KINTEK®

# DOUBLE CONTACT TOOLHOLDERS DK

## MANDRINI DOPPIO CONTATTO DK




03

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# DOUBLE CONTACT TOOLHOLDERS DK

MANDRINI DOPPIO CONTATTO DK

DOPPELKONTAKT AUFNAHMEN DK

PORTE-OUTILS DOUBLE CONTACT DK

ОПРАВКИ DK

DK 双接触面刀柄

## THE NUMEROUS ADVANTAGES OF DOUBLE CONTACT TOOLHOLDER DK:

- Enhanced rigidity thanks to simultaneous fit of taper and flange
- Improvement of the life of the cutting tool
- Improved stability leads to minimized vibration
- Greater bending stiffness allows for higher cutting data, hence higher productivity.

## I NUMEROSI VANTAGGI DEL MANDRINO DOPPIO CONTATTO DK

- Maggiore rigidità grazie all'azione simultanea del contatto conico e di quello a flangia
- Miglioramento della vita dell'utensile di taglio
- Maggiore stabilità grazie alla riduzione delle vibrazioni
- Maggiore resistenza alla flessione per aumentare i dati di taglio e, quindi, la produttività.

## DIE ZAHLREICHEN VORTEILE DES DK:

- Verbesserte Steifigkeit durch die Simultanwirkung des Kontakts des Kegels und des Flansches
- Verbesserung der Lebensdauer des Schneidwerkzeugs
- Verbesserte Stabilität durch eine beachtliche Schwingungssenkung
- Größere Biegesteifigkeit, welche die Produktivität erhöht.



## LES NOMBREUX AVANTAGES DE DK:

- Amélioration de la rigidité grâce au contact au niveau du cône et au niveau de la collerette
- Amélioration de la durée de vie de l'outil de coupe
- Amélioration de la stabilité grâce à la réduction des vibrations
- Grande résistance à la flexion qui permet d'augmenter les conditions de coupe et la productivité.

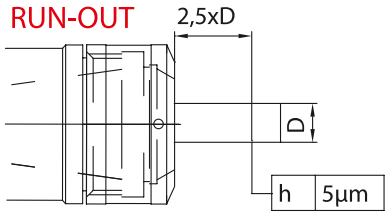
## МНОГОЧИСЛЕННЫЕ ДОСТОИНСТВА DK:

- Повышение твердости благодаря синхронному действию контактов
- Продление срока годности
- Повышение стабильности вследствие снижения вибрации
- Повышение прочности при изгибе для улучшения качества обработки.

## DK 刀头的优点:

- 得益于刀柄和法兰的同时配合产品的刚性大大提高
- 切削工具的壽命得以延长
- 更少的震动从而稳定性得以提高
- 更大的抗弯刚度从而提高了生产能力

# GREAT ACCURACY - HIGH PRECISION LINE










- **RUN OUT 5 MICRON at 2,5 times the diameter achieved only by using HP ER collets.**
  The High level of accuracy is achieved either on the NOMINAL DIAMETER or by clamping the tool whose diameter is maximum 0,5 mm smaller than the nominal diameter.
- 20% higher clamping force (compared to standard ER collet chuck system).
- Not to use with VG /ERC (watertight / Steel sealed) collets.
  **Nut for sealing discs available**, to use central coolant and high pressure.

- **RUN OUT 5 MICRON a 2,5 il diametro garantito esclusivamente tramite pinze ER PRECISE.**
  L'elevata precisione si ottiene o sul DIAMETRO NOMINALE o chiudendo l'utensile con diametro al massimo di 0,5mm inferiore al diametro nominale.
- Forza di serraggio maggiore del 20% (rispetto a portapinza ER standard).
- Non utilizzare con pinze VG /ERC (tenuta stagna/tenuta stagna meccanica).
  **Disponibile anche ghiera con dischi per passaggio interno del lubrificante** ad alta pressione.

- **5 MICRON RUNDLAUFGENAUIGKEIT bei 2,5 Mal des Durchmessers nur durch Verwendung von HP-ER Spannzangen erreicht.**
  Das Erreichen der hohen Genauigkeit erfolgt entweder am NENNDURCHMESSER oder durch das Spannen des Werkzeuges, wessen Durchmesser maximal 0,5 mm kleiner als der Nenndurchmesser ist.
- 20% höhere Spannkraft (im Vergleich zum Standard ER Spannzagenfuttersystem)
- Nicht mit VG/ERC (abgedichtete) Spannzangen zu verwenden.
  **Mutter für Dichtscheiben verfügbar**, zur Verwendung von Innenkühlung mit hohem Druck

- **COAXIALITE 5 MICRON à 2,5 fois le diamètre obtenu uniquement en utilisant des pinces ER PRECISE.**
  Le haut niveau de précision est obtenu soit sur le NOMINAL DIAMETER soit en serrant l'outil dont le diamètre est au maximum 0,5 mm inférieur au diamètre nominal.
- Force de serrage 20% supérieur si comparée au system de porte-pince standard
- Ne pas utiliser ave pince étanche VG/ERC.
  **Ecrou pour disque étanche disponible**, pour obtenir l'arrosage central à haute pression.

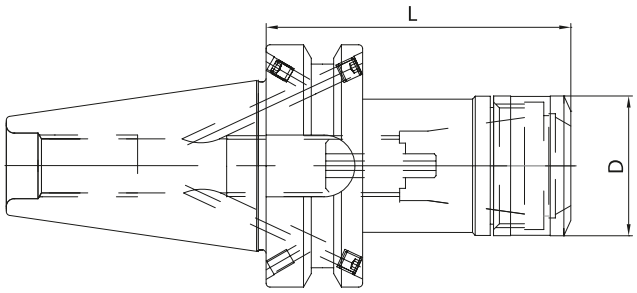
- **RUN OUT с 5 до 2,5 MICRON достигается только при использовании цанг PRECISION ER .**
  Высокий уровень точности достигается либо при зажиме НОМИНАЛЬНОГО ДИАМЕТРА, либо путем зажима инструмата, диаметр которого не должен превышать 0,5мм номинального диаметра.
- Сила зажима на 20% выше по сравнению со стандартнымы цанговымы патронами
- Не использовать с цангами VG /ERC (водонепроницаемые / механически уплотненные)
  **Доступна также гайка с центральным падводом** сож и высоким давлением.

- **使用HP的弹簧筒夹，在2.5倍径的地方刀柄跳动达到5u。**
  所夹持的刀具需满足标称直径或比标称直径小0.5mm以内才能达到这个精度。
- 比标准的弹簧刀柄系统高20%的夹持力。
- 密封圈螺帽，**适用于中心出水和高压**

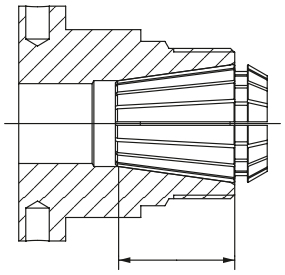
DOUBLE CONTACT ER COLLET CHUCK
DOPPELKONTAKT AUFNAHMEN ER SPANNZANGENFUTTER
ЦАНГОВЫЙ ПАТРОН ER С ДВОЙНЫМ КОНТАКТОМ
MANDRINI PORTAPINZA A DOPPIO CONTATTO TIPO ER
MADRINS DOUBLE CONTACT PORTE-PINCE ER
ER双向夹头

