



MANDRINI TOOL HOLDER WERKZEUGAUFNAHMEN



MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



69871 ISO40...CAL...

PAG. 932

MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



69871 ISO40...CAL...R

PAG. 933

MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



69871 ISO50...CAL...

PAG. 934

MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



MAS403BT40..CAL...

PAG. 935

MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



MAS403BT40..CAL...R

PAG. 936

MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



MAS403BT50..CAL...

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MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



69893HSK63...CAL...

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MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



69893HSK63...CAL...R

PAG. 939

MANDRINI A CALETTAMENTO

Shrink fit chucks
Schrumpffutter



69893HSK100...CAL...

PAG. 940

MACCHINA A CALETTARE

Shrink fit machine
Schrumpfgerät



HOT

PAG. 941

RICAMBI E ACCESSORI

Spare parts and components
Ersatzteile und Zubehör



HOT

PAG. 942

MANDRINI A FORTE SERRAGGIO

Heavy-duty chucks
Kraftspannfutter



FS 69871...D...

PAG. 944

PORTA PINZE

Collet chucks
ER-Spannzangenfutter



DC 69871...ER...

PAG. 945

PORTA PINZE

Collet chucks
ER-Spannzangenfutter

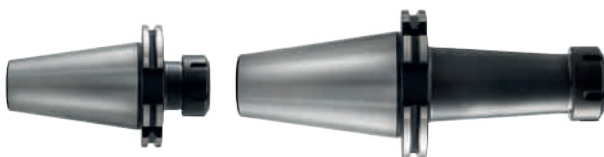


GL 69871...ER...

PAG. 946

PORTA PINZE

Collet chucks
ER-Spannzangenfutter



69871...ER...

PAG. 947

MANDRINI CM PER FRESE

Morse taper milling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2C
MK-Schäfte mit Anzugsgewinde



69871...CM...PF

PAG. 949

MANDRINI CM PER PUNTE

Morse taper drilling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2D MK-Schäfte



69871...CM...PP

PAG. 950

MANDRINI WELDON

Weldon chucks
Spannfutter Weldon



DC 69871...WE...

PAG. 951

MANDRINI WELDON RIDOTTI

Reduced Weldon chucks
Reduziert Spannfutter Weldon



69871...WE...A...

PAG.952

MANDRINI WELDON

Weldon chucks
Spannfutter Weldon



69871...WE...

PAG. 953

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



DC 69871...PF...

PAG.955

PORTA FRESE MAGGIORATI

Increased milling cutters holders
Aufsteckfräserdorn mit größerer Auflagefläche



69871...PF...A...

PAG. 956

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



69871...PF

PAG. 957

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



69871...PF...4F

PAG. 958

PORTA FRESE ANTIVIBRANTI

*Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme
für Einschraubfräser*



69871...PF...

PAG. 959

PORTA TESTINE AD ATTACCO FILETTATO

*Collet for screw-in milling heads
Werkzeugaufnahme für
Einschraubfräser*



69871...M...

PAG. 962

**PORTA TESTINE AD ATTACCO FILETTATO
ANTIVIBRANTI**

*Anti-vibration collet for screw-in milling heads
Schwingungsgedämpfte Werkzeugaufnahme für
Einschraubfräser*



69871...M...

PAG. 963

MANDRINO CON STELO TENERO LAVORABILE

*Boring bar blanks with soft body
Rohling-Werkzeugaufnahme*



69871...STL...

PAG. 965

MANDRINI A FORTE SERRAGGIO

*Heavy-duty chucks
Kraftspannfutter*



FS MAS403 BT...D...

PAG. 966

PORTA PINZE

*Collet chucks
ER-Spannzangenfutter*



DC MAS403 BT...ER...

PAG. 967

PORTA PINZE

*Collet chucks
ER-Spannzangenfutter*



MAS403 BT...ER

PAG. 968

MANDRINI CM PER FRESE

*Morse taper milling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2
MK-Schäfte mit
Anzugsgewinde*



MAS403 BT...CM...PF

PAG. 970

MANDRINI CM PER PUNTE

Morse taper drilling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2D MK-Schäfte

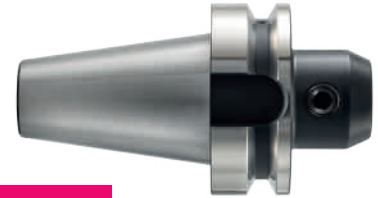


MAS403 BT...CM..PP

PAG. 971

MANDRINI WELDON

Weldon chucks
Spannfutter Weldon



DC MAS403 BT...WE...

PAG. 972

MANDRINI WELDON RIDOTTI

Reduced Weldon chucks
Reduziert Spannfutter Weldon

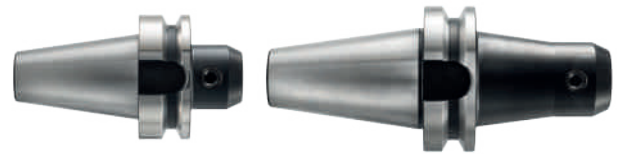


MAS403 BT...WE...A...

PAG. 973

MANDRINI WELDON

Weldon chucks
Spannfutter Weldon



MAS403 BT...WE...

PAG. 974

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



DC MAS403 BT...PF...

PAG. 976

PORTA FRESE MAGGIORATI

Increased milling cutters holders
Aufsteckfräserdorn mit größerer Auflagefläche



MAS403 BT...PF...A...

PAG. 977

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



MAS403 BT...PF...

PAG. 978

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



MAS403 BT...PF...4F

PAG. 979

PORTA FRESE ANTIVIBRANTI

*Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme für
Einschraubfräser*



MAS403 BT...PF...

PAG. 980

PORTA TESTINE AD ATTACCO FILETTATO

*Collet for screw-in milling heads
Werkzeugaufnahme für Einschraubfräser*



MAS403 BT...M...

PAG. 982

**PORTA TESTINE AD ATTACCO FILETTATO
ANTIVIBRANTI**

*Anti-vibration collet for screw-in milling heads
Schwingungsgedämpfte Werkzeugaufnahme für
Einschraubfräser*



MAS403 BT...M...

PAG. 983

PORTA PINZE

*Collet chucks
ER-Spannzangenfutter*



DIN2080...ER...

PAG. 984

MANDRINI CM PER FRESE

*Morse taper milling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2C
MK-Schäfte mit Anzugsgewinde*



DIN2080...CM...PF

PAG. 985

MANDRINI CM PER PUNTE

*Morse taper milling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2D MK-Schäfte*



DIN2080...CM...PP

PAG. 986

PORTA FRESE

*Milling cutters holders
Aufsteckfräserdorn*



DIN2080...PF...

PAG. 987

PORTA FRESE

*Milling cutters holders
Aufsteckfräserdorn*



DIN2080...PF...4F

PAG. 988

MANDRINI A FORTE SERRAGGIO

Heavy-duty chucks
Kraftspannfutter



FS 69893HSK...D...

PAG. 989

PORTA PINZE

Collet chucks
ER-Spannzangenfutter



GL 69893HSK...ER...

PAG. 990

PORTA PINZE

Collet chucks
ER-Spannzangenfutter



69893HSK...ER...

PAG. 991

MANDRINI CM PER FRESE

Morse taper milling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2C
MK-Schäfte mit
Anzugsgewinde



69893HSK...CM...PF

PAG. 993

MANDRINI CM PER PUNTE

Morse taper milling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2D MK-Schäfte



69893HSK...CM...PP

PAG. 994

MANDRINI WELDON RIDOTTI

Reduced Weldon chucks
Reduziert Spannfutter Weldon



69893HSK...WE...A...

PAG. 995

MANDRINI WELDON

Weldon chucks
Spannfutter Weldon



69893HSK...WE...

PAG. 996

PORTA FRESE

Milling cutters holders
Aufsteckfräserdorn



69893HSK...PF...

PAG. 998

PORTA FRESE ANTIVIBRANTI

Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme für
Einschraubfräser



69893 HSK...PF...

PAG. 999

PORTA TESTINE AD ATTACCO FILETTATO

Collet for screw-in milling heads
Werkzeugaufnahme für
Einschraubfräser



69893 HSK...M...

PAG. 1001

MANDRINO CON STELO TENERO LAVORABILE

Boring bar blanks with soft body
Rohling-Werkzeugaufnahme



69893 HSK...STL...

PAG. 1003

PORTA PINZE GAMBO CILINDRICO

Collet chucks with cylindrical shank
Spannzangenfutter mit Zylinderschaft



O...ER...L...

PAG. 1004

BUSSOLE PER MANDRINI A FORTE SERRAGGIO

High clamping chucks collets
Reduzierhülsen für Kraftspannfutter



4 FS...

PAG. 1005

PINZE ELASTICHE "ER"

Elastic ER spring collets
ER-Spannzange

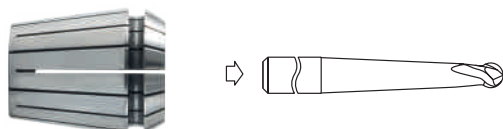


ER...D...

PAG. 1006

PINZE ELASTICHE "ER" ULTRAPRECISE A TENUTA MECCANICA

Elastic ER great precision mechanical sealed collets
ER-Spannzange (Präzisionsausführung)
"mechanisch" abgedichtet

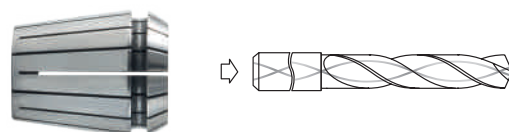


ERP...D...

PAG. 1007

PINZE ELASTICHE "ER" ULTRAPRECISE A TENUTA

Elastic ER great precision sealed collets
ER-Spannzange (Präzisionsausführung) abgedichtet

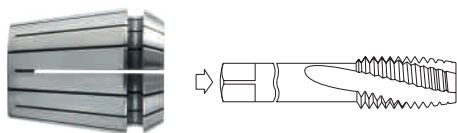


ERT...D...

PAG. 1008

PINZE ELASTICHE "ER" PORTAMASCHI

*Elastic ER tapping collets
ER-Spannzange mit Innenvierkant*



ERM...D...

PAG. 1009

SERIE DI PINZE

*Clamping nuts
Holzkästen für Spannzangen*



BX-ER...

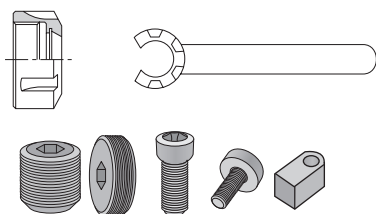
PAG. 1010

BX-ERP...

PAG. 1010

PARTI DI RICAMBIO

*Spare parts
Ersatzteile*



RICAMBI

PAG. 1011

BUSSOLE ECCENTRICHE PER DISASSARE PUNTE AD INSERTI

*Eccentric collets for misalign indexable drills
Exzentrische Reduzierhülsen für Fehlausrichtung von Wendepplattenbohrern*



PRB...

PAG. 1013

CODOLI

*Drawbolts
Reduzier-Zylinderschaftaufnahme (Weldon)*



CDL...

PAG. 1014-1016

ADDUTTORI PER REFRIGERANTE

*Coolant pipes
Kühlmittelübergaberohr*



APR HSK...

PAG. 1017

SMONTACONI

*Disassemble toll for chucks
Montagevorrichtung für
Werkzeugaufnahme*



SMONTA

PAG. 1018

MASCHIATORI PER MASCHIATURA RIGIDA SINCRONIZZATA

*Tapping chucks for synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich*



MRS 69871...

PAG. 1020

MASCHIATORI PER MASCHIATURA RIGIDA SINCRONIZZATA

*Tapping chucks for synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich*



MRS MAS403 BT...

PAG. 1020

MASCHIATORI PER MASCHIATURA RIGIDA SINCRONIZZATA

*Tapping chucks for synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich*



MRS DIN1835...

PAG. 1021

MASCHIATORI PER MASCHIATURA RIGIDA SINCRONIZZATA

*Tapping chucks for synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich*



MRS 69893 HSK...

PAG. 1021

BUSSOLE PER MASCHIATURA RIGIDA SINCRONIZZATA

*Bush for rigid synchronized tapping
Einsatz für Synchron-Gewindeschneidfutter*



BMRS M...ER...

PAG. 1022

SISTEMA MODULARE PER MASCHIATURA RIGIDA SINCRONIZZATA

*Modular system for rigid synchronized tapping
Modulares System für Synchron-Gewindeschneidfutter*



AMRS...M... / PMRS...M... / TMRS...M...ER...

PAG. 1023

PORTAMASCHI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE ASSIALE

*Quick change tapping chucks with double length compensation
Gewindebohrer-Schnellwechselfutter mit Längenausgleich auf
Zug und Druck*



69871...M...

PAG. 1024

PORTAMASCHI A CAMBIO RAPIDO SENZA DOPPIA COMPENSAZIONE ASSIALE E CON PASSAGGIO LUBRIFICANTE
*Quick change tapping chucks without axial compensation and with
coolant flow
Gewindebohrer-Schnellwechselfutter ohne Längenausgleich
mit Kühlschmiermittel*



69871...M...NC

PAG. 1024

PORTAMASCHI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE ASSIALE

*Quick change tapping chucks with double length compensation
Gewindebohrer-Schnellwechselfutter mit Längenausgleich auf
Zug und Druck*



MAS403...M...

PAG. 1025

PORTAMASCHI A CAMBIO RAPIDO SENZA DOPPIA COMPENSAZIONE ASSIALE E CON PASSAGGIO LUBRIFICANTE
Quick change tapping chucks without axial compensation and with coolant flow
Gewindebohrer-Schnellwechselfutter ohne Längenausgleich mit Kühlschmiermittel



MAS403...M...NC

PAG. 1025

PORTAMASCHI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE ASSIALE

Quick change tapping chucks with double length compensation
Gewindebohrer-Schnellwechselfutter mit Längenausgleich auf Zug und Druck



DIN228-B...CM...M...

