varinelli

Group ARTHUR KLINK BROACHING INTERNATIONAL

BROCCIATRICI E BROCCE

BROACHING MACHINE & BROACHES
RÄUMMASCHINEN UND RÄUMWERKZEUGE
MACHINES À BROCHER ET BROCHES
MÁQUINAS BROCHADORAS Y BROCHAS

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BROCCIATRICI PER INTERNI

INTERNAL BROACHING MACHINES - INNENRÄUMMASCHINEN - MACHINES À BROCHER POUR INTERIEURS - MÁQUINAS BROCHADORAS PARA INTERIOR

RISH – M COMPACT

	Verticale elettromeccanica a tavola montante. Trazione con viti a ricircolo di rulli satelliti. Sforzo di trazione: da 6.3 a 16 Ton. Corsa: da 1.250 a 1.600 mm Sezione tavola: 400 / 500 mm
	Vertical electromechanical table-up. Traction with planetary roller screw drives. Traction force: 6.3 to 16 tons. Stroke: from 1.250 to 1.600 mm Section table: 400 / 500 mm
	Elektromechanische Senkrecht-Innenräummaschine in Hebetisch Bauweise. Antrieb über Planetenrollenspindeln. Zugkraft: 6,3 bis 16 Tonnen. Hub: 1.250 bis 1.600 mm Tischbreite: 400 / 500 mm
	Verticale électromécanique á table montante. Brocheuse à tirer avec les lecteurs de vis à rouleaux satellites. Effort de traction: 6,3 à 16 tonnes. AVC: 1.250-1.600 mm Section de la table: 400 / 500 mm
	Vertical electromecánica con mesa móvil. Tracción con husillos de rodillos planetarios. Esfuerzo de tracción: de 6,3 a 16 toneladas. Carrera: desde 1.250 hasta 1.600 mm Sección tabla: 400 / 500 mm

RISH – M HIGH SPEED

Verticale elettromeccanica a tavola montante. Trazione mediante pignone/cremagliera.
Sforzo di trazione: da 6.3 a 25 Ton.
Corsa: da 1.250 a 2.000 mm
Sezione tavola: 500 mm
Velocità di brocciatura: fino a 60 m / min
Durezza pezzo in brocciatura: fino a 59 HRC

Vertical electromechanical table-up.
Traction through pinion / rack.
Traction force: 6.3 to 25 tons.
Stroke: from 1.250 to 2.000 mm
Section table: 500 mm
Broaching speed: up to 60 m / min
Hardness of the piece in broaching: up to 59 HRC

Elektromechanische Senkrecht-Innenräummaschine in Hebetisch Bauweise. Antrieb über Ritzel-Zahnstange.
Zugkraft: 6.3 bis 25 Tonnen.
Hub: 1.250 bis 2.000 mm
Tischbreite: 500 mm
Räumgeschwindigkeit: bis zu 60 m / min
Härte der zu räumenden Werkstücke: bis zu 59 HRC

Verticale électromécanique á table montante. Traction au moyen de pignon / crémaillère.
Effort de traction: 6.3 à 25 tonnes.
AVC: 1.250-2.000 mm
Section de la table: 500 mm
Vitesse de Brochage: jusqu'à 60 m / min
Dureté de la pièce pendant brochage: jusqu'à 59 HRC

Vertical electromecánica con mesa móvil. La tracción es a través de piñón / cremallera.
Esfuerzo de tracción: de 6.3 a 25 toneladas.
Carrera: desde 1.250 hasta 2.000 mm
Sección tabla: 500 mm
Velocidad de brochado: hasta 60 m / min
Dureza de la pieza en brochado: hasta 59 HRC

RISH - M

	Verticale elettromeccanica a tavola montante. Trazione con viti a ricircolo di rulli satelliti. Sforzo di trazione: da 25 a 63 Ton. Corsa: da 2.000 a 2.500 mm Sezione tavola: da 500 a 800 mm
	Vertical electromechanical table-up. Traction with planetary roller screw drives. Traction force: 25 to 63 tons. Stroke: from 2.000 to 2.500 mm Section table: from 500 to 800 mm
	Elektromechanische Senkrecht-Innenräummaschine in Hebetisch Bauweise. Antrieb über Planetenrollenspindeln. Zugkraft: 25 bis 63 Tonnen. Hub: 2.000 bis 2.500 mm Tischbreite: 500 bis 800 mm
	Verticale électromécanique á table montante. Brocheuse à tirer avec les lecteurs de vis à rouleaux satellites. Effort de traction: 25 à 63 tonnes. AVC: 2.000-2.500 mm Section de la table: 500-800 mm
	Vertical electromecánica con mesa móvil. Tracción con husillos de rodillos planetarios. Esfuerzo de tracción: de 25 a 63 toneladas. Carrera: desde 2.000 hasta 2.500 mm Sección tabla: desde 500 hasta 800 mm