## MAS BT AD+B DOPPIO CONTATTO - DIN 6499

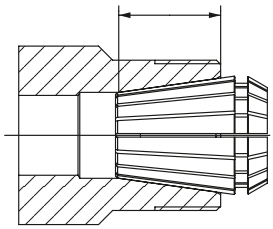





## DOUBLE CONTACT



HIGH PRECISION LINE

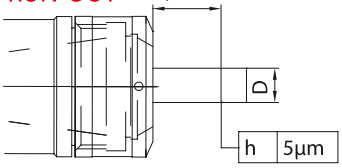


STANDARD

| | CODE N. | DESCRIPTION | ISO | L | D | ER | G2,5 30000 |
|---|---|---|---|---|---|---|---|
| ISO 30 | 214-37231* | BT30H70ER16-HPDK | 30 | 70 | 30 | 16 | • |
| | 214-37232* | BT30H70ER25-HPDK | 30 | 70 | 40 | 25 | • |
| | 214-37233* | BT30H70ER32-HPDK | 30 | 70 | 50 | 32 | • |
| ISO 40 | 214-37219 | BT40H70ER16-HPDK | 40 | 70 | 30 | 16 | • |
| | 214-37220 | BT40H70ER25-HPDK | 40 | 70 | 40 | 25 | • |
| | 214-37221 | BT40H70ER32-HPDK | 40 | 70 | 50 | 32 | • |
| ISO 40 | 214-37222 | BT40H100ER16-HPDK | 40 | 100 | 30 | 16 | • |
| | 214-37223 | BT40H100ER25-HPDK | 40 | 100 | 40 | 25 | • |
| | 214-37224 | BT40H100ER32-HPDK | 40 | 100 | 50 | 32 | • |
| ISO 50 | 214-37225 | BT50H80ER16-HPDK | 50 | 80 | 30 | 16 | • |
| | 214-37226 | BT50H80ER25-HPDK | 50 | 80 | 40 | 25 | • |
| | 214-37227 | BT50H80ER32-HPDK | 50 | 80 | 50 | 32 | • |
| ISO 50 | 214-37228 | BT50H100ER16-HPDK | 50 | 100 | 30 | 16 | • |
| | 214-37229 | BT50H100ER25-HPDK | 50 | 100 | 40 | 25 | • |
| | 214-37230 | BT50H100ER32-HPDK | 50 | 100 | 50 | 32 | • |

* BT30 only AD version
* BT30 solo versione AD
* BT30 nur AD Ausführung
* BT30 seulement Version AD
* BT30 только с AD исполнением
* BT30 只在 AD 版本下

RUN-OUT 2,5xD




Accessories
Accessori
Zubehör
Accessoires
Принадлежности
零件



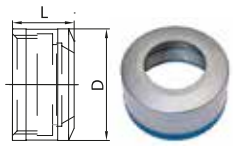
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COLLETS ER TYPE
ER TYP SPANNZANGEN
НАБОРЫ ЦАНГ ER
PINZE TIPO ER
PINCES TYPE ER
ER 类型的夹头

| CODE N. | D | L | ER |
|---|---|---|---|
| 812-203085 | 30 | 18 | 16 |
| 812-203086 | 40 | 20,5 | 25 |
| 812-203087 | 50 | 23,5 | 32 |



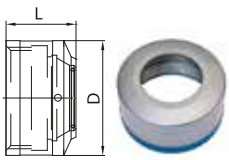

WRENCHES FOR NUT
SPANNSCHLÜSSEL FÜR SPANNMUTTER
КЛЮЧИ ДЛЯ СТАНДАРТНЫХ ГАЕК
CHIAVI PER GHIERA
CLES DE SERRAGE POUR ECROU
标准螺母用扳手

| CODE N. | D | D1 | ER |
|---|---|---|---|
| 816-203069 | 30 | 3 | 16 |
| 816-203070 | 40 | 4 | 25 |
| 816-203071 | 50 | 4 | 32 |



CLAMPING NUTS FOR SEALING DISKS FOR TOOLS WITH INTERNAL COOLANT
SPANNMUTTER FUR DICHTSHEIBEN FUR DIE INNERE KUHLUNG
GHIERE CON SEDE DISCO DI TENUTA PER UTENSILI CON FISSAGGIO DI LUBRIFICAZIONE INTERNA
BAGUE AVEC D'ETANCHEITE POUR LA LUBRIFICATION A L'INTERIEUR

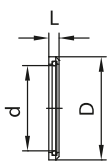
| CODE N. | D | L | ER |
|---|---|---|---|
| 812-203089 | 30 | 22,5 | 16 |
| 812-203090 | 40 | 25,5 | 25 |
| 812-203091 | 50 | 28 | 32 |




SEALING DISKS
DICHTSCHEIBEN
DISCHI DI TENUTA
DISQUES D'ETANCHEITE

| CODE N. | D | L | d | RANGE | ER |
|---|---|---|---|---|---|
| DIS.16. ... | 13 | 4 | 3÷10 | 0,5 | 16 |
| DIS.25. ... | 21 | 4 | 3÷16 | 0,5 | 25 |
| DIS.32. ... | 27 | 4 | 3÷20 | 0,5 | 32 |

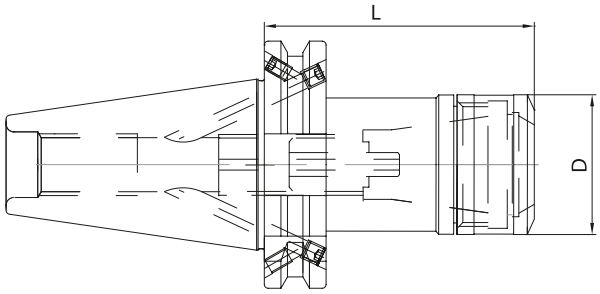
**Example: DIS.16.06 >> Sealing disk Ø6÷5,5**



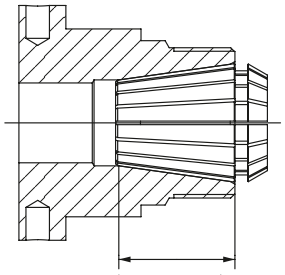
DOUBLE CONTACT ER COLLET CHUCK | MANDRINI PORTAPINZA A DOPPIO CONTATTO TIPO ER
DOPPELKONTAKT AUFNAHMEN ER SPANNZANGENFUTTER | MADRINS DOUBLE CONTACT PORTE-PINCE ER
ЦАНГОВЫЙ ПАТРОН ER С ДВОЙНЫМ КОНТАКТОМ | ER双向夹头

## DIN69871 AD+B DOPPIO CONTATTO - DIN 6499

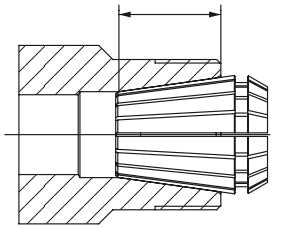





## DOUBLE CONTACT



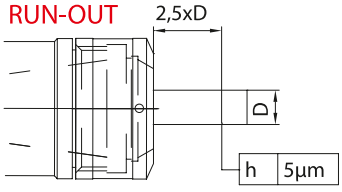
HIGH PRECISION LINE



STANDARD

| | CODE N. | DESCRIPTION | ISO | L | D | ER | G2,5 30000 |
|---|---|---|---|---|---|---|---|
| ISO40 | 214-37115 | TC40H70ER16-HPDK | 40 | 70 | 30 | 16 | • |
| | 214-37116 | TC40H70ER25-HPDK | 40 | 70 | 40 | 25 | • |
| | 214-37117 | TC40H70ER32-HPDK | 40 | 70 | 50 | 32 | • |
| ISO 40 | 214-37118 | TC40H100ER16-HPDK | 40 | 100 | 30 | 16 | • |
| | 214-37119 | TC40H100ER25-HPDK | 40 | 100 | 40 | 25 | • |
| | 214-37120 | TC40H100ER32-HPDK | 40 | 100 | 50 | 32 | • |
| ISO 50 | 214-37121 | TC50H80ER16-HPDK | 50 | 80 | 30 | 16 | • |
| | 214-37122 | TC50H80ER25-HPDK | 50 | 80 | 40 | 25 | • |
| | 214-37123 | TC50H80ER32-HPDK | 50 | 80 | 50 | 32 | • |
| ISO 50 | 214-37124 | TC50H100ER16-HPDK | 50 | 100 | 30 | 16 | • |
| | 214-37125 | TC50H100ER25-HPDK | 50 | 100 | 40 | 25 | • |
| | 214-37126 | TC50H100ER32-HPDK | 50 | 100 | 50 | 32 | • |

RUN-OUT




Accessories
Accessori
Zubehör
Accessoires
Принадлежности
零件



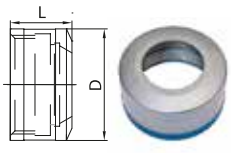
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COLLETS ER TYPE | PINZE TIPO ER
ER TYP SPANNZANGEN | PINCES TYPE ER
НАБОРЫ ЦАНГ ER | ER 类型的夹头

| CODE N. | D | L | ER |
|---|---|---|---|
| 812-203085 | 30 | 18 | 16 |
| 812-203086 | 40 | 20,5 | 25 |
| 812-203087 | 50 | 23,5 | 32 |



