



Series VH



Series M0



Series BAH



Series TA



Made in Italy

Sistemi di foratura
al tornitura

SERIE BAH
Prolunghe e Teste ad angolo
Extension and Angle Head
Rallonge et Renvoi d'angle
Spindelverlängerung und Winkelköpfe

SERIE HT
Torrette a revolver
Revolving heads
Tête revolver
Revolverköpfe

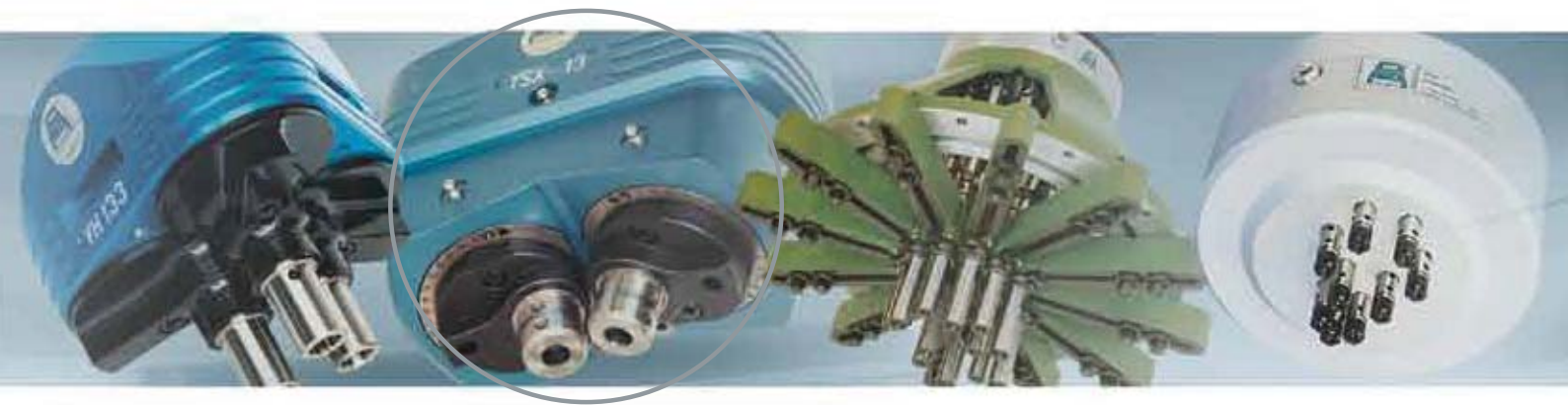


SERIE TA-TAV-TAF-TAO
Teste ad angolo
Angle heads
Têtes à renvoi d'angle
Winkelköpfe

SERIE MO
Moltiplicatori di giri di elevata precisione
High precision spindle speeders
Multipliateurs de vitesse de haute precision
Schnellaufspindeln

SERIE TSI-TSX
Teste di fresatura
Twin milling heads
Têtes de fraisage à entr'axes variables
Fräsköpfe mit verstellbaren Achsenabstände

SERIE MT-TC-TC3
Teste multiple flessibili ad interassi fissi
Flexible multi-spindle heads with fixed centers distance
Têtes multibroches flexibles à entr'axes fixes
Bau-Mehrspindelbohrköpfe mit festen Achsenabstände



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

SERIE T/TS-TL-TR-TM/TRM
Teste a giunti universali
Universal joints multi-spindle heads
Têtes multibroches à joints universales
Gelenkbohrköpfe Mehrspindelköpfe mit Universalkupplung

SERIE [TA-TAV-TAF-TAO]

[TA]

Teste ad angolo

Disponibili in 25 modelli/ Capacità di foratura max. mm26/
Angolo di 90° tra asse testa e mandrino

Right angle heads

Available in 25 size/ Max. drilling capacity 26 mm/
90° between axis head and spindle

Têtes à renvoi d'angle

Disponibles en 25 modèles/ Max. capacité de perçage 26mm/
Angle de 90° entre les axes tête-broche