RISH - M

	Verticale elettromeccanica a tavola montante. Trazione con viti a ricircolo di rulli satelliti. Sforzo di trazione: da 80 a 120 Ton. Corsa: da 2.000 a 3.000 mm Sezione tavola: da 500 a 800 mm
	Vertical electromechanical table-up. Traction with planetary roller screw drives. Traction force: 80 to 120 tons. Stroke: from 2.000 to 3.000 mm Section table: from 500 to 800 mm
	Elektromechanische Senkrecht-Innenräummaschine in Hebetisch Bauweise. Antrieb über Planetenrollenspindeln. Zugkraft: 80 bis 120 Tonnen. Hub: 2.000 bis 3.000 mm Tischbreite: 500 bis 800 mm
	Verticale électromécanique á table montante. Brocheuse à tirer avec les lecteurs de vis à rouleaux satellites. Effort de traction: 80 à 120 tonnes. AVC: 2.000-3.000 mm Section de la table: 500-800 mm
	Vertical electromecánica con mesa móvil. Tracción con husillos de rodillos planetarios. Esfuerzo de tracción: de 80 a 120 toneladas. Carrera: desde 2.000 hasta 3.000 mm Sección tabla: desde 500 hasta 800 mm

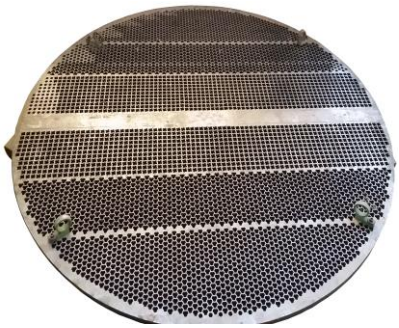
RIS - Z

	Verticale idraulica a due cilindri. Sforzo di trazione: da 10 a 200 Ton. Corsa: da 1.250 a 3.000 mm Sezione tavola: da 500 a 1.000 mm
	Vertical hydraulic twin cylinders. Traction force: 10 to 200 tons. Stroke: from 1.250 to 3.000 mm Section table: from 500 to 1.000 mm
	Hydraulisches Senkrecht-Innenräummaschine in 2 Zylinder Bauweise. Zugkraft: 10 bis 200 Tonnen. Hub: 1.250 bis 3.000 mm Tischbreite: 500 bis 1.000 mm
	Verticale hydraulique à deux vérins. Effort de traction: 10 à 200 tonnes. AVC: 1.250-3.000 mm Section de la table: 500-1.000 mm
	Hidráulica vertical de dos cilindros. Esfuerzo de tracción: de 10 a 200 toneladas. Carrera: desde 1.250 hasta 3.000 mm Sección tabla: desde 500 hasta 1.000 mm

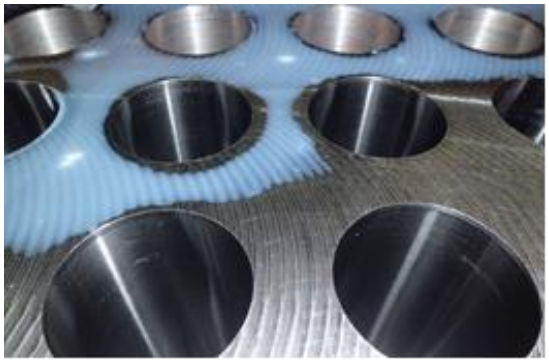
RASM-A

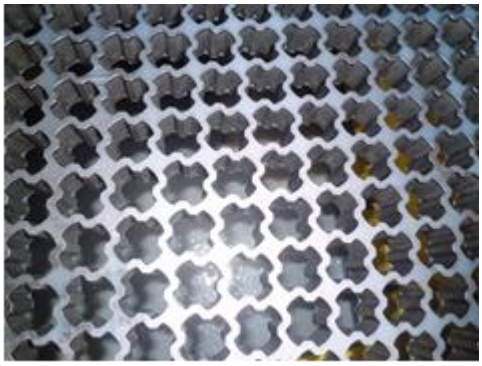
	Verticale elettromeccanica per esterni – Brocciatura cremagliere sterzo Sforzo di trazione: da 10 a 63 Ton. Corsa: da 1.250 a 3.000 mm
	Vertical electromechanical for external profiles – Ex. broaching of steering racks Traction force: 10 to 63 tons. Stroke: from 1.250 to 3.000 mm
	Vertikale Außenräummaschine mit elektro-mechanischem Antrieb – Räumen von Lenkungszahnstangen Zugkraft: 10 bis 63 Tonnen. Hub: 1.250 bis 3.000 mm
	Verticale electromécanique pour extérieurs – Brochage de cremaillères de direction Effort de traction: 10 à 63 tonnes. Course : 1.250 à 3.000 mm
	Máquina brochadora vertical electromecánica para exteriores – Brochado de cremalleras de dirección Esfuerzo de tracción: desde 10 hasta 63 toneladas. Carrera: desde 1.250 hasta 3.000 mm