PAG. 1026

PORTAMASCHI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE ASSIALE

Quick change tapping chucks with double length compensation
Gewindebohrer-Schnellwechselfutter mit Längenausgleich auf Zug und Druck



DIN1835B-E...M...

PAG. 1026

PORTAMASCHI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE ASSIALE CON PASSAGGIO LUBRIFICANTE

Quick change tapping chucks with double length compensation and with coolant flow
Gewindebohrer-Schnellwechselfutter mit Längenausgleich auf Zug und Druck und mit Kühlschmiermittel



69893HSK...M...

PAG. 1027

PORTAMASCHI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE ASSIALE, ALTEZZA RIDOTTA, PESO RIDOTTO

Quick change tapping chucks with double length compensation, reduced height, reduced weight
Gewindebohrer-Schnellwechselfutter mit Längenausgleich auf Zug und Druck; Höhe und Gewicht reduziert



69893HSK...M...C

PAG. 1027

PORTAMASCHI A CAMBIO RAPIDO SENZA COMPENSAZIONE ASSIALE E PASSAGGIO LUBRIFICANTE

Quick change tapping chucks without compensation and with coolant flow
Gewindebohrer-Schnellwechselfutter ohne Längenausgleich mit Kühlschmiermittel



69893HSK...M...NC

PAG. 1028

BUSSOLE PER MASCHIARE CON E SENZA FRIZIONE

Tapping collets with and without friction clutch
Schnellwechseleinsatz für Gewindebohrer



M...CF...

PAG. 1029-1030



M...SF...

PAG. 1031-1032

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INHALT

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME



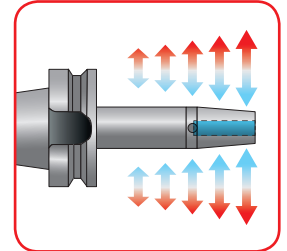
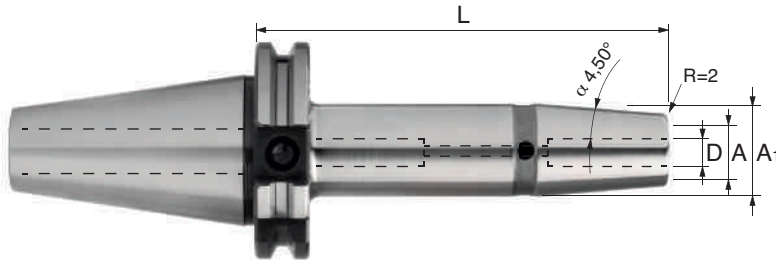
INDEX

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871 ISO40...CAL...

DIN 69871 AD/B

CAL



69871 ISO40...CAL...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|-------------------------------|--------------------------------|-----|------|----------------|
| | D | L | A | A ₁ |
| 69871 ISO40 L080 CAL03 | 3 | 80 | 10 | 20 |
| L130 CAL03 | 3 | 130 | 10 | 20 |
| L160 CAL03 | 3 | 160 | 10 | 20 |
| L080 CAL04 | 4 | 80 | 15 | 25 |
| L130 CAL04 | 4 | 130 | 15 | 25 |
| L160 CAL04 | 4 | 160 | 15 | 25 |
| L080 CAL06 | 6 | 80 | 17,3 | 27 |
| L130 CAL06 | 6 | 130 | 17,3 | 27 |
| L160 CAL06 | 6 | 160 | 17,3 | 27 |
| L080 CAL08 | 8 | 80 | 17,3 | 27 |
| L130 CAL08 | 8 | 130 | 17,3 | 27 |
| L160 CAL08 | 8 | 160 | 17,3 | 27 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|-------------------------------|--------------------------------|-----|------|----------------|
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| L130 CAL10 | 10 | 130 | 20,3 | 32 |
| L160 CAL10 | 10 | 160 | 20,3 | 32 |
| L080 CAL12 | 12 | 80 | 20,3 | 32 |
| L130 CAL12 | 12 | 130 | 20,3 | 32 |
| L160 CAL12 | 12 | 160 | 20,3 | 32 |
| L080 CAL16 | 16 | 80 | 23,3 | 34 |
| L130 CAL16 | 16 | 130 | 23,3 | 34 |
| L160 CAL16 | 16 | 160 | 23,3 | 34 |
| L090 CAL20 | 20 | 90 | 28,3 | 42 |
| L130 CAL20 | 20 | 130 | 28,3 | 42 |
| L160 CAL20 | 20 | 160 | 28,3 | 42 |

| | |
|--|-----------------------------|
| BILANCIATO BALANCED / AUSGEWUCHTET | G. 2.5 25.000 g/min. |
| EXTRA PRECISO EXTRA-PRECISE / ULTRA PRÄZIS | 0,003 mm |

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C° ~ 500 C°



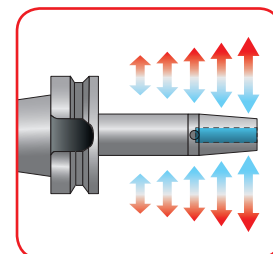
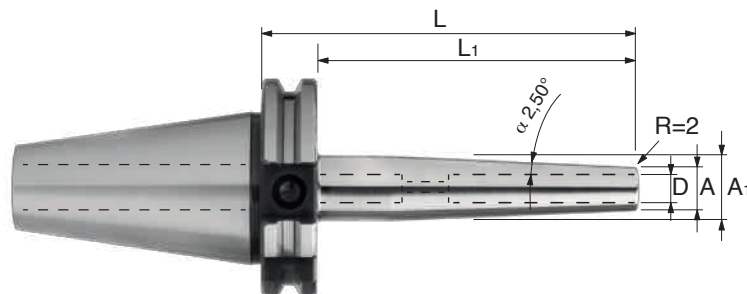
ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69871ISO40 L160 CAL10

69871 ISO40...CAL...R

DIN 69871 AD/B

CAL



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | | |
|----------------|--------------------------------|---|----------------|-------|----------------|----|
| | D | L | L ₁ | A | A ₁ | |
| 69871 ISO40 | L080 CAL03 R | 3 | 80 | 52 | 9 | 13 |
| | L130 CAL03 R | 3 | 130 | 92 | 9 | 15 |
| | L160 CAL03 R | 3 | 160 | 122 | 9 | 15 |
| L080 CAL04 R | L080 CAL04 R | 4 | 80 | 52 | 10 | 15 |
| | L130 CAL04 R | 4 | 130 | 92 | 10 | 15 |
| | L160 CAL04 R | 4 | 160 | 122 | 10 | 15 |
| L080 CAL06 R | L080 CAL06 R | 6 | 80 | 60,9 | 11,0 | 17 |
| | L130 CAL06 R | 6 | 130 | 110,9 | 11 | 19 |
| | L160 CAL06 R | 6 | 160 | 140,9 | 11 | 19 |
| L080 CAL08 R | L080 CAL08 R | 8 | 80 | 60,9 | 13,0 | 19 |
| | L130 CAL08 R | 8 | 130 | 110,9 | 13 | 21 |
| | L160 CAL08 R | 8 | 160 | 140,9 | 13 | 21 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | | |
|----------------|--------------------------------|----|----------------|-------|----------------|----|
| | D | L | L ₁ | A | A ₁ | |
| 69871 ISO40 | L080 CAL10 R | 10 | 80 | 60,9 | 15,0 | 21 |
| | L130 CAL10 R | 10 | 130 | 110,9 | 15 | 23 |
| | L160 CAL10 R | 10 | 160 | 140,9 | 15 | 23 |
| L080 CAL12 R | L080 CAL12 R | 12 | 80 | 60,9 | 17,0 | 23 |
| | L130 CAL12 R | 12 | 130 | 110,9 | 17 | 25 |
| | L160 CAL12 R | 12 | 160 | 140,9 | 17 | 25 |
| L080 CAL16 R | L080 CAL16 R | 16 | 80 | 60,9 | 23,0 | 29 |
| | L130 CAL16 R | 16 | 130 | 110,9 | 23 | 31 |
| | L160 CAL16 R | 16 | 160 | 140,9 | 23 | 31 |
| L080 CAL20 R | L080 CAL20 R | 20 | 80 | 60,9 | 27,0 | 33 |
| | L130 CAL20 R | 20 | 130 | 110,9 | 27 | 35 |
| | L160 CAL20 R | 20 | 160 | 140,9 | 27 | 35 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°



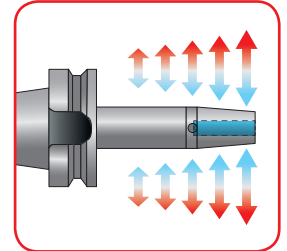
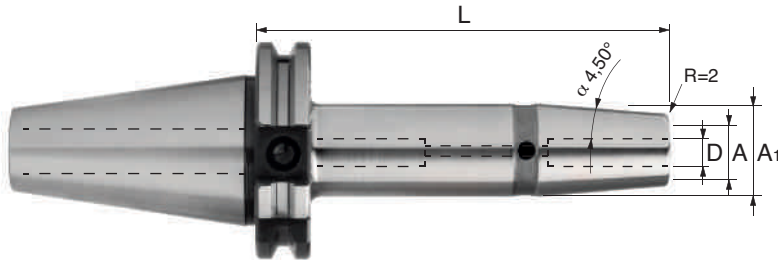
ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69871ISO40 L160 CAL08 R

69871 ISO50...CAL...

DIN 69871 AD/B

CAL



69871 ISO50 ...CAL...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|-------------------------------|--------------------------------|-----|----|----------------|
| | D | L | A | A ₁ |
| 69871 ISO50 L080 CAL03 | 3 | 80 | 10 | 20 |
| L120 CAL03 | 3 | 120 | 10 | 20 |
| L160 CAL03 | 3 | 160 | 10 | 20 |
| L080 CAL04 | 4 | 80 | 15 | 25 |
| L120 CAL04 | 4 | 120 | 15 | 22 |
| L160 CAL04 | 4 | 160 | 15 | 22 |
| L080 CAL06 | 6 | 80 | 20 | 27 |
| L120 CAL06 | 6 | 120 | 20 | 27 |
| L160 CAL06 | 6 | 160 | 20 | 27 |
| L080 CAL08 | 8 | 80 | 20 | 27 |
| L120 CAL08 | 8 | 120 | 20 | 27 |
| L160 CAL08 | 8 | 160 | 20 | 27 |
| L080 CAL10 | 10 | 80 | 24 | 31 |
| L120 CAL10 | 10 | 120 | 24 | 31 |
| L160 CAL10 | 10 | 160 | 24 | 31 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|-------------------------------|--------------------------------|-----|----|----------------|
| | D | L | A | A ₁ |
| 69871 ISO50 L080 CAL12 | 12 | 80 | 24 | 31 |
| L120 CAL12 | 12 | 120 | 24 | 31 |
| L160 CAL12 | 12 | 160 | 24 | 31 |
| L080 CAL16 | 16 | 80 | 27 | 34 |
| L120 CAL16 | 16 | 120 | 27 | 34 |
| L160 CAL16 | 16 | 160 | 27 | 34 |
| L080 CAL20 | 20 | 80 | 33 | 40 |
| L120 CAL20 | 20 | 120 | 33 | 40 |
| L160 CAL20 | 20 | 160 | 33 | 40 |
| L100 CAL25 | 25 | 100 | 44 | 53 |
| L120 CAL25 | 25 | 120 | 44 | 53 |
| L160 CAL25 | 25 | 160 | 44 | 53 |
| L100 CAL32 | 32 | 100 | 44 | 53 |
| L120 CAL32 | 32 | 120 | 44 | 53 |
| L160 CAL32 | 32 | 160 | 44 | 53 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°



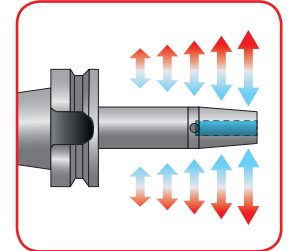
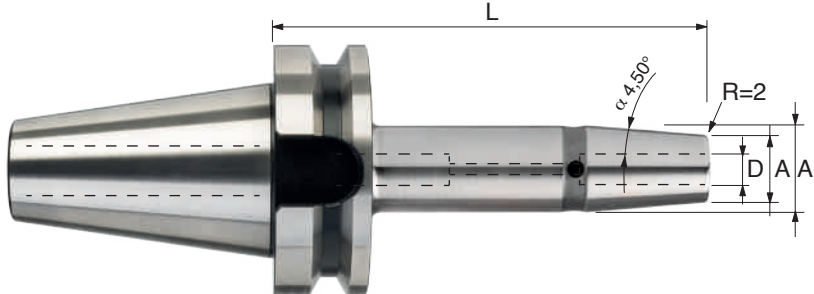
ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69871ISO50 L160 CAL32

MAS403 BT40...CAL...

MAS403 BT

CAL



MAS403 BT40 ... CAL...

