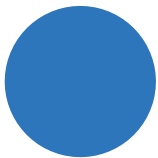
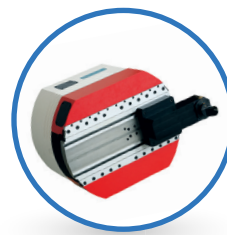


**the**  
SYNTHESIS





# ●●● TABLE OF CONTENTS



## ●●● OUR SERIES:

### BAH SERIES

Extensions and Angle Heads  
Prolunghe e Teste ad angolo  
Rallonge et Renvoi d'angle  
Spindelverlängerungen und Winkelköpfe

### TA.CP SERIES

Light Duty Angle Heads  
Teste ad Angolo Light Duty  
Têtes à renvoi d'angle Light Duty  
Leichtbau Winkelköpfe

### TA SERIES

Angle heads  
Teste ad angolo  
Têtes à renvoi d'angle  
Winkelköpfe

### FH SERIES

Facing Heads  
Teste a sfacciare  
Têtes d'alésage  
Plan- und Ausdrehköpfe

### MOX SERIES

High precision spindle speeders  
Moltiplicatori di giri di elevata precisione  
Multiplificateurs de vitesse à haute pression  
Schnellaufspindeln



## OUR SERIES:

### HT SERIES

Revolving heads  
Torrette a revolver  
Tête révolver  
Revolverköpfe

### VH SERIES

Variable axis heads  
Teste ad assi variabili  
Têtes multibroches à entr'axes variables  
Mehrspindelköpfe mit verstellbaren Spindelabständen

### TSI-TSX SERIES

Twin milling heads  
Teste di fresatura  
Têtes de fraisage à entr'axes variables  
Fräsköpfe mit verstellbaren Spindelabständen

### T/TS-TL-TR-TM/TRM SERIES

Universal joint multi-spindle heads  
Teste a giunti universali  
Têtes multibroches à joints universales. Têtes à Cardans  
Gelenkbohrköpfe  
Mehrspindelköpfe mit Universalkupplung

### MT-TC-TC3 SERIES

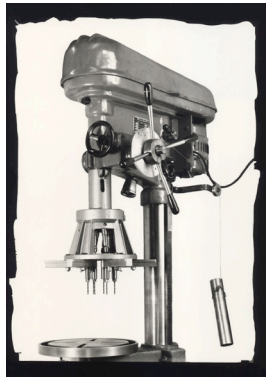
Flexible multi-spindle heads with fixed center distance  
Teste multiple flessibili ad interassi fissi  
Têtes multibroches flexibles à entr'axes fixes  
Mehrspindelköpfe mit festen Spindelabständen





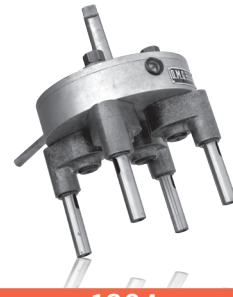
1961

Bruno Catellani,  
one of the founders



1963

First adjustable joint  
multispindle heads



1964

TE series, variable axis  
multi spindle heads.  
The line that brought O.M.G. into  
the limelight. Later  
in the years, the line will evolve in  
to the VH series



1964

The first headquarters  
in Via dell'Industria



1997

HT series,  
for simultaneous operations



1994

Third and current  
headquarters



1989

MO series, for the greatest  
reliability and precision  
in milling and drilling



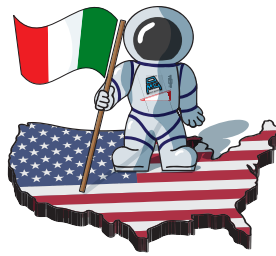
1985

TA series,  
for increased  
productivity



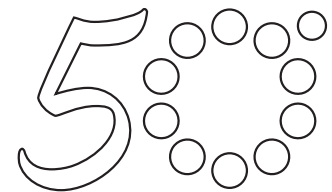
2008

BAH series,  
for big projects



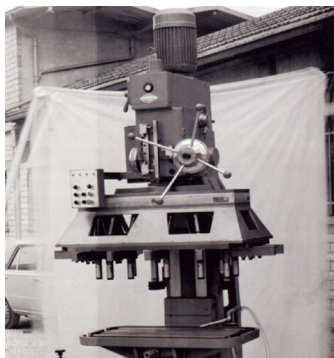
2008

Thanks to a joint venture with  
Tapmatic, O.M.G. North America  
was born



2011

The current location is expanded  
and the first 50 years of business  
are celebrated



1970

One of the first advertisements in trade magazines

1973

Multispindle on a drilling machine

1975

Defining the logo as we know it today, starting from the color and the concept



1983

TC series, for specific solutions with modularity and flexibility



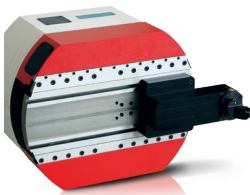
1980

Increasing advertising in trade magazines



1976

Second headquarters for the growing staff



2017

FH series, to be applied on CNC machine tools

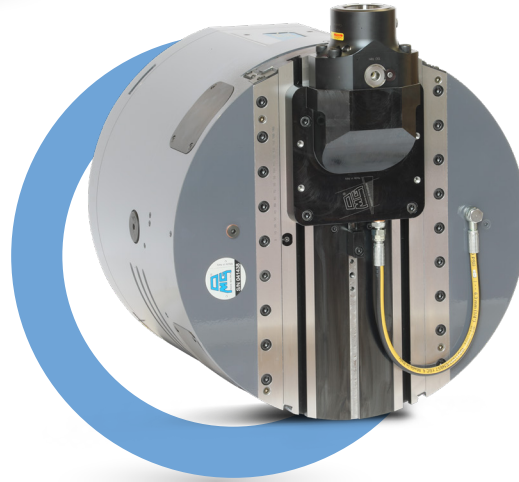
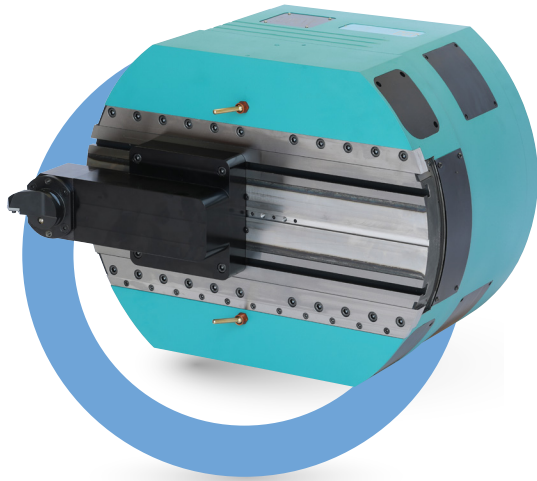


TODAY

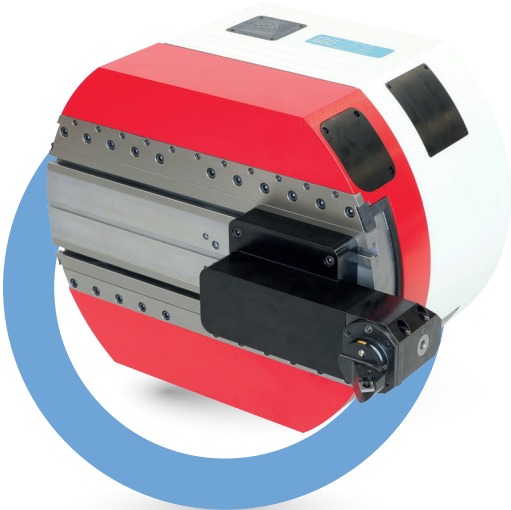
O.M.G. staff



TO BE CONTINUED...