Drilling & Broaching of TSP Plates Tube Support Plates for Heat Exchangers



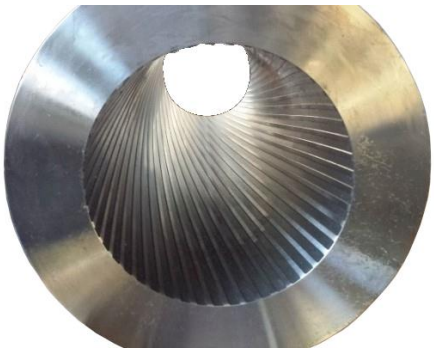
	Brocciatrice elettromeccanica verticale e foratrice verticale. Piastra rettangolare: 5.500x5.500 mm Piastra circolare ≤ Ø6.000 mm Nr. stazioni sia di foratura che brocciatura contemporanea: 6
	Vertical internal electromechanical broaching machine and vertical drilling machine. Rectangular plate: 5.500x5.500 mm Circular plate ≤ Ø6.000 mm No. of spindles either for drilling and broaching: 6
	Elektromechanische Senkrecht –Innenräummaschine und Senkrecht Bohrmaschine. Rechteckige Platte: 5.500x5.500 mm Kreisförmigen Platte ≤ Ø6.000 mm Anzahl von Bohr- und gleichzeitiges Räumstellen: 6
	Électromécanique machine à brocher verticale et machine à percer Plaque rectangulaire: 5.500x5.500 mm Plaque circulaire ≤ Ø6.000 mm Nombre de stations de brochage et perçage : 6
	Máquina brochadora electromecánica vertical , máquina de perforación. Placa rectangular: 5.500x5.500 mm Placa circular ≤ Ø6.000 mm Número de estaciones de perforación y contemporáneo brochado: 6

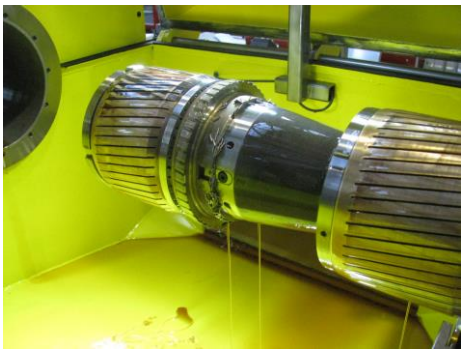




RIW – M SPECIAL RIFLING

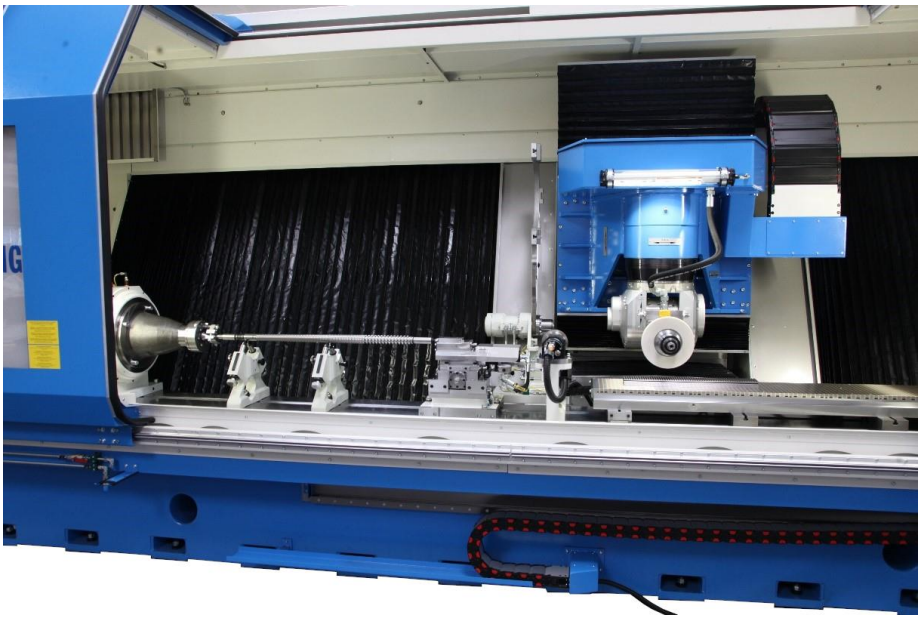
	Orizzontale elettromeccanica per rigatura canne. Trazione mediante pignone/cremagliera. Sforzo di trazione: da 7 a 10 Ton. Corsa: da 3.000 a 12.000 mm Diametro foro brocciabile: da 20 a 205 mm
	Horizontal Electromechanical Rifling Machine for barrel. Traction through pinion / rack. Traction force: 7 to 10 tons. Stroke: from 3.000 to 12.000 mm Broached hole diameter: 20 to 205 mm
	Elektromechanischen horizontale Drallräummaschine zum Ziehen von Läufen. Antrieb über Ritzel-Zahnstange. Zugkraft: 7 bis 10 Tonnen. Hub: 3.000 bis 12.000 mm Bohrungsdurchmesser zum Räumen: 20 bis 205 mm
	Horizontale électromécanique machinè pour rayure du canon. Traction au moyen de pignon / crémaillère. Effort de traction: 7 à 10 tonnes. AVC: 3.000-12.000 mm Diamètre trou à brocher: 20 à 205 mm
	Horizontal electromecánica para estriado del cañón. La tracción es a través de piñón / cremallera. Resistencia a la tracción: de 7 a 10 toneladas. Carrera: desde 3.000 hasta 12.000 mm Diámetro del agujero de brochado: de 20 a 205 mm





