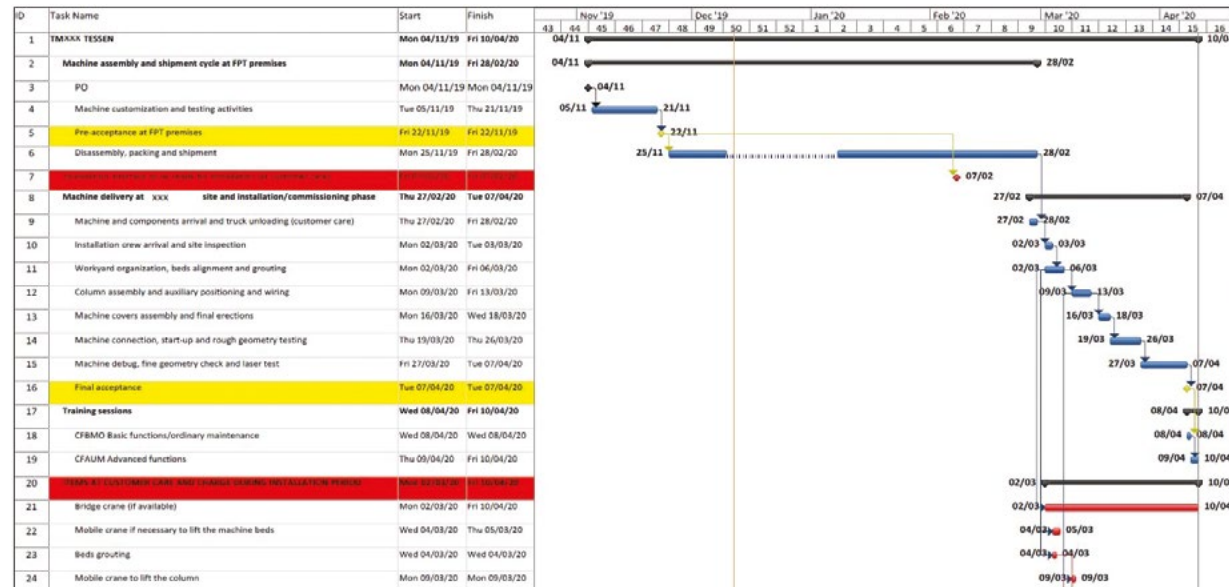


RT

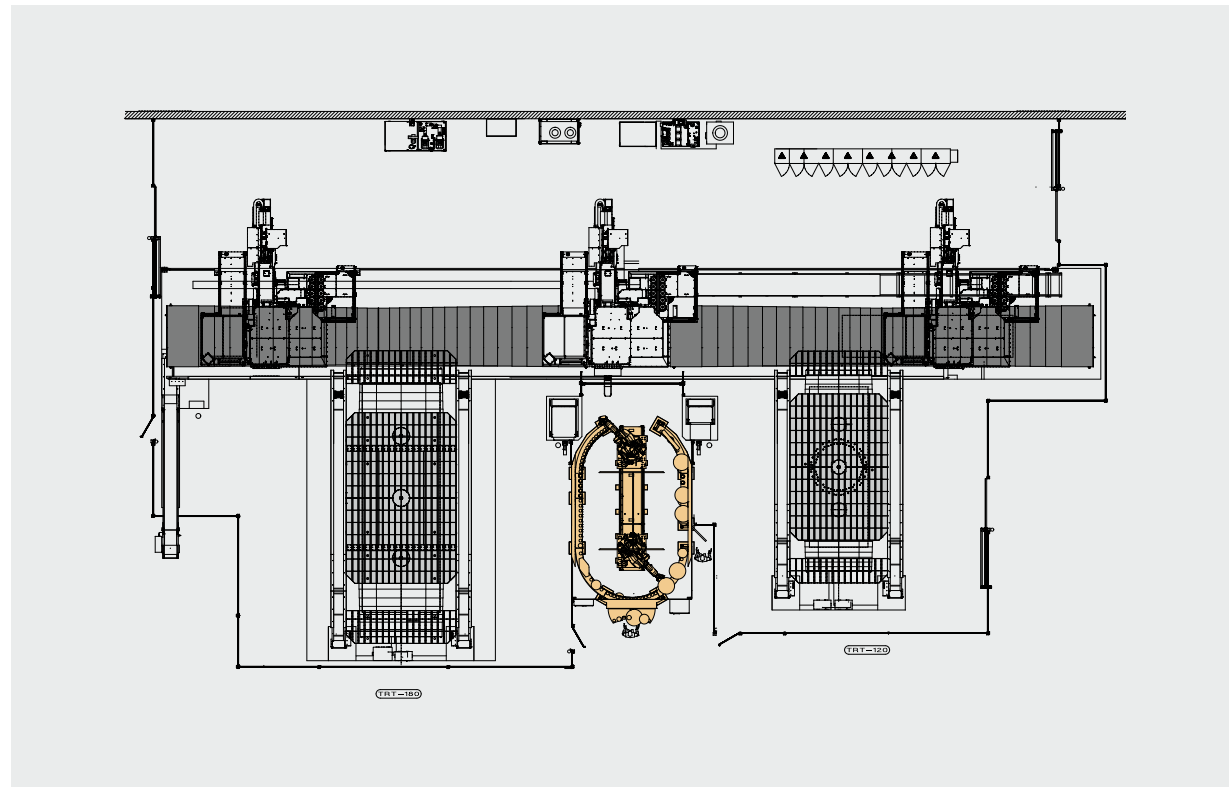


TILTING

CONTINUOUS AND DIRECT SUPPORT FROM A DEDICATED PROJECT MANAGER DURING THE ENTIRE PROJECT



LAYOUT DEVELOPMENT



SERVICE AND SUPPORT

HEADS AND ACCESSORIES ASSEMBLY DEPARTMENT



TEST BENCH AND SETTINGS





HORIZONTAL MACHINE RANGE



HORIZONTAL BORING MACHINE