●●● FH  
SERIES



# FH

## FACING HEADS

-  Available in 4 sizes/Maximum working diameter 1.000 mm
-  Disponibili in 4 modelli/Massimo diametro lavorabile mm 1.000
-  Disponibles en 4 modèles/Diamètre maximal de travail mm 1.000
-  4 Ausführungen/Maximaler Arbeitsdurchmesser mm 1.000



SPECIAL EXECUTIONS



# BAH



Spindle Extensions, Angle heads, Angle heads with automatic axis movement



Prolunghe mandrino, Teste ad angolo, Teste ad angolo con movimento assi automatico



Rallonge de Broche, Têtes à renvoi d'angle, Têtes a renvoi d'angle avec mouvement automatique des axes



Spindelverlängerungen, Winkelköpfe, Winkelköpfe mit automatischen Achsbewegungen



BAH  
SERIES








# TA...CP SERIES



## TA...CP

 **RIGHT ANGLE HEADS**  
Available in 7 sizes/ Max.  
drilling capacity 16 mm/  
90° between axis head and  
spindle

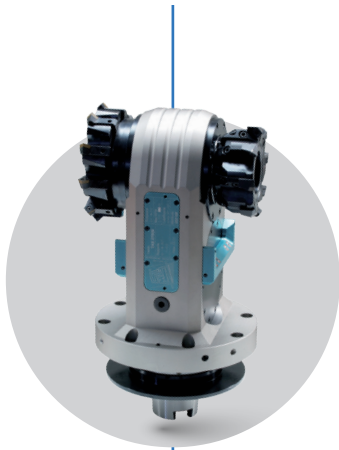
 **TESTE AD ANGOLO**  
Disponibili in 7 modelli/  
Capacità di foratura max. mm 16/  
Angolo di 90° tra asse testa e  
mandrino

 **TÊTES À RENVOI D'ANGLE**  
Disponibles en 7 modèles/  
Max. capacité de perçage 16 mm/  
Angle de 90° entre les axes  
tête-broche

 **WINKELKÖPFE**  
7 Modelle/ Max. Bohrleistung  
16mm/ 90° oder mit  
verstellbaren Winkel +/- 90°  
(TAV07.CP)



● ● ● MORE THAN 110 MODELS



SPECIAL EXECUTIONS



TA SERIES ● ● ●

● ● ● OUR ANGLE HEADS ARE MADE WITH:

STANDARD INPUT SYSTEM: CAT-HSK-BT-DIN69871-CAPTO-DRIVE TYPE

STEEL HOUSINGS

RATIO 1-1

MAX RPM 10.000

SHAFT DRIVE AND SPINDLE WITH PRELOADED OBLIQUE BALL BEARINGS, PRECISION ABEC7 OR 9

SPIRAL BEVEL GEARS WITH GROUND TEETH TO REDUCE NOISE AND TRANSMISSION VIBRATION

STANDARD OUTPUT SPINDLES ARE ER COLLET, HSK, OR MILLING ARBOR

PERMANENT GREASE LUBRICATION

BALANCED ER NUTS

ATC TORQUE ARM WITH "ZERO BACKLASH" CONICAL PIN TORQUE ARM ROTATES 360° ABOUT ITS AXIS

EXTERNAL COOLANT SUPPLY THROUGH THE STOP ARM TO AN ADJUSTABLE NOZZLE NEAR THE CUTTING TOOL

INTERNAL COOLANT SUPPLY TO 145 PSI ON TA...D SERIES, THROUGH THE STOP ARM THROUGH OUTPUT SPINDLE CENTER

INTERNAL COOLANT SUPPLY TO 1.000 PSI ON TAO...D SERIES, THROUGH SHANK TO THE OUTPUT SPINDLE CENTER

● ● ● LE NOSTRE TESTE ANGOLO SONO COSTRUITE CON:

CONO STANDARD: CAT-HSK-BT-DIN69871-CAPTO CORPO IN ACCIAIO

RAPPORTO 1-1

MAX RPM 10.000

ALBERO CENTRALE E MANDRINO CON CUSCINETTI OBLIQUI DI PRECISIONE PRECARICATI ABEC7 O 9

INGRANAGGI GLEASON RETTIFICATI PER RIDURRE IL RUMORE E LE VIBRAZIONI

USCITA MANDRINO STANDARD CON PINZA ER, HSK O PORTA FRESE

LUBRIFICAZIONE LONG-LIFE

GHIERE BILANCIATE

ANTIROTANTE AUTOMATICO CON PERNO CONICO "GIOCO ZERO"

L'ANTIROTANTE GIRA DI 360° SU SE STESSO

REFRIGERAZIONE ESTERNA ATTRAVERSO L'ANTIROTANTE CON USCITA DA UN UGELLO ORIENTABILE VICINO ALL'UTENSILE

REFRIGERANTE INTERNO A 10 BAR NELLA SERIE TA...D, ATTRAVERSO L'ANTIROTANTE E USCITA DAL CENTRO MANDRINO

REFRIGERANTE INTERNO A 70 BAR NELLA SERIE TAO...D, ATTRAVERSO IL CENTRO CONO CON USCITA DAL CENTRO MANDRINO

● ● ● NOS RENVOIS D'ANGLE SONT REALISES AVEC:

ATTACHEMENTS STANDARDS : CAT-HSK-BT-DIN69871-CAPTO, ETC.

CORPS EN ACIER

DÉMULTIPLICATION 1-1

VITESSE MAXI 10000 TR/MIN

ROULEMENTS CONIQUES À BILLES PRÉCONTRAINTS SUR ARBRES D'ENTRÉE ET DE SORTIE, PRÉCISION ABEC7 OU 9

ENGRENAGES CONIQUES EN SPIRALE À DENTURE RECTIFIÉE POUR RÉDUIRE LE BRUIT ET LES TRANSMISSIONS DE VIBRATION

BROCHES DE SORTIE STANDARD EN PINCES ER, CÔNES HSK ET PORTE-FRAISE

LUBRIFICATION À LA GRAISSE PERMANENTE

ECROUS ER ÉQUILIBRÉS

DOIGT D'INDEXAGE CONIQUE AVEC ZERO-JEU

ANNEAU D'INDEXAGE RÉGLABLE SUR 360°

ARROSAGE PÉRIPHÉRIQUE PAR LE DOIGT D'INDEXAGE ET BUSE CUIVRE ORIENTABLE PRÈS DE L'OUTIL

ARROSAGE CENTRE-OUTIL 10BARS, VIA LE DOIGT D'INDEXAGE SUR MODÈLES TA...D

ARROSAGE CENTRE-BROCHE, CENTRE-OUTIL 70BARS SUR MODÈLES TAO...D

● ● ● SPEZIFIKATIONEN UNSERER WINKELKÖPFE

ANTRIEBSKEGEL: CAT-HSK-BT-DIN69871-CAPTO STAHL GEHÄUSE

ÜBERSETZUNG 1:1

MAX. DREHZAHL 10.000 U/MIN.

ANTRIEBSSCHAFT UND SPINDEL MIT VORGESpanNTEN SCHRÄGKUGELLAGERN INSTALLIERT. PRÄZISION ABEC 7 / 9

BOGENVERZAHNTES KEGELRADGETRIEBE, GESCHLIFFEN FÜR MEHR LAUFRIHE UND WENIGER VIBRATIONEN

STANDARD SPINDELTYPEN ER, WELDON. SK, HSK, FRÄSDORN

HOCHLEISTUNGS-DAUERFETTSCHMIERUNG

GEWUCHTETE ER SPANNMUTTERN

INDEXIERVORRICHTUNG/ STOPARM IN KONISCHER UND SOMIT SPIELFREIER AUSFÜHRUNG

STOPARM FREI POSITINIERBAR

EXTERNE KÜHLMITTELZUFUHR DURCH DEN STOPARM UND EINE EINSTELLBARE KÜHLMITTELDÜSE ANS SCHNEIDWERKZEUG


INNERE KÜHLMITTELZUFUHR BIS 10 BAR (TA...D SERIE) DURCH DEN STOPARM UND DAS SPINDELZENTRUM


INNERE KÜHLMITTELZUFUHR BIS 70 BAR (SERIE TAO...D) DURCH DEN ANTRIEBSKEGEL UND DAS SPINDELZENTRUM



# TAR



 **THIN FOR NARROW SPACES**  
Available in 25 sizes/ Max. drilling capacity 10 mm/ 90° between axis head and spindle

 **PICCOLE PER PICCOLI SPAZI**  
Disponibili in 25 modelli/ Capacità di foratura max. 10 mm/ Angolo di 90° tra asse testa e mandrino