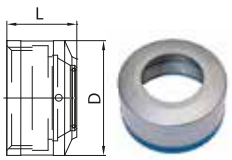

WRENCHES FOR NUT | CHIAVI PER GHIERA
SPANNSCHLÜSSEL FÜR SPANNMUTTER | CLES DE SERRAGE POUR ECROU
КЛЮЧИ ДЛЯ СТАНДАРТНЫХ ГАЕК | 标准螺母用扳手

| CODE N. | D | D1 | ER |
|---|---|---|---|
| 816-203069 | 30 | 3 | 16 |
| 816-203070 | 40 | 4 | 25 |
| 816-203071 | 50 | 4 | 32 |



CLAMPING NUTS FOR SEALING DISKS FOR TOOLS WITH INTERNAL COOLANT | GHIERE CON SEDE DISCO DI TENUTA PER UTENSILI CON FISSAGGIO DI LUBRIFICAZIONE INTERNA
SPANMUTTER FUR DICHTSHEIBEN FUR DIE INNERE KUHLUNG | BAGUE AVEC D'ETANCHEITE POUR LA LUBRIFICATION A L'INTERIEUR

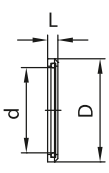
| CODE N. | D | L | ER |
|---|---|---|---|
| 812-203089 | 30 | 22,5 | 16 |
| 812-203090 | 40 | 25,5 | 25 |
| 812-203091 | 50 | 28 | 32 |




SEALING DISKS | DISCHI DI TENUTA
DICHTSCHEIBEN | DISQUES D'ETANCHEITE

| CODE N. | D | L | d | RANGE | ER |
|---|---|---|---|---|---|
| DIS.16. … | 13 | 4 | 3÷10 | 0,5 | 16 |
| DIS.25. … | 21 | 4 | 3÷16 | 0,5 | 25 |
| DIS.32. … | 27 | 4 | 3÷20 | 0,5 | 32 |

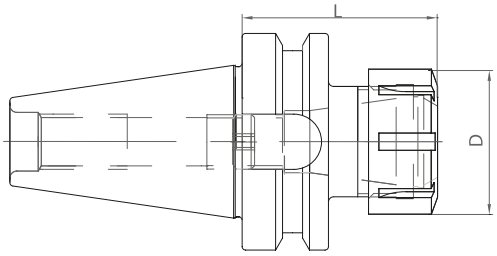
**Example: DIS.16.06 >> Sealing disk Ø6÷5,5**

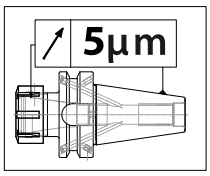


## DOUBLE CONTACT ER COLLET CHUCK
## DOPPELKONTAKT AUFNAHMEN ER SPANNZANGENFUTTER
## ЦАНГОВЫЙ ПАТРОН ER С ДВОЙНЫМ КОНТАКТОМ
## MANDRINI PORTAPINZA A DOPPIO CONTATTO TIPO ER
## MADRINS DOUBLE CONTACT PORTE-PINCE ER
## ER双向夹头

### MAS 403/BT AD






| CODE N. | DESCRIPTION | ISO | ER | D | L | G2,5 30000 RPM |
|---|---|---|---|---|---|---|
| 214-37201 | BT30H70ER16 AD | 30 | 16 | 32 | 70 | • |
| 214-37202 | BT30H70ER20 AD | 30 | 20 | 35 | 70 | • |
| 214-37203 | BT30H70ER25 AD | 30 | 25 | 42 | 70 | • |
| 214-37204 | BT30H70ER32 AD | 30 | 32 | 50 | 70 | • |
| 214-37205 | BT40H70ER16 AD | 40 | 16 | 32 | 70 | • |
| 214-37206 | BT40H70ER25 AD | 40 | 25 | 42 | 70 | • |
| 214-37207 | BT40H70ER32 AD | 40 | 32 | 50 | 70 | • |
| 214-37208 | BT40H70ER40 AD | 40 | 40 | 63 | 70 | • |
| 214-37209 | BT40H100ER16 AD | 40 | 16 | 32 | 100 | • |
| 214-37210 | BT40H100ER25 AD | 40 | 25 | 42 | 100 | • |
| 214-37211 | BT40H100ER32 AD | 40 | 32 | 50 | 100 | • |
| 214-37212 | BT40H100ER40 AD | 40 | 40 | 63 | 100 | • |
| 214-37213 | BT50H80ER32 AD | 50 | 32 | 50 | 80 | • |
| 214-37214 | BT50H80ER40 AD | 50 | 40 | 63 | 80 | • |
| 214-37215 | BT50H100ER32 AD | 50 | 32 | 50 | 100 | • |
| 214-37216 | BT50H100ER40 AD | 50 | 40 | 63 | 100 | • |
| 214-37217 | BT50H160ER32 AD | 50 | 32 | 50 | 160 | • |
| 214-37218 | BT50H200ER32 AD | 50 | 32 | 50 | 200 | • |

| TAPE | SCREW ❸ | QUANTITY | SCREW ❹ | QUANTITY |
|---|---|---|---|---|
| ISO 40 | 811-102002 M4X5 | 2 | 811-102002 M4X5 | 2 |
| ISO 50 | 811-102001 M4X4 | 2 | 811-102010 M5X6 | 2 |

| ER | NUT ❶ | STOP SCREW ❷ |
|---|---|---|
| 16 | 812-203080 | 811-303119 |
| 20 | 812-203081 | 811-303120 |
| 25 | 812-203082 | 811-303121 |
| 32 | 812-203083 | 811-303118 |
| 40 | 812-203084 | 811-303122 |

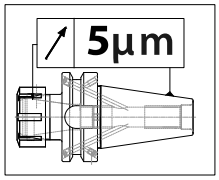
Spare parts • Componenti • Ersatzteile • Pièces détachées • Запасные части • 零件

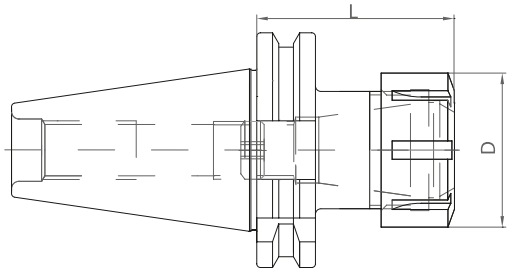
03

## DOUBLE CONTACT ER COLLET CHUCK
## DOPPELKONTAKT AUFNAHMEN ER SPANNZANGENFUTTER
## ЦАНГОВЫЙ ПАТРОН ER С ДВОЙНЫМ КОНТАКТОМ
## MANDRINI PORTAPINZA A DOPPIO CONTATTO TIPO ER
## MADRINS DOUBLE CONTACT PORTE-PINCE ER
## ER双向夹头

### DIN 69871 AD






| Code N. | DESCRIPTION | ISO | ER | D | L | G2,5 30000 RPM |
|---|---|---|---|---|---|---|
| 214-37101 | TC40H70ER16 AD | 40 | 16 | 32 | 70 | • |
| 214-37102 | TC40H70ER25 AD | 40 | 25 | 42 | 70 | • |
| 214-37103 | TC40H70ER32 AD | 40 | 32 | 50 | 70 | • |
| 214-37104 | TC40H70ER40 AD | 40 | 40 | 63 | 70 | • |
| 214-37105 | TC40H100ER16 AD | 40 | 16 | 32 | 100 | • |
| 214-37106 | TC40H100ER25 AD | 40 | 25 | 42 | 100 | • |
| 214-37107 | TC40H100ER32 AD | 40 | 32 | 50 | 100 | • |
| 214-37108 | TC40H100ER40 AD | 40 | 40 | 63 | 100 | • |
| 214-37109 | TC50H70ER32 AD | 50 | 32 | 50 | 70 | • |
| 214-37110 | TC50H80ER40 AD | 50 | 40 | 63 | 80 | • |

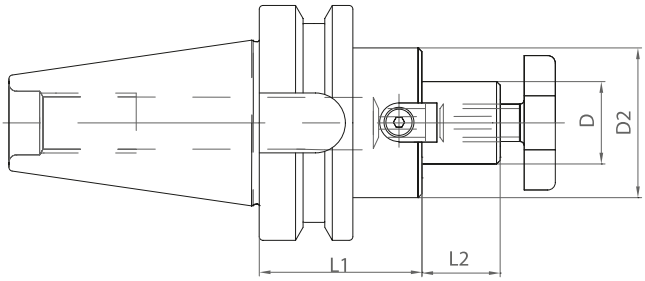
| ER | NUT ❶ |
|---|---|
| 16 | 812-203080 |
| 20 | 812-203081 |
| 25 | 812-203082 |
| 32 | 812-203083 |
| 40 | 812-203084 |