Winkelköpfe

25 Ausführungen/ Max. Bohrleistung 26mm/
Spindelsturz 90° zwischen Achse des Kopf und Spindel



LE NOSTRE TESTE AD 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 per evitare il gioco

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



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

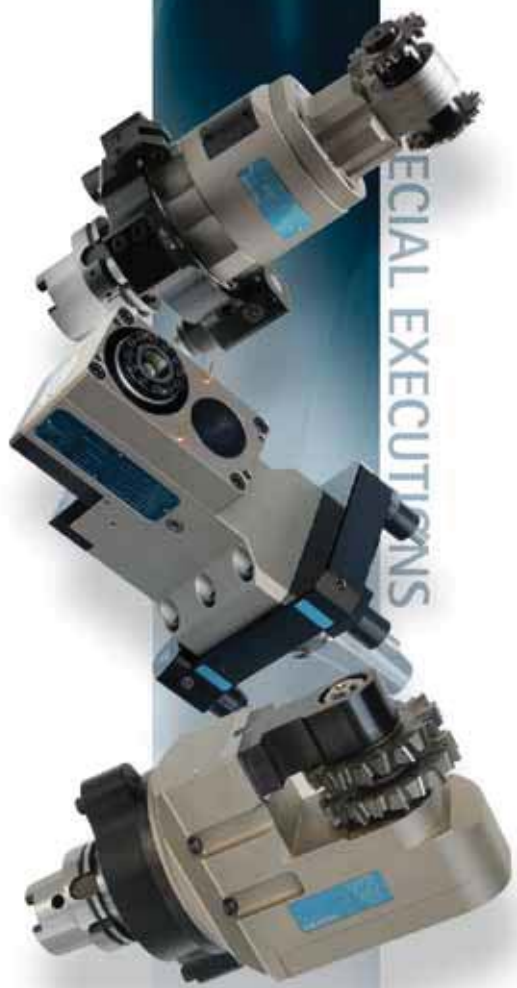
ATC torque arm with taper pin to eliminate play

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 the output spindle center





SERIE [TA-TAV-TAF-TAO]

[TA...2P]

Teste ad angolo

Disponibili in 6 modelli/ Capacità di foratura max. mm26/
Angolo di 90° tra asse testa e mandrino

Two spindle right angle heads

Available in 6 size/ Max. drilling capacity 26 mm/
Two spindles 180 degrees apart (take out 90° degree head between axis head and spindle)

Têtes à renvoi d'angle

Disponibles en 6 modèles/ Max. capacité de perçage 26mm/
Angle de 90° entre les axes tête-broche

Winkelköpfe

6 Ausführungen/ Max. Bohrleistung 26mm/
Spindelsturz 90° zwischen Achse des Kopf und Spindel



[TAV]

Teste ad angolo

Disponibili in 5 modelli/ Capacità di foratura max. mm20/
Angolo regolabile di ±90° tra asse testa e mandrino

Variable angle heads

Available in 5 size/ Max. drilling capacity 20mm/
Adjustable angle from +90° to -90° between axis head and spindle

Têtes à renvoi d'angle

Disponibles en 5 modèles/ Max. capacité de perçage 20mm/
Angle réglable de +90° à -90° entre les axes tête-broche

Winkelköpfe

5 Ausführungen/ Max. Bohrleistung 20mm/ Verstellbare
Spindelsturz von -90° bis +90° zwischen Achse des Kopf und Spindel

LE NOSTRE TESTE AD 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

Antiritorante automatico con perno conico per evitare il gioco

L'antiritorante gira di 360° su se stesso

Refrigerazione esterna attraverso l'antiritorante con uscita da un ugello orientabile vicino all'utensile

Refrigerante interno a 10 bar nella serie TA..D, attraverso l'antiritorante e uscita dal centro mandrino

Refrigerante interno a 70 bar nella serie TAO..D, attraverso il centro cono con uscita dal centro mandrino



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 taper pin to eliminate the play

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

[TAF]

Teste ad angolo fisso

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

Fixed angle heads

Available in 3 size/ Max. drilling capacity 20 mm/
Fix angle according to customer request

Têtes à renvoi d'angle fixe

Disponibles en 3 modèles/ Max. capacité de perçage 20mm/
Angle fix selon demande client

Winkelköpfe

3 Ausführungen/ Max. Bohrleistung 20mm/
Feste Winkel auf Wunsch des Kunde



[TAO]

Teste ad angolo offset

Disponibili in 4 modelli/Capacità di foratura
max mm20/Angolo di 90° tra testa e mandrino/
Refrigerante attraverso centro cono-centro mandrino a 40 bar.