 **PETITES TÊTES POUR LES ESPACES RESTREINTS**  
Disponibles en 25 modèles/ Max. capacité de perçage 10 mm/ Angle de 90° entre les axes tête-broche

 **WINKELKÖPFE FÜR ENGE PLATZVERHÄLTNISSE**  
25 Modelle/ Max. Bohr-/ Fräseleistung 10 mm/90°-Ausführung




# TA SERIES



# TA

 **RIGHT ANGLE HEADS**  
Available in 25 sizes/ Max. drilling capacity 30 mm/ 90° between axis head and spindle

 **TESTE AD ANGOLO**  
Disponibili in 25 modelli/ Capacità di foratura max. mm30/ Angolo di 90° tra asse testa e mandrino


 **TÊTES À RENVOI D'ANGLE**  
Disponibles en 25 modèles/ Max. capacité de perçage 30mm/ Angle de 90° entre les axes tête-broche


 **WINKELKÖPFE**  
25 Modelle/ Max. Bohr-/ Fräseleistung 30 mm/90°-Ausführung



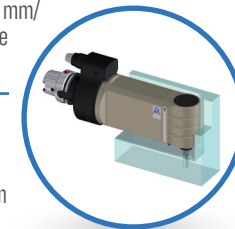
# TA... L

 **LENGTH STRETCHED VERSION**  
Available in 7 sizes/ Max. drilling capacity 20 mm/ 90° between axis head and spindle

 **TESTA SINGOLA CON CORPO ALLUNGATO**  
Disponibili in 7 modelli/ Capacità di foratura max. 20 mm/ Angolo di 90° tra asse testa e mandrino

 **TÊTE AU CORPS ALLONGÉ**  
Disponibles en 7 modèles/ Max. capacité de perçage 20 mm/ Angle de 90° entre les axes tête-broche

 **EINZELNER KOPF MIT LÄNGLICHEM KÖRPER**  
Winkelkopf mit verlängertem Grundkörper  
7 Modelle/ Max. Bohr-/ Fräseleistung 20 mm/90°-Ausführung



# TAL



**UK LIGHT WEIGHT HEADS**  
Available in 6 sizes/ Max. drilling capacity 26 mm/  
90° degree between axis head and spindle

**IT TESTE AD ANGOLO LEGGERE**  
Disponibili in 6 modelli/ Capacità di foratura max. 26 mm/  
Angolo di 90° tra asse testa e mandrino

**FR TÊTES À RENVOI D'ANGLE LÉGÈRES**  
Disponibles en 6 modèles/ Max. capacité de perçage 26 mm/  
Angle de 90° entre les axes tête-broche

**DE LEICHTBAUWEISE**  
Leichtbau Winkelköpfe  
6 Modelle/ Max. Bohr-/ Fräsleistung 26 mm/90°-Ausführung



**UK 180° TWO OPPOSED SPINDLES**  
Available in 6 sizes/ Max. drilling capacity 26 mm/  
Two spindles 180 degrees apart

**IT DUE MANDRINI CONTRAPPOSTI DI 180°**  
Disponibili in 6 modelli/ Capacità di foratura max. 26 mm/  
Angolo di 90° tra asse testa e mandrino

**FR DEUX BROCHES OPPOSÉES À 180°**  
Disponibles en 6 modèles/ Max. capacité de perçage 26 mm/  
Angle de 90° entre les axes tête-broche

**DE DOPPELSEITIGER WINKELKOPF 180° ZUR BOHR-UND FRÄSBEARBEITUNG**  
6 Modelle/ Max. Bohr-/ Fräsleistung 26 mm/ 90°-Ausführung



**UK INPUT COOLANT FROM STOP-BLOCK**  
Available in 19 sizes/ Max. drilling capacity 26 mm/  
90° between axis head and spindle

**IT INPUT REFRIGERANTE CENTRO STOP-BLOCK E MANDRINO**  
Disponibili in 19 modelli/ Capacità di foratura max. 26 mm/  
Angolo di 90° tra asse testa e mandrino

**FR LIQUIDE DE REFROIDISSEMENT D'ENTRÉE DU STOP-BLOCK**  
Disponibles en 19 modèles/ Max. capacité de perçage 26 mm/  
Angle de 90° entre les axes tête-broche

**DE KÜHLMITTELZUFUHR DURCH DEN STOPBLOCK**  
19 Modelle/ Max. Bohr-/ Fräsleistung 26 mm/ 90°-Ausführung



# TA...PD



# TAO



**OFFSET ANGLE HEADS**  
Available in 5 sizes/Drilling capacity max 20 mm/90° between head and spindle/  
Coolant through the center shank-center spindle at 40 bar.



**TESTE AD ANGOLO OFFSET**  
Disponibili in 5 modelli/Capacità di foratura max mm20/Angolo di 90° tra testa e mandrino/  
Refrigerante attraverso centro cono-centro mandrino a 40 bar.



**TÊTES À RENVOI D'ANGLE DÉCALÉ**  
Disponibles en 5 modèles/Max capacité de perçage mm20/Angle de 90° entre les axes tête-broche/  
Arrosage par centre cône-centre broche à 40 bar.



**WINKELKÖPFE**  
Zurückversetzte Winkelköpfe 5 Modelle/ Max. Bohr-/Fräsleistung 26 mm/  
90°-Ausführung/ Optional mit innerer Kühlmittelzufuhr bis 70 bar



# TA SERIES



# TAF



**FIXED ANGLE HEADS**  
Available in 3 sizes/ Max. drilling capacity 20 mm/  
Fixed angle according to customer request



**TESTE AD ANGOLO FISSO**  
Disponibili in 3 modelli/ Capacità di foratura max. mm20/  
Angolo fisso, su richiesta del cliente, tra asse testa e mandrino



**TÊTES À RENVOI D'ANGLE FIXE**  
Disponibles en 3 modèles/ Max. capacité de perçage 20mm/  
Angle fixe selon demande client



**WINKELKÖPFE**  
Winkeköpfe mit Systemwinkel zwischen 0-85°  
3 Modelle/ Max. Bohr-/Fräsleistung 20 mm/  
Optional mit innerer Kühlmittelzufuhr bis 70 bar



# TA...T



**TO BE CONNECTED TO THE MACHINE BY FLANGE**  
Available in 12 sizes/ Max. drilling capacity 50 mm/  
90° between axis head and spindle



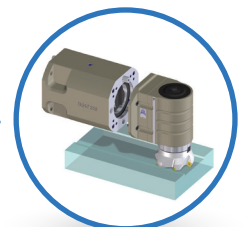
**CONNESSIONE ALLA MACCHINA TRAMITE FLANGIA**  
Disponibili in 12 modelli/ Capacità di foratura max. 50 mm/  
Angolo di 90° tra asse testa e mandrino

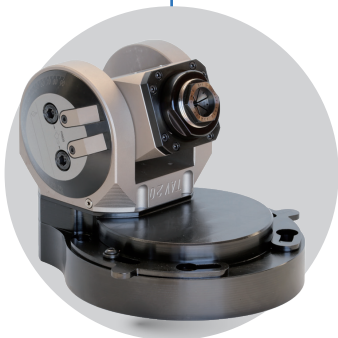
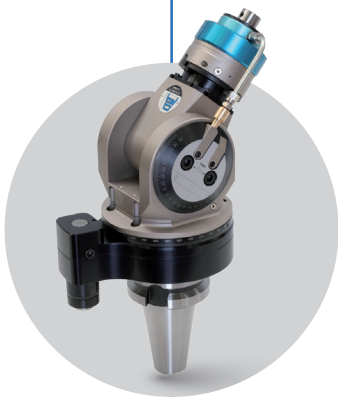


**RACCORDEMENT À LA MACHINE AU MOYEN D'UNE BRIDE**  
Disponibles en 12 modèles/ Max. capacité de perçage 50 mm/  
Angle de 90° entre les axes tête-broche