T-STYLE MILL / TURN MACHINE



BORING AND / OR MILLING MACHINE



MILLING MACHINE



T-STYLE BORING MACHINE



FRICTION STIR WELDING MACHINE

VERTICAL MACHINE RANGE



LOW RAIL GANTRY



LOW RAIL GANTRY



MULTIPURPOSE UPPER GANTRY



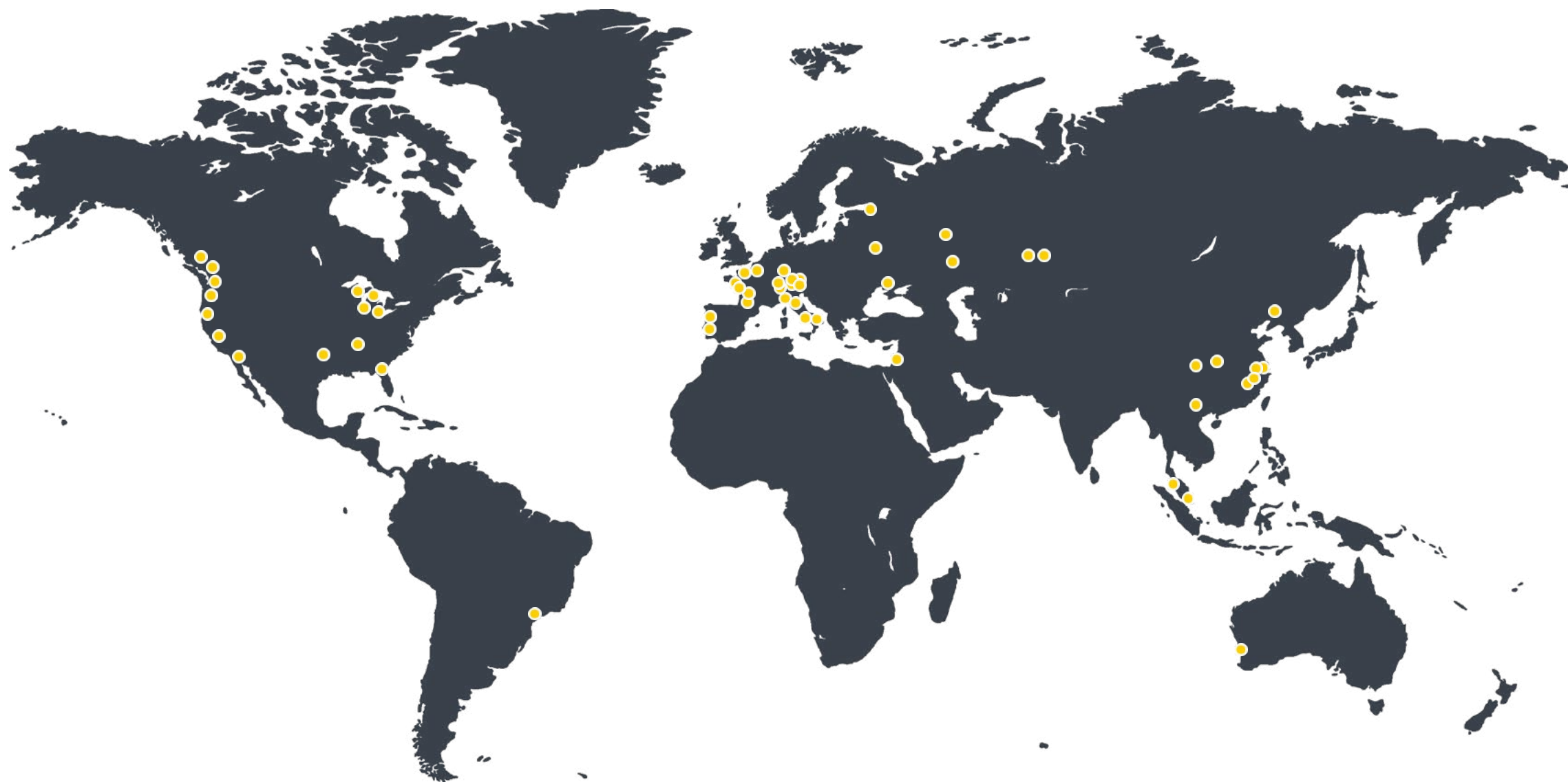
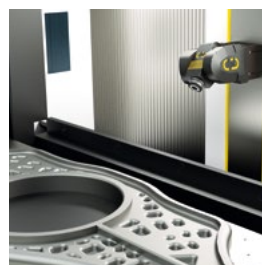
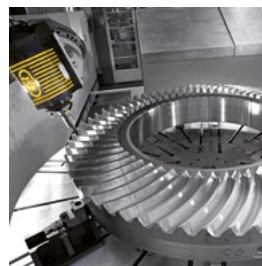
LINEAR MOTORS UPPER GANTRY