Offset angle heads

Available in 4 size/Drilling capacity max mm20/90° between head and
spindle/ Coolant through the centre shank-centre spindle at 40 bar.

Têtes à renvoi d'angle

Disponibles en 4 modèles/Max capacité de perçage mm20/Angle de 90°
entre les axes tête-broche/ Réfrigérant par centre cône-centre broche
à 40 bar.

Winkelköpfe

4 Ausführungen/Max Bohrleistung mm20/Spindelsturz 90° zwischen
Achse des Kopf und Spindel/Kühlmittel durch Kegelmittelpunkt und
Spindelmittelpunkt zu 40 bar.



SERIE [BAH]

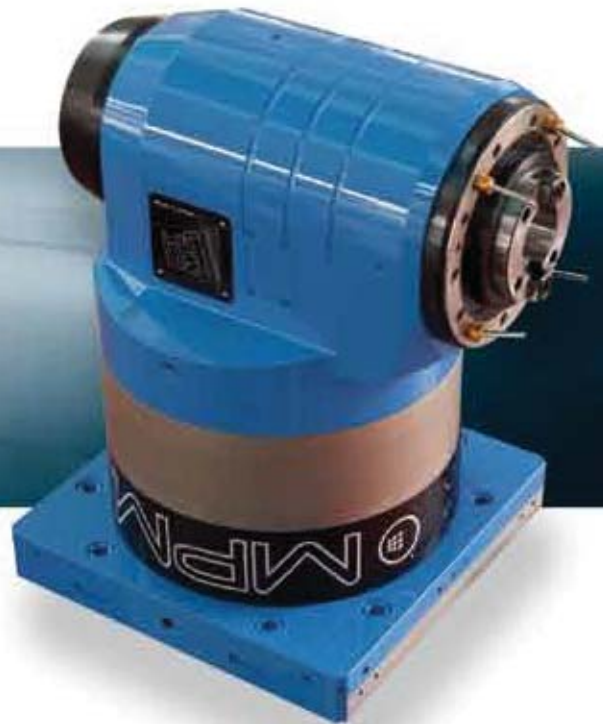
[BAH]

Prolungha mandrino, Extensions Spindle, Rallonge de Broche, Verlängerungsspindel
Teste ad angolo, Angle heads, Têtes à renvoi d'angle, Winkelköpfe
Teste ad angolo con movimento assi automatico, Angle heads with automatic axis movement, Têtes a renvoi d'angle avec mouvement automatique des axes, Winkelköpfe mit automatischer Achsenbewegung





SPECIAL EXECUTIONS



SERIE [MO]

Moltiplicatori di giri di elevata precisione

Disponibili in 5 modelli/ Giri massimi 22.000/

Capacità di foratura max. mm34

High precision spindle speeders

Available in 5 size/ Max. 22.000 RPM/

Max drilling capacity mm34

Multiplicateurs de vitesse de haute precision

Disponibles en 5 modèles/ 22.000 tours max/

Capacité de perçage max mm34

Schnelllaufspindeln

5 Ausführungen/ Max 22.000 Umdrehungen/

Max Bohrleistung mm34



CARATTERISTICHE PRINCIPALI DEL MOLTIPLICATORE DI GIRI:

Cono standard: CAT-HSK-BT-DIN69871-CAPTO

Rapporto entrata-uscita: 1-8, 1-6, 1-4

Max rpm 35.000

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

Antiotante automatico con perno conico

Refrigerante esterno attraverso l'antiotante con
uscita da un ugello orientabile vicino all'utensile