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|------------------------|--------------------------------|-----|----|----------------|
| | D | L | A | A ₁ |
| MAS403 BT40 L090 CAL03 | 3 | 90 | 10 | 20 |
| L120 CAL03 | 3 | 120 | 10 | 20 |
| L160 CAL03 | 3 | 160 | 10 | 20 |
| L090 CAL04 | 4 | 90 | 15 | 22 |
| L120 CAL04 | 4 | 120 | 15 | 22 |
| L160 CAL04 | 4 | 160 | 15 | 22 |
| L090 CAL06 | 6 | 90 | 21 | 27 |
| L130 CAL06 | 6 | 130 | 21 | 27 |
| L160 CAL06 | 6 | 160 | 21 | 27 |
| L090 CAL08 | 8 | 90 | 21 | 27 |
| L130 CAL08 | 8 | 130 | 21 | 27 |
| L160 CAL08 | 8 | 160 | 21 | 27 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|------------------------|--------------------------------|-----|----|----------------|
| | D | L | A | A ₁ |
| MAS403 BT40 L090 CAL10 | 10 | 90 | 24 | 32 |
| L130 CAL10 | 10 | 130 | 24 | 32 |
| L160 CAL10 | 10 | 160 | 24 | 32 |
| L090 CAL12 | 12 | 90 | 24 | 32 |
| L130 CAL12 | 12 | 130 | 24 | 32 |
| L160 CAL12 | 12 | 160 | 24 | 32 |
| L090 CAL16 | 16 | 90 | 27 | 34 |
| L130 CAL16 | 16 | 130 | 27 | 34 |
| L160 CAL16 | 16 | 160 | 27 | 34 |
| L090 CAL20 | 20 | 90 | 33 | 42 |
| L130 CAL20 | 20 | 130 | 33 | 42 |
| L160 CAL20 | 20 | 160 | 33 | 42 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°



ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

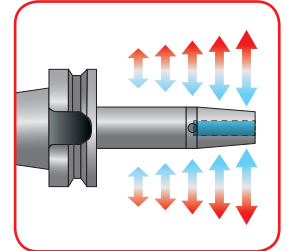
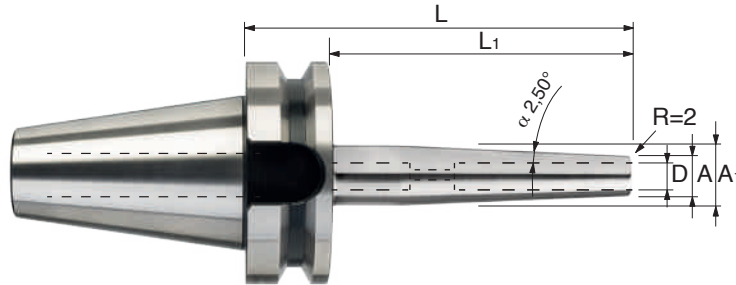
MAS403 BT40 L160 CAL20

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MAS403 BT40...CAL...R

MAS403 BT

CAL



MAS403 BT40...CAL...R

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|--------------------------|--------------------------------|-----|----------------|----|----------------|
| | D | L | L ₁ | A | A ₁ |
| MAS403 BT40 L090 CAL03 R | 3 | 90 | 63 | 9 | 13 |
| L120 CAL03 R | 3 | 120 | 93 | 9 | 16 |
| L090 CAL04 R | 4 | 90 | 63 | 10 | 15 |
| L120 CAL04 R | 4 | 120 | 93 | 10 | 15 |
| L090 CAL06 R | 6 | 90 | 63 | 12 | 17 |
| L130 CAL06 R | 6 | 130 | 103 | 12 | 19 |
| L160 CAL06 R | 6 | 160 | 133 | 12 | 19 |
| L090 CAL08 R | 8 | 90 | 63 | 14 | 19 |
| L130 CAL08 R | 8 | 130 | 103 | 14 | 21 |
| L160 CAL08 R | 8 | 160 | 133 | 14 | 21 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|--------------------------|--------------------------------|-----|----------------|----|----------------|
| | D | L | L ₁ | A | A ₁ |
| MAS403 BT40 L090 CAL10 R | 10 | 90 | 63 | 16 | 21 |
| L130 CAL10 R | 10 | 130 | 103 | 16 | 23 |
| L160 CAL10 R | 10 | 160 | 133 | 16 | 23 |
| L090 CAL12 R | 12 | 90 | 63 | 18 | 23 |
| L130 CAL12 R | 12 | 130 | 103 | 18 | 25 |
| L160 CAL12 R | 12 | 160 | 133 | 18 | 25 |
| L090 CAL16 R | 16 | 90 | 63 | 24 | 29 |
| L130 CAL16 R | 16 | 130 | 103 | 21 | 31 |
| L160 CAL16 R | 16 | 160 | 133 | 24 | 31 |
| L090 CAL20 R | 20 | 90 | 63 | 28 | 33 |
| L130 CAL20 R | 20 | 130 | 103 | 28 | 35 |
| L160 CAL20 R | 20 | 160 | 133 | 28 | 35 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°



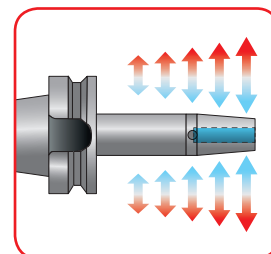
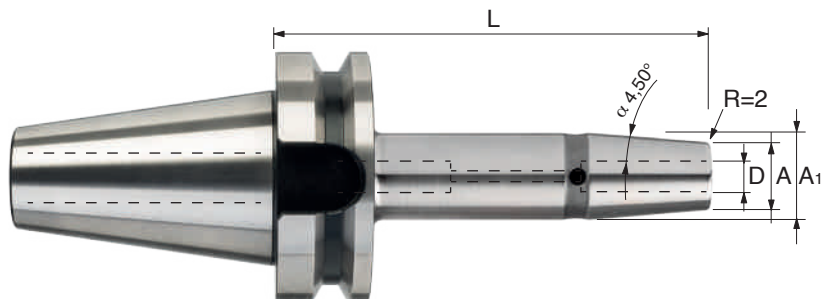
ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

MAS403 BT40 L160 CAL20 R

MAS403 BT50...CAL...

MAS403 BT

CAL



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|------------------------|--------------------------------|-----|----|----------------|
| | D | L | A | A ₁ |
| MAS403 BT50 L100 CAL03 | 3 | 100 | 10 | 20 |
| L120 CAL03 | 3 | 120 | 10 | 20 |
| L160 CAL03 | 3 | 160 | 10 | 20 |
| L100 CAL04 | 4 | 100 | 15 | 25 |
| L120 CAL04 | 4 | 120 | 15 | 22 |
| L160 CAL04 | 4 | 160 | 15 | 22 |
| L100 CAL06 | 6 | 100 | 20 | 27 |
| L120 CAL06 | 6 | 120 | 20 | 27 |
| L160 CAL06 | 6 | 160 | 20 | 27 |
| L100 CAL08 | 8 | 100 | 20 | 27 |
| L120 CAL08 | 8 | 120 | 20 | 27 |
| L160 CAL08 | 8 | 160 | 20 | 27 |
| L100 CAL10 | 10 | 100 | 24 | 31 |
| L120 CAL10 | 10 | 120 | 24 | 31 |
| L160 CAL10 | 10 | 160 | 24 | 31 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|------------------------|--------------------------------|-----|----|----------------|
| | D | L | A | A ₁ |
| MAS403 BT50 L100 CAL12 | 12 | 100 | 24 | 31 |
| L120 CAL12 | 12 | 120 | 24 | 31 |
| L160 CAL12 | 12 | 160 | 24 | 31 |
| L100 CAL16 | 16 | 100 | 27 | 34 |
| L120 CAL16 | 16 | 120 | 27 | 34 |
| L160 CAL16 | 16 | 160 | 27 | 34 |
| L090 CAL20 | 20 | 100 | 33 | 40 |
| L120 CAL20 | 20 | 120 | 33 | 40 |
| L160 CAL20 | 20 | 160 | 33 | 40 |
| L110 CAL25 | 25 | 110 | 44 | 53 |
| L120 CAL25 | 25 | 120 | 44 | 53 |
| L160 CAL25 | 25 | 160 | 44 | 53 |
| L110 CAL32 | 32 | 110 | 44 | 53 |
| L120 CAL32 | 32 | 120 | 44 | 53 |
| L160 CAL32 | 32 | 160 | 44 | 53 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°



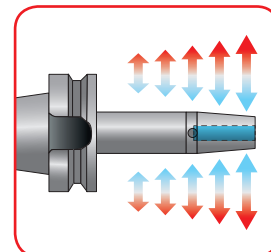
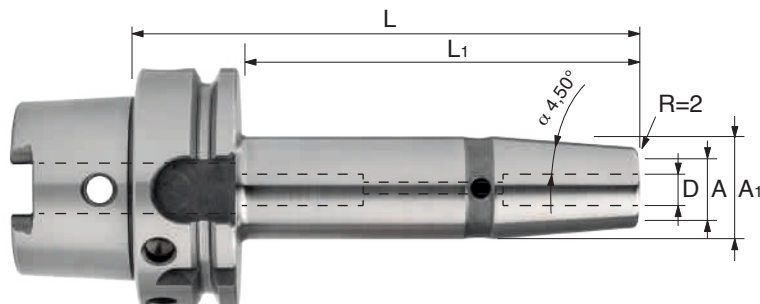
ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

MAS403 BT50 L160 CAL32

69893 HSK63A...CAL...

DIN 69893

CAL



69893 HSK63A...CAL...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|-------------------------|--------------------------------|-----|----------------|------|----------------|
| | D | L | L ₁ | A | A ₁ |
| 69893 HSK63A L090 CAL03 | 3 | 90 | 64 | 10 | 15 |
| L130 CAL03 | 3 | 130 | 104 | 10 | 20 |
| L160 CAL03 | 3 | 160 | 134 | 10 | 20 |
| L090 CAL04 | 4 | 90 | 64 | 15 | 22 |
| L130 CAL04 | 4 | 130 | 104 | 15 | 22 |
| L160 CAL04 | 4 | 160 | 134 | 15 | 22 |
| L090 CAL06 | 6 | 90 | 64 | 17,3 | 27 |
| L130 CAL06 | 6 | 130 | 104 | 17,3 | 27 |
| L160 CAL06 | 6 | 160 | 134 | 17,3 | 27 |
| L090 CAL08 | 8 | 90 | 64 | 17,3 | 27 |
| L130 CAL08 | 8 | 130 | 104 | 17,3 | 27 |
| L160 CAL08 | 8 | 160 | 134 | 17,3 | 27 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|-------------------------|--------------------------------|-----|----------------|------|----------------|
| | D | L | L ₁ | A | A ₁ |
| 69893 HSK63A L090 CAL10 | 10 | 90 | 64 | 20,3 | 32 |
| L130 CAL10 | 10 | 130 | 104 | 20,3 | 32 |
| L160 CAL10 | 10 | 160 | 134 | 20,3 | 32 |
| L090 CAL12 | 12 | 90 | 64 | 20,3 | 32 |
| L130 CAL12 | 12 | 130 | 104 | 20,3 | 32 |
| L160 CAL12 | 12 | 160 | 134 | 20,3 | 32 |
| L090 CAL16 | 16 | 90 | 64 | 23,3 | 34 |
| L130 CAL16 | 16 | 130 | 104 | 23,3 | 34 |
| L160 CAL16 | 16 | 160 | 134 | 23,3 | 34 |
| L100 CAL20 | 20 | 100 | 74 | 28,3 | 42 |
| L130 CAL20 | 20 | 130 | 104 | 28,3 | 42 |
| L160 CAL20 | 20 | 160 | 134 | 28,3 | 42 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°

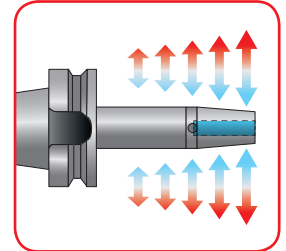
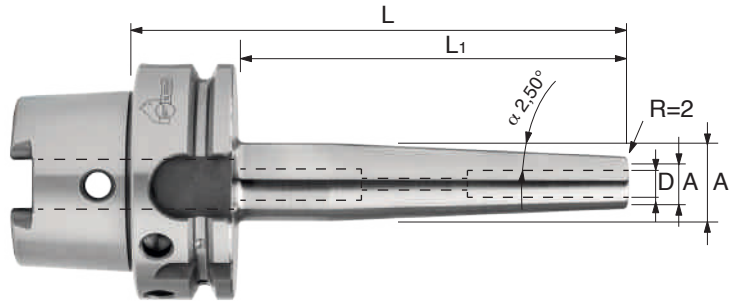


ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69893HSK63A L160 CAL10

69893 HSK63A...CAL...R DIN 69893

CAL



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|---------------------------|--------------------------------|-----|----------------|------|----------------|
| | D | L | L ₁ | A | A ₁ |
| 69893 HSK63A L090 CAL03 R | 3 | 90 | 64 | 9 | 13 |
| L130 CAL03 R | 3 | 130 | 104 | 9 | 15 |
| L160 CAL03 R | 3 | 160 | 134 | 9 | 15 |
| L090 CAL04 R | 4 | 90 | 64 | 10 | 15 |
| L130 CAL04 R | 4 | 130 | 104 | 10 | 15 |
| L160 CAL04 R | 4 | 160 | 134 | 10 | 15 |
| L090 CAL06 R | 6 | 90 | 64 | 10,1 | 17,4 |
| L130 CAL06 R | 6 | 130 | 104 | 10,1 | 19 |
| L160 CAL06 R | 6 | 160 | 134 | 10,1 | 19 |
| L090 CAL08 R | 8 | 90 | 64 | 12,1 | 19,4 |
| L130 CAL08 R | 8 | 130 | 104 | 12,1 | 21 |
| L160 CAL08 R | 8 | 160 | 134 | 12,1 | 21 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|---------------------------|--------------------------------|-----|----------------|------|----------------|
| | D | L | L ₁ | A | A ₁ |
| 69893 HSK63A L090 CAL10 R | 10 | 90 | 64 | 14,1 | 21,4 |
| L130 CAL10 R | 10 | 130 | 104 | 14,1 | 23 |
| L160 CAL10 R | 10 | 160 | 134 | 14,1 | 23 |
| L090 CAL12 R | 12 | 90 | 64 | 16,1 | 23,4 |
| L130 CAL12 R | 12 | 130 | 104 | 16,1 | 25 |
| L160 CAL12 R | 12 | 160 | 134 | 16,1 | 25 |
| L090 CAL16 R | 16 | 90 | 64 | 22,1 | 29,4 |
| L130 CAL16 R | 16 | 130 | 104 | 22,1 | 31 |
| L160 CAL16 R | 16 | 160 | 134 | 22,1 | 31 |
| L090 CAL20 R | 20 | 90 | 64 | 26,1 | 33,4 |
| L130 CAL20 R | 20 | 130 | 104 | 26,1 | 35 |
| L160 CAL20 R | 20 | 160 | 134 | 26,1 | 35 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C°~500 C°