**AUSFÜHRUNG ZUR FLANSCHBINDUNG AN DIE MASCHINE**  
12 Modelle/ Max. Bohr-/Fräsleistung 50 mm/  
90°-Ausführung







# SPECIAL EXECUTIONS




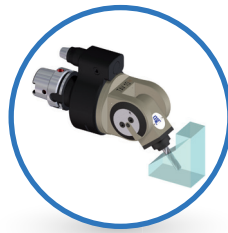
## TAV

 **VARIABLE ANGLE HEADS**  
Available in 6 sizes/ Max. drilling capacity 20mm/  
Adjustable angle from +90° to -90°  
between axis head and spindle


 **TESTE AD ANGOLO**  
Disponibili in 6 modelli/ Capacità di foratura max. mm20/  
Angolo regolabile di ±90° tra asse testa e mandrino

 **TÊTES À RENVOI D'ANGLE**  
Disponibles en 6 modèles/ Max. capacité de perçage 20mm/  
Angle réglable de +90° à -90° entre les axes tête-broche

 **VERSTELLBARE WINKELKÖPFE**  
6 Modelle/ Max. Bohr-/Fräsleistung 50 mm/  
Verstellbarer Winkel zwischen +/- 90°/ Optional mit IK bis 70 bar




## TAV DIGITAL

 **VARIABLE ANGLE HEADS**  
Available in 5 sizes/ Max. drilling capacity 45mm/  
Adjustable angle from +90° to -90° between axis head and spindle/ Equipped with display for a precise spindle inclination

 **TESTE AD ANGOLO**  
Disponibili in 5 modelli/ Capacità di foratura max. mm45/  
Angolo regolabile di ±90° tra asse testa e mandrino/Display per una precisa inclinazione del mandrino

 **TÊTES À RENVOI D'ANGLE**  
Disponibles en 5 modèles/ Max. capacité de perçage 45mm/  
Angle réglable de +90° à -90° entre les axes tête-broche/ Equipée d'un écran digital de lecture précise de l'angle

 **VERSTELLBARE WINKELKÖPFE**  
5 Modelle/ Max. Bohr-/Fräsleistung 50 mm/  
Verstellbarer Winkel zwischen +/- 90°/ inklusive digitaler Winkelanzeige



# MOX SERIES

# MOX

 **HIGH PRECISION SPINDLE SPEEDERS**

Available in 6 sizes/ Max. 36.000 RPM/ Max drilling capacity 34 mm

 **MOLTIPLICATORI DI GIRI DI ELEVATA PRECISIONE**

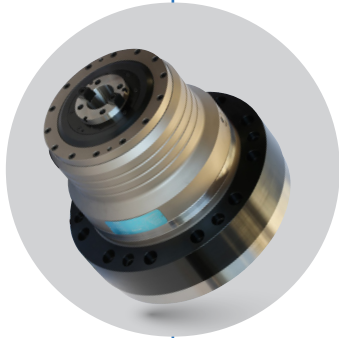
Disponibili in 6 modelli/ Giri massimi 36.000/ Capacità di foratura max. mm34

 **MULTIPLICATEURS DE VITESSE DE HAUTE PRECISION**

Disponibles en 6 modèles/ 36.000 tours max/ Capacité de perçage max mm34

 **SCHNELLLAUFSPINDELN**

6 Modelle/ Max. 36.000 U/ min./ Max. Bohr-/Fräsleistung 34 mm



## **MAIN FEATURES OF SPINDLE SPEEDERS:**

STANDARD INPUT SYSTEM: CAT-HSK-BT-DIN6987I-CAPTO-DRIVE TYPE  
 RATIO INPUT-OUTPUT: 1-8, 1-6, 1-4  
 MAX RPM 36.000  
 SPINDLE WITH PRELOADED OBLIQUE BALL BEARINGS  
 PRECISION ABEC7 OR 9  
 GEARS WITH GROUND TEETH TO REDUCE NOISE AND TRANSMISSION VIBRATION

STANDARD OUTPUT SPINDLE IS ER COLLET  
 PERMANENT GREASE LUBRICATION  
 BALANCED ER NUT  
 ATC TORQUE ARM WITH TAPER PIN TO ELIMINATE PLAY  
 EXTERNAL COOLANT SUPPLY THROUGH THE STOP ARM TO AN ADJUSTABLE NOZZLE NEAR THE TOOL

## **CARATTERISTICHE PRINCIPALI DEL MOLTIPLICATORE DI GIRI:**

CONO STANDARD: CAT-HSK-BT-DIN6987I-CAPTO  
 RAPPORTO ENTRATA-USCITA: 1-8,1-6,1-4  
 MAX RPM 36.000  
 MANDRINO CON CUSCINETTI OBLIQUI DI PRECISIONE PRECARICATI ABEC7 O 9  
 INGRANAGGI CON EVOLVENTE RETTIFICATO PER RIDURRE IL RUMORE E LE VIBRAZIONI

USCITA MANDRINO STANDARD CON PINZA ER  
 LUBRIFICAZIONE LONG-LIFE  
 GHIERE BILANCIATE ER  
 ANTIROTANTE AUTOMATICO CON PERNO CONICO  
 REFRIGERANTE ESTERNO ATTRAVERSO L'ANTIROTANTE CON USCITA DA UN UGELLO ORIENTABILE VICINO ALL'UTENSILE

## **PRINCIPALES CARACTERISTIQUES DES MULTIPLICATEURS DE VITESSE:**

ATTACHEMENTS STANDARDS : CAT-HSK-BT-DIN6987I-CAPTO  
 RAPPORTS DE TRANSMISSION : 1-8, 1-6, 1-4  
 VITESSE MAXIMALE : 36000 TR/MIN  
 ROULEMENTS CONIQUES DE BROCHE  
 PRÉCONTRAINTS DE PRÉCISION ABEC7 OU 9  
 ENGRENAGE RECTIFIÉS POUR UNE RÉDUCTION DU BRUIT ET DES VIBRATIONS

SORTIE STANDARD TYPE ER  
 GRAISSAGE PERMANENT  
 ECROUS ER ÉQUILIBRÉS  
 DOIGT D'INDEXAGE CONIQUE POUR SUPPRESSION DU JEU ET RIGIDITÉ  
 ARROSAGE PÉRIPHÉRIQUE PAR LE DOIGT D'INDEXAGE AVEC BUSE ORIENTABLE VERS L'OUTIL

## **HAUPTEIGENSCHAFTEN UNSERER SCHNELLAUFSPINDELN**

STANDARD ANTRIEB: CAT-HSK-BT-DIN6987I-CAPTO  
 ÜBERSETZUNG I-O: 1-8, 1-6, 1-4  
 DREHZAHN MAX. 36.000 U/MIN.  
 SPINDEL INSTALLIERT MIT VORGESpanNTEN SCHRÄGKUGELLAGERN; PRÄZISION ABEC 7 / 9  
 GETRIEBE MIT GESCHLIFFENER VERZÄHNUNG ZUR REDUZIERUNG VON GERÄUSCHEN UND VIBRATIONEN  
 STANDARD ABTRIEB: ER SPANNZANGENAUFNAHME

HOCHLEISTUNGS-DAUERFETTSCHMIERUNG  
 GEWUCHTETE ER SPANNMUTTER  
 STOPARMSYSTEM MIT KONISCHEM BOLZEN ZUR VERMEIDUNG DES UMKEHRSPIELS  
 EXTERNE KÜHLMITTELZUFUHR DURCH DEN STOPARMBOLZEN UND EIN EXTERNES KÜHLMITTELROHR. OPTIONAL MIT INNENKÜHLUNG BIS 70 BAR



# VH

 **VARIABLE AXIS MULTI SPINDLE HEADS**  
Available in 51 sizes with 1-2-3-4  
spindles/ Max. drilling capacity mm25/  
Min. center distance mm12/ Max.  
drilling area  $\varnothing$  mm300

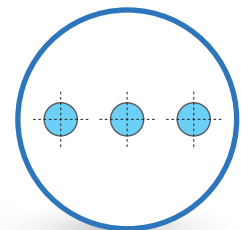
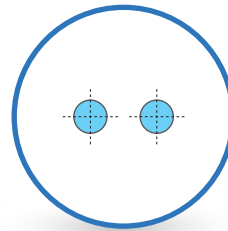
 **TESTE AD ASSI VARIABILI**  
Disponibili in 51 modelli a 1-2-3-4 mandrini/  
Capacità di foratura max. mm25/  
Interasse minimo mm12/ Campo di lavoro  
max.  $\varnothing$  mm300