## DOUBLE CONTACT FACE MILL HOLDERS-TENONS DRIVE
## DOPPELKONTAKT AUFNAHMEN AUFSTÄCKFRÄSDORNE
## ОПРАВКИ ДЛЯ НАСАДНЫХ ФРЕЗ С ДВОЙНЫМ КОНТАКТОМ
## MANDRINI PORTAFRESE A DOPPIO CONTATTO A TRASCINAMENTO FISSO
## MADRINS DOUBLE CONTACT PORTE-FRAISE
## 双向铣刀柄

### MAS 403/BT AD



| CODE N. | DESCRIPTION | ISO | D | L1 | L2 | D2 | G2,5 25000 RPM |
|---|---|---|---|---|---|---|---|
| 216-77207 | BT30H35D16 AD | 30 | 16 | 35 | 17 | 38 | • |
| 216-77201 | BT30H45D22F AD | 30 | 22 | 45 | 19 | 48 | • |
| 216-77202 | BT30H45D27F AD | 30 | 27 | 45 | 21 | 60 | • |
| 216-77208 | BT40H45D16 AD | 40 | 16 | 45 | 17 | 38 | • |
| 216-77203 | BT40H45D22F AD | 40 | 22 | 45 | 19 | 48 | • |
| 216-77204 | BT40H60D22F AD | 40 | 22 | 60 | 19 | 48 | • |
| 216-77205 | BT40H45D27F AD | 40 | 27 | 45 | 21 | 60 | • |
| 216-77206 | BT40H60D27F AD | 40 | 27 | 60 | 21 | 60 | • |
| 216-77210 | BT50H60D16F AD | 50 | 16 | 60 | 17 | 38 | • |
| 216-77211 | BT50H60D22F AD | 50 | 22 | 60 | 19 | 48 | • |
| 216-77212 | BT50H60D27F AD | 50 | 27 | 60 | 21 | 60 | • |






## DOUBLE CONTACT FACE MILL HOLDERS-TENONS DRIVE
## DOPPELKONTAKT AUFNAHMEN AUFSTÄCKFRÄSDORNE
## ОПРАВКИ ДЛЯ НАСАДНЫХ ФРЕЗ С ДВОЙНЫМ КОНТАКТОМ
## MANDRINI PORTAFRESE A DOPPIO CONTATTO A TRASCINAMENTO FISSO
## MADRINS DOUBLE CONTACT PORTE-FRAISE
## 双向铣刀柄

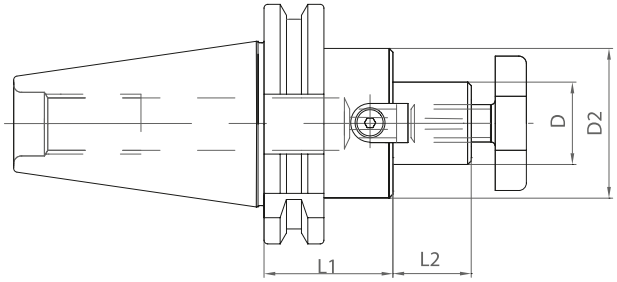
### DIN 69871 AD



| CODE N. | DESCRIPTION | ISO | D | L1 | L2 | D2 | G2,5 25000 RPM |
|---|---|---|---|---|---|---|---|
| 216-77103 | TC40H35D16F AD | 40 | 16 | 35 | 17 | 38 | • |
| 216-77101 | TC40H35D22F AD | 40 | 22 | 35 | 19 | 48 | • |
| 216-77102 | TC40H60D27F AD | 40 | 27 | 60 | 21 | 58 | • |
| 216-77106 | TC50H60D27F AD | 50 | 27 | 60 | 21 | 58 | • |

Spare parts • Componenti • Ersatzteile • Pièces détachées
Запасные части • 零件

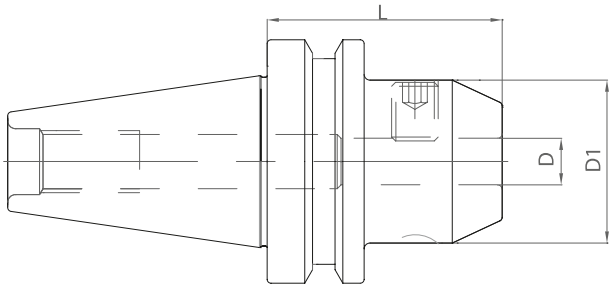
| D | CROSS SCREW ❶ | TENON ❷ | SCREW ❸ | WRENCH |
|---|---|---|---|---|
| 16 | 811-107003 | 814-202280 | 811-101004 | 816-130002 |
| 22 | 811-107004 | 814-202250 | 811-101011 | 816-130003 |
| 27 | 811-107005 | 814-202270 | 811-101018 | 816-130004 |
| 32 | 811-107006 | 814-202630 | 811-101029 | 816-130005 |
| 40 | 811-107007 | 814-202710 | 811-101029 | 816-130006 |



DOUBLE CONTACT END MILL HOLDERS WELDON
DOPPELKONTAKT AUFNAHMEN WELDON
ОПРАВКИ С КРЕПЛЕНИЕМ WELDON С ДВОЙНЫМ КОНТАКТОМ
MANDRINI PORTAFRESE A DOPPIO CONTATTO TIPO WELDON
MADRINS DOUBLE CONTACT WELDON
WELDON双向铣刀柄

## MAS 403/BT AD





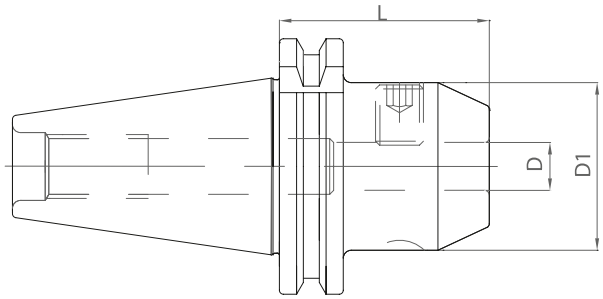

| CODE N. | DESCRIPTION | ISO | D | L | D1 | G6,3 15000 RPM |
|---|---|---|---|---|---|---|
| 213-17225 | BT30H60WE06 AD | 30 | 6 | 60 | 25 | • |
| 213-17226 | BT30H60WE08 AD | 30 | 8 | 60 | 28 | • |
| 213-17227 | BT30H60WE10 AD | 30 | 10 | 60 | 35 | • |
| 213-17228 | BT30H60WE12 AD | 30 | 12 | 60 | 42 | • |
| 213-17229 | BT30H75WE16 AD | 30 | 16 | 75 | 48 | • |
| 213-17230 | BT30H75WE20 AD | 30 | 20 | 75 | 52 | • |
| 213-17231 | BT30H90WE25 AD | 30 | 25 | 90 | 65 | • |
| 213-17232 | BT40H50WE06 AD | 40 | 6 | 50 | 25 | • |
| 213-17233 | BT40H50WE08 AD | 40 | 8 | 50 | 28 | • |
| 213-17234 | BT40H63WE10 AD | 40 | 10 | 63 | 35 | • |
| 213-17235 | BT40H63WE12 AD | 40 | 12 | 63 | 42 | • |
| 213-17236 | BT40H63WE16 AD | 40 | 16 | 63 | 48 | • |
| 213-17238 | BT40H63WE20 AD | 40 | 20 | 63 | 52 | • |
| 213-17239 | BT40H100WE25 AD | 40 | 25 | 100 | 65 | • |
| 213-17240 | BT40H100WE32 AD | 40 | 32 | 100 | 72 | • |
| 213-17249 | BT50H63WE06 AD | 50 | 6 | 63 | 25 | • |
| 213-17250 | BT50H63WE08 AD | 50 | 8 | 63 | 28 | • |
| 213-17251 | BT50H70WE10 AD | 50 | 10 | 70 | 35 | • |
| 213-17252 | BT50H80WE12 AD | 50 | 12 | 80 | 42 | • |
| 213-17253 | BT50H80WE16 AD | 50 | 16 | 80 | 48 | • |
| 213-17255 | BT50H80WE20 AD | 50 | 20 | 80 | 52 | • |
| 213-17256 | BT50H100WE25 AD | 50 | 25 | 100 | 65 | • |
| 213-17257 | BT50H105WE32 AD | 50 | 32 | 105 | 72 | • |
| 213-17258 | BT50H120WE40 AD | 50 | 40 | 120 | 80 | • |