5 AXIS MACHINING CENTER



VERTICAL TURNING LATHE



WING STRUCTURE



1 WING RIB



2 FLAP TRACK



3 SPAR



4 STRINGER



5 PYLON

FUSELAGE STRUCTURE



11 DOOR



12 CROSS BEAM



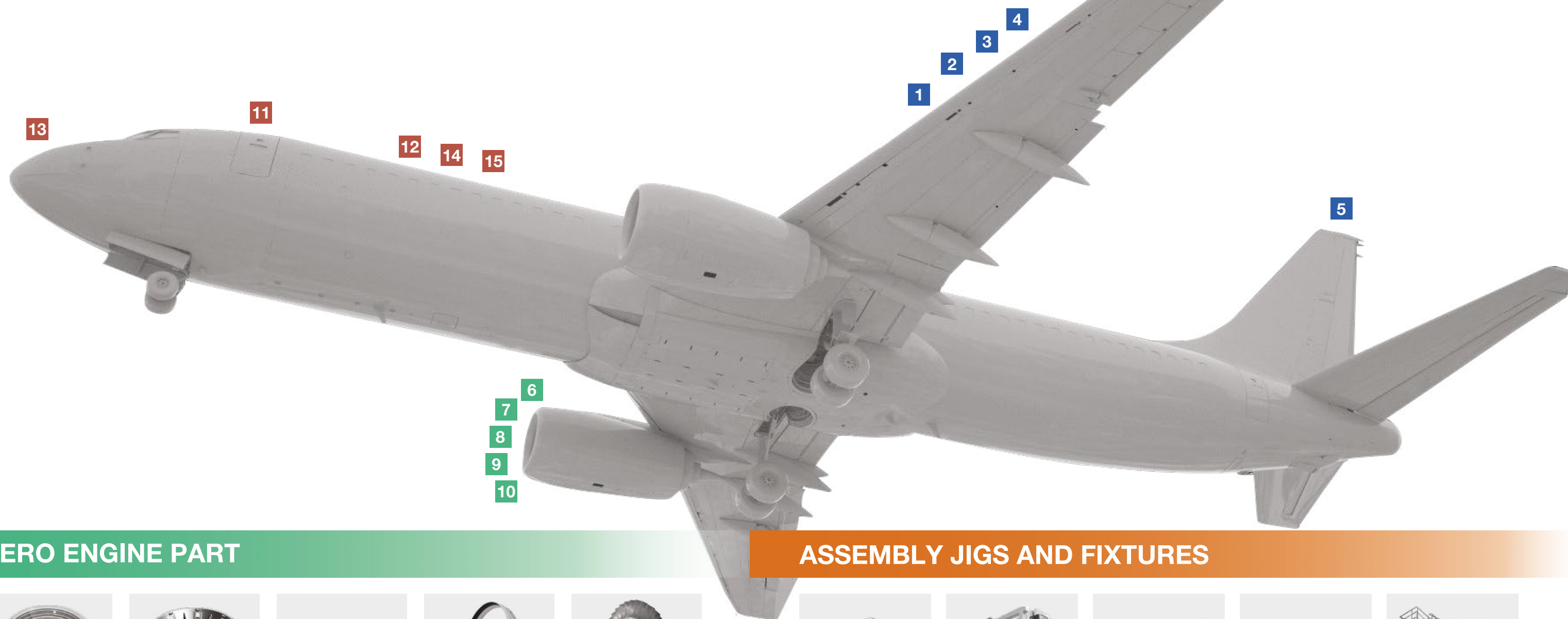
13 BULKHEAD



14 LATTICE FRAME



15 SEAT TRACK



AERO ENGINE PART



6 ENGINE CASING



7 ENGINE CASING



8 ENGINE CASING



9 SHROUD



10 BLISK

ASSEMBLY JIGS AND FIXTURES





AIRCRAFT ENGINE

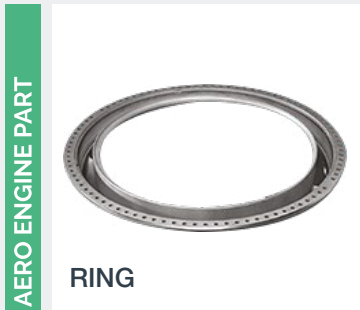
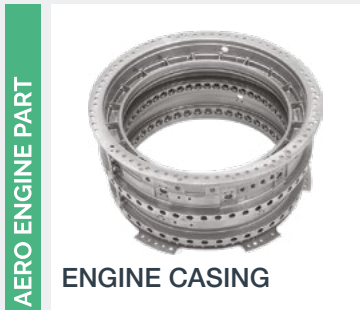
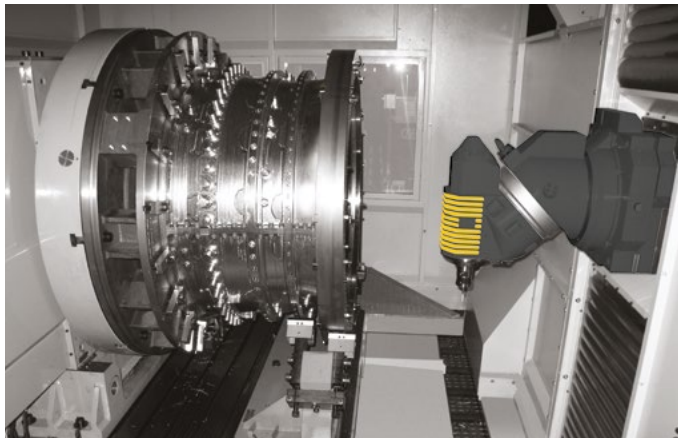
LEAP MOTOR
CASING
IMPELLER
BLISK
TITANIUM COMPONENTS
SUPER ALLOY RINGS
LANDING GEAR





TRAVELS - CORSE - VERFAHRWEGE - COURSES

Longitudinal - Longitudinale - Longitudinale - Längs	mm (in)	2.000 - 3.000 (78,7 - 118,1)
Cross - Trasversale - Transversale - Quer	mm (in)	1.800 (70,9)
Vertical - Verticale - Verticale - Vertikal	mm (in)	1.800 -1.300 (70,9 - 51,2)
Feed rate - Velocità di avanzamento - Vitesse d'avance - Vorschubgeschwindigkeit	mm/min (ipm)	up to 25.000 (984,2)



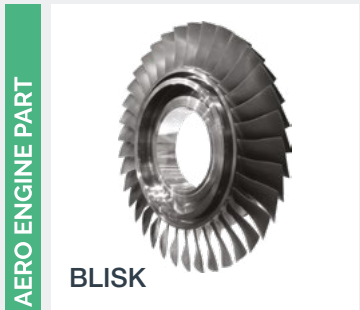
TRAVELS - CORSE - VERFAHRWEGE - COURSES

		RONIN 300	RONIN 400
Longitudinal - Longitudinale - Längs - Longitudinale	mm (in)	4.000 + n x 2.000 (157,5 + n x 78,7)	4.000 + n x 2.000 (157,5 + n x 78,7)
Cross Travel - Corsa Trasversale - Quer - Transversale	mm (in)	1.800 - 1.500 (70,9 - 59)	1.800 - 1.500 (70,9 - 59)
Vertical Travel - Corsa Verticale - Vertikal - Verticale	mm (in)	3.000 - 2.500 (118,1 - 98,4)	4.000 - 3.500 (157,5 - 137,8)

BORING BAR



		RONIN 300 SBS	RONIN 400 SBS
Boring Bar Diameter - Diametro Bareno Durchmesser Bohrstange - Barre d'alésage Diamètre	mm (in)	130 (5,1) - 150 (5,9)	130 (5,1) - 150 (5,9)
Boring Bar Travel (W) - Bareno Transversale (W) Bohrstange Quer (W) - Barre d'alésage Transversale (W)	mm (in)	700 (27,6) - 800 (31,5)	700 (27,6) - 800 (31,5)





TRAVELS - CORSE - VERFAHRWEGE - COURSES

Longitudinal - Longitudinale - Längs - Longitudinale	mm (in)	2.500 - 3.000 - 4.000 - 5.000 (98,4 - 118,1 - 157,5 - 196,9)
Cross travel - Corsa Trasversale - Quer - Transversale	mm (in)	1.500 - 2.000 - 2.500 - 3.000 (59,1 - 78,7 - 98,4 - 118,1)
Vertical travel - Corsa Verticale - Vertikal - Verticale	mm (in)	2.000 - 2.500 - 3.000 (78,7 - 98,4 - 118,1)

BORING BAR

Boring spindle diameter - Diametro mandrino di alesatura Bohrspindel-Durchmesser - Diamètre de la broche d'alésage	mm (in)	Ø 130 - 150 (5,1 - 5,9)
Boring bar length (W) - Corsa bareno (W) Bohrstange Länge (W) - Barre d'alésage longueur (W)	mm (in)	800 - 900 (31,5 - 35,4)