 **TÊTES MULTIBROCHES À ENTR'AXES  
VARIABLES**  
51 modèles avec 1-2-3-4 broches max./  
Max. capacité de perçage mm25/  
Entr'axe min. mm12/ Surface max. de  
perçage  $\varnothing$  mm300

 **MEHRSPINDELKÖPFE MIT  
VERSTELLBAREN SPINDELABSTÄNDEN**  
51 Modelle mit 1-2-3-4 Spindeln/  
Max. Bohrleistung 25 mm/ Min.  
Spindelabstand 12 mm/ Max.  
Spindelabstand  $\varnothing$ 300 mm



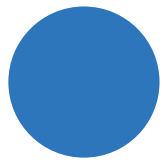
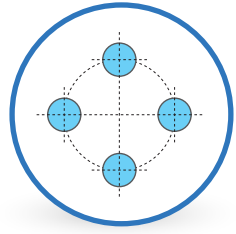
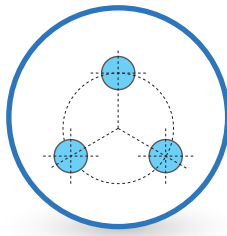
## VH SERIES

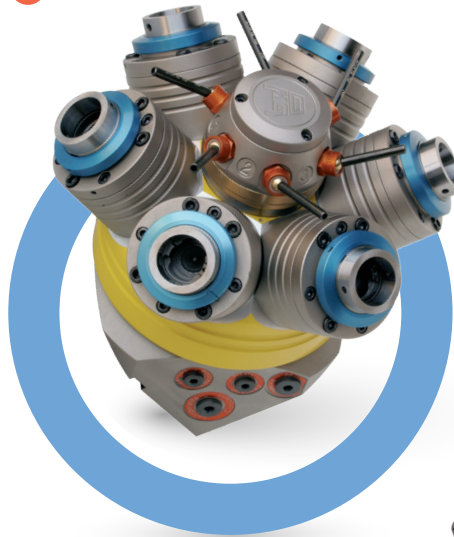






SPECIAL EXECUTIONS





# HT SERIES



# HT

 **TURRET HEADS**  
Available in 4 sizes with max.  
12 spindles/  
Turret heads with crown  
Hirth clamping/ Max. spindle  
speed 12.000 RPM

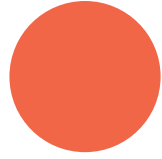
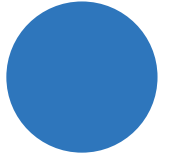
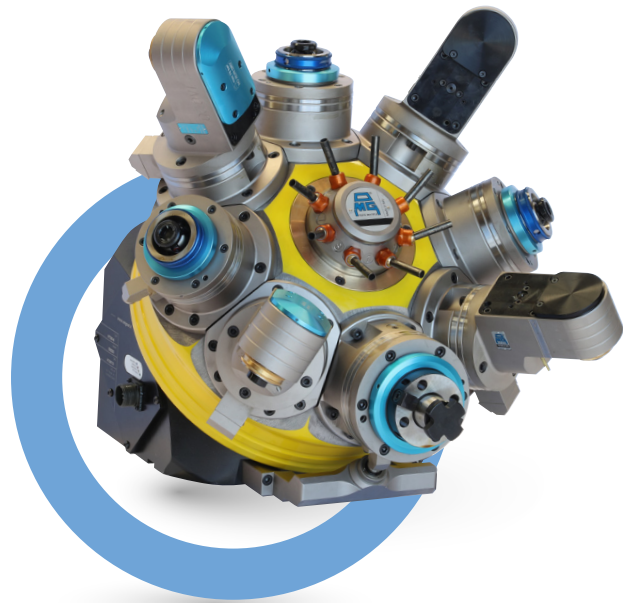
 **TORRETTE A REVOLVER**  
Disponibili in 4 modelli con  
max. 12 mandrini/  
Torrette con corona Hirth/  
Velocità mandrino max.  
12.000 giri

 **TÊTE REVOLVER**  
Disponibles en 4 modèles avec  
max. 12 broches/  
Blocage tête revolver par  
couronne Hirth/ Max. vitesse  
broche 12.000 tours

 **REVOLVERKÖPFE**  
4 Modelle mit max. 12  
Spindeln/ Positionieren  
und Klemmen mittels  
Hirth-Verzahnung/ Max.  
Spindeldrehzahl 12.000 U/min.



••• SPECIAL EXECUTIONS

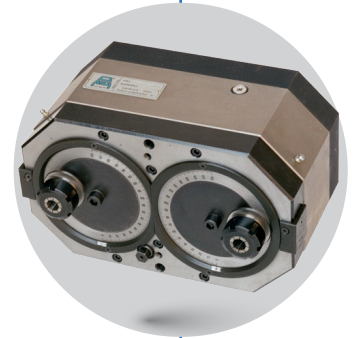




# TSI-TSX SERIES




SPECIAL EXECUTIONS



## TSI-TSX


 **TWIN MILLING HEADS**  
With adjustable axis and two parallel or convergent spindles/  
Available in 12 sizes/  
Min. center distance 18 mm/ Max. center distance 147 mm

 **TESTE AD ASSI VARIABILI**  
Per fresatura a 2 mandrini paralleli o convergenti/ Disponibili in 12 modelli/ Interasse minimo: mm18 o minore/ Interasse massimo mm147

 **ÊTES DE FRAISAGE À ENTR'AXES VARIABLES**  
Avec 2 broches parallèles ou convergentes/ Disponibles en 12 modèles/ Entr'axe min: mm 18/ Entr'axe max mm147


 **FRÄSKÖPFE MIT VERSTELLBAREN ACHSENABSTÄNDE**  
Mit 2 parallelen und konvergenten Spindeln/ 12 Modelle/ Min. Spindelabstand 18 mm/ Max. Spindelabstand 147 mm

# T/TS

 **UNIVERSAL JOINTS MULTI-SPINDLE HEADS WITH CIRCULAR BASE**  
Available in 12 sizes with max. 12 spindles/  
Max drilling capacity 22 mm/ Min. center distance 15 mm/ Max drilling area  $\varnothing$  350 mm


 **TESTE A GIUNTI UNIVERSALI A BASE CIRCOLARE**  
Disponibili in 12 modelli con max. 12 mandrini/  
Capacità di foratura max. mm22/ Interasse minimo mm15/ Campo di lavoro max.  $\varnothing$  mm350

 **TÊTES MULTIBROCHES À JOINTS UNIVERSALES AVEC BASE CIRCULAIRE**  
12 modèles avec 12 broches max./  
Max. capacité de perçage mm22/ Entr'axe min. mm15/ Surface max. de perçage  $\varnothing$  mm350


 **RUNDE MEHRSPINDELKÖPFE MIT UNIVERSALKUPPLUNG**  
12 Modelle mit max. 12 Spindeln/ Max. Bohrleistung 22 mm/ Min. Spindelabstand 15 mm/ Max. Spindelabstand  $\varnothing$ 350 mm




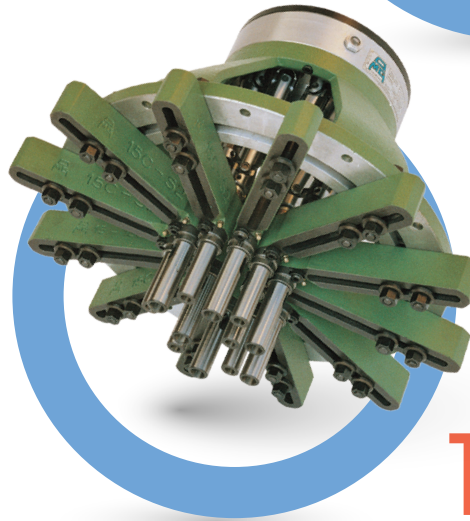
# TM/TRM

 **QUICK CONNECTION UNIVERSAL JOINT MULTI-SPINDLE HEADS WITH CIRCULAR BASE AND RECTANGULAR BASE**  
Available in 6 sizes with max. 26 spindles/ Drilling capacity 25 mm/ Min. center distance 23 mm/ Drilling area:  $\varnothing$  480 mm - 720x330 mm