MAIN FEATURES OF SPINDLE SPEEDERS:

standard input system: CAT-HSK-BT-DIN69871-
CAPTO-drive type

ratio input-output: 1-8, 1-6, 1-4

max rpm 35.000

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



SERIE [HT]

Torrette a revolver

Disponibili in 3 modelli con max. 8 mandrini/

Torrette con corona Hirth/ Velocità mandrino max. 12.000 giri

Turret heads

Available in 3 size with max. 8 spindles/

Turret heads with crown Hirth clamping/ Max. spindle speed 12.000 RPM

Tête revolver

Disponibles en 3 modèles avec max. 8 broches/

Blocage tête revolver par couronne Hirth/ Max. vitesse broche 12.000 tours

Revolverköpfe

3 Ausführungen mit Max. 8 Spindeln/ Klemme des Revolverkopf mit Kranz Hirth/

Max. geschwindigkeit der Spindel 12.000 Umdrehungen



SPECIAL EXECUTIONS



SERIE [VH]

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

Variable axis multi spindle heads

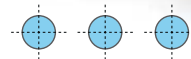
Available in 51 size with 1-2-3-4 spindles/ Max. drilling capacity mm25/
Min. center distance mm12/ Max. drilling area \varnothing mm300

Têtes multibroches à entr'axes variables

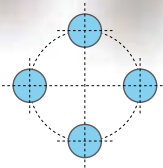
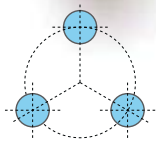
51 modèles avec 1-2-3-4 broches max./ Max. capacité de perçage mm25/
Entr'axe min. mm12/ Surface max. de perçage \varnothing mm300

Mehrspindelbohrköpfe mit verstellbaren Achsenabstände

51 Ausführungen mit 1-2-3-4 Spindeln/ Max. Bohrleistung mm25/
Min. Achsenabstand mm12/ Max. Bohrbereich \varnothing mm300



SPECIAL EXECUTORS



SERIE [TSI-TSX]

Teste ad assi variabili

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

Twin milling heads

With adjustable axis and two parallel or convergent spindles/ Available in 12 size/
Min. center distance mm18/ Max. center distance mm147

Têtes 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 Ausführungen/
Min Achsenabstand mm18/ Max Achsenabstand mm147



SPECIAL EXECUTIONS



SERIE [T/TS-TL-TR-TM/TRM]

[T/TS]

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

Universal joints multi-spindle heads with circular base

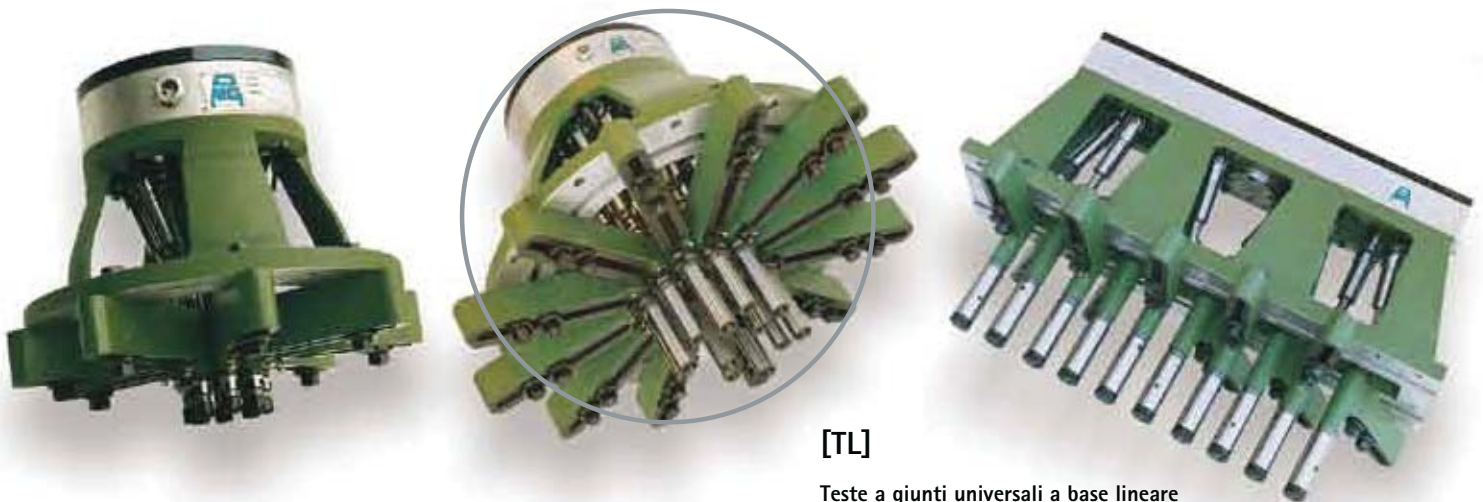
Available in 12 size with max. 12 spindles/
Max drilling capacity mm22/ Min. center distance mm15/
Max drilling area \varnothing mm350