AERO ENGINE PART



TURBINE
COMBUSTOR

AERO ENGINE PART



FAN BLADE

AERO ENGINE PART



BEARING STEELS

AERO ENGINE PART



COMPRESSOR

AERO ENGINE PART



CONE SUPPORT

AERO ENGINE PART

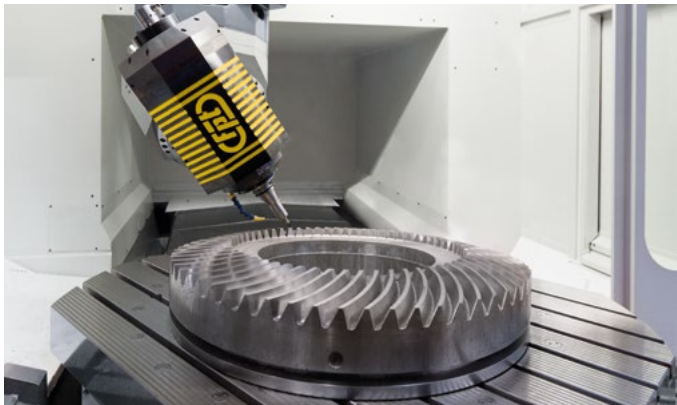


FUEL NOZZLES



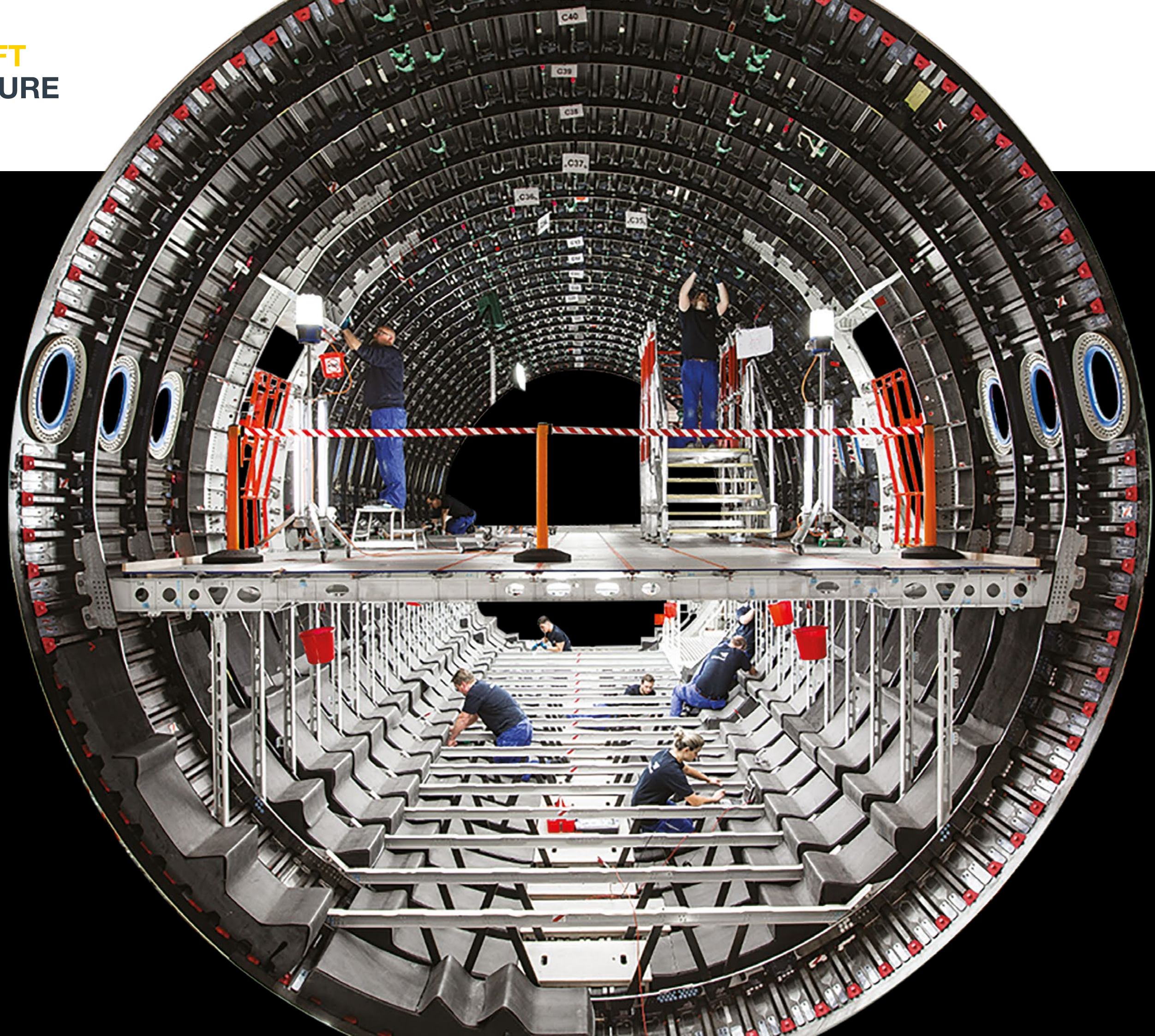
TRAVELS - CORSE - VERFAHRWEGE - COURSES

		STINGER 180	STINGER 280 APC
Longitudinal - Longitudinale - Längs - Longitudinale	mm (in)	1.750 (68,9)	2.000 (78,7)
Cross - Trasversale - Quer - Transversale	mm (in)	1.400 (55,1)	1.400 (55,1)
Vertical - Verticale - Vertikal - Verticale	mm (in)	800 (31,5)	800 (31,5)
Feed rate - Velocità di avanzamento Vorschubgeschwindigkeit - Vitesse d'avance	mm/min (ipm)	up to 35.000 (1.378)	up to 35.000 (1.378)





AIRCRAFT STRUCTURE



ALUMINUM FRAMES
STRINGERS
BULKHEAD

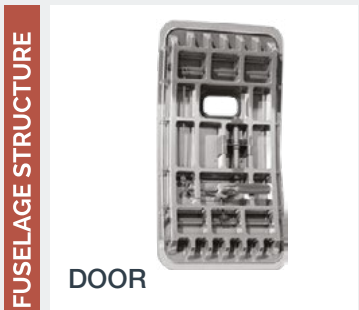
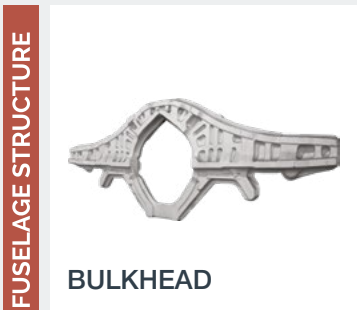


TRAVELS - CORSE - VERFAHRWEGE - COURSES

Longitudinal - Longitudinale - Längs - Longitudinale	mm (in)	7.000 (275,6)
Cross travel - Corsa Trasversale - Quer - Transversale	mm (in)	1.100 - 1.200 (43,3 - 47,2)
Vertical travel - Corsa Verticale - Vertikal - Verticale	mm (in)	2.500 (98,4)

TILTING TABLE

Table dimension - Dimensione tavola - Dimension de la table - Tischabmessungen	mm (in)	6.500x2.500 (255,9x98,4)
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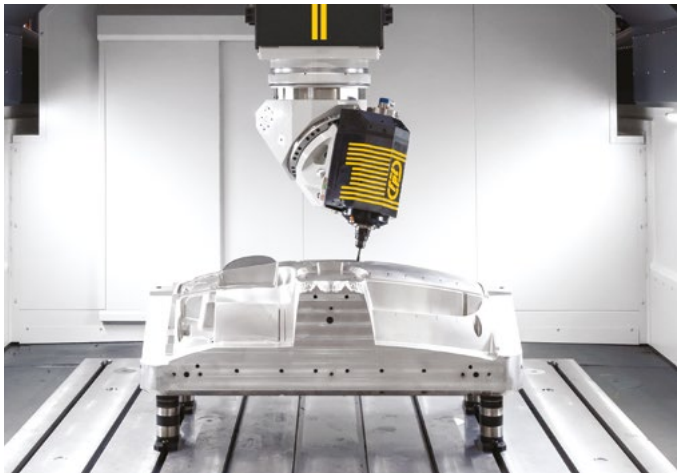
TRAVELS - CORSE - VERFAHRWEGE - COURSES

		DMX 1	DMX 2	DMX 3	DMX 4	DMX 5
Longitudinal - Longitudinale Längs - Longitudinale	mm (in)	3.000 + N x 1.000 (118,1 + N x 39,4)	4.000 + N x 1.000 (157,5 + N x 39,4)	6.000 + N x 1.000 (236,2 + N x 39,4)	8.000 + N x 1.000 (315,0 + N x 39,4)	8.000 + N x 1.000 (315,0 + N x 39,4)
Cross - Trasversale - Quer - Transversale	mm (in)	2.200 (86,6)	2.700 (106,3)	3.200 (126,0)	4.000 (157,5)	5.000 (196,9)
Vertical - Verticale - Vertikal - Verticale	mm (in)	1.100 (43,3)	1.300 - 1.500 (51,2 - 59,0)	1.500 - 1.750 - 2.000 (59,0 - 68,9 - 78,8)	1.500 - 1.750 - 2.000 (59,0 - 68,9 - 78,8)	1.500 - 1.750 - 2.000 (59,0 - 68,9 - 78,8)
Feed rate - Velocità di avanzamento Vorschubgeschwindigkeit - Vitesse d'avance	mm/min (ipm)	up to 50.000 (1.968,5)	up to 50.000 (1.968,5)	up to 50.000 (1.968,5)	up to 50.000 (1.968,5)	up to 50.000 (1.968,5)



TRAVELS - CORSE - VERFAHRWEGE - COURSES

		DP L22	DP L40
Longitudinal - Longitudinale - Längs - Longitudinale	mm (in)	2.200 (86,6)	4.000 (157,5)
Cross - Trasversale - Quer - Transversale	mm (in)	2.500 (98,4)	2.500 (98,4)
Vertical - Verticale - Vertikal - Verticale	mm (in)	1.100 (43,3)	1.300 (51,2)
Feed rate - Velocità di avanzamento - Vorschubgeschwindigkeit - Vitesse d'avance	mm/min (ipm)	up to 40.000 (1.574,8)	up to 40.000 (1.574,8)