PRODUZIONE BROCCE

BROACHING TOOLS PRODUCTION – SPEZIELLE MASCHINEN - MACHINES SPÉCIALES - MÁQUINAS ESPECIALES



	Nuove profilatrici SMF prodotte dal ns. Gruppo
	Brand new profile grinding machines SMF produced inside our Group
	Neue SMF Profilmaschinen von unserer Gruppe hergestellt
	Nouvelles machines à profiler SMF, produites par notre Groupe
	Nuevas máquinas para perfilar SMF producidas por nuestro Grupo

BROCCE PER INTERNI

INTERNAL BROACHES - INNENRAUMWERKZEUGE - BROCHES POUR INTÉRIEURS - BROCHAS PARA INTERIOR

RING GEAR BROACHES & SHELLS

HARD BROACHES

RIFLING BROACHES

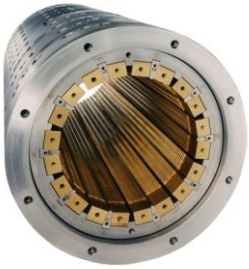
HELICAL BROACHES

BROCCE PER ESTERNI

EXTERNAL BROACHES - AUßENRAUMWERKZEUGE - BROCHES POUR EXTÉRIEURS - BROCHAS PARA EXTERIOR

KEY-WAY BROACHES

SURFACE BROACHES

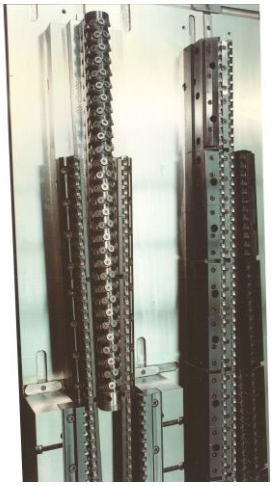


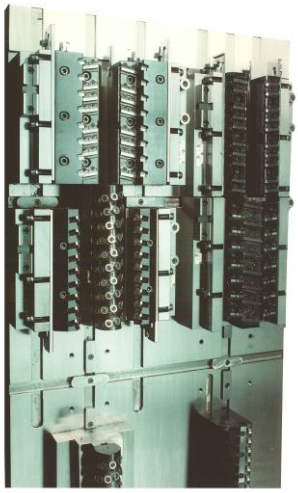