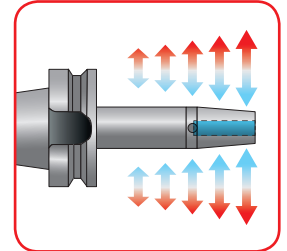
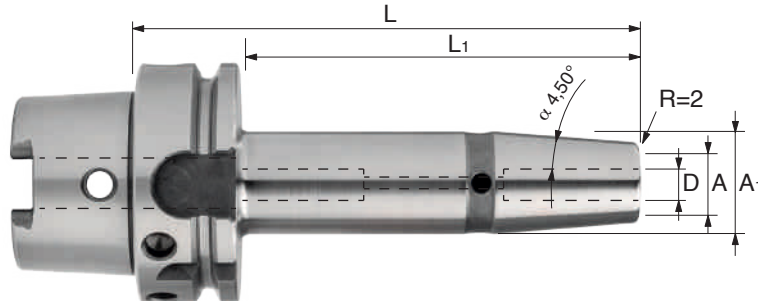
ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69893HSK63A L160 CAL16 R

69893 HSK100A...CAL...

DIN 69893

CAL



69893 HSK100A...CAL...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|--------------------------|--------------------------------|-----|----------------|----|----------------|
| | D | L | L ₁ | A | A ₁ |
| 69893 HSK100A L085 CAL06 | 6 | 85 | 56 | 20 | 27 |
| L130 CAL06 | 6 | 130 | 101 | 20 | 27 |
| L160 CAL06 | 6 | 160 | 131 | 20 | 27 |
| L085 CAL08 | 8 | 85 | 56 | 20 | 27 |
| L130 CAL08 | 8 | 130 | 101 | 20 | 27 |
| L160 CAL08 | 8 | 160 | 131 | 20 | 27 |
| L090 CAL10 | 10 | 90 | 61 | 24 | 31 |
| L130 CAL10 | 10 | 130 | 101 | 24 | 31 |
| L160 CAL10 | 10 | 160 | 131 | 24 | 31 |
| L095 CAL12 | 12 | 95 | 66 | 24 | 31 |
| L130 CAL12 | 12 | 130 | 101 | 24 | 31 |
| L160 CAL12 | 12 | 160 | 131 | 26 | 31 |

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | |
|--------------------------|--------------------------------|-----|----------------|----|----------------|
| | D | L | L ₁ | A | A ₁ |
| 69893 HSK100A L100 CAL16 | 16 | 100 | 71 | 27 | 34 |
| L130 CAL16 | 16 | 130 | 101 | 27 | 34 |
| L160 CAL16 | 16 | 160 | 131 | 27 | 34 |
| L105 CAL20 | 20 | 105 | 76 | 33 | 40 |
| L130 CAL20 | 20 | 130 | 101 | 33 | 40 |
| L160 CAL20 | 20 | 160 | 131 | 33 | 40 |
| L115 CAL25 | 25 | 115 | 86 | 44 | 53 |
| L130 CAL25 | 25 | 130 | 101 | 44 | 53 |
| L160 CAL25 | 25 | 160 | 131 | 44 | 53 |
| L130 CAL32 | 32 | 130 | 101 | 44 | 53 |
| L160 CAL32 | 32 | 160 | 131 | 44 | 53 |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 2.5 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 mm

Temperatura consigliata
Suggested temperature
empfohlene Temperatur

300 C° ~ 500 C°



ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69893HSK100A 160 CAL32

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Mandrini a calettamento
Shrink fit chucks
Schrumpffutter



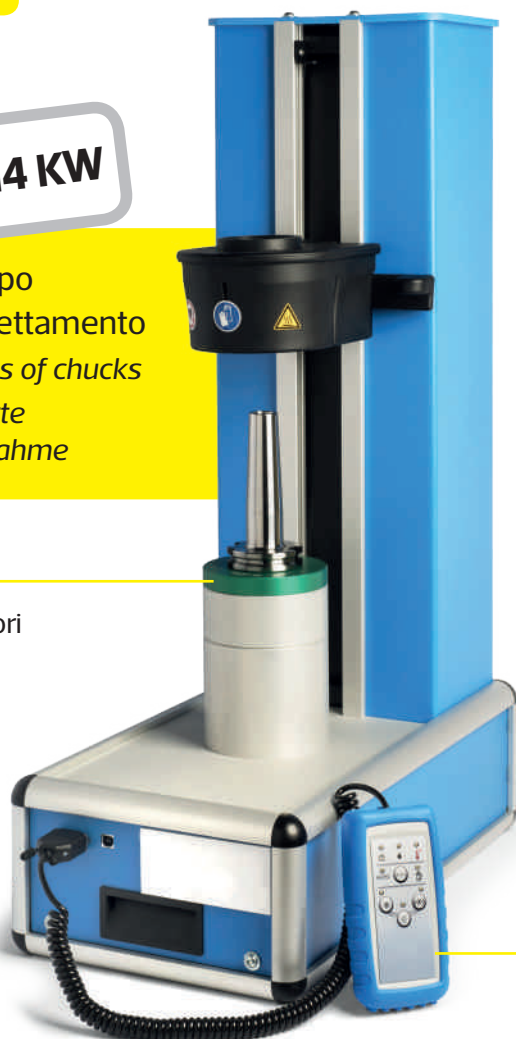
HOT

CAL

14 KW

Adatto per ogni tipo
di mandrino a calettamento
Suitable for all types of chucks
Geeignet für alle Arten
von Werkzeugaufnahme

Anelli induttori
Inductors Ring
Induktoring



DESCRIZIONE GENERALE
General description
Allgemeine Beschreibung

Lunghezza max. del mandrino:
340 mm
Maximum length of shrink fit chuck
Max. Länge des Schrumpffutters

Inclusi anelli induttori
Ø 6-12 e Ø 14-20
Inductors rings included
Induktivitäten Ringe enthalten

Telecomando
Remote Control
Fernbedienung

HOT

CARATTERISTICHE TECNICHE *TECHNICAL FEATURES / TECHNISCHE DATEN*

- Induzione autoregolata **14 KW** con microprocessore: **rilevamento automatico del diametro, configurazione automatica della potenza del riscaldamento** e riscaldamento cut-off.
Induction self-regulated 14 KW with microprocessor: automatic diameter detection, automatic configuration of the heating power and cut-off heating.
Die Induktion 14 KW mit Mikroprozessor selbstregulierte: automatische Erkennung des Durchmessers, automatische Konfiguration der Heiz- und Stromabschaltung Heizung.
- Riscaldamento e raffreddamento di qualsiasi tipo di strumento o materiale (in acciaio, HSS, carburo, inserti vari, metalli pesanti, utensili e portautensili).
Heating and cooling of any type of instrument or material (steel, HSS, carbide, various inserts, heavy metals, tools and tool holders).
Heizung und Kühlung jeder Art von Instrument oder Material (Stahl, HSS, Hartmetall, verschiedene Einsätze, Schwermetalle, Werkzeuge und Werkzeughalte).
- Capacità di calettamento: dal diametro 2 al diametro 40 mm, tolleranza h6, con lo stesso induttore.
Power Clamp Capacity: diameter 2 to 40 mm, tolerance h6, with the same inductor.
Power Clamp Kapazität: Durchmesser 2 bis 40 mm, Toleranz h6, mit dem gleichen Induktor.
- Durata del ciclo di calettamento: da 2 a 7 secondi.
Duration of the cooling cycle: from 2 to 7 seconds.
Dauer des Kühlzyklus: von 2 bis 7 Sekunden.
- Telecomando ergonomicamente e specificatamente progettato.
Ergonomically and specifically designed remote control.
Ergonomisch und speziell Fernbedienung.
- Concentratori avanzati di campi magnetici permettono il riscaldamento di utensili forniti con chip di codifica.
Advanced concentrators of magnetic fields allow the heating of tools supplied with code chip.
Erweiterte Konzentratoren von Magnetfeldern ermöglichen die Erwärmung von Werkzeugen mit Code-Chip geliefert.

HOT

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

HOT

CAL

DATI TECNICI

Technical Features / Technische Daten:

| | |
|--|---|
| Alimentazione: Mains voltage / Anschluss | 3 x 380V / 480 V – 50/60 Hz – 16A – 14kW |
| Spina inclusa Plug included / Stecker enthalten | CEI 60309-2 "3P+N+E" 400v/16° |
| Dimensioni Dimensions/Abmessungen | 255 mm x 482 mm x 755 mm |
| Peso Weight / Gewicht | 19 Kg. |
| Diametro di entrata per induttore Input diameter for inductor Eingangs Durchmesser für Induktor | 64-66 mm |
| Rotazione dell'induttore senza smontaggio Rotation of the inductor without disassembly Rotation des Induktors ohne Demontage | 180° |



ACCESSORI

Accessories / Zubehör



Supporto mandrino HOT
Chuck support HOT
Schrumpffutters Support HOT



Anello di stop per unità
di raffreddamento
Stop ring for coolant machine
Sperrungsring für Kühlsystem



Unità di raffreddamento non inclusa
Cooling System not included / Kühlsystem nicht enthalten

. Con l'unità di raffreddamento è necessario almeno un supporto mandrino (da ordinare separatamente).
. With the cooling unit needs at least one chuck support (ordered separately) / Mit dem Kühlsystem braucht man einen Schrumpffutter Support (separat zu bestellen).



Anello induttore HOT
Inductor Ring HOT
Induktoring HOT



Guanti in Kevlar HOT GK
Kevlar Gloves
Kevlar Handschuh

HOT

ACCESSORI

Accessories / Zubehöre

CAL

| CODICE / CODE | DESCRIZIONE | DESCRIPTION | BESCHREIBUNG | |
|---|-----------------------------|--|---|---|
|  | HOTISOBT50C | Supporto per mandrino ISO/BT 50 con codolo | Chuck support with drowbolts ISO/BT 50C | Schrumpffutters Support mit Anzugsbolzen ISO/BT 50C |
| | HOTISOBT50 | Supporto per mandrino ISO/BT 50 | Chuck support ISO/BT 50 | Schrumpffutters Support ISO/BT 50 |
| | HOTISOBT45 | Supporto per mandrino ISO/BT 45 | Chuck support ISO/BT 45 | Schrumpffutters Support ISO/BT 45 |
| | HOTISOBT40 | Supporto per mandrino ISO/BT 40 | Chuck support ISO/BT 40 | Schrumpffutters Support ISO/BT 40 |
| | HOTISOBT30 | Supporto per mandrino ISO/BT 30 | Chuck support ISO/BT 30 | Schrumpffutters Support ISO/BT30 |
| | HOTHSK100 | Supporto per mandrino HSK100 | Chuck support HSK100 | Schrumpffutters Support HSK100 |
| | HOTHSK80 | Supporto per mandrino HSK80 | Chuck support HSK80 | Schrumpffutters Support HSK80 |
| | HOTHSK63 | Supporto per mandrino HSK63 | Chuck support HSK63 | Schrumpffutters Support HSK63 |
| | HOTHSK50 | Supporto per mandrino HSK50 | Chuck support HSK50 | Schrumpffutters Support HSK50 |
| | HOTHSK40 | Supporto per mandrino HSK40 | Chuck support HSK40 | Schrumpffutters Support HSK40 |
| | HOTHSK32 | Supporto per mandrino HSK32 | Chuck support HSK32 | Schrumpffutters Support HSK32 |
| HOTHSK25 | Supporto per mandrino HSK25 | Chuck support HSK25 | Schrumpffutters Support HSK25 | |
|  | HOTGK | Guanti in Kevlar | Kevlar Gloves | Kevlar Handschuh |
|  | HOTANIN0205 | Anello induttore Ø 02-05 | Inductor Ring Ø 02-05 | Induktoring Ø 02-05 |
| | HOTANIN0612 | Anello induttore Ø 06-12 | Inductor Ring Ø 06-12 | Induktoring Ø 06-12 |
| | HOTANIN1420 | Anello induttore Ø 14-20 | Inductor Ring Ø 14-20 | Induktoring Ø 14-20 |
| | HOTANIN2532 | Anello induttore Ø 25-32 | Inductor Ring Ø 25-32 | Induktoring Ø 25-32 |
| | HOTANIN40 | Anello induttore Ø 40 | Inductor Ring Ø 40 | Induktoring Ø 40 |
|  | ICE | Unità di raffreddamento | Cooling System | Kühlsystem |
|  | ICEANN0205 | Anello di stop per unità di raffreddamento ø 02-05 | Stop ring for coolant machine ø 02-05 | Sperrungsring für Kühlsystem ø 02-05 |
| | ICEANN0612 | Anello di stop per unità di raffreddamento ø 06-12 | Stop ring for coolant machine ø 06-12 | Sperrungsring für Kühlsystem ø 06-12 |
| | ICEANN1420 | Anello di stop per unità di raffreddamento ø 14-20 | Stop ring for coolant machine ø 14-20 | Sperrungsring für Kühlsystem ø 14-20 |
| | ICEANN2532 | Anello di stop per unità di raffreddamento ø 25-32 | Stop ring for coolant machine ø 25-32 | Sperrungsring für Kühlsystem ø 25-32 |
| | ICEANN40 | Anello di stop per unità di raffreddamento ø 40 | Stop ring for coolant machine ø 40 | Sperrungsring für Kühlsystem ø 40 |

HOT

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

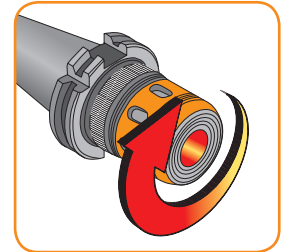
Mandrini a forte serraggio
Heavy-duty chucks
Kraftspannfutter

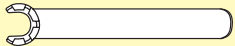


FS 69871...D...

DIN 69871 AD/B

FS



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | PINZE COLLET SPANNZANGE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER R  |
|---------------------------|--------------------------------|-----|-----|-------------------------------|--|
| | D | L | A | | |
| FS 69871 ISO40AB L075 D20 | 20 | 75 | 50 | 4FS20... | CHFSD 20 |
| | L100 D32 | 32 | 100 | 62 | 4FS32... |
| FS 69871 ISO50AB L105 D20 | 20 | 105 | 50 | 4FS20... | CHFSD 20 |
| | L085 D32 | 32 | 85 | 62 | 4FS32... |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 6,3 15.000 g/min.