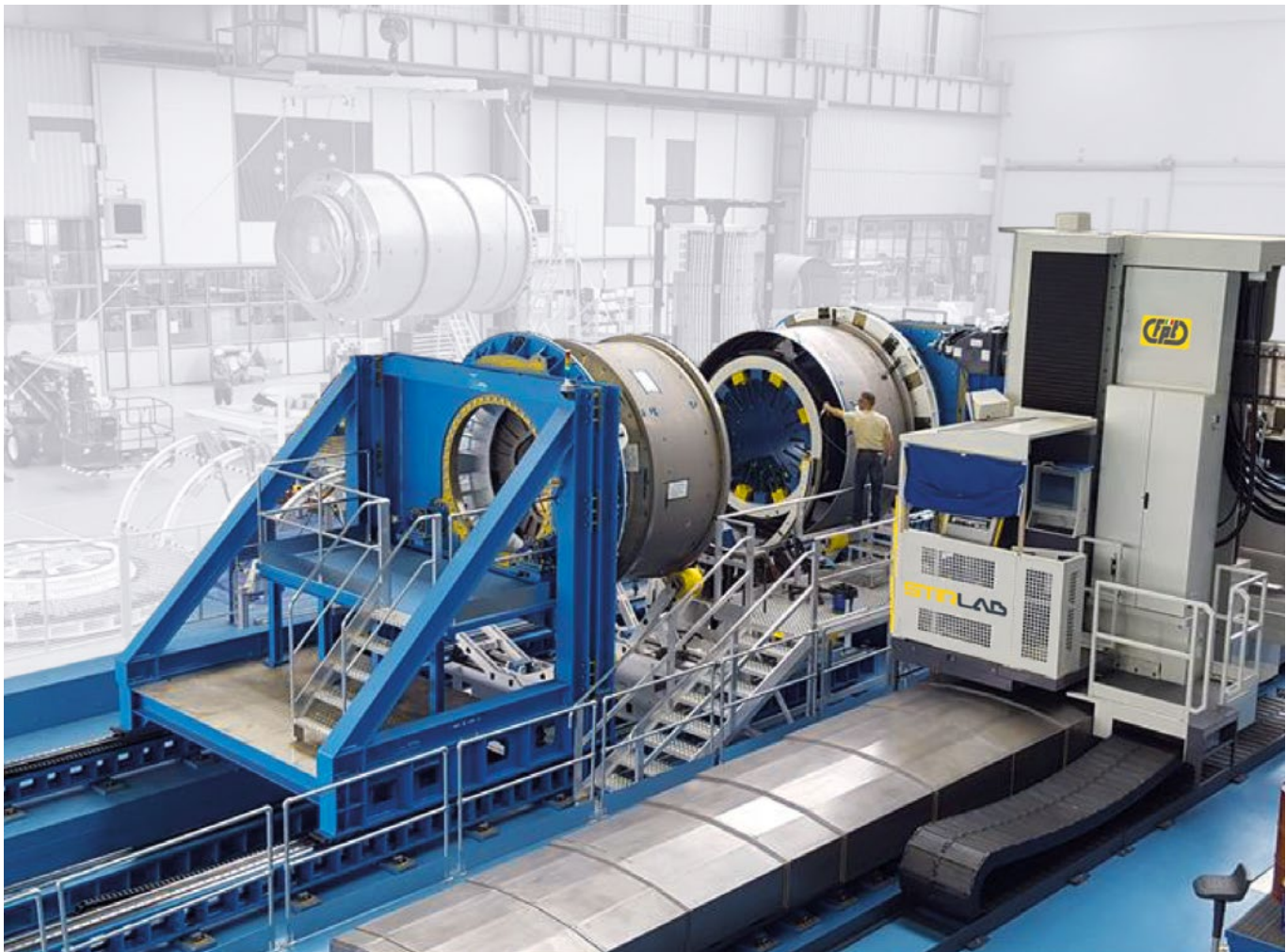
SPACE EXPLORATION



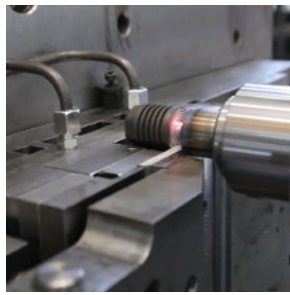
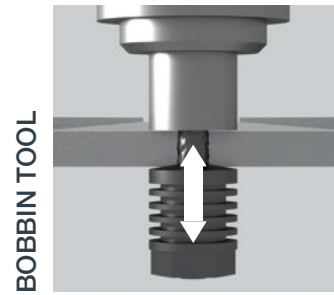
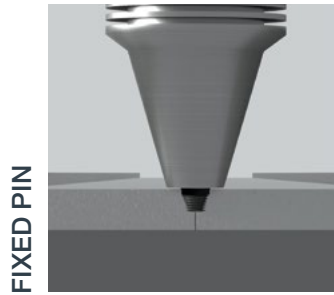
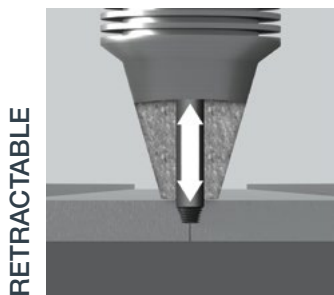
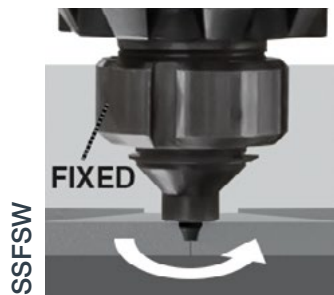
TANK
BULKHEADS
PANELS

Welding depth	mm (in)	up to 8 (0,3)
Axes simultaneous operation	n°	5
Axis Thrust	kN	10
Useful work space	mm (in)	1.500 x 1.000 x 600 (59,0 x 39,3 x 23,6)
Maximum axial force	kN	10
Welding speed	mm/min (ipm)	1.200 (47,2)
Spindle speed	rpm	2.000

MILLING OPTION AVAILABLE



FSW TECHNOLOGIES

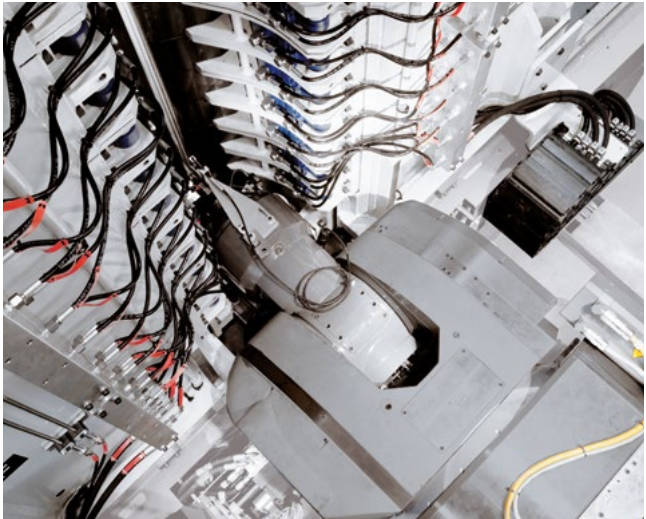




STIRLAB

Welding depth	mm (in)	up to 30 STIRLAB PLUS up to 50
Axis simultaneous operation	n°	up to 5
Axis Thrust	kN	up to 100 STIRLAB PLUS up to 150
X-axis	mm (in)	4.000 - ...
Y-axis	mm (in)	up to 4.600
Z-axis	mm (in)	up to 1.800
Maximum axial force	kN	150
Welding speed	mm/min (ipm)	2.500