03

DOUBLE CONTACT END MILL HOLDERS WELDON
DOPPELKONTAKT AUFNAHMEN WELDON
ОПРАВКИ С КРЕПЛЕНИЕМ WELDON С ДВОЙНЫМ КОНТАКТОМ
MANDRINI PORTAFRESE A DOPPIO CONTATTO TIPO WELDON
MADRINS DOUBLE CONTACT WELDON
WELDON双向铣刀柄

## DIN 69871 AD





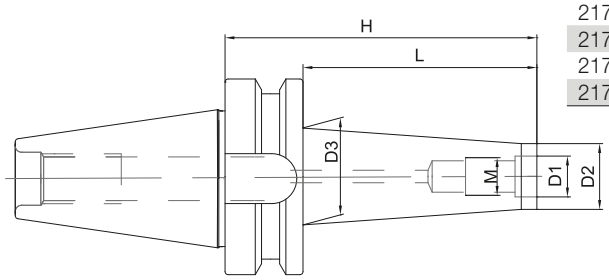

| CODE N. | DESCRIPTION | ISO | D | L | D1 | G6,3 15000 RPM |
|---|---|---|---|---|---|---|
| 213-17113 | TC40H50WE06 AD | 40 | 6 | 50 | 25 | • |
| 213-17114 | TC40H50WE08 AD | 40 | 8 | 50 | 28 | • |
| 213-17115 | TC40H63WE10 AD | 40 | 10 | 50 | 35 | • |
| 213-17116 | TC40H63WE12 AD | 40 | 12 | 50 | 42 | • |
| 213-17117 | TC40H63WE16 AD | 40 | 16 | 63 | 48 | • |
| 213-17119 | TC40H63WE20 AD | 40 | 20 | 63 | 52 | • |
| 213-17120 | TC40H100WE25 AD | 40 | 25 | 100 | 65 | • |
| 213-17121 | TC40H100WE32 AD | 40 | 32 | 100 | 72 | • |
| 213-17122 | TC50H63WE06 AD | 50 | 6 | 63 | 25 | • |
| 213-17123 | TC50H63WE08 AD | 50 | 8 | 63 | 28 | • |
| 213-17124 | TC50H63WE10 AD | 50 | 10 | 63 | 35 | • |
| 213-17125 | TC50H63WE12 AD | 50 | 12 | 63 | 42 | • |
| 213-17126 | TC50H63WE16 AD | 50 | 16 | 63 | 48 | • |
| 213-17128 | TC50H63WE20 AD | 50 | 20 | 63 | 52 | • |
| 213-17129 | TC50H80WE25 AD | 50 | 25 | 80 | 65 | • |
| 213-17130 | TC50H100WE32 AD | 50 | 32 | 100 | 72 | • |
| 213-17131 | TC50H120WE40 AD | 50 | 40 | 120 | 80 | • |

## MILLING CUTTER ARBORS FOR SCREW-ON TYPE MILLING CUTTERS
## SPANNFUTTER FüR EIN SCHRAUBFRäSER
## ОПРАВКИ ДЛЯ ФРЕЗЕРНЫХ ГОЛОВОК
## MANDRINI PER FRESE CON ATTACCO FILETTATO
## MANDRINS POUR FRAISER A VISSER
## 螺纹连接型铣刀的铣刀杆

### MAS 403/BT



| CODE N. | DESCRIPTION | ISO | M | D1 | D2 | D3 | H | L | G6,3 12000 RPM |
|---|---|---|---|---|---|---|---|---|---|
| 217-87202 | BT30H55M8DK | 30 | M8 | 8,5 | 13 | 15 | 55 | 34 | • |
| 217-87203 | BT30H102M8DK | 30 | M8 | 8.5 | 13 | 23 | 102 | 81 | • |
| 217-87204 | BT30H55M10DK | 30 | M10 | 10,5 | 18 | 20 | 55 | 34 | • |
| 217-87205 | BT30H102M10DK | 30 | M10 | 10.5 | 18 | 30 | 102 | 81 | • |
| 217-87206 | BT30H55M12DK | 30 | M12 | 12,5 | 21 | 24 | 55 | 34 | • |
| 217-87207 | BT30H102M12DK | 30 | M12 | 12.5 | 21 | 31 | 102 | 81 | • |
| 217-87208 | BT40H55M8DK | 40 | M8 | 8,5 | 13 | 15 | 55 | 29 | • |
| 217-87209 | BT40H102M8DK | 40 | M8 | 8.5 | 13 | 23 | 102 | 76 | • |
| 217-87210 | BT40H55M10DK | 40 | M10 | 10,5 | 18 | 20 | 55 | 29 | • |
| 217-87211 | BT40H77M10DK | 40 | M10 | 10.5 | 18 | 23 | 77 | 51 | • |
| 217-87212 | BT40H127M10DK | 40 | M10 | 10.5 | 18 | 30 | 127 | 101 | • |
| 217-87213 | BT40H55M12DK | 40 | M12 | 12,5 | 21 | 24 | 55 | 29 | • |
| 217-87214 | BT40H77M12DK | 40 | M12 | 12.5 | 21 | 24 | 77 | 51 | • |
| 217-87215 | BT40H102M12DK | 40 | M12 | 12.5 | 21 | 31 | 102 | 76 | • |
| 217-87216 | BT40H127M12DK | 40 | M12 | 12.5 | 21 | 31 | 127 | 101 | • |
| 217-87217 | BT40H55M16DK | 40 | M16 | 17 | 29 | 32 | 55 | 29 | • |
| 217-87218 | BT40H77M16DK | 40 | M16 | 17 | 29 | 34 | 77 | 51 | • |
| 217-87219 | BT40H102M16DK | 40 | M16 | 17 | 29 | 34 | 102 | 76 | • |
| 217-87220 | BT40H127M16DK | 40 | M16 | 17 | 29 | 36 | 127 | 101 | • |
| 217-87224 | BT50H138M16DK | 50 | M16 | 17 | 29 | 36 | 138 | 101,5 | • |
| 217-87225 | BT50H188M16DK | 50 | M16 | 17 | 29 | 36 | 188 | 151,5 | • |



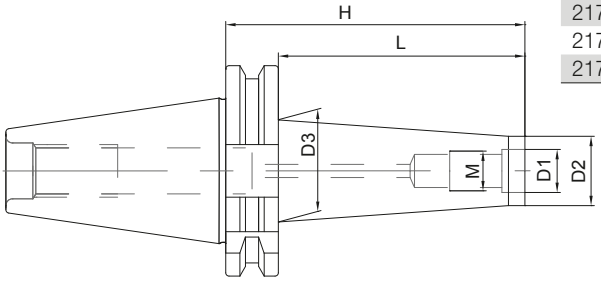



## MILLING CUTTER ARBORS FOR SCREW-ON TYPE MILLING CUTTERS
## SPANFUTTER FÜR EINSCHRAUBFRÄSER
## ОПРАВКИ ДЛЯ ФРЕЗЕРНЫХ ГОЛОВОК
## MANDRINI PER FRESE CON ATTACCO FILETTATO
## MANDRINS POUR FRAISER A VISSER
## 螺纹连接型铣刀的铣刀杆