 **TESTE A GIUNTI UNIVERSALI CON ATTACCO RAPIDO A BASE CIRCOLARE**  
Disponibili in 6 modelli con max. 26 mandrini/ Capacità di foratura mm25/ Interasse minimo mm23/ Campo di lavoro:  $\varnothing$  mm480 - mm720x330

 **TÊTES MULTIBROCHES À JOINTS UNIVERSALES À RACCORDEMENT RAPIDE AVEC BASE CIRCULAIRE**  
6 modèles avec 26 broches max./ Capacité de perçage mm25/ Entr'axe min. mm23/ Surface de perçage:  $\varnothing$  mm480 - mm720x330


 **MEHRSPINDELKÖPFE MIT UNIVERSALKUPPLUNG UND SCHNELLVERBINDUNG**  
6 Modelle mit max. 26 Spindeln/ Bohrleistung max. 25mm/ Min. Spindelabstand 23 mm/ Max. Spindelabstand  $\varnothing$ 465 mm bzw. 300x700 mm




# T/TS-TL TR-TM/TRM SERIES

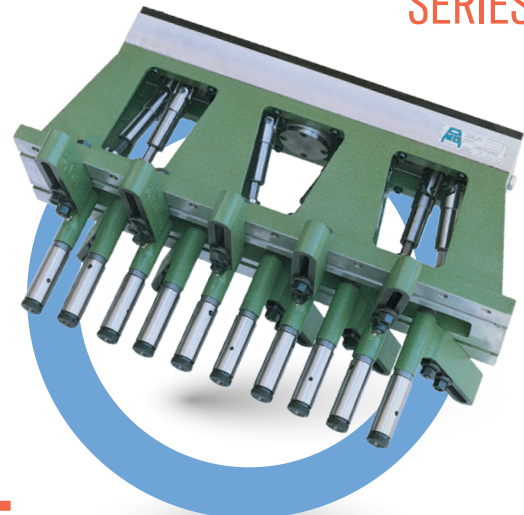
# TR

 **UNIVERSAL JOINT MULTI-SPINDLE HEADS WITH RECTANGULAR BASE**  
Available in 5 models with max. 16 spindles/ Max. drilling capacity 22 mm/ Min. center distance 32 mm/ Max. drilling area 395x345 mm

 **TESTE A GIUNTI UNIVERSALI A BASE RETTANGOLARE**  
Disponibili in 5 modelli con max. 16 mandrini/ Capacità di foratura max. mm22/ Interasse minimo mm32/ Campo di lavoro max. mm395x345

 **TÊTES MULTIBROCHES A JOINTS UNIVERSALES AVEC BASE RECTANGULAIRE**  
5 modèles avec 16 broches max./ Max. capacité de perçage mm22/ Entr'axe min. mm32/ Surface max. de perçage mm395x345


 **RECHTECKIGE MEHRSPINDELKÖPFE MIT UNIVERSALKUPPLUNG**  
5 Modelle mit max. 16 Spindeln/ Bohrleistung max. 22 mm/ Min. Spindelabstand 32 mm/ Max. Spindelabstand 395x345 mm



# TL

 **UNIVERSAL JOINT MULTI-SPINDLE HEADS WITH LINEAR BASE**  
Available in a 9 models with max. 12 spindles/ Max. drilling capacity 22 mm/ Min. center distance 17 mm/ Max. drilling area 605 mm


 **TESTE A GIUNTI UNIVERSALI A BASE LINEARE**  
Disponibili in 9 modelli con max. 12 mandrini/ Capacità di foratura max. mm22/ Interasse minimo mm17/ Campo di lavoro max. mm605

 **TÊTES MULTIBROCHES À JOINTS UNIVERSALES POUR TROUS EN LIGNE**  
9 modèles avec 12 broches max./ Max. capacité de perçage mm22/ Entr'axe min. mm17/ Surface max. de perçage mm605

 **LINEARE MEHRSPINDELKÖPFE MIT UNIVERSALKUPPLUNG**  
9 Modelle mit max. 12 Spindeln/ Bohrleistung max. 22 mm/ Min. Spindelabstand 17 mm/ Max. Spindelabstand 605 mm


# MT




 **FLEXIBLE MULTI-SPINDLE HEADS WITH FIXED CENTERS DISTANCE**  
Series MT/ Max. drilling capacity 10mm/ Min. center distance 9mm/ Especially suitable to drilling holes with narrow center distance

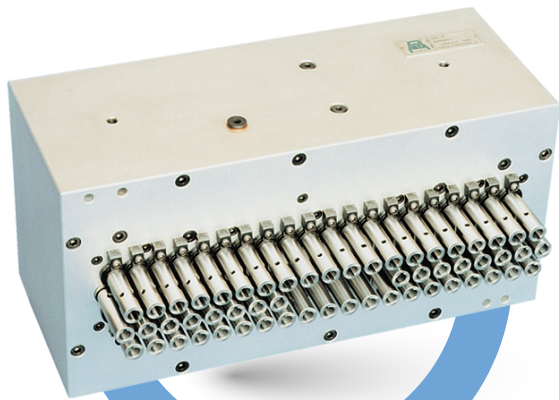
 **TESTE MULTIPLE FLESSIBILI AD INTERASSI FISSI**  
Moduli componibili serie MT/ Capacità di foratura max. mm10/ Interasse minimo mm9/ Particolarmente adatte nell'esecuzione di fori ad interasse molto ristretto




 **TÊTES MULTIBROCHES FLEXIBLES À ENTR'AXES FIXES**  
Série MT/ Max. capacité de perçage 10mm/ Entr'axe min. 9mm/ Très indiquées à percer trous avec entr'axe réduit


 **MEHRSPINDELKÖPFE MIT FESTEN SPINDELABSTÄNDEN**  
Baureihe MT/ Bohrleistung max. 10 mm/ Min. Spindelabstand 9 mm/ Besonders geeignet für Bohrungen mit geringen Abständen


## MT-TC-TC3 SERIES



 **FLEXIBLE MULTI-SPINDLE HEADS WITH FIXED CENTER DISTANCE**  
Max. drilling capacity 22mm/ Min. center distance 16mm/ 40 different types of spindles

 **TESTE MULTIPLE AD INTERASSI FISSI**  
Capacità di foratura: mm22/ Interasse minimo mm16/ Disponibili 40 tipi di mandrini

 **TÊTES MULTIBROCHES FLEXIBLES À ENTR'AXES FIXES**  
Max. capacité de perçage 22mm/ Entr'axe min. 16mm/ 40 types de broche


 **MEHRSPINDELKÖPFE MIT FESTEN SPINDELABSTÄNDEN**  
Max. Bohrleistung 22 mm/ Min. Spindelabstand 16 mm/ 40 Spindelausführungen