POT BROACHES

BROCCE SPECIALI

SPECIAL BROACHES - SONDERRAUMWERKZEUGE - BROCHES SPÉCIALES - BROCHAS ESPECIALES

FIR TREE / DOVETAIL BROACHES

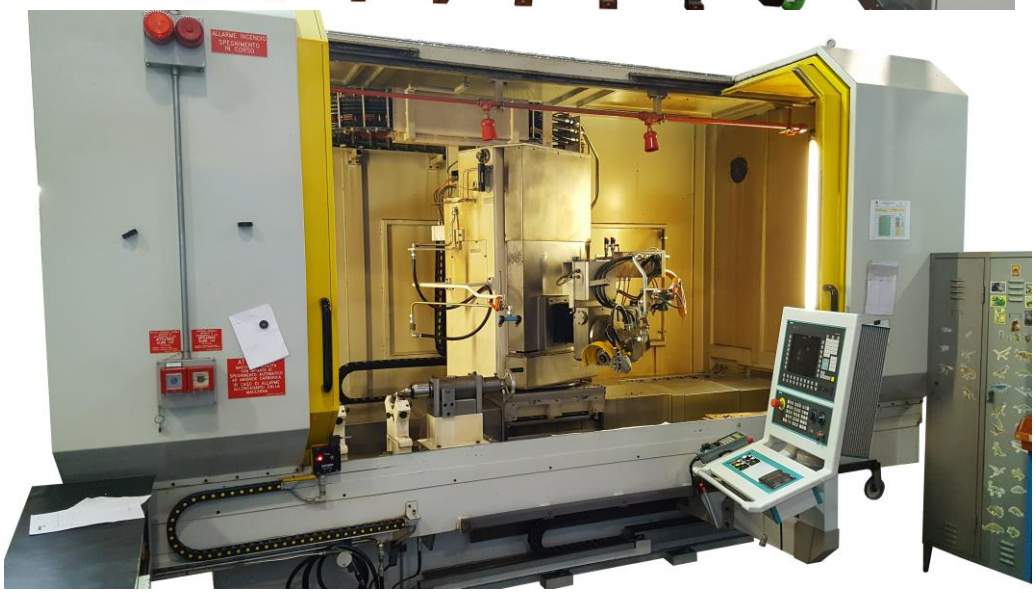


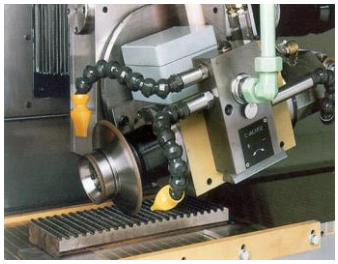


CARBIDE TIPS BROACHES

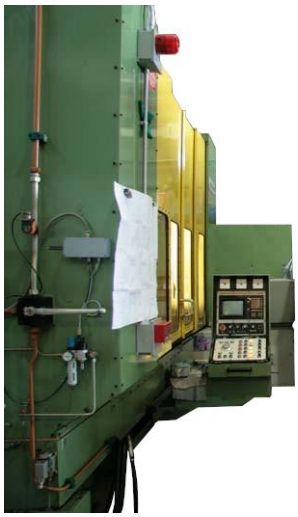
AFFILATURA BROCCE

SHARPENING OF BROACHES - SCHÄRFEN VON RÄUMWERKZEUGEN - AFFÛTAGE DES BROCHES - AFILADO DE BROCHAS





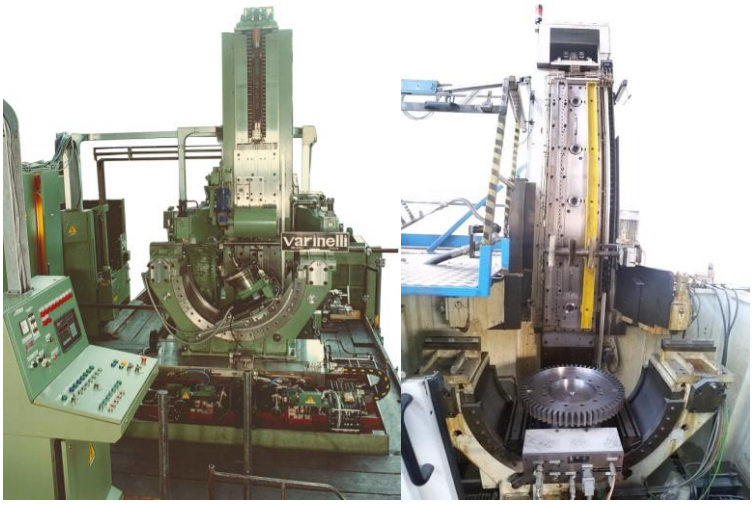
	Rapido servizio di affilatura grazie all'utilizzo di moderne affilatrici CNC Arthur Klink
	Fast re-sharpening service by means of modern CNC grinders Arthur Klink
	Schneller Räumwerkzeugsschärfendienst durch moderne Arthur Klink-CNC-Schärfmaschinen
	Service rapide d'affûtage effectué avec des modernes affûteuses CNC Arthur Klink
	Servicio rápido de afilado efectuado con modernas afiladoras CNC Arthur Klink