### DIN 69871



| CODE N. | DESCRIPTION | ISO | M | D | D2 | D3 | H | L | G6,3 12000 RPM |
|---|---|---|---|---|---|---|---|---|---|
| 217-87101 | TC40H55M8DK | 40 | M8 | 8,5 | 13 | 15 | 55 | 37 | • |
| 217-87102 | TC40H69M8DK | 40 | M8 | 8.5 | 13 | 23 | 69 | 51 | • |
| 217-87104 | TC40H55M10DK | 40 | M10 | 10,5 | 18 | 20 | 55 | 37 | • |
| 217-87105 | TC40H69M10DK | 40 | M10 | 10.5 | 18 | 23 | 69 | 51 | • |
| 217-87106 | TC40H94M10DK | 40 | M10 | 10.5 | 18 | 28 | 94 | 76 | • |
| 217-87107 | TC40H55M12DK | 40 | M12 | 12,5 | 21 | 24 | 55 | 37 | • |
| 217-87108 | TC40H69M12DK | 40 | M12 | 12.5 | 21 | 24 | 69 | 51 | • |
| 217-87109 | TC40H94M12DK | 40 | M12 | 12.5 | 21 | 31 | 94 | 76 | • |
| 217-87110 | TC40H119M12DK | 40 | M12 | 12.5 | 21 | 31 | 119 | 101 | • |
| 217-87111 | TC40H55M16DK | 40 | M16 | 17 | 29 | 32 | 55 | 37 | • |
| 217-87112 | TC40H69M16DK | 40 | M16 | 17 | 29 | 34 | 69 | 51 | • |
| 217-87113 | TC40H94M16DK | 40 | M16 | 17 | 29 | 34 | 94 | 76 | • |
| 217-87114 | TC40H119M16DK | 40 | M16 | 17 | 29 | 36 | 119 | 101 | • |
| 217-87115 | TC40H145M16DK | 40 | M16 | 17 | 29 | 39 | 145 | 127 | • |
| 217-87117 | TC50H69M12DK | 50 | M12 | 12.5 | 21 | 24 | 69 | 51 | • |
| 217-87118 | TC50H119M12DK | 50 | M12 | 12.5 | 21 | 32 | 119 | 101 | • |
| 217-87119 | TC50H69M16DK | 50 | M16 | 17 | 29 | 34 | 69 | 51 | • |
| 217-87120 | TC50H119M16DK | 50 | M16 | 17 | 29 | 36 | 119 | 101 | • |
| 217-87121 | TC50H169M16DK | 50 | M16 | 17 | 29 | 42 | 169 | 151 | • |



## MILLING CHUCK KITS | KIT FORTE SERRAGGIO
## KRAFTSPANNFUTTERSATZ | JEUX À FORT SERRAGE
## НАБОРЫ СИЛОВЫХ ПАТРОНОВ С ЦАНГАМИ К НИМ | 铣夹头组套

**Kit Box:** 1 milling chuck + 1 collets kit + 1 wrench
**Cassetta Corredo:** 1 mandrino forte serraggio + 1 serie pinze + 1 chiave
**Ausstattungskasten:** 1 Kraftspannfutter + 1 Spannzangensatz + 1 Spannschlüssel
**Boîte d'équipement:** 1 mandrin à fort serrage + 1 jeux de pince + 1 clé
**Набор:** 1 патрон + 1 набор цанг + 1 ключ
**组件盒:** 1 个铣夹头 + 1 个夹头套装 + 1 个扳手



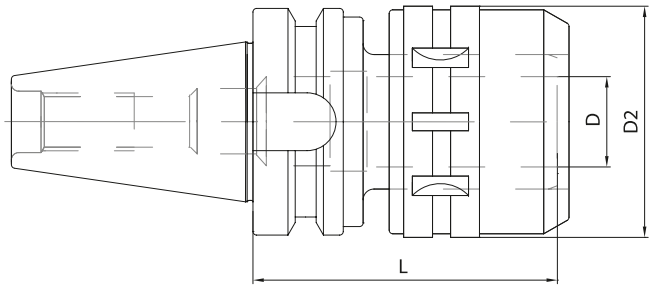
| | CODICE ORDINAZIONE ORDER CODE | COMPOSIZIONE COMPOSITION |
|---|---|---|
| ISO 40 | KIT BT40 C20DK | N°1 BT40 L105 C20 + n°5 pinze K20: Ø6,8,10,12,16 |
| | KIT BT40 C32DK | N°1 BT40 L105 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25 |
| | | |
| | KIT TC40 C20DK | N°1 TC 40 L105 C20 + n°5 pinze K20: Ø6,8,10,12,16 |
| | KIT TC40 C32DK | N°1 TC 40 L105 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25 |
| | | |
| | KIT BT50 C20DK | N°1 BT50 L105 C20 + n°5 pinze K20: 6,8,10,12,16 |
| | KIT BT50 C32DK | N°1 BT50 L105 C32 + n°7 pinze K32: 6,8,10,12,16,20,25 |

## MILLING CHUCK | MANDRINI A FORTE SERRAGGIO
## KRAFTSPANNFUTTER | MANDRINS A FORT SERRAGE
## УСИЛЕННЫЕ ОПРАВКИ | 铣夹头

### MAS 403/BT A





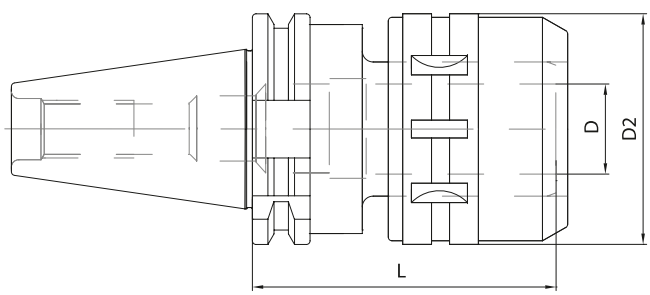



| CODE N. | DESCRIPTION | ISO | D | D2 | L | G6,3 12000 RPM |
|---|---|---|---|---|---|---|
| 214-07201 | BT40H105C20 | 40 | 20 | 54 | 105 | • |
| 214-07202 | BT40H105C32 | 40 | 32 | 72 | 105 | • |
| 214-07203 | BT50H105C20 | 50 | 20 | 54 | 105 | • |
| 214-07204 | BT50H105C32 | 50 | 32 | 72 | 105 | • |
| 214-07205 | BT50H135C32 | 50 | 32 | 72 | 135 | • |

## MILLING CHUCK | MANDRINI A FORTE SERRAGGIO
## KRAFTSPANNFUTTER | MANDRINS A FORT SERRAGE
## УСИЛЕННЫЕ ОПРАВКИ | 铣夹头

### DIN 68971





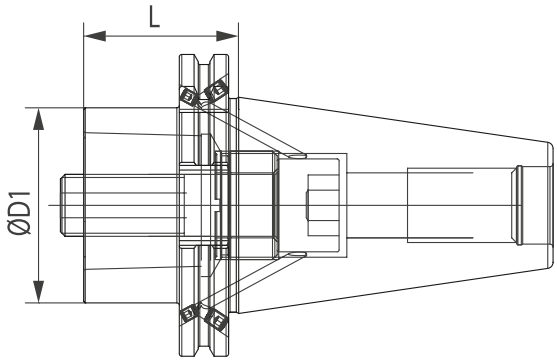

| CODE N. | DESCRIPTION | ISO | D | D2 | L | G6,3 12000 RPM |
|---|---|---|---|---|---|---|
| 214-07101 | TC40H105C20 | 40 | 20 | 54 | 105 | • |
| 214-07102 | TC40H105C32 | 40 | 32 | 72 | 105 | • |

## REDUCTION ISO 40/50 DIN69871-AD/B – POLYGONAL SHANK
## REDUKTION SK 40/50 DIN69871 MIT POLYGONSCHAFT
## ПЕРЕХОДНИКИ С ISO 40/50 DIN69871-AD/B НА EPS
## RIDUZIONE ISO 40/50 DIN 69871-AD/B PER ATTACCO POLIGONALE
## REDUCTION ISO 40/50 DIN69871 AVEC ATTACHEMENT POLYGONALE
## DIN69871-AD/B多边形缩减柄

**DIN ISO 26623-1 - DIN 69871**



| CODE N. | ATTACCO SHANK | D1 mm | L mm |
|---|---|---|---|
| TC40H30C32DK | 40DIN69871 AD/B | 32 | 30 |
| TC40H40C40DK | 40DIN69871 AD/B | 40 | 40 |
| TC40H50C50DK | 40DIN69871 AD/B | 50 | 50 |
| TC40H85C63DK | 40DIN69871 AD/B | 63 | 85 |
| TC50H60C32DK | 50DIN69871 AD/B | 32 | 60 |
| TC50H30C40DK | 50DIN69871 AD/B | 40 | 30 |
| TC50H60C40DK | 50DIN69871 AD/B | 40 | 60 |
| TC50H30C50DK | 50DIN69871 AD/B | 50 | 30 |
| TC50H70C50DK | 50DIN69871 AD/B | 50 | 70 |
| TC50H50C63DK | 50DIN69871 AD/B | 63 | 50 |
| TC50H100C63DK | 50DIN69871 AD/B | 63 | 100 |
| TC50H70C80DK | 50DIN69871 AD/B | 80 | 70 |
| TC50H120C80DK | 50DIN69871 AD/B | 80 | 120 |