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

FS 69871 ISO50AB L085 D32

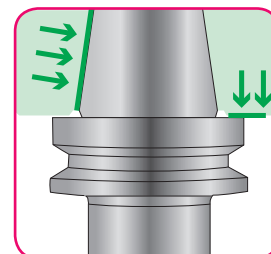
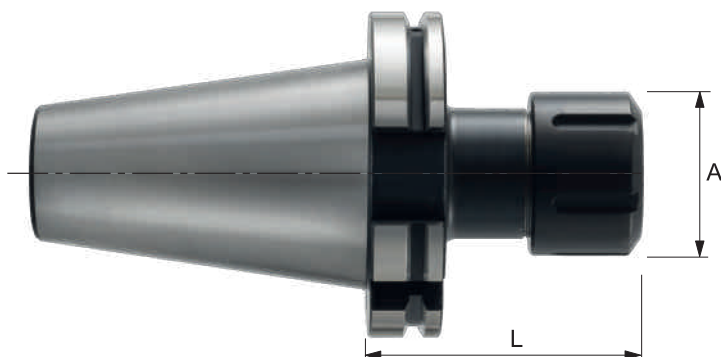
FS 69871...D...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

DC 69871...ER...

DIN 69871 AD
DIN 6499

DC



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | capacità pinza Collect range Zangenspannbereich | GHIERA NUT ÜBERWURFMUTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER | PINZE COLLET SPANNZANGE | |
|-------------------------|---------------------------------|------|-----|---|---------------------------------|--|---|-------------------------------|-------|
| | L | A | | | | | | | |
| DC 69871 ISO40 A | L070 | ER16 | 70 | 32 | 1÷10 | GER16 | GRR16-20 | CH16 S | ER16 |
| | L100 | ER16 | 100 | 32 | 1÷10 | | | | |
| | L160 | ER16 | 160 | 32 | 1÷10 | | | | |
| | L070 | ER25 | 70 | 42 | 1÷16 | GER25 | GRR25 | CH25S | ER25 |
| | L100 | ER25 | 100 | 42 | 1÷16 | | | | |
| | L160 | ER25 | 160 | 42 | 1÷16 | | | | |
| | L070 | ER32 | 70 | 50 | 2÷20 | GER32 | GRR32 | CH32 S | ER32 |
| | L100 | ER32 | 100 | 50 | 2÷20 | | | | |
| | L130 | ER32 | 130 | 50 | 2÷20 | | | | |
| | L160 | ER32 | 160 | 50 | 2÷20 | | | | |
| DC 69871 ISO50 A | L080 | ER16 | 80 | 32 | 1÷10 | GER16 | GRR16-20 | CH16 S | ER16 |
| | L100 | ER16 | 100 | 32 | 1÷10 | | | | |
| | L160 | ER16 | 160 | 32 | 1÷10 | | | | |
| | L080 | ER25 | 80 | 42 | 1÷16 | GER25 | GRR25 | CH25S | ER325 |
| | L100 | ER25 | 100 | 42 | 1÷16 | | | | |
| | L160 | ER25 | 160 | 42 | 1÷16 | | | | |
| | L080 | ER32 | 80 | 50 | 2÷20 | GER32 | GRR32 | CH32 S | ER32 |
| | L100 | ER32 | 100 | 50 | 2÷20 | | | | |
| | L160 | ER32 | 160 | 50 | 2÷20 | | | | |
| | L080 | ER40 | 80 | 63 | 3÷30 | GER40 | GRR40 | CH40 S | ER40 |
| | L100 | ER40 | 100 | 63 | 3÷30 | | | | |
| | L160 | ER40 | 160 | 63 | 3÷30 | | | | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DC 69871 ISO50 A L160 ER40

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

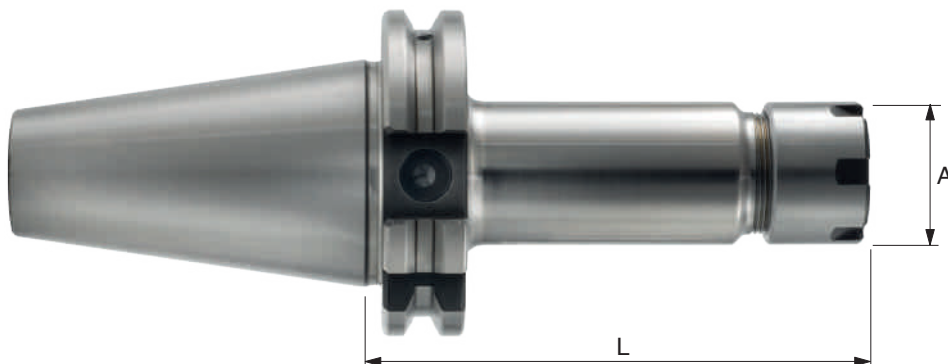
Porta pinze
Collet chucks
ER-Spannzangenfutter



GL 69871...ER...

DIN 69871 AD/B
DIN 6499

GOLD LINE



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | GHIERA NUT ÜBERWURFMUTTER | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER | PINZE COLLET SPANNZANGE | | |
|----------------|---------------------------------|--------|---|---------------------------------|---|-------------------------------|--------|-------|
| | L | A | capacità pinza Collect range Zangenspannbereich | | | | | |
| GL 69871 ISO40 | L070 | ER11 M | 70 | 16 | 1÷7 | GER11 M | CH11 M | ERP11 |
| | L100 | ER11 M | 100 | 16 | 1÷7 | | | |
| | L150 | ER11 M | 150 | 16 | 1÷7 | | | |
| GL 69871 ISO40 | L070 | ER16 M | 70 | 22 | 1÷10 | GER16 M | CH16 M | ERP16 |
| | L100 | ER16 M | 100 | 22 | 1÷10 | | | |
| | L150 | ER16 M | 150 | 22 | 1÷10 | | | |
| | L200 | ER16 M | 200 | 22 | 1÷10 | | | |
| GL 69871 ISO40 | L070 | ER20 M | 70 | 28 | 1÷13 | GER20 M | CH20 M | ERP20 |
| | L100 | ER20 M | 100 | 28 | 1÷13 | | | |
| | L150 | ER20 M | 150 | 28 | 1÷13 | | | |
| | L200 | ER20 M | 200 | 28 | 1÷13 | | | |
| GL 69871 ISO40 | L070 | ER25 M | 70 | 35 | 1÷16 | GER25 M | CH25 S | ERP25 |
| | L100 | ER25 M | 100 | 35 | 1÷16 | | | |
| | L150 | ER25 M | 150 | 35 | 1÷16 | | | |
| | L200 | ER25 M | 200 | 35 | 1÷16 | | | |

BILANCIATO
BALANCED / AUSGEWUCHTET

G. 6.3 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

0,003 ~ 0,005 mm

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

GL 69871 ISO 40 L100 ER11 M

69871...ER...

**DIN 69871 AD/B
DIN 6499**

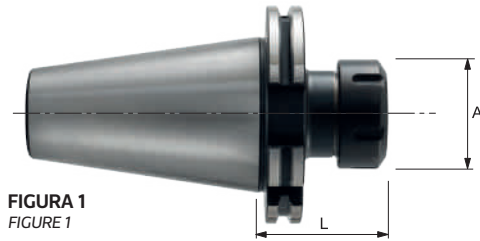


FIGURA 1
FIGURE 1

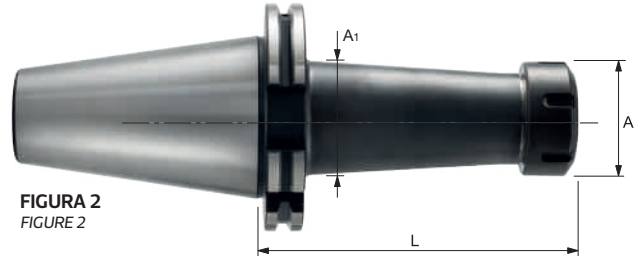


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | FIGURA FIGURE | GHIERA NUT ÜBERWURFM- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE | | | |
|----------------|---------------------------------|------|----|---|------------------|--------------------------------------|--|--|-------------------------------|-----------|--------|------|
| | L | A | A1 | capacità pinza Collect range Zangenspannbereich | | | | | | | | |
| 69871 ISO40 | L100 | ER16 | M | 100 | 22 | 27 | 1÷10 | 2 | GER16 M | GRR 16-20 | CH16 M | ER16 |
| | L130 | ER16 | M | 130 | 22 | 27 | 1÷10 | 2 | | | | |
| | L160 | ER16 | M | 160 | 22 | 27 | 1÷10 | 2 | | | | |
| | L200 | ER16 | M | 200 | 22 | 35 | 1÷10 | 2 | | | | |
| 69871 ISO40 | L130 | ER20 | M | 130 | 28 | 32 | 1÷13 | 2 | GER20 M | GRR 16-20 | CH20 M | ER20 |
| | L160 | ER20 | M | 160 | 28 | 32 | 1÷13 | 2 | | | | |
| | L200 | ER20 | M | 200 | 28 | 35 | 1÷13 | 2 | | | | |
| 69871 ISO40 | L130 | ER25 | M | 130 | 35 | 33 | 1÷16 | 2 | GER25 M | GRR 25 | CH25 M | ER25 |
| | L160 | ER25 | M | 160 | 35 | 33 | 1÷16 | 2 | | | | |
| | L200 | ER25 | M | 200 | 35 | 42 | 1÷16 | 2 | | | | |
| 69871 ISO40 | L070 | ER16 | | 70 | 32 | - | 1÷10 | 1 | GER16 | GRR 16-20 | CH16 S | ER16 |
| | L100 | ER16 | | 100 | 32 | 28 | 1÷10 | 2 | | | | |
| | L160 | ER16 | | 160 | 32 | 31 | 1÷10 | 2 | | | | |
| | L200 | ER16 | | 200 | 32 | 32 | 1÷10 | 2 | | | | |
| 69871 ISO40 | L070 | ER20 | | 70 | 35 | - | 1÷13 | 1 | GER20 | GRR 16-20 | CH20 S | ER20 |
| | L100 | ER20 | | 100 | 35 | 30 | 1÷13 | 2 | | | | |
| | L160 | ER20 | | 160 | 35 | 32 | 1÷13 | 2 | | | | |
| | L200 | ER20 | | 200 | 35 | 35 | 1÷13 | 2 | | | | |
| 69871 ISO40 | L070 | ER25 | | 70 | 42 | - | 1÷16 | 1 | GER25 | GRR 25 | CH25 S | ER25 |
| | L100 | ER25 | | 100 | 42 | 45 | 1÷16 | 2 | | | | |
| | L130 | ER25 | | 130 | 42 | 45 | 1÷16 | 2 | | | | |
| | L160 | ER25 | | 160 | 42 | 45 | 1÷16 | 2 | | | | |
| | L200 | ER25 | | 200 | 42 | 42 | 1÷16 | 2 | | | | |
| 69871 ISO40 | L070 | ER32 | | 70 | 50 | - | 2÷20 | 1 | GER32 | GRR 32 | CH32 S | ER32 |
| | L100 | ER32 | | 100 | 50 | 48 | 2÷20 | 2 | | | | |
| | L130 | ER32 | | 130 | 50 | 50 | 2÷20 | 2 | | | | |
| | L160 | ER32 | | 160 | 50 | 50 | 2÷20 | 2 | | | | |
| | L200 | ER32 | | 200 | 50 | 50 | 2÷20 | 2 | | | | |
| 69871 ISO40 | L070 | ER40 | | 70 | 63 | - | 3÷30 | 1 | GER40 | GRR 40 | CH40 S | ER40 |
| | L100 | ER40 | | 100 | 63 | 50 | 3÷30 | 2 | | | | |
| | L130 | ER40 | | 130 | 63 | 50 | 3÷30 | 2 | | | | |
| | L160 | ER40 | | 160 | 63 | 50 | 3÷30 | 2 | | | | |
| | L200 | ER40 | | 200 | 63 | 50 | 3÷30 | 2 | | | | |

ESEMPIO DI ORDINE: Order example: / Beispiel für einen Auftrag:

69871 ISO40 L100 ER16 M

69871...ER..

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871...ER...