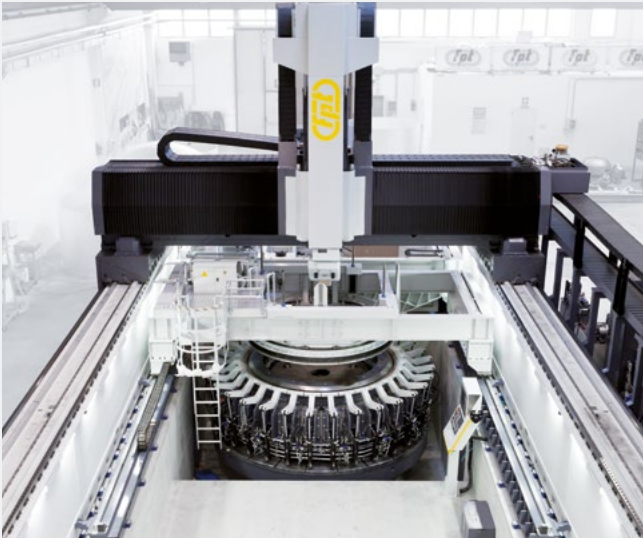
MILLING OPTION AVAILABLE



STIRWALL

Welding depth	mm (in)	up to 30 STIRWALL PLUS up to 50
Axis simultaneous operation	n°	up to 5
Axis Thrust	kN	100 STIRWALL PLUS up to 150
X-axis	mm (in)	4.000 - ...
Y-axis	mm (in)	up to 6.000
Z-axis	mm (in)	up to 2.500
Maximum axial force	kN	150
Welding speed	mm/min (ipm)	2.500
Spindle speed	rpm	1.500

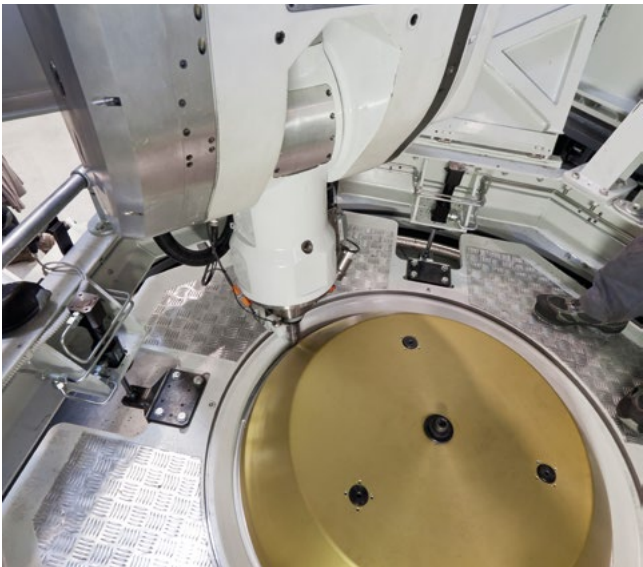
MILLING OPTION AVAILABLE



STIRSPACE

Welding depth	mm (in)	up to 30 STIRSPACE PLUS up to 50
Axis simultaneous operation	n°	up to 5
Axis Thrust	kN	100 STIRSPACE PLUS up to 150
X-axis	mm (in)	4.000 - ...
Y-axis	mm (in)	up to 6.000
Z-axis	mm (in)	up to 2.500
Maximum axial force	kN	150
Welding speed	mm/min (ipm)	2.500
Spindle speed	rpm	1.500

MILLING OPTION AVAILABLE





MACHINES CUSTOMISATION



DUAL TRAVERSE
DUAL RAM
DUAL COLUMN
COUNTERPOSED
TURN MILL
TILTING TABLE SOLUTION



MACHINES CUSTOMISATION

**DUAL
TRAVERSE**



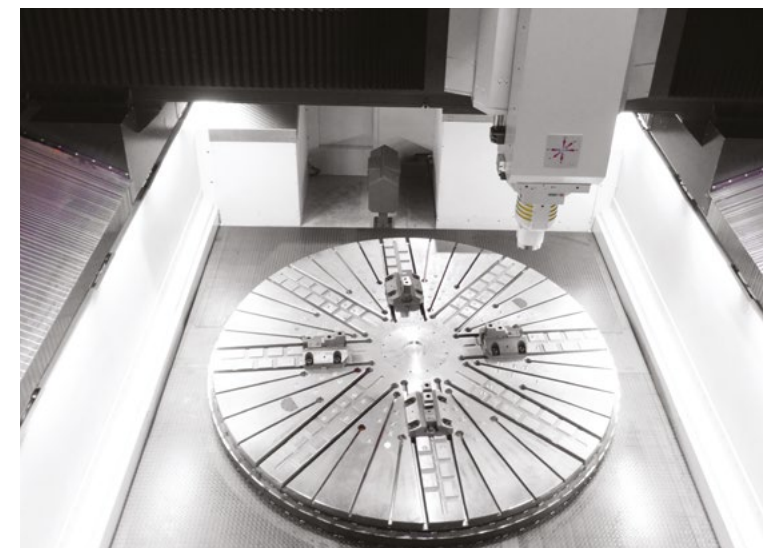
**COUNTER
POSED**



**DUAL
RAM**



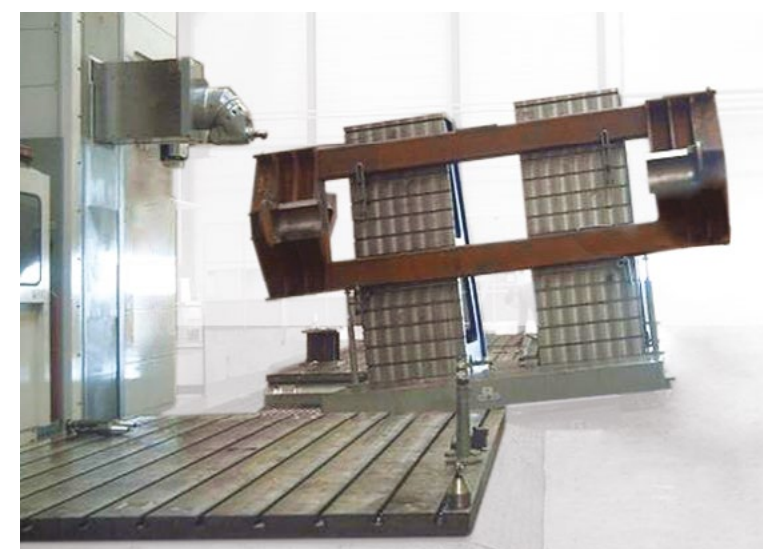
**TURN
MILL**



**DUAL
COLUMN**



**TILTING TABLE
SOLUTION**





SOFTWARE AND ACCESSORIES



PLATFORM MARES 4.0+

EXTRACAL
SCIENTIFIC INSTRUMENTS
BY FPT

FASTMILL
CLAMPING SOLUTIONS



INDUSTRY 4.0 PLATFORM



Platform MARES 4.0+ is the new exclusive IT platform for Industry 4.0 designed and developed by whom produces, uses and manages the integration of machines for over 50 years. MARES 4.0 + is the only platform that allows the interconnection of machines from different manufacturers and with different electronics and an operator interface directly integrated on the machines.