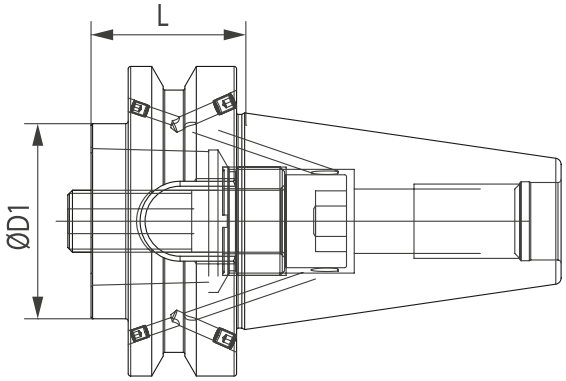



## REDUCTION BT40/50-AD/B – POLYGONAL SHANK
## REDUKTION BT40/50-AD/B MIT POLYGONSCHAFT
## ПЕРЕХОДНИКИ С BT40/50-AD/B НА DIN
## RIDUZIONE BT40/50-AD/B CON ATTACCO POLIGONALE
## REDUCTION BT40/50-AD/B AVEC ATTACHEMENT POLYGONALE
## BT40/50-AD/B 多边形缩减柄

**DIN ISO 26623-1 - JIS-B 6339 MAS 403/BT**

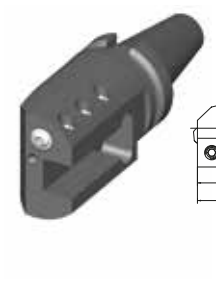


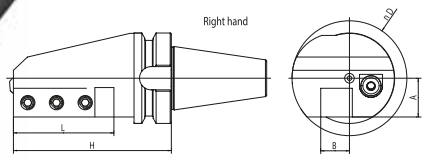
| CODE N. | ATTACCO SHANK | D1 mm | L mm |
|---|---|---|---|
| BT40H30C32DK | 40MAS403/BT AD/B | 32 | 30 |
| BT40H40C40DK | 40MAS403/BT AD/B | 40 | 40 |
| BT40H50C50DK | 40MAS403/BT AD/B | 50 | 50 |
| BT40H75C63DK | 40MAS403/BT AD/B | 63 | 75 |
| BT50H70C32DK | 50MAS403/BT AD/B | 32 | 70 |
| BT50H40C40DK | 50MAS403/BT AD/B | 40 | 40 |
| BT50H70C40DK | 50MAS403/BT AD/B | 40 | 70 |
| BT50H40C50DK | 50MAS403/BT AD/B | 50 | 40 |
| BT50H80C50DK | 50MAS403/BT AD/B | 50 | 80 |
| BT50H50C63DK | 50MAS403/BT AD/B | 63 | 50 |
| BT50H100C63DK | 50MAS403/BT AD/B | 63 | 100 |
| BT50H70C80DK | 50MAS403/BT AD/B | 80 | 70 |
| BT50H120C80DK | 50MAS403/BT AD/B | 80 | 120 |



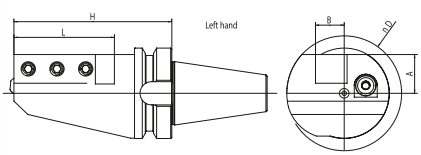
## DOUBLE CONTACT SQUARE TOOLHOLDER
## DOPPELKONTAKT VIERKANTWERKZEUGHALTER
## ОПРАВКА ДК С КВАДРАТОМ
## PORTABARENO QUADRO DOPPIO CONTATTO
## PORTE OUTIL CARRÉ À DOUBLE CONTACT
## 双触面方形刀柄

**MAS 403/BT**







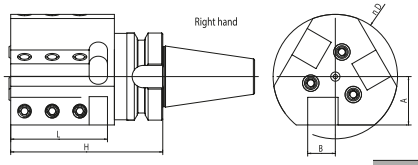




| CODE N. | DESCRIPTION | ISO | B | H | L | A | D |
|---|---|---|---|---|---|---|---|
| 152-11510 | BT40H110-2020R | 40 | 20 | 110 | 70 | 27 | 80 |
| 152-21502 | BT40H110-2020L | 40 | 20 | 110 | 70 | 27 | 80 |
| 152-11511 | BT40H130-2525R | 40 | 25 | 130 | 90 | 31,5 | 90 |
| 152-21503 | BT40H130-2525L | 40 | 25 | 130 | 90 | 31,5 | 90 |
| 152-11512 | BT50H140-2525R | 50 | 25 | 140 | 90 | 50 | 120 |
| 152-21504 | BT50H140-2525L | 50 | 25 | 140 | 90 | 50 | 120 |

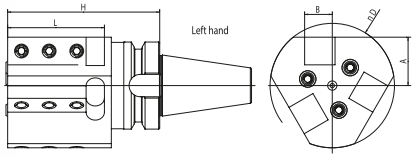
## DOUBLE CONTACT TRIPLE SQUARE TOOLHOLDER
## DOPPELKONTAKT DREIFACH-VIERKANTWERKZEUGHALTER
## ОПРАВКА ДК С ТРОЙНЫМ КВАДРАТОМ
## PORTABARENO TRIPLO DOPPIO CONTATTO
## PORTE OUTIL CARRÉ À DOUBLE CONTACT TRIPLE
## 双触面三方刀柄

**MAS 403/BT**







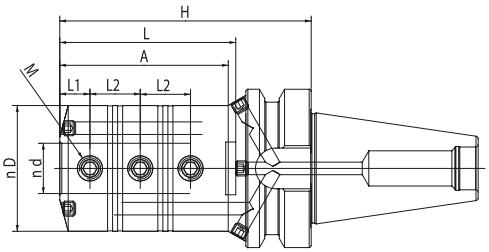




| Code N. | DESCRIPTION | ISO | B | H | L | A | D |
|---|---|---|---|---|---|---|---|
| 152-11513 | BT40H110-3X2020R | 40 | 20 | 110 | 70 | 35 | 90 |
| 152-21505 | BT40H110-3X2020L | 40 | 20 | 110 | 70 | 35 | 90 |
| 152-11514 | BT50H140-3X2525R | 50 | 25 | 140 | 90 | 50 | 120 |
| 152-21506 | BT50H140-3X2525L | 50 | 25 | 140 | 90 | 50 | 120 |

## DOUBLE CONTACT BORING BAR HOLDER
## DOPPELKONTAKT BOHRSTANGENHALTER
## ОПРАВКА ДК ДЛЯ РАСТОЧНЫХ РЕЗЦОВ
## PORTABARENO DOPPIO CONTATTO
## PORTE OUTIL POUR BARRES D'ALESAGES À DOUBLE CONTACT
## 双触面镗刀柄

**MAS 403/BT**






| CODE N. | DESCRIPTION | ISO | d | D | H | L1 | L2 | L | A | M | PlugA | PlugB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 155-21518 | BT40H80D10BSL | 40 | 10 | 29 | 80 | 8 | 12 | 50 | 45 | M8x1 | M6x5 | M5x5 |
| 155-21519 | BT40H90D12BSL | 40 | 12 | 34 | 90 | 8 | 16 | 55 | 53 | M8x1 | M6x5 | M6x5 |
| 155-21520 | BT40H100D16BSL | 40 | 16 | 40 | 100 | 10 | 21 | 68 | 65 | M10x1,25 | M6x5 | M6x5 |
| 155-21521 | BT40H100D20BSL | 40 | 20 | 50 | 100 | 12 | 20 | 70 | 67 | M10x1,25 | M6x5 | M6x5 |
| 155-21522 | BT40H110D25BSL | 40 | 25 | 55 | 110 | 14 | 23 | 74 | 83 | M12x1,5 | M8x8 | M6x5 |
| 155-21523 | BT40H125D32BSL | 40 | 32 | 64 | 125 | 16 | 26 | 83 | - | M12x1,5 | M8x8 | M6x5 |
| 155-21524 | BT50H100D12BSL | 50 | 12 | 34 | 100 | 8 | 16 | 55 | 53 | M8x1 | M6x5 | M6x5 |
| 155-21525 | BT50H105D16BSL | 50 | 16 | 40 | 105 | 10 | 21 | 68 | 61 | M10x1,25 | M6x5 | M6x5 |
| 155-21526 | BT50H110D20BSL | 50 | 20 | 50 | 110 | 12 | 20 | 70 | 60 | M10x1,25 | M6x5 | M6x5 |
| 155-21527 | BT50H120D25BSL | 50 | 25 | 55 | 120 | 14 | 23 | 74 | 70 | M12x1,5 | M8x8 | M6x5 |
| 155-21528 | BT50H125D32BSL | 50 | 32 | 64 | 125 | 16 | 26 | 83 | 80 | M12x1,5 | M8x8 | M6x5 |

## ASSEMBLY SUPPORTS SUPPORTO DI MONTAGGIO
## MONTAGEBLOCK SUPPORTS D'ASSEMBLAGE
## СТОЙКА ДЛЯ СБОРКИ ИНСТРУМЕНТА 支撑组件

It is very useful for all assembly and disassembly operations of the tools on the toolholders, either in horizontal or in vertical position. This process is carried out without any risk to damage casually the tool or the toolholder. It is a very simple system suitable for monolithic toolholders.