BROCCIATURA CONTO TERZI

CONTRACT BROACHING – LOHNRÄUMEN – BROCHAGE À FAÇON - BROCHADO PARA TERCEROS

No. 2 CNC Helical broaching machines



No. 2 CNC Turbine discs broaching machines

No. 2 - 120 Ton broaching machines for epicycloid crowns

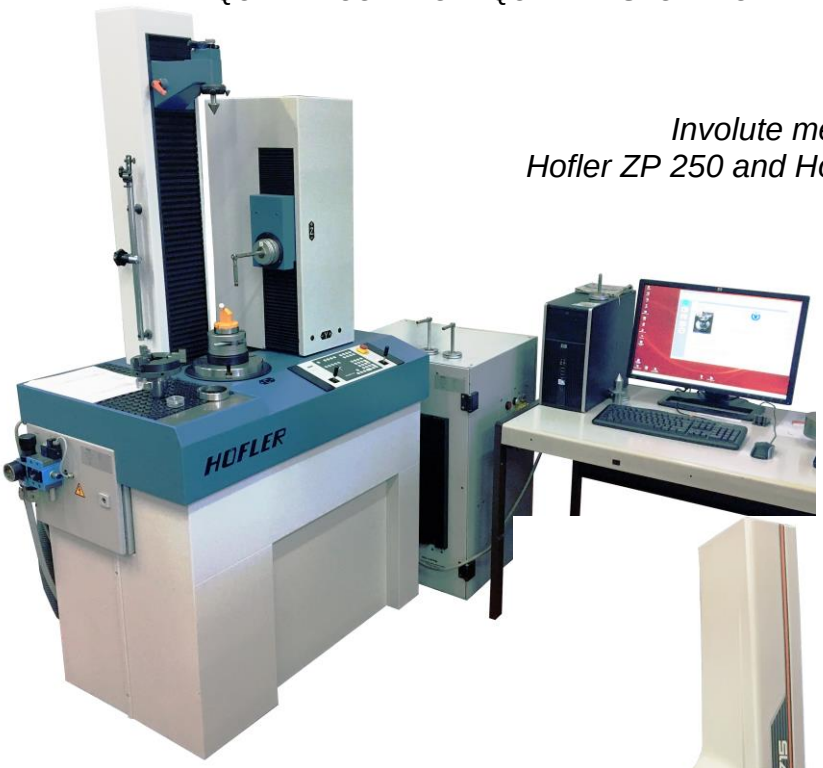
No. 1 - 16 Ton broaching machine for standard profiles

No.1 High speed (60m/min) hard broaching machine

	Servizio di brocciatura conto terzi
	Service contract broaching
	Lohnräumensdienst
	Service de brochage à façon
	Servicio de brochado para terceros

CONTROLLO QUALITA'