Die MARES 4.0+-Plattform ist die neue, exklusive IT-Plattform für Industrie 4.0. Ausgearbeitet und entwickelt durch einen Maschinenhersteller mit über 50 Jahren Erfahrung im Betrieb und Management der Maschinenintegration, ist MARES 4.0 + die einzige Plattform, mit welcher Maschinen verschiedener Hersteller und mit verschiedenen Elektroniken vernetzt werden können und eine maschinenintegrierte Bedienoberfläche ermöglicht wird.

La Piattaforma MARES 4.0+ è la nuova esclusiva piattaforma informatica per Industria 4.0 studiata e messa a punto da chi produce, utilizza e gestisce l'integrazione delle macchine da oltre 50 anni. MARES 4.0 + è l'unica piattaforma che consente di interconnettere le macchine di produttori differenti e con elettroniche differenti e di avere un'interfaccia operatore direttamente integrata sulle macchine.

La plate-forme MARES 4.0+ est la nouvelle plate-forme informatique exclusive pour l'industrie 4.0 conçue et développée par ceux qui produisent, utilisent et gèrent l'intégration de machines depuis plus de 50 ans. MARES 4.0 + est la seule plate-forme qui vous permet d'interconnecter des machines de différents fabricants et avec différentes électroniques et de disposer d'une interface opérateur directement intégrée aux machines.



PRODUCTIVITY

The applications belonging to this group are aimed at managing productivity and controlling the efficiency of the machine.

LOGISTICS

The applications belonging to this group are aimed at managing production logistics, FMS and processing cells.

ANALYTICS

The applications belonging to this group are aimed at the statistical analysis of production data.

MONITORING

The applications belonging to this group aim at monitoring machine status, monitoring working conditions and using adaptive control software for process deviations.

SERVICE

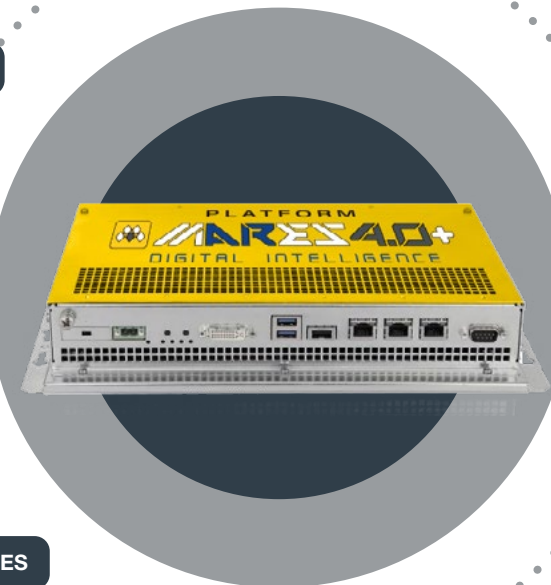
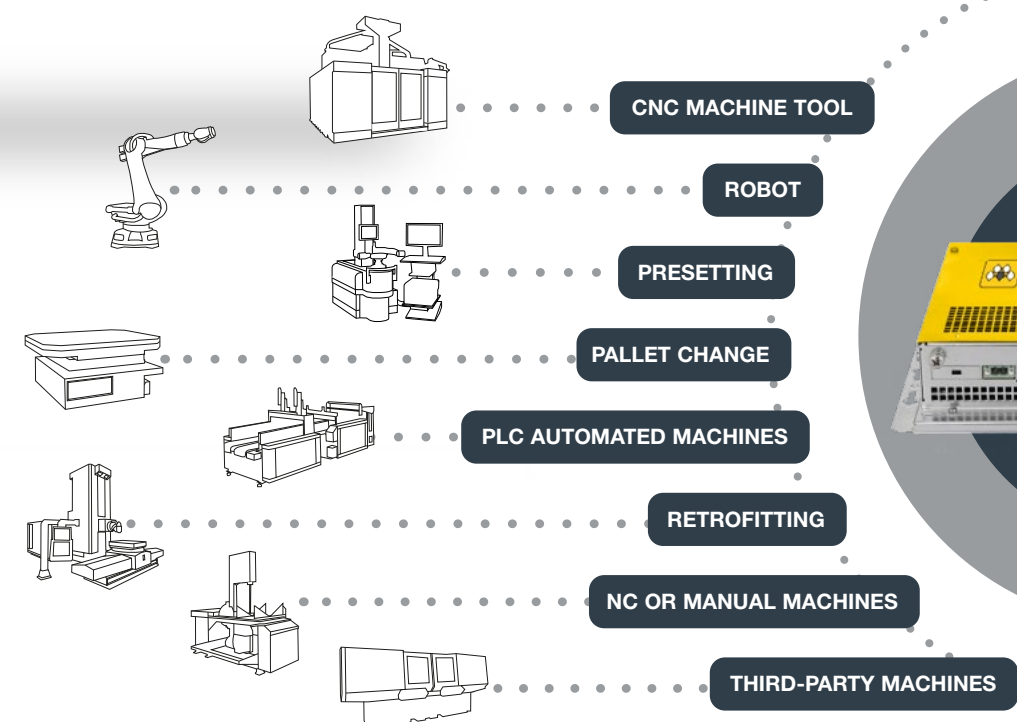
The applications belonging to this group aim at properly managing the machine, providing both technical support for its use and technical assistance service.

DIGITAL TWIN

The applications belonging to this group aim at simulating work programs and virtualizing production processes of the machine.



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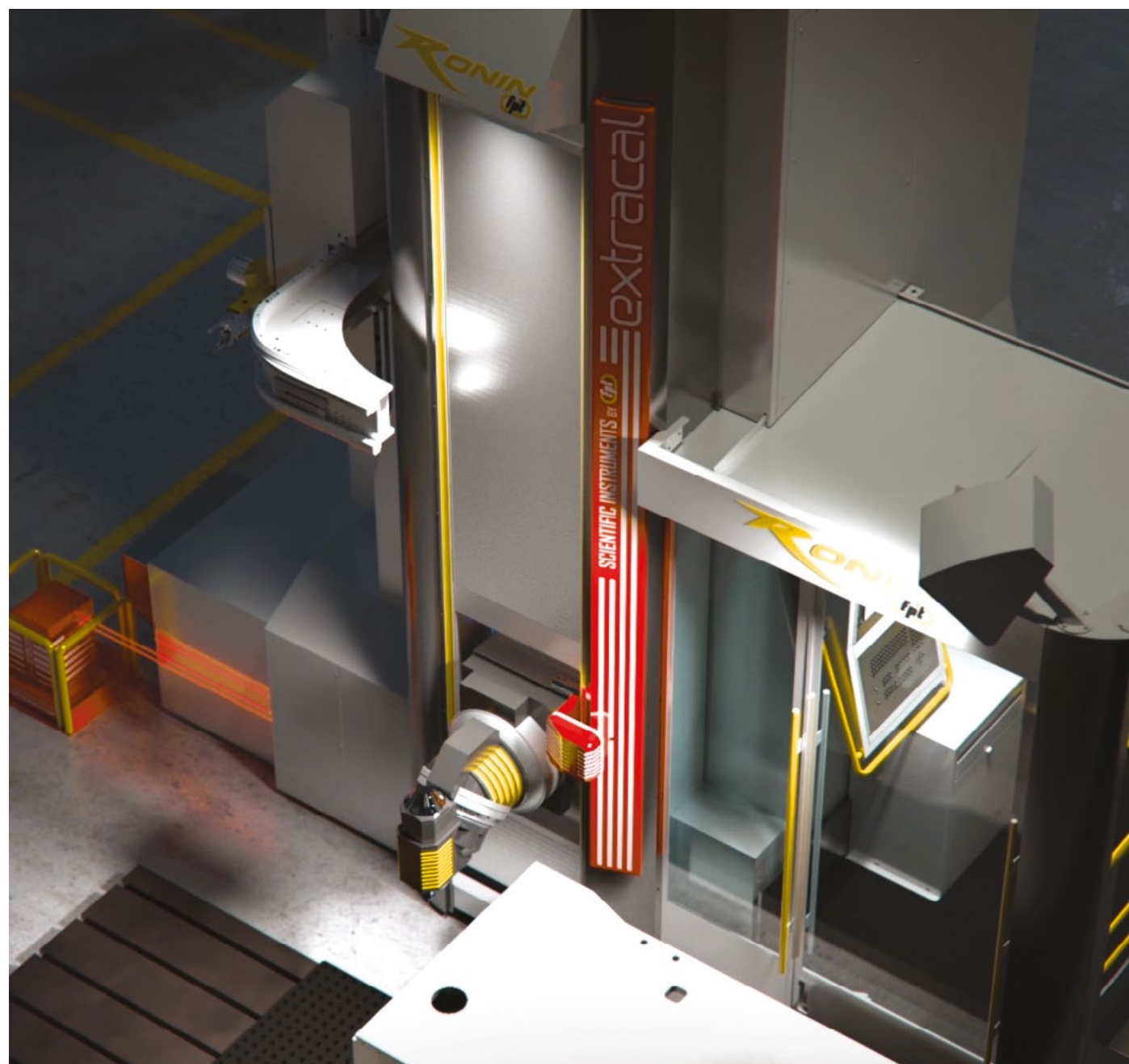