**DIN 69871 AD/B
DIN 6499**

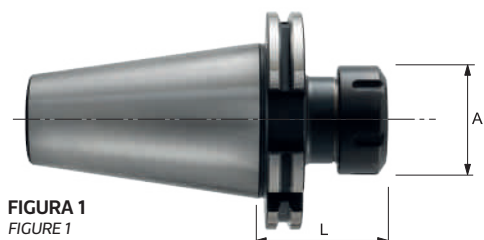


FIGURA 1
FIGURE 1

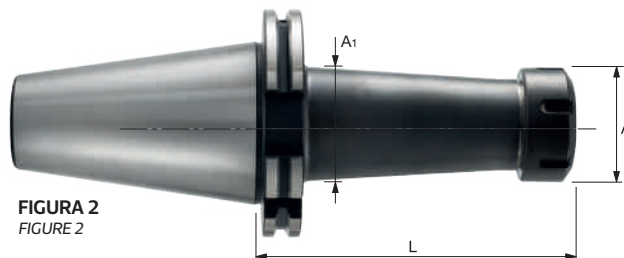


FIGURA 2
FIGURE 2

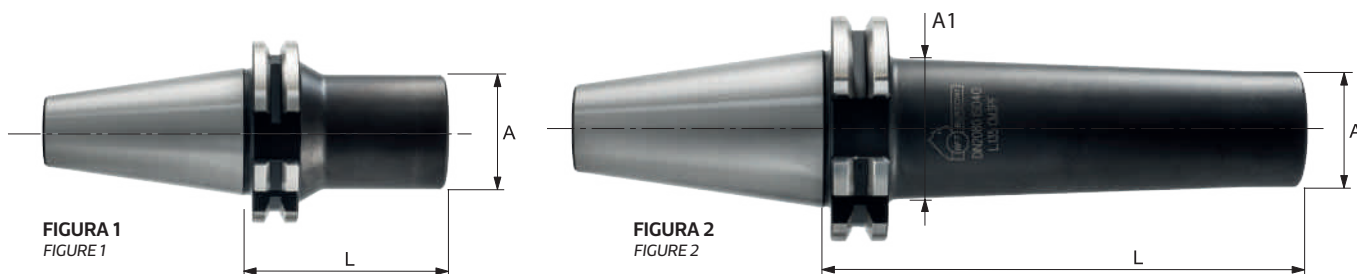
| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | FIGURA FIGURE | GHIERA NUT ÜBERWURFM- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE |
|----------------|---------------------------------|--------|-----|---|------------------|--------------------------------------|--|--|-------------------------------|
| | L | A | A1 | capacità pinza Collect range Zangenspannbereich | | | | | |
| 69871 ISO50 | L130 | ER20 M | 130 | 28 | 33 | 1÷13 | 2 | | |
| | L160 | ER20 M | 160 | 28 | 32 | 1÷13 | | | |
| | L200 | ER20 M | 200 | 28 | 32 | 1÷13 | | | |
| 69871 ISO50 | L130 | ER25 M | 130 | 35 | 42 | 1÷16 | 2 | | |
| | L160 | ER25 M | 160 | 35 | 42 | 1÷16 | | | |
| | L200 | ER25 M | 200 | 35 | 42 | 1÷16 | | | |
| 69871 ISO50 | L070 | ER25 | 70 | 42 | - | 1÷16 | 1 | | |
| | L100 | ER25 | 100 | 42 | 45 | 1÷16 | | | |
| | L130 | ER25 | 130 | 42 | 45 | 1÷16 | | | |
| | L160 | ER25 | 160 | 42 | 55 | 1÷16 | | | |
| | L200 | ER25 | 200 | 42 | 42 | 1÷16 | | | |
| 69871 ISO50 | L070 | ER32 | 70 | 50 | - | 2÷20 | 2 | | |
| | L100 | ER32 | 100 | 50 | 48 | 2÷20 | | | |
| | L130 | ER32 | 130 | 50 | 48 | 2÷20 | | | |
| | L160 | ER32 | 160 | 50 | 50 | 2÷20 | | | |
| | L200 | ER32 | 200 | 50 | 50 | 2÷20 | | | |
| 69871 ISO50 | L080 | ER40 | 80 | 63 | - | 3÷30 | 2 | | |
| | L100 | ER40 | 100 | 63 | 60 | 3÷30 | | | |
| | L130 | ER40 | 130 | 63 | 60 | 3÷30 | | | |
| | L160 | ER40 | 160 | 63 | 60 | 3÷30 | | | |
| | L200 | ER40 | 200 | 63 | 63 | 3÷30 | | | |



ESEMPIO DI ORDINE: Order example: / Beispiel für einen Auftrag:

69871 ISO50 L200 ER32 M

69871...CM...PF

DIN 69871 AD/B (AD)
DIN 228-2



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | GHIERA NUT ÜBERWURFMUTTER  | VITE INTERNA INTERNAL SCREW SPANNSCHRAUBE  | | |
|----------------|---------------------------------|--------|-----|------------------|--|--|-------|--------|
| | L | A | A1 | | | | | |
| 69871 ISO40 | L050 | CM1 PF | 50 | 25 | - | 1 | GCM 1 | TCM 1 |
| | L120 | CM1 PF | 120 | 18 | 25 | 2 | | |
| 69871 ISO40 | L050 | CM2 PF | 50 | 32 | - | 1 | GCM 2 | TCM 2 |
| | L120 | CM2 PF | 120 | 25 | 32 | 2 | | |
| 69871 ISO40 | L070 | CM3 PF | 70 | 40 | - | 1 | GCM 3 | TCM 3A |
| | L135 | CM3 PF | 135 | 33 | 40 | 2 | | |
| 69871 ISO40 | L095 | CM4 PF | 95 | 48 | - | 1 | GCM 4 | TCM 4A |
| | L165 | CM4 PF | 165 | 40 | 48 | 2 | | |
| 69871 ISO50 | L050 | CM2 PF | 50 | 32 | - | 1 | GCM 2 | TCM 2 |
| | L170 | CM2 PF | 170 | 25 | 32 | 2 | | |
| 69871 ISO50 | L065 | CM3 PF | 65 | 40 | - | 1 | GCM 3 | TCM 3A |
| | L170 | CM3 PF | 170 | 33 | 40 | 2 | | |
| 69871 ISO50 | L095 | CM4 PF | 95 | 48 | - | 1 | GCM 4 | TCM 4A |
| | L170 | CM4 PF | 170 | 40 | 48 | 2 | | |

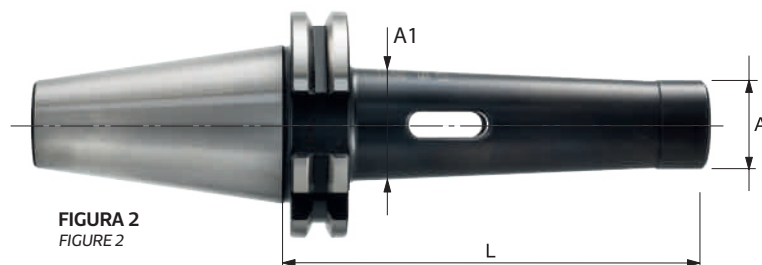
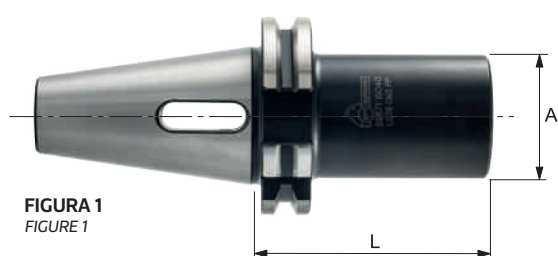
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO40 L070 CM3 PF

69871...CM...PP

DIN 69871 AD/B (AD)
DIN 228-2



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | | |
|----------------|---------------------------------|--------|-----|------------------|----|---|
| | L | A | A1 | | | |
| 69871 ISO40 | L050 | CM1 PP | 50 | 25 | - | 1 |
| | L120 | CM1 PP | 120 | 18 | 25 | 2 |
| 69871 ISO40 | L050 | CM2 PP | 50 | 32 | - | 1 |
| | L120 | CM2 PP | 120 | 25 | 32 | 2 |
| 69871 ISO40 | L076 | CM3 PP | 76 | 40 | - | 1 |
| | L135 | CM3 PP | 135 | 33 | 40 | 2 |
| 69871 ISO40 | L095 | CM4 PP | 95 | 48 | - | 1 |
| | L165 | CM4 PP | 165 | 48 | - | 1 |
| 69871 ISO50 | L045 | CM1 PP | 45 | 25 | - | 1 |
| | L120 | CM1 PP | 120 | 18 | 25 | 2 |
| 69871 ISO50 | L060 | CM2 PP | 60 | 32 | - | 1 |
| | L140 | CM2 PP | 140 | 25 | 32 | 2 |
| 69871 ISO50 | L065 | CM3 PP | 65 | 40 | - | 1 |
| | L150 | CM3 PP | 150 | 33 | 40 | 2 |
| 69871 ISO50 | L095 | CM4 PP | 95 | 48 | - | 1 |
| | L180 | CM4 PP | 180 | 40 | 48 | 2 |
| 69871 ISO50 | L105 | CM5 PP | 105 | 63 | - | 1 |
| | L220 | CM5 PP | 220 | 55 | 63 | 2 |

ESEMPIO DI ORDINE:

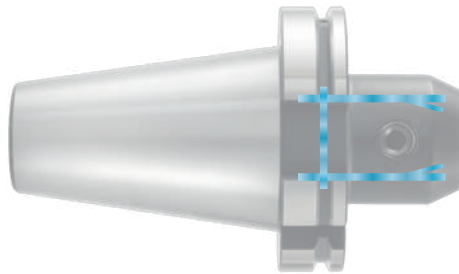
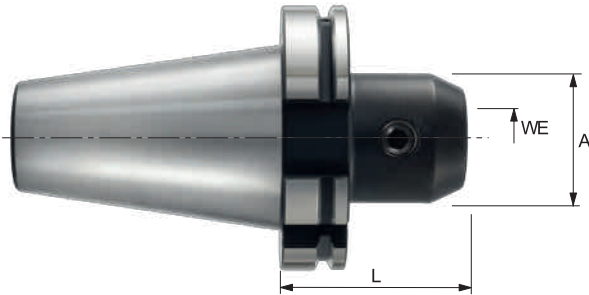
Order example:
Beispiel für einen Auftrag:

69871 ISO40 L070 CM3 PP

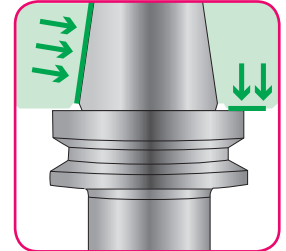
DC 69871...WE...

DIN 69871 AD
DIN 1835-B

DC



Versione W
W version
Ausführung W



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | Canalini Passaggio Refrigerante Coolant ducts Kühlmittelbohrung | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT |
|------------------|---------------------------------|-----|---|--|
| | L | A | | |
| DC 69871 ISO40 A | L050 WE6 W | 50 | 25 | GRW 6 |
| | L050 WE8 W | 50 | 28 | GRW 8 |
| | L050 WE10 W | 50 | 35 | GRW 10 |
| | L050 WE12 W | 50 | 42 | GRW 12-14 |
| | L050 WE14 W | 50 | 44 | GRW 12-14 |
| | L063 WE16 W | 63 | 48 | GRW 16-18 |
| | L063 WE16 | 63 | 48 | GRW 16-18 |
| | L063 WE18 W | 63 | 50 | GRW 16-18 |
| | L063 WE20 W | 63 | 52 | GRW 20 |
| | L063 WE20 | 63 | 52 | GRW 20 |
| | L100 WE25 W | 100 | 65 | GRW 25 |
| | L100 WE25 | 100 | 65 | GRW 25 |
| L100 WE32 | 100 | 72 | GRW 32-40 | |
| DC 69871 ISO50 A | L063 WE6 W | 63 | 25 | GRW 6 |
| | L063 WE8 W | 63 | 28 | GRW 8 |
| | L063 WE10 W | 63 | 35 | GRW 10 |
| | L063 WE12 W | 63 | 42 | GRW 12-14 |
| | L063 WE14 W | 63 | 44 | GRW 12-14 |
| | L063 WE16 W | 63 | 48 | GRW 16-18 |
| | L063 WE16 | 63 | 48 | GRW 16-18 |
| | L063 WE18 W | 63 | 50 | GRW 16-18 |
| | L063 WE20 W | 63 | 52 | GRW 20 |
| | L063 WE20 | 63 | 52 | GRW 20 |
| | L100 WE25 W | 100 | 65 | GRW 25 |
| | L100 WE25 | 100 | 65 | GRW 25 |
| | L100 WE32 | 100 | 72 | GRW 32-40 |
| L112 WE40 | 112 | 80 | GRW 32-40 | |

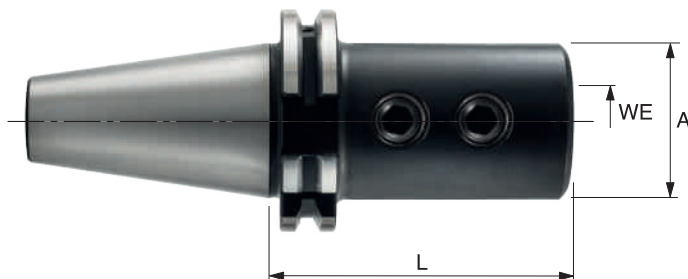
ESEMPIO DI ORDINE:


Order example:
Beispiel für einen Auftrag:

DC 69871 ISO50 A L100 WE32

69871...WE...A...

DIN 69871 AD/B
DIN 1835-B



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT  | |
|--------------------|---------------------------------|----|-----|---|--------|
| | WE | L | A | | |
| 69871 ISO40 | L080 WE20 A40 | 20 | 80 | 40 | GRW20A |
| | L085 WE25 A45 | 25 | 85 | 45 | GRW25A |
| | L090 WE32 A52 | 32 | 90 | 52 | GRW32A |
| | L100 WE40 A71 | 40 | 100 | 71 | GRW40A |
| 69871 ISO50 | L080 WE20 A40 | 20 | 80 | 40 | GRW20A |
| | L085 WE25 A45 | 25 | 85 | 45 | GRW25A |
| | L090 WE32 A52 | 32 | 90 | 52 | GRW32A |
| | L095 WE40 A71 | 40 | 95 | 71 | GRW40A |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO50 L085 WE25 A45

69871...WE...