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 Ausführungen mit 12 Spindeln Max./
Max. Bohrleistung mm22/ Min. Achsenabstand mm15/
Max. Bohrbereich \varnothing mm350



[TL]

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

Universal joints multi-spindle heads with linear base

Available in a 9 models with max. 12 spindles/
Max. drilling capacity mm22/
Min. center distance mm17/ Max. drilling area 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 Ausführungen mit 12 Spindeln Max./ Max. Bohrleistung mm22/
Min. Achsenabstand mm17/ Max. Bohrbereich mm 605

[TM/TRM]

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: ø mm480 - mm720x330

Quick connection universal joints multi-spindle heads with circular base and rectangular base

Available in 6 size with max. 26 spindles/ Drilling capacity mm25/
Min. center distance mm23/ Drilling area: ø 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: ø mm480 - mm720x330

Runde Mehrspindelköpfe mit Universalkupplung und Schnellverbindung

6 Ausführungen mit 26 Spindeln Max./ Bohrleistung mm25/
Min. Achsenabstand mm23/ Bohrbereich: ø mm480 - mm720x330



[TR]

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

Universal joints multi-spindle heads with rectangular base

Available in 5 models with max. 16 spindles/
Max. drilling capacity mm22/ Min. center distance mm32/
Max. drilling area 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 Ausführungen mit 16 Spindeln max./
Max. Bohrleistung mm22/ Min. Achsenabstand mm32/
Max. Bohrbereich mm395x345

SERIE [MT-TC-TC3]

[MT]

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

Flexible multi-spindle heads with fixed centers distance

Serie MT/ Max. drilling capacity 10mm/

Min. center distance 9mm/

Especially suitable to drilling holes with narrow center distance

Têtes multibroches flexibles à entr'axes fixes

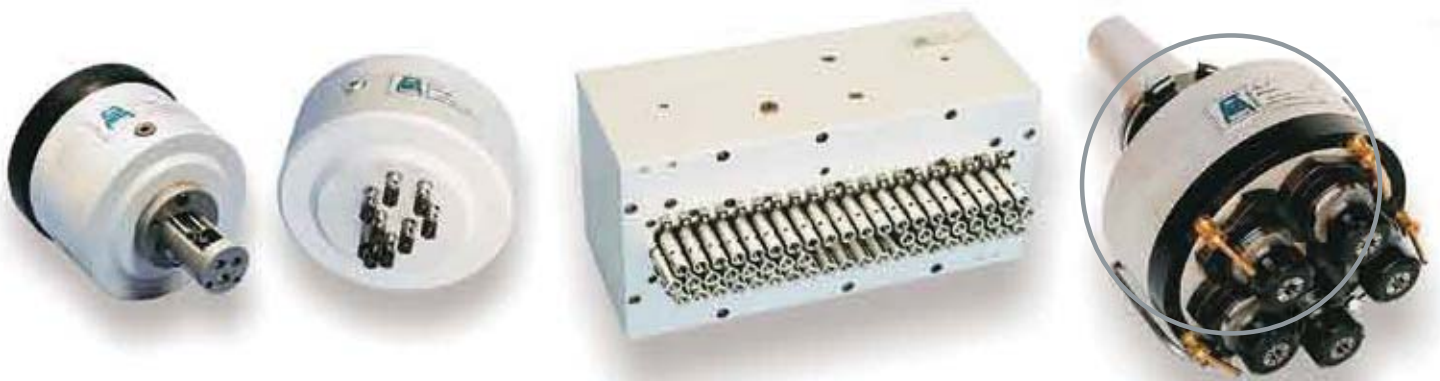
Série MT/ Max. capacité de perçage 10mm/