EXTRACAL INNOVATIVE MEASURING SYSTEM



**FPT INDUSTRIE S.P.A. SOFTWARE
MANAGING THE CALIBRATION, THE
MACHINING WITH COMPENSATION AND
THE MEASURE OF THE WORKPIECE**



EXTRACAL INNOVATIVE MEASURING SYSTEM

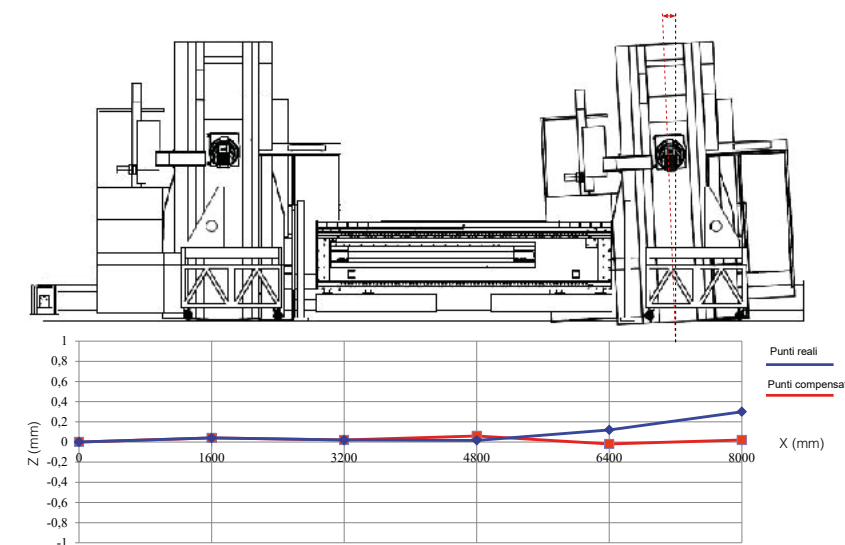
Extracal is an innovative measuring system, that operates in real time and measures the position of the working axes independently from the structural strains and/or bending stress of the machine. For the first time a milling or boring machine is able to certify the machined workpiece measurement with the same accuracy of a 3D measuring machine, saving lots of time and huge costs of machined workpiece movement, particularly if they are of big-sized dimensions. It allows to introduce suitable corrections to the machine tool so that to automatically restore the machine axis calibration, without any additional device and granting the accuracy.

Extracal è un innovativo sistema di misurazione in tempo reale della posizione degli assi di lavoro con indipendenza dalle deformazioni strutturali e/o flessionali della macchina. Per la prima volta una fresatrice o alesatrice è in grado di certificare le misurazioni dei pezzi lavorati con la stessa precisione di una macchina di misura tridimensionale, risparmiando enormi tempi e costi di spostamento dei pezzi lavorati, soprattutto se di grandi dimensioni. Consente di applicare opportune correzioni alla macchina utensile in modo da rinnovare la calibrazione degli assi macchina in modalità autonoma, senza bisogno di apparecchiature esterne, garantendone la precisione.

Extracal ist ein innovatives System zur Echtzeit-Messung der Achsposition und dies unabhängig von strukturellen und/oder Biegeverformungen. Erstmals ist ein Fräs- oder Bohrwerk in der Lage, die Messungen der bearbeiteten Werkstücke zu zertifizieren, und zwar mit gleicher Präzision wie eine 3D-Messmaschine. So können enorm viel Zeit und Kosten der Umlagerung eingespart werden, hauptsächlich bei großen Teilen. Das System ermöglicht, Korrekturen an der Werkzeugmaschine und somit die Kalibrierung der Maschinenachsen erneut vorzunehmen, dies ohne auf externe Geräte zurückgreifen zu müssen und dabei die Präzision zu garantieren.

Extracal est un système innovant pour la mesure, en temps réel, de la position des axes de travail, de façon indépendante des déformations structurales et/ou de la flexion de la machine. Pour la première fois une fraiseuse ou aléuseuse peut certifier les dimensions des pièces usinées, avec la même précision d'une machine de mesure tridimensionnelle. Cela permet de gagner beaucoup de temps et d'épargner les coûts pour la manutention des pièces usinées, surtout dans le cas de pièces de grandes dimensions. Il permet de corriger la machine-outil, afin de réviser le calibrage des axes machine en mode autonome, sans l'emploi d'équipements supplémentaires, en assurant la précision.

THE WORLDWIDE REVOLUTION IN THE HISTORY OF MACHINE TOOLS



In collaboration with:

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INNOVATIVE SOLUTIONS FOR FAST CLAMPING AND POSITIONING SYSTEM

CLAMPING SOLUTIONS
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SUPPORT



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Ø 49 RANGE



SMART CUBE



INNOVATIVE
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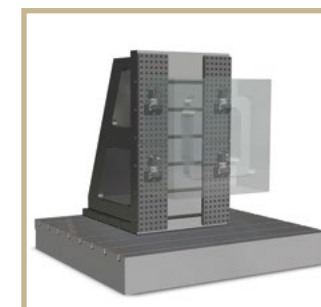
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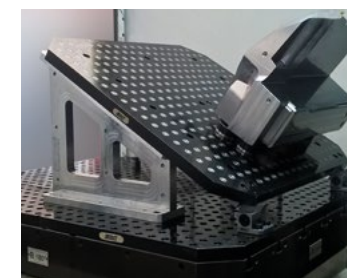
MODULES RANGE



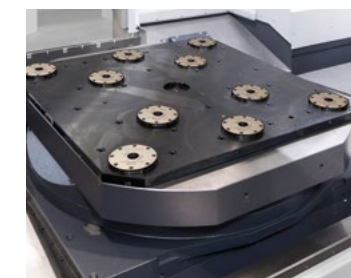
RISER RANGE



THIRD CLAMPING POINT



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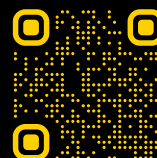


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