# TC




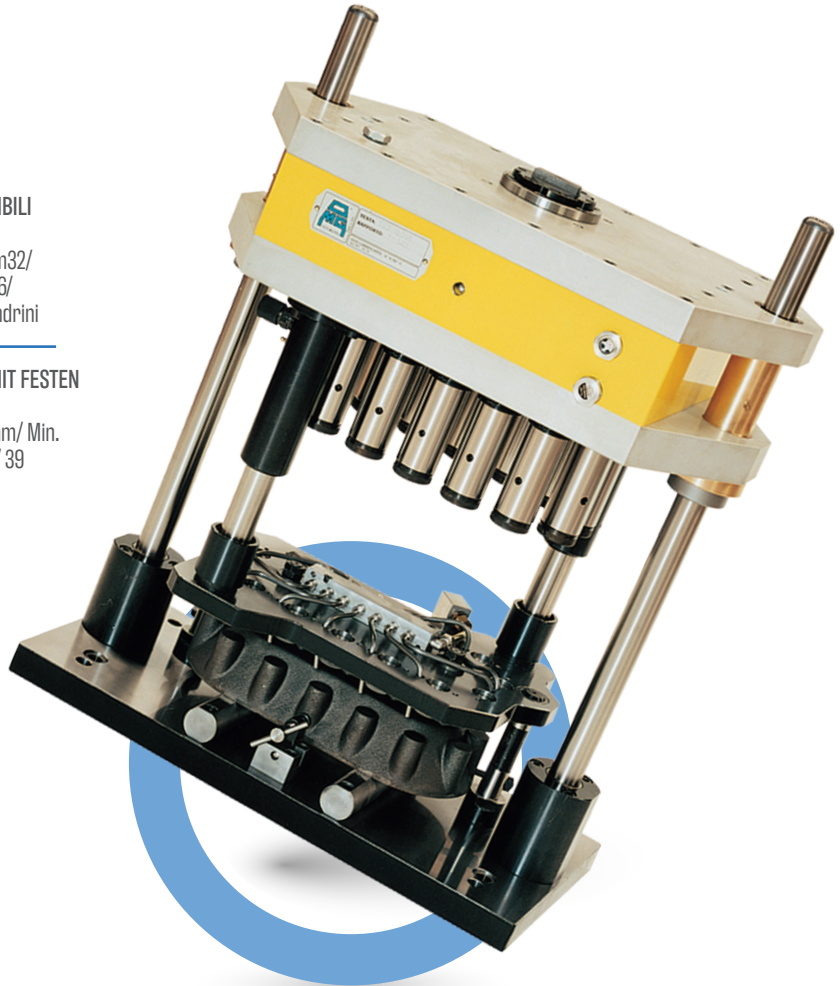
## TC3

 **FLEXIBLE MULTI-SPINDLE HEADS WITH FIXED CENTER DISTANCE**  
 Max. drilling capacity 32mm/  
 Min. center distance 26mm/ 39  
 different types of spindles

 **TESTE MULTIPLE FLESSIBILI AD INTERASSI FISSI**  
 Capacità di foratura mm32/  
 Interasse minimo mm26/  
 Disponibili 39 tipi di mandrini

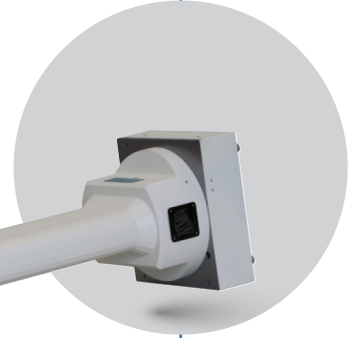
 **TÊTES MULTIBROCHES FLEXIBLES À ENTR'AXES FIXES**  
 Max. capacité de perçage  
 32mm/ Entr'axe min. 26mm/  
 39 types de broche

 **MEHRSPINDELKÖPFE MIT FESTEN SPINDELABSTÄNDEN**  
 Bohrleistung max. 32 mm/ Min.  
 Spindelabstand 26 mm/ 39  
 Spindelausführungen





SPECIAL BAH



## SPECIAL BAH

-  special executions
-  esecuzioni speciali
-  exécutions spéciales
-  Sonderausführungen







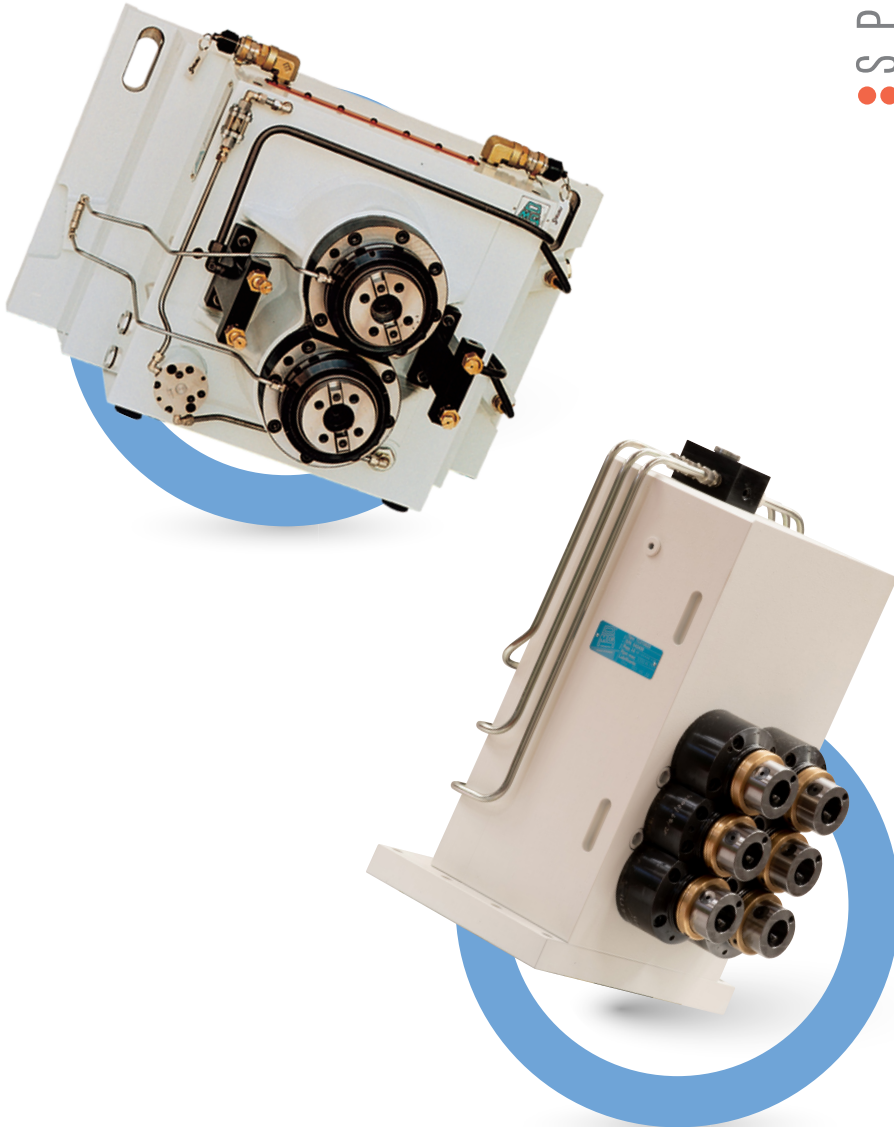
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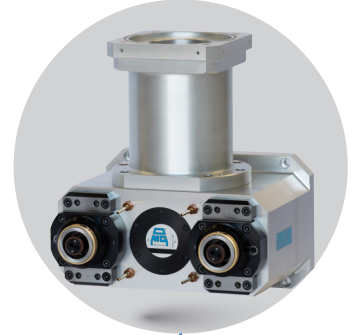
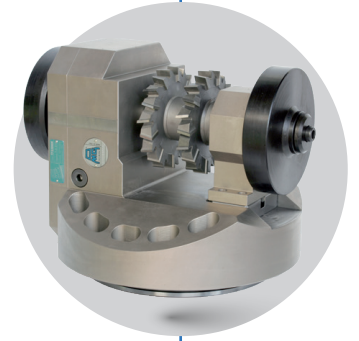
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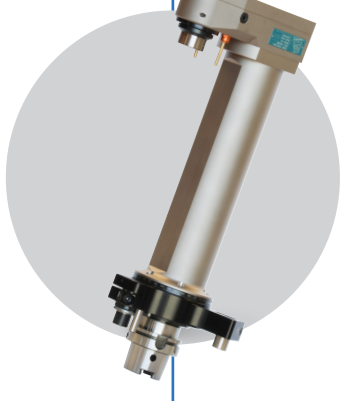
-  special executions
-  esecuzioni speciali
-  exécutions spéciales
-  Sonderausführungen