Consente di effettuare tutte le operazioni di montaggio e smontaggio degli utensili sui mandrini, sia in orizzontale che in verticale. Questi procedimenti avvengono con razionalitá, sicurezza, rapiditá e senza alcun rischio di danneggiare il mandrino o l'utensile. È il sistema che offre la massima semplicitá d'uso per i mandrini monolitici.

Dieses unkompliziertes System erlaubt die schnelle und sichere Montage und Demontage von Steilkegelaufnahmen in horizontaler und vertikaler Lage. Das Risiko der Werkzeugbeschädigung ist ausgeschlossen. Dieses einfache und sichere System eignet sich für alle Steilkegelaufnahmen.

Il permets d'effectuer toutes les opérations de montage / assemblage / démontage des outils sur les mandrins. Ces proces se déroulent avec rationalité, sureté, vitesse et sans aucun risque d'endommagement accidentel du mandrin ou de l'outil. C'est un systéme qui offre la plus haute simplicité d'usage et il est bien indiqué pour les mandrin monolitiques.

Приспособление очень удобно для операций сборки и демонтажа инструмента, как в вертикальном, так и в горизонтальном положении. Оно позволяет избежать повреждения оправок или режущего инструмента. Это простое приспособление подходит для монолитных оправок.

它对于所有将工具以垂直或水平方向安装在刀柄上和从刀柄上拆除，均非常有用。这一过程的执行不会对工具或刀柄产生任何破坏的风险。这一非常简单的系统适用于整体式刀柄。

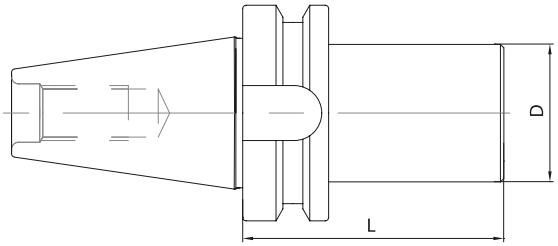


| CODE N. | ISO | ATTACK |
|---|---|---|
| 237-33320 | 40 | DIN 69871-DOUBLE CONTACT |
| 237-33520 | 50 | DIN 69871-DOUBLE CONTACT |
| 237-33120 | 30 | MAS 403/BT-DOUBLE CONTACT |
| 237-33330 | 40 | MAS 403/BT-DOUBLE CONTACT |
| 237-33530 | 50 | MAS 403/BT-DOUBLE CONTACT |



## BLANK TOOLHOLDER WITH SOFT SHANK MANDRINI SEMILAVORATI A STELO TENERO
## ROHLINGE MIT WEICHEM SCHAFT BARRES D'ALESAGE SEMI-FINIES
## ЗАГОТОВКИ ДЛЯ ОПРАВОК НЕЗАКАЛЕННЫЕ 带软柄的切断刀柄

**MAS BT**



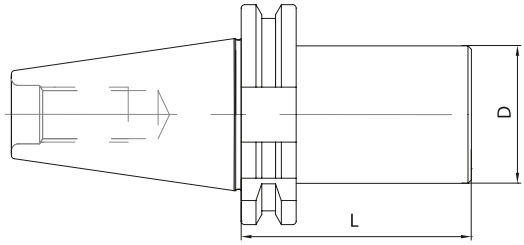

HRC26-28



| CODE N. | DESCRIPTION | ISO | D | L |
|---|---|---|---|---|
| 217-47201 | BT30H160D52SM | 30 | 52 | 160 |
| 217-47202 | BT40H160D63.5SM | 40 | 63.5 | 160 |

## BLANK TOOLHOLDER WITH SOFT SHANK MANDRINI SEMILAVORATI A STELO TENERO
## ROHLINGE MIT WEICHEM SCHAFT BARRES D'ALESAGE SEMI-FINIES
## ЗАГОТОВКИ ДЛЯ ОПРАВОК НЕЗАКАЛЕННЫЕ 带软柄的切断刀柄

**DIN69871**



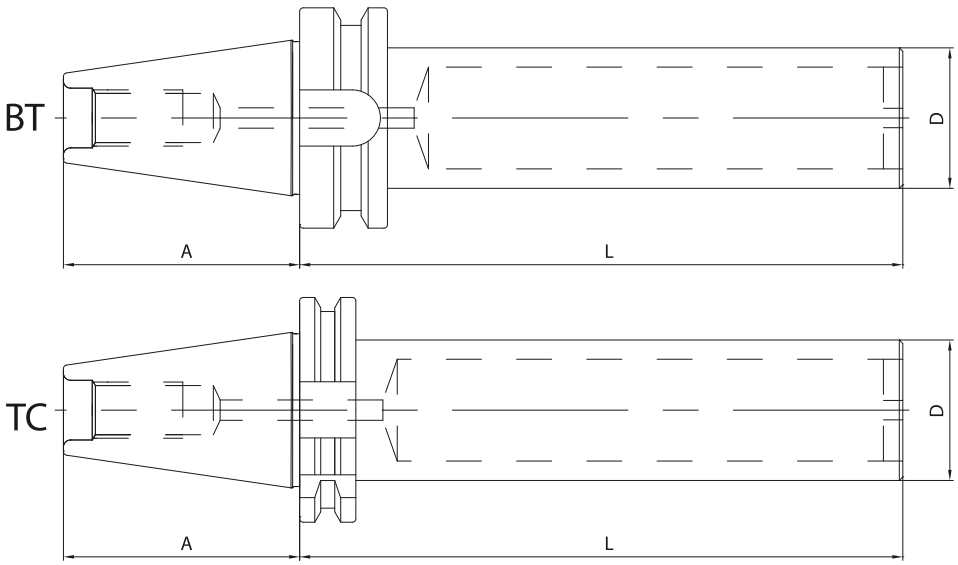

HRC26-28



| CODE N. | DESCRIPTION | ISO | D | L |
|---|---|---|---|---|
| 217-47101 | TC40H160D63.5SM | 40 | 63.5 | 160 |

CONTROL PINS BARRE DI CONTROLLO
PRÜFDORNE BARRES DE CONTROLE
КОНТРОЛЬНЫЕ ЦИЛИНДРЫ 测试棒

## DIN 69871 A - MAS 403BT




| CODE N. | DESCRIPTION | ISO | D | L | A |
|---|---|---|---|---|---|
| 217-77203 | BT30H200D30BCDK | 30 | 30 | 200 | 49,4 |
| 217-77204 | BT40H300D40BCDK | 40 | 40 | 300 | 66,4 |
| 217-77205 | BT50H350D50BCDK | 50 | 50 | 350 | 103,3 |
| 217-77101 | TC40H300D40BCDK | 40 | 40 | 300 | 69,4 |
| 217-77102 | TC50H350D50BCDK | 50 | 50 | 350 | 103,25 |



SUPPLIED IN ALUMINUM SUITCASE AND WITH TEST CERTIFICATE.
FORNITE IN VALIGETTA IN ALLUMINIO E CON CERTIFICATO DI COLLAUDO.
IM ALUMINIUMKOFFER UND MIT MESSPROTOKOLL GELIEFERT.
FOURNIES DANS UNE MALLETTE EN ALUMINIUM ET AVEC CERTIFICAT DE CONTRÔLE.
ПОСТАВЛЯЮТСЯ В АЛЮМИНИЕВОМ ЯЩИКЕ С СЕРТИФИКАТОМ СООТВЕТСТВИЯ.
提供铝盒包装和检验报告



**MAIN PRODUCTION PLANT** - KINTEK TOOLING KFT - BEKESCSABA - HUNGARY


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COMPONENTI INNOVATIVI TECNOMECCANICI