DIN 69871 AD/B
DIN 1835-B

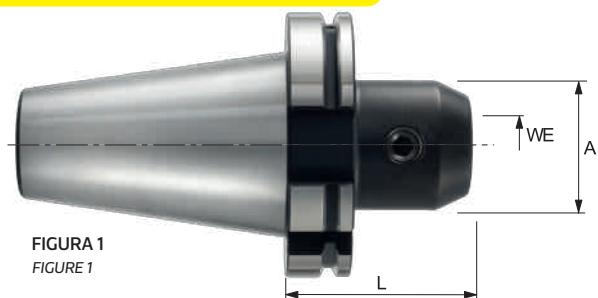


FIGURA 1
FIGURE 1

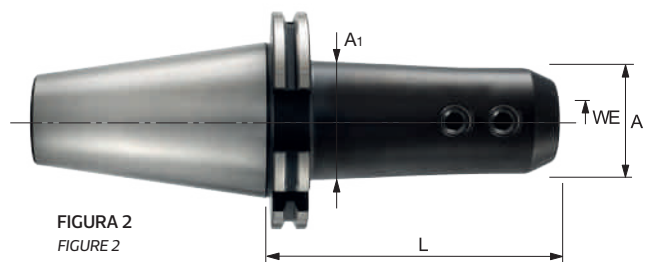


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | CANALI REFRIGERANTI COOLANT DUCTS KÜHLMITTELBOHRUNG | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT | |
|----------------|---------------------------------|-----|------|------------------|---|--|--|
| | L | A | A1 | | | | |
| 69871 ISO40 | L050 WE6 W | 50 | 25 | - | 1 | • | GRW 6 |
| | L100 WE6 | 100 | 25 | 35 | 2 | - | |
| | L160 WE6 | 160 | 25 | 25 | 2 | - | |
| 69871 ISO40 | L050 WE8 W | 50 | 28 | - | 1 | • | GRW 8 |
| | L100 WE8 | 100 | 28 | 38 | 2 | - | |
| | L160 WE8 | 160 | 27,5 | 38 | 2 | - | |
| 69871 ISO40 | L050 WE10 W | 50 | 35 | - | 1 | • | GRW 10 |
| | L100 WE10 | 100 | 35 | 40 | 2 | - | |
| | L160 WE10 | 160 | 34,5 | 40 | 2 | - | |
| 69871 ISO40 | L050 WE12 W | 50 | 42 | - | 1 | • | GRW 12-14 |
| | L100 WE12 | 100 | 42 | - | 1 | - | |
| | L160 WE12 | 160 | 41,5 | - | 1 | - | |
| 69871 ISO40 | L050 WE14 W | 50 | 44 | - | 1 | • | GRW 12-14 |
| | L100 WE14 | 100 | 44 | - | 1 | - | |
| | L160 WE14 | 160 | 44 | - | 1 | - | |
| 69871 ISO40 | L035 WE16 | 35 | 44 | - | 1 | - | GRW 16-18 |
| | L063 WE16 W | 63 | 48 | - | 1 | • | |
| | L063 WE16 | 63 | 48 | - | 1 | - | |
| | L100 WE16 | 100 | 48 | - | 1 | - | |
| | L160 WE16 | 160 | 48 | - | 1 | - | |
| 69871 ISO40 | L063 WE18 W | 63 | 50 | - | 1 | • | GRW 20 |
| | L100 WE18 | 100 | 50 | - | 1 | - | |
| | L160 WE18 | 160 | 50 | - | 1 | - | |
| 69871 ISO40 | L035 WE20 | 35 | 44 | - | 1 | - | GRW 20 |
| | L063 WE20 W | 63 | 52 | - | 1 | • | |
| | L063 WE20 | 63 | 52 | - | 1 | - | |
| | L100 WE20 | 100 | 52 | - | 1 | - | |
| | L160 WE20 | 160 | 50 | - | 1 | - | |
| 69871 ISO40 | L035 WE25 | 35 | 50 | - | 1 | - | GRW 25 C GRW 25 GRW 25 GRW 25 |
| | L100 WE25 W | 100 | 65 | - | 1 | • | |
| | L100 WE25 | 100 | 65 | - | 1 | - | |
| | L160 WE25 | 160 | 65 | - | 1 | - | |
| 69871 ISO40 | L070 WE32 | 70 | 72 | - | 1 | - | GRW 32 C GRW 32-40 GRW 32-40 |
| | L100 WE32 | 100 | 72 | - | 1 | - | |
| | L160 WE32 | 160 | 72 | - | 1 | - | |
| 69871 ISO40 | L115 WE40 | 115 | 80 | - | 1 | - | GRW 32-40 |

ESEMPIO DI ORDINE: Order example: / Beispiel für einen Auftrag:

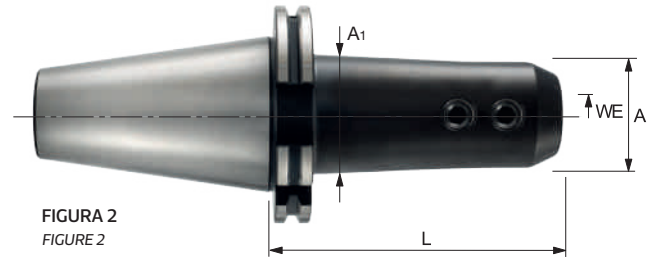
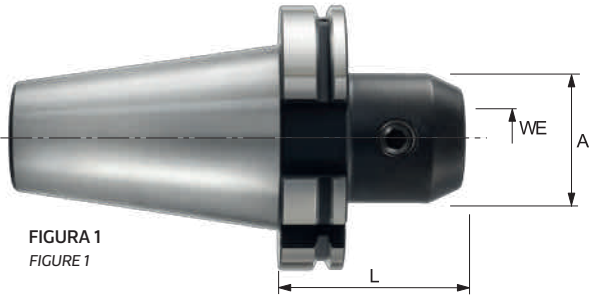
69871 ISO40 L100 WE12

69871...WE...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871...WE...

**DIN 69871 AD/B
DIN 1835-B**



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | CANALI REFRIGERANTI COOLANT DUCTS KÜHLMITTELBOHRUNG | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT | |
|----------------|---------------------------------|-----|----|------------------|---|--|-----------|
| | L | A | A1 | | | | |
| 69871 ISO50 | L063 WE6 W | 63 | 25 | - | 1 | • | GRW 6 |
| | L130 WE6 | 130 | 25 | 35 | 2 | - | |
| | L200 WE6 | 200 | 25 | 38 | 2 | - | |
| 69871 ISO50 | L063 WE8 W | 63 | 28 | - | 1 | • | GRW 8 |
| | L130 WE8 | 130 | 28 | 38 | 2 | - | |
| | L200 WE8 | 200 | 28 | 41 | 2 | - | |
| 69871 ISO50 | L063 WE10 W | 63 | 35 | - | 1 | • | GRW 10 |
| | L130 WE10 | 130 | 35 | 42 | 2 | - | |
| | L200 WE10 | 200 | 35 | 45 | 2 | - | |
| 69871 ISO50 | L063 WE12 W | 63 | 42 | - | 1 | • | GRW 12-14 |
| | L130 WE12 | 130 | 42 | 48 | 2 | - | |
| | L200 WE12 | 200 | 42 | 51 | 2 | - | |
| 69871 ISO50 | L063 WE14 W | 63 | 44 | - | 1 | • | GRW 12-14 |
| | L130 WE14 | 130 | 44 | 50 | 2 | - | |
| | L200 WE14 | 200 | 44 | 53 | 2 | - | |
| 69871 ISO50 | L035 WE16 | 35 | 70 | - | 1 | - | GRW 16-18 |
| | L063 WE16 W | 63 | 48 | - | 1 | • | |
| | L063 WE16 | 63 | 48 | - | 1 | - | |
| | L130 WE16 | 130 | 48 | 54 | 2 | - | |
| | L200 WE16 | 200 | 48 | 57 | 2 | - | |
| 69871 ISO50 | L063 WE18 W | 63 | 50 | - | 1 | • | GRW 16-18 |
| | L130 WE18 | 130 | 50 | 56 | 2 | - | |
| | L200 WE18 | 200 | 50 | 59 | 2 | - | |
| 69871 ISO50 | L035 WE20 | 35 | 70 | - | 1 | - | GRW 20 |
| | L063 WE20 W | 63 | 52 | - | 1 | • | |
| | L063 WE20 | 63 | 52 | - | 1 | - | |
| | L130 WE20 | 130 | 52 | 59 | 2 | - | |
| | L200 WE20 | 200 | 52 | 61 | 2 | - | |
| 69871 ISO50 | L035 WE25 | 35 | 70 | - | 1 | - | GRW 25 C |
| | L080 WE25 W | 80 | 65 | - | 1 | • | |
| | L080 WE25 | 80 | 65 | - | 1 | - | |
| | L130 WE25 | 130 | 65 | - | 1 | - | |
| | L200 WE25 | 200 | 65 | 72 | 2 | - | |
| 69871 ISO50 | L035 WE32 | 35 | 80 | - | 1 | - | GRW 32-40 |
| | L100 WE32 | 100 | 72 | - | 1 | - | |
| | L130 WE32 | 130 | 72 | - | 1 | - | |
| | L200 WE32 | 200 | 72 | - | 1 | - | |
| 69871 ISO50 | L120 WE40 | 120 | 80 | - | 1 | - | GRW 32-40 |
| | L160 WE40 | 160 | 80 | - | 1 | - | |

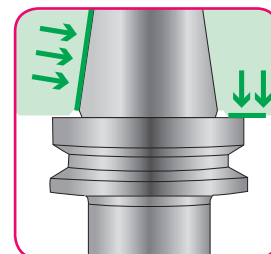
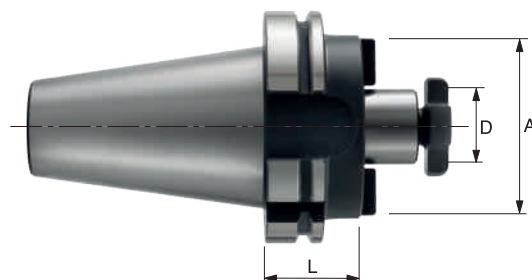
ESEMPIO DI ORDINE: Order example: / Beispiel für einen Auftrag:



69871 ISO50 L120 WE40

DC 69871...PF...

DIN 69871 AD
DIN 3937

DC



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|-----------------------------------|---------------------------------|----|----|--|---|
| | L | A | D | | |
| DC 69871 ISO40 A L045 PF16 | 45 | 38 | 16 | VS16 | TS16S |
| L100 PF16 | 100 | 38 | 16 | | |
| L160 PF16 | 160 | 38 | 16 | | |
| L045 PF22 | 45 | 48 | 22 | VS22 | TS22S |
| L100 PF22 | 100 | 48 | 22 | | |
| L160 PF22 | 160 | 48 | 22 | | |
| L050 PF27 | 50 | 58 | 27 | VS27 | TS27S |
| L100 PF27 | 100 | 58 | 27 | | |
| L160 PF27 | 160 | 58 | 27 | | |
| L050 PF32 | 50 | 78 | 32 | VS32 | TS32S |
| DC 69871 ISO50 A L045 PF16 | 45 | 38 | 16 | | |
| L160 PF16 | 160 | 38 | 16 | | |
| L045 PF22 | 45 | 48 | 22 | VS22 | TS22S |
| L160 PF22 | 160 | 48 | 22 | | |
| L050 PF27 | 50 | 58 | 27 | | |
| L160 PF27 | 160 | 58 | 27 | VS27 | TS27S |
| L050 PF32 | 50 | 78 | 32 | | |
| L160 PF32 | 160 | 78 | 32 | | |
| L050 PF40 | 50 | 88 | 40 | VS40 | TS40S |
| L160 PF40 | 160 | 88 | 40 | | |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

DC 69871 ISO50 A L160 PF32

DC 69871...PF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871...PF...A...

DIN 69871 AD/B

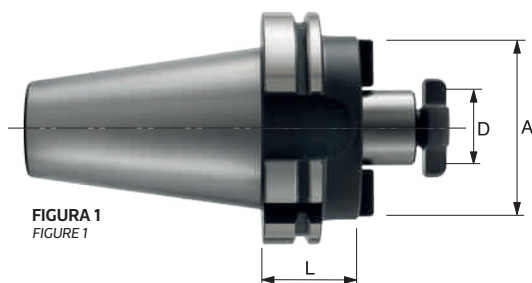


FIGURA 1
FIGURE 1

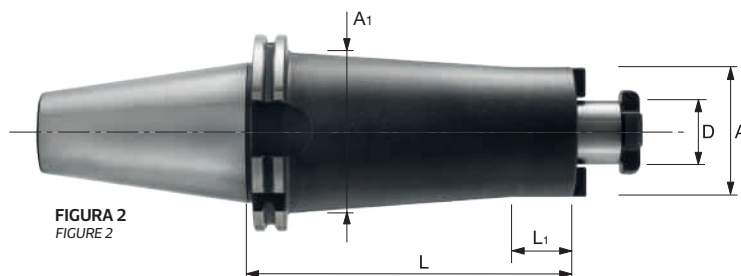


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | FIGURA FIGURE | FRESE DI RIFERIMENTO REFERENCE MILLING CUTTER REFERENZFRÄSER | VITE DI SERRAGGIO CLIMPING SCREW FRÄSERANZUGSS- CHRAUBE | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN | | |
|----------------|---------------------------------|-----|-----|----------------|----------------|------------------|--|---|---|-------|---------|
| | L | A | D | A ₁ | L ₁ | | | | | | |
| 69871 ISO40 | L035 PF22 | A59 | 35 | 59 | 22 | 59 | - | 1 | T2088 | VS 22 | TS 22 C |
| | L100 PF22 | A59 | 100 | 59 | 22 | 59 | - | 1 | | | |
| 69871 ISO50 | L035 PF22 | A59 | 35 | 59 | 22 | 59 | - | 1 | T2088 | VS 22 | TS 22 C |
| | L100 PF22 | A59 | 100 | 59 | 22 | 80 | 60 | 2 | | | |
| | L160 PF22 | A59 | 160 | 59 | 22 | 80 | 100 | 2 | | | |
| 69871 ISO50 | L050 PF32 | A69 | 50 | 69 | 32 | 69 | - | 1 | T2088 | VS 32 | TS 32 F |
| | L100 PF32 | A69 | 100 | 69 | 32 | 80 | 60 | 2 | | | |
| | L160 PF32 | A69 | 160 | 69 | 32 | 80 | 100 | 2 | | | |