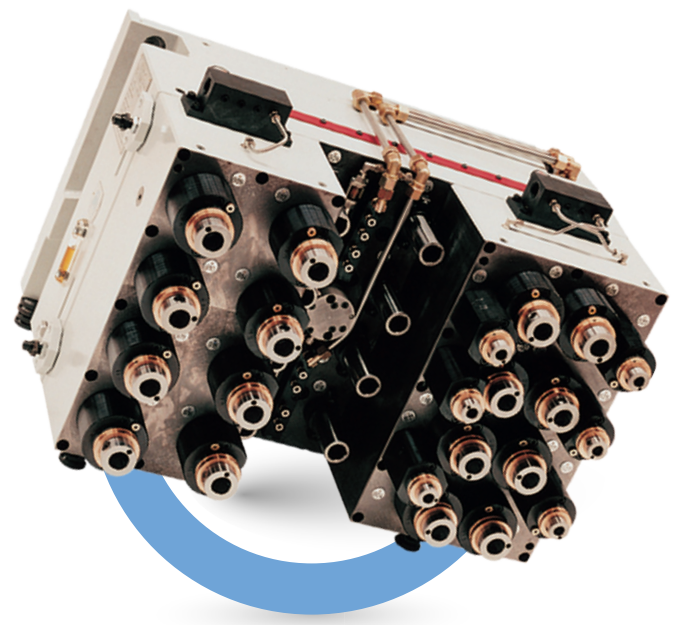
SPECIAL EXECUTIONS





SPECIAL EXECUTIONS

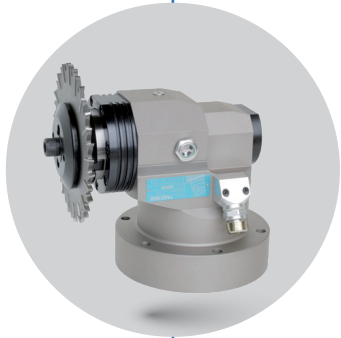
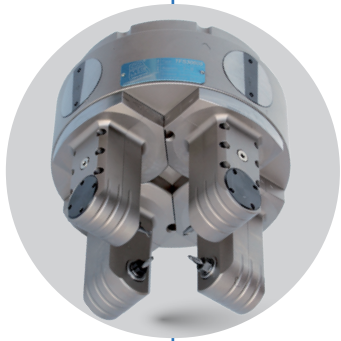
-  special executions
-  esecuzioni speciali
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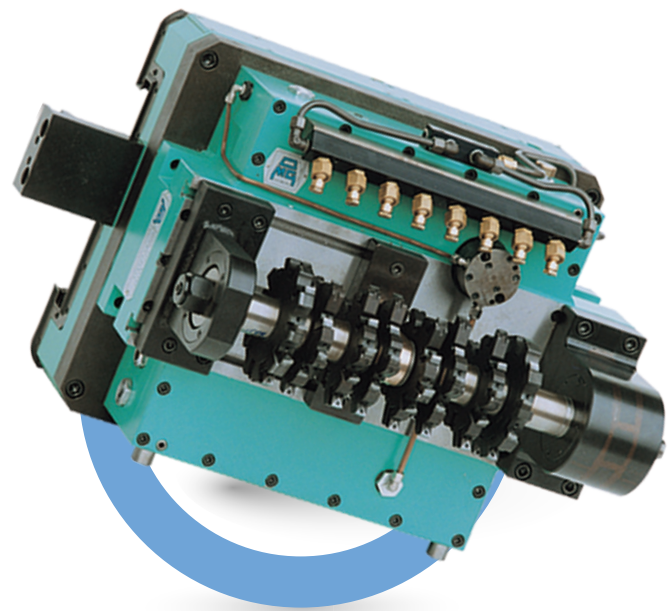
●●● SPECIAL EXECUTIONS





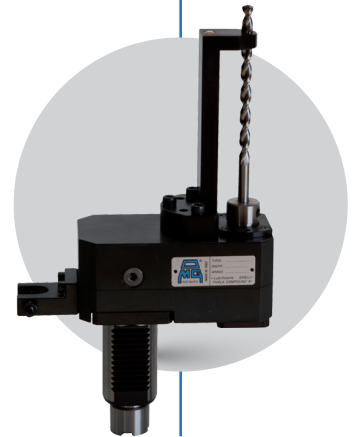
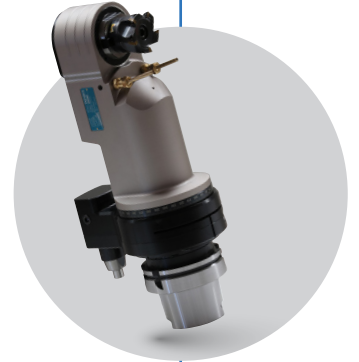
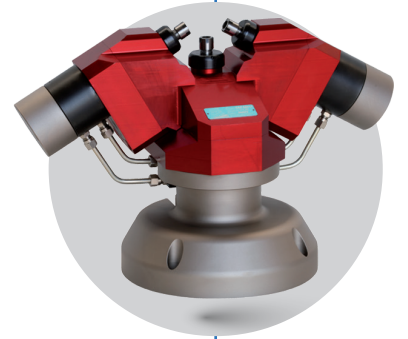
••• SPECIAL EXECUTIONS

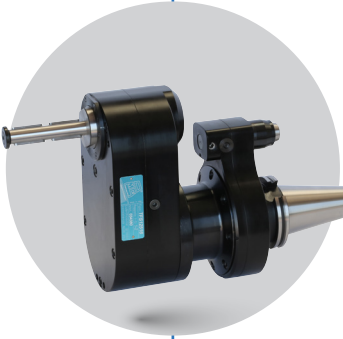
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SPECIAL EXECUTIONS





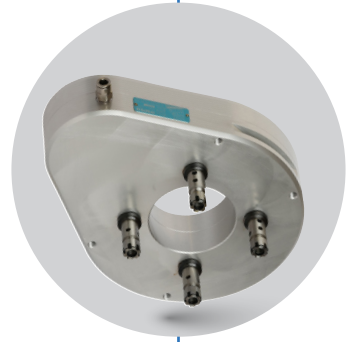
••• SPECIAL EXECUTIONS

-  special executions
-  esecuzioni speciali
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-  Sonderausführungen

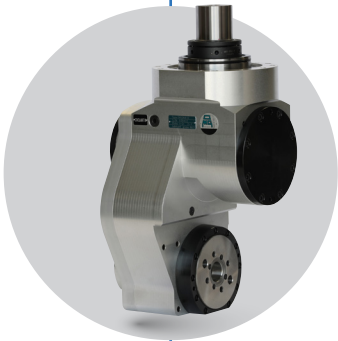
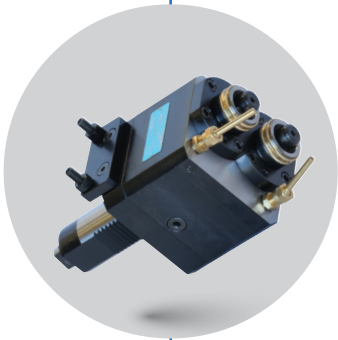




SPECIAL EXECUTIONS







SPECIAL EXECUTIONS

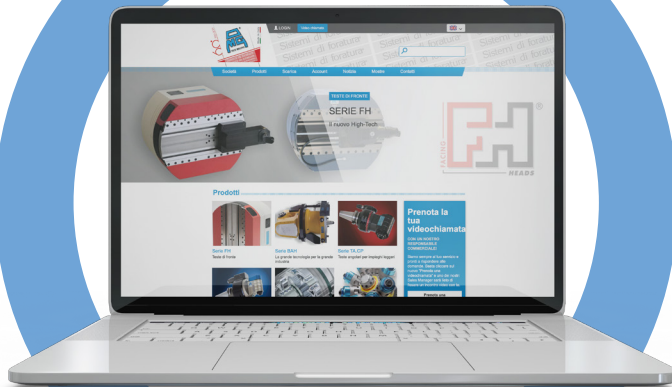
-  special executions
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# FOR MORE TECHNICAL INFORMATION

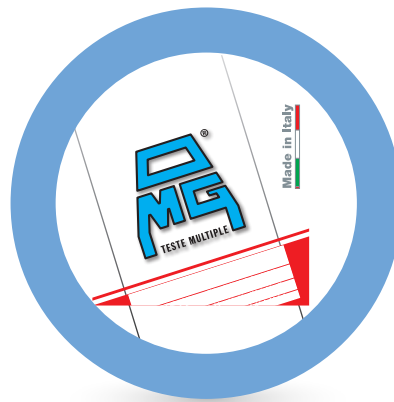


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