Entr'axe min. 9mm/ Très indiquées à percer trous avec entr'axe réduit

Bau-Mehrspindelbohrköpfe mit festen Achsenabstände

Bauteile serie MT/ Max. Bohrleistung 10mm/ Min Achsenabstand 9mm/

Geeignet für Bohrung mit kleinem Achsenabstand



[TC]

Teste multiple ad interassi fissi

Capacità di foratura: mm22/ Interasse minimo mm16/

Disponibili 40 tipi di mandrini

Flexible multi-spindle heads with fixed centers distance

Max. drilling capacity 22mm/ Min. center distance 16mm/

40 different types of spindle

Têtes multibroches flexibles à entr'axes fixes

Max. capacité de perçage 22mm/ Entr'axe min. 16mm/

40 types de broche

Mehrspindelköpfe mit festen Achsenabstände

Max. Bohrleistung 22mm/ Min. Achsenabstand 16mm/

40 Spindelansführungen

[TC3]

Teste multiple flessibili ad interassi fissi

Capacità di foratura mm32/ Interasse minimo mm26/ Disponibili 39 tipi di mandrini

Flexible multi-spindle heads with fixed centers distance

Max. drilling capacity 32mm/ Min. center distance 26mm/ 39 different types of spindle

Têtes multibroches flexibles à entr'axes fixes

Max. capacité de perçage 32mm/ Entr'axe min. 26mm/ 39 types de broche

Bau-Mehrspindelbohrköpfe mit festen Achsenabstände

Max. bohrleistung 32mm/ Min. achsenabstand 26mm/ 39 Spindelansführungen



SPECIAL [BAH]

esecuzioni speciali
special executions
exécutionspéciaux
Sonderausführungen



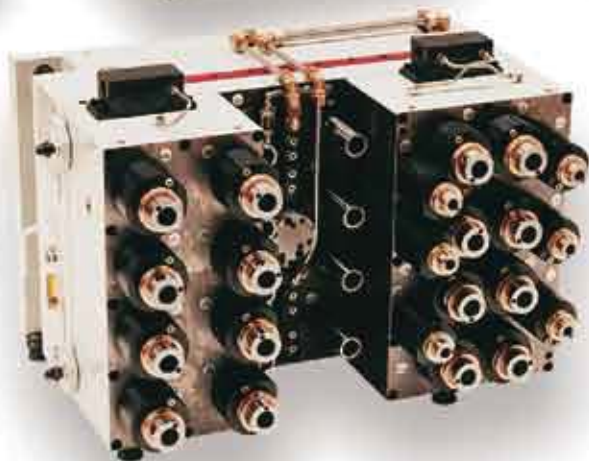
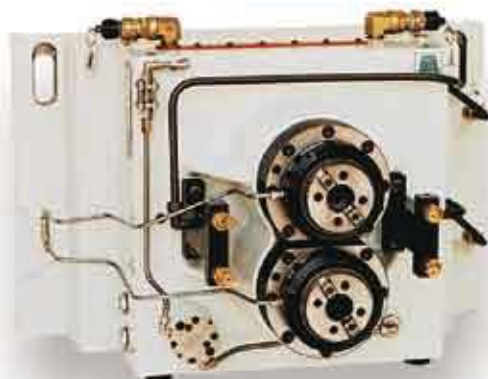
SPECIAL [TA]