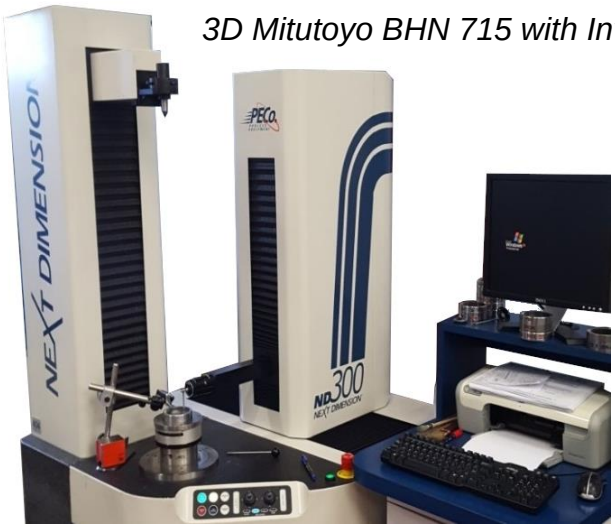
QUALITY CONTROL - QUALITÄTSKONTROLLE – CONTRÔLE QUALITÉ – CONTROL DE CALIDAD



Involute meters:
Hofler ZP 250 and Hofler EMZ 630G

3D Mitutoyo BHN 715 with Involute software

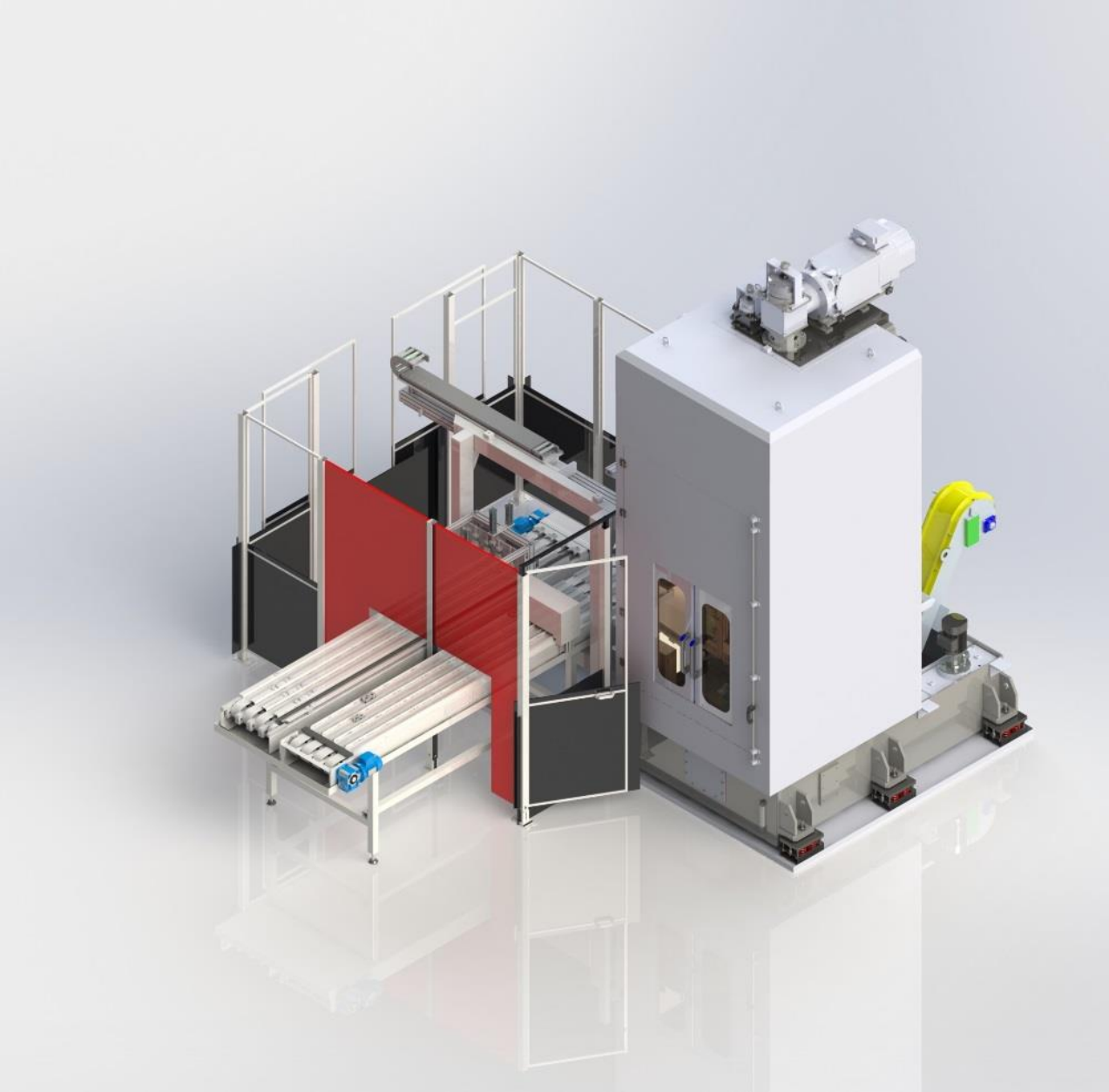
Mitutoyo Linear Height LH-600E



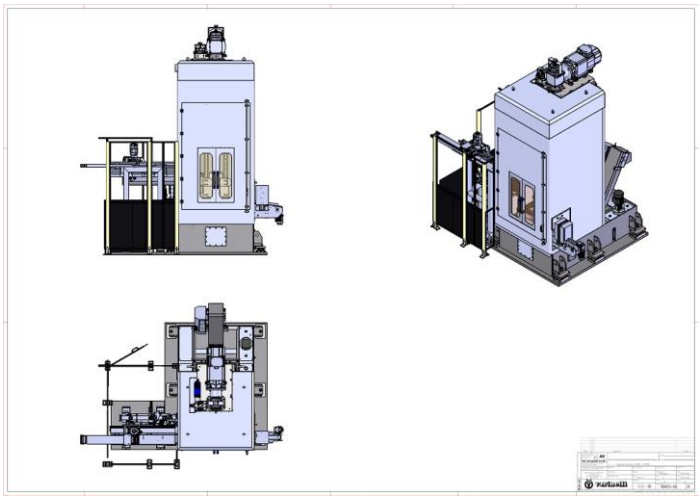
Peco Next 300

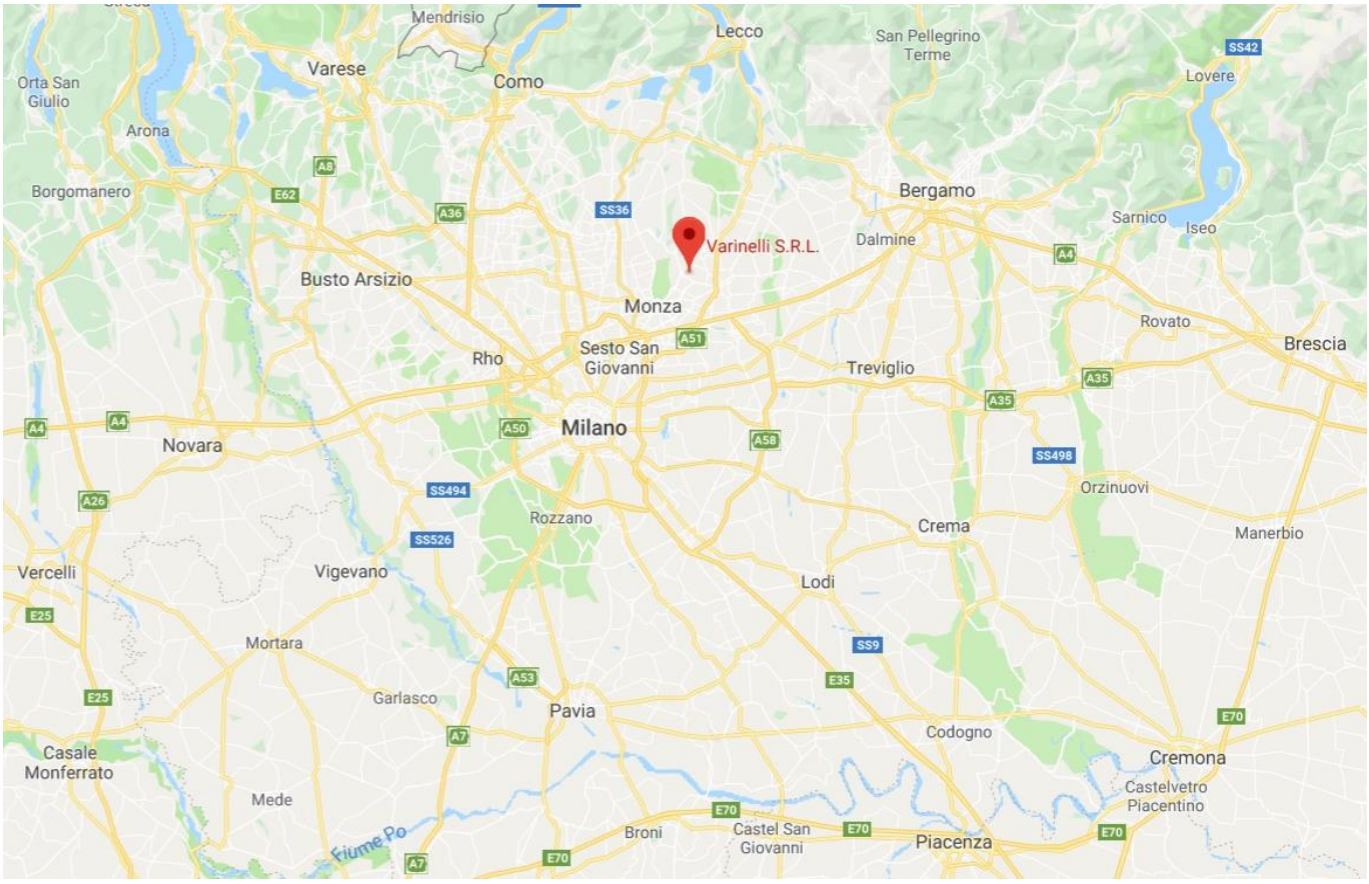
PROGETTAZIONE

DESIGN - DESIGN - CONCEPTION - DISEÑO



	Progettazione e analisi FEM di macchine brocciatrici in 3D con SolidWorks.
	Design and FEM analysis of 3D broaching machines with SolidWorks.
	Konstruktion und FEM-Analyse von 3D-Räummaschinen mit SolidWorks
	Conception et analyse FEM de machines à brocher 3D avec SolidWorks
	Diseño y análisis FEM de máquinas brochadoras 3D con SolidWorks.





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GRUPPO

GROUP OF COMPANIES - UNTERNEHMENSGRUPPE - GROUPE DE SOCIETES - GRUPO DE EMPRESAS

varinelli BROCCIATRICI MACCHINE UTENSILI BROCCE SPECIALI

ARTHUR KLINK Räumwerkzeuge · Räummaschinen

EGW Ehinger Giesserei und Werkzeugmaschinenfabrik GmbH

SMF Schleifmaschinenwerke Eichenzell GmbH

LAPOINTE

HOFFMANN Räumtechnik GmbH

OSWALD RÄUMTECHNIK

SWZ Räumtechnik Spezialwerkzeuge Zella-Mehlis