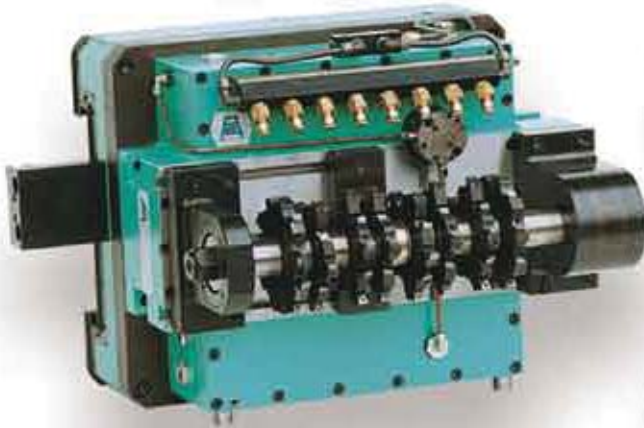
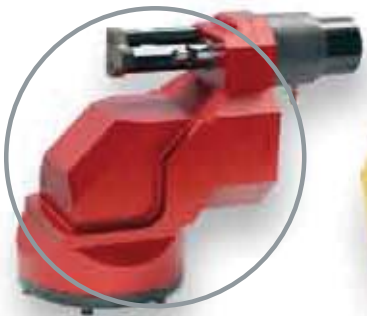
esecuzioni speciali
special executions
exécutions spéciaux
Sonderausführungen



[ESECUZIONI SPECIALI]

special executions
exécutions spéciaux
Sonderausführungen





[ESECUZIONI SPECIALI]

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Sonderausführungen







Series MT-TC-TC3



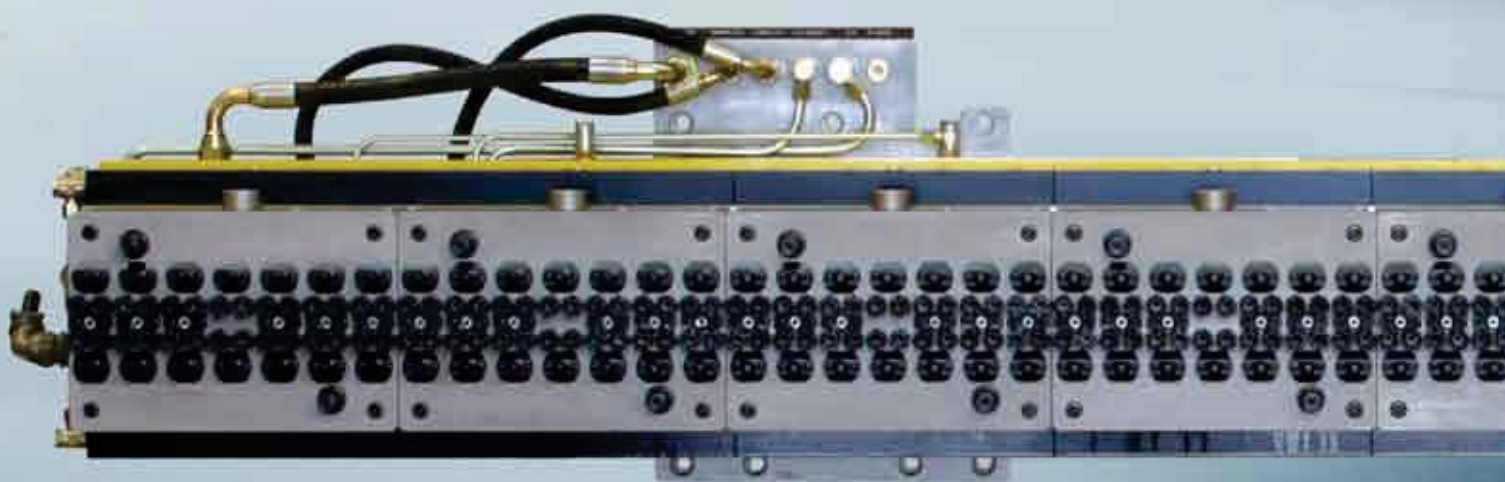
Series T



Series TSI/TSX



Series HT



Made in Italy

Headquarter

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