MANDRINI CON SUPERFICIE DI APPOGGIO DELLA FRESE MAGGIORATO
HOLDERS WITH INCREASED FACE / WERKZEUGAUFNAHME MIT VERGRÖßERTER AUFLAGEFLÄCHE

| | | | | | | | | | | | |
|-------------|-----------|-----|-----|----|----|----|----|---|-------|-------|---------|
| 69871 ISO50 | L200 PF22 | A46 | 200 | 46 | 22 | 64 | 50 | 2 | TJ300 | VS 22 | TS 22 C |
| | L250 PF22 | A48 | 250 | 48 | 22 | 64 | 50 | 2 | | | |
| | L300 PF22 | A48 | 300 | 48 | 22 | 64 | 50 | 2 | | | |
| 69871 ISO50 | L200 PF22 | A59 | 200 | 59 | 22 | 75 | 50 | 2 | TJ300 | VS 22 | TS 22 C |
| | L250 PF22 | A59 | 250 | 59 | 22 | 75 | 50 | 2 | | | |
| | L300 PF22 | A59 | 300 | 59 | 22 | 75 | 50 | 2 | | | |
| 69871 ISO50 | L200 PF27 | A76 | 200 | 76 | 27 | 80 | 50 | 2 | TJ300 | VS 27 | TS 27 C |
| | L300 PF27 | A76 | 300 | 76 | 27 | 80 | 50 | 2 | | | |
| 69871 ISO50 | L200 PF32 | A96 | 200 | 96 | 32 | - | - | 1 | TJ300 | VS 32 | TS 32 F |
| | L300 PF32 | A96 | 300 | 96 | 32 | - | - | 1 | | | |

MANDRINI EXTRA LUNGI CON SUPERFICIE DI APPOGGIO DELLA FRESE MAGGIORATO
EXTRA-LONG HOLDERS WITH INCREASED FACE
EXTRA LANGE WERKZEUGAUFNAHME MIT VERGRÖßERTER AUFLAGEFLÄCHE

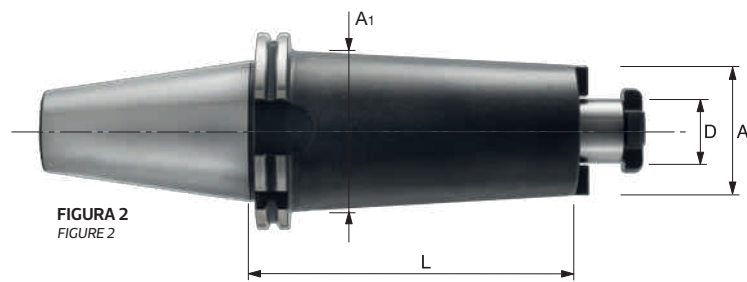
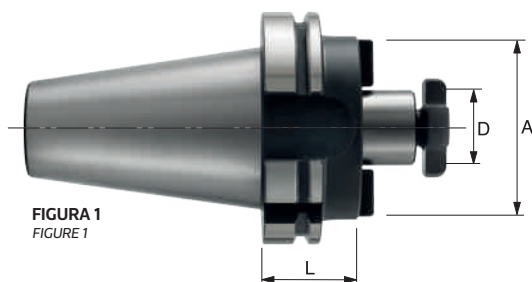
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO50 L250 PF22 A48

69871...PF...

DIN 69871 AD/B
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | FIGURA FIGURE | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN | | |
|----------------|---------------------------------|-------|-----|----------------|------------------|---|--|-------|--------------------------------------|
| | L | A | D | A ₁ | | | | | |
| 69871 ISO40 | L045 | PF 16 | 45 | 38 | 16 | - | 1 | VS 16 | TS 16B TS 16A |
| | L100 | PF 16 | 100 | 32 | 16 | 42 | 2 | | |
| 69871 ISO40 | L035 | PF 22 | 35 | 48 | 22 | - | 1 | VS 22 | TS 22B TS 22A |
| | L100 | PF 22 | 100 | 40 | 22 | 49 | 2 | | |
| 69871 ISO40 | L035 | PF 27 | 35 | 50 | 27 | - | 1 | VS 27 | TS 27A TS 27B TS 27A |
| | L050 | PF 27 | 50 | 58 | 27 | - | 1 | | |
| | L100 | PF 27 | 100 | 48 | 27 | - | 1 | | |
| 69871 ISO40 | L055 | PF 32 | 55 | 78 | 32 | - | 1 | VS 32 | TS 32B TS 32A TS 32B |
| | L100 | PF 32 | 100 | 58 | 32 | - | 1 | | |
| | L160 | PF 32 | 160 | 78 | 32 | 50 | 2 | | |
| 69871 ISO40 | L055 | PF 40 | 55 | 88 | 40 | - | 1 | VS 40 | TS 40B TS 40A TS 40B |
| | L100 | PF 40 | 100 | 70 | 40 | - | 1 | | |
| | L160 | PF 40 | 160 | 88 | 40 | 50 | 2 | | |
| 69871 ISO50 | L035 | PF 16 | 35 | 38 | 16 | - | 1 | VS 16 | TS 16B TS 16A |
| | L100 | PF 16 | 100 | 32 | 16 | 42 | 2 | | |
| 69871 ISO50 | L035 | PF 22 | 35 | 48 | 22 | - | 1 | VS 22 | TS 22B TS 22A TS 22B |
| | L100 | PF 22 | 100 | 40 | 22 | 55 | 2 | | |
| | L160 | PF 22 | 160 | 46 | 22 | 48 | 2 | | |
| 69871 ISO50 | L035 | PF 27 | 35 | 58 | 27 | - | 1 | VS 27 | TS 27B TS 27A TS 27B TS 27B |
| | L100 | PF 27 | 100 | 48 | 27 | 60 | 2 | | |
| | L160 | PF 27 | 160 | 55 | 27 | 78 | 2 | | |
| | L200 | PF 27 | 200 | 55 | 27 | 78 | 2 | | |
| 69871 ISO50 | L055 | PF 32 | 55 | 78 | 32 | - | 1 | VS 32 | TS 32B TS 32A TS 32D TS 32D |
| | L100 | PF 32 | 100 | 58 | 32 | 68 | 2 | | |
| | L160 | PF 32 | 160 | 66 | 32 | 78 | 2 | | |
| | L200 | PF 32 | 200 | 66 | 32 | 78 | 2 | | |
| 69871 ISO50 | L055 | PF 40 | 55 | 88 | 40 | - | 1 | VS 40 | TS 40B TS 40A TS 40A TS 40A |
| | L100 | PF 40 | 100 | 70 | 40 | - | 1 | | |
| | L160 | PF 40 | 160 | 70 | 40 | 78 | 2 | | |
| | L200 | PF 40 | 200 | 70 | 40 | 78 | 2 | | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

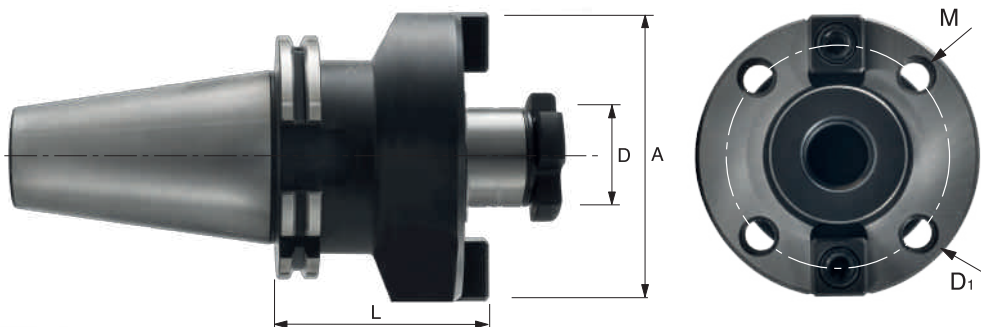
69871 ISO40 L100 PF32



69871...PF..

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871...PF...4F

DIN 69871 AD/B
ISO 6357



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  | |
|---------------------------|---------------------------------|----|-----|----------------|-------|--|---|--------|
| | L | A | D | D ₁ | M | | | |
| 69871 ISO40 L060 PF 40 4F | 60 | 89 | 40 | 66,7 | 12 | VS 40 | TS 40F | |
| 69871 ISO50 | L070 PF 40 4F | 70 | 89 | 40 | 66,7 | 12 | VS 40 | TS 40F |
| | L070 PF 60 4F | 70 | 129 | 60 | 101,6 | 16 | - | TS 60F |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO40 L060 PF 40 4F

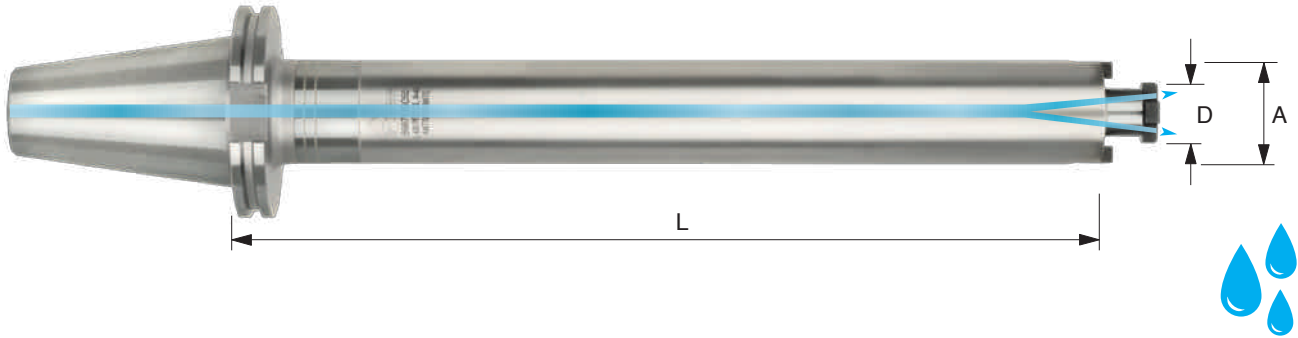
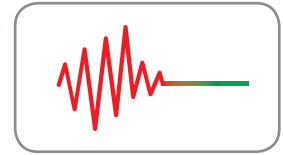
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME



Porta frese antivibranti
Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme für Einschraubfräser



69871...PF...

DIN 69871 AD
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|--|---------------------------------|----|----|--|---|
| | L | A | D | | |
| 69871 ISO40 A L200 PF16 A38 ANTIVIBR W | 200 | 38 | 16 | VS16 | TS 16V |
| L300 PF16 A38 ANTIVIBR W | 300 | 38 | 16 | | |
| 69871 ISO40 A L200 PF22 A48 ANTIVIBR W | 200 | 48 | 22 | VS22 | TS 22V |
| L300 PF22 A48 ANTIVIBR W | 300 | 48 | 22 | | |
| 69871 ISO40 A L200 PF27 A58 ANTIVIBR W | 200 | 58 | 27 | VS27 | TS 27V |
| 69871 ISO50 A L200 PF16 A38 ANTIVIBR W | 200 | 38 | 16 | VS16 | TS 16V |
| L300 PF16 A38 ANTIVIBR W | 300 | 38 | 16 | | |
| 69871 ISO50 A L200 PF22 A48 ANTIVIBR W | 200 | 48 | 22 | VS22 | TS 22V |
| L300 PF22 A48 ANTIVIBR W | 300 | 48 | 22 | | |
| 69871 ISO50 A L200 PF27 A58 ANTIVIBR W | 200 | 58 | 27 | VS27 | TS 27V |
| L300 PF27 A58 ANTIVIBR W | 300 | 58 | 27 | | |
| 69871 ISO50 A L300 PF32 A78 ANTIVIBR W | 300 | 78 | 32 | VS32 | TS 32V |

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

69871 ISO50 A L300 PF 32 A78 ANTIVIBR W

69871...PF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

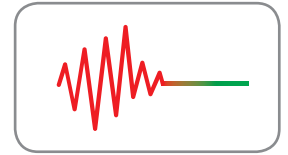
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME



Porta frese antivibranti
Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme für Einschraubfräser



69871...PF...

DIN 69871
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  | |
|----------------|---------------------------------|------|----------|---|--|--------|
| | L | A | D | | | |
| 69871 ISO40 | L150 | PF16 | A38 | ANTIVIBR | VS16 | TS 16V |
| | L200 | PF16 | A38 | ANTIVIBR | | |
| | L250 | PF16 | A38 | ANTIVIBR | | |
| | L300 | PF16 | A38 | ANTIVIBR | | |
| 69871 ISO40 | L150 | PF22 | A48 | ANTIVIBR | VS22 | TS 22V |
| | L200 | PF22 | A48 | ANTIVIBR | | |
| | L250 | PF22 | A48 | ANTIVIBR | | |
| | L300 | PF22 | A48 | ANTIVIBR | | |
| 69871 ISO40 | L150 | PF27 | A58 | ANTIVIBR | VS27 | TS 27V |
| | L200 | PF27 | A58 | ANTIVIBR | | |
| | L250 | PF27 | A58 | ANTIVIBR | | |
| | L300 | PF27 | A58 | ANTIVIBR | | |
| 69871 ISO50 | L150 | PF16 | A38 | ANTIVIBR | VS16 | TS 16V |
| | L200 | PF16 | A38 | ANTIVIBR | | |
| | L250 | PF16 | A38 | ANTIVIBR | | |
| | L300 | PF16 | A38 | ANTIVIBR | | |
| | L400 | PF16 | A38 | ANTIVIBR | | |
| 69871 ISO50 | L200 | PF22 | A48 | ANTIVIBR | VS22 | TS 16V |
| | L250 | PF22 | A48 | ANTIVIBR | | |
| | L300 | PF22 | A48 | ANTIVIBR | | |
| | L400 | PF22 | A48 | ANTIVIBR | | |
| | L500 | PF22 | A48 | ANTIVIBR | | |
| | L200 | PF22 | A58 | ANTIVIBR | | |
| | L250 | PF22 | A58 | ANTIVIBR | | |
| | L300 | PF22 | A58 | ANTIVIBR | | |
| | L400 | PF22 | A58 | ANTIVIBR | | |
| L500 | PF22 | A58 | ANTIVIBR | | | |
| 69871 ISO50 | L200 | PF27 | A58 | ANTIVIBR | VS27 | TS 27V |
| | L250 | PF27 | A58 | ANTIVIBR | | |
| | L300 | PF27 | A58 | ANTIVIBR | | |
| | L400 | PF27 | A58 | ANTIVIBR | | |
| | L500 | PF27 | A58 | ANTIVIBR | | |
| 69871 ISO50 | L200 | PF32 | A78 | ANTIVIBR | VS32 | TS 32V |
| | L250 | PF32 | A78 | ANTIVIBR | | |
| | L300 | PF32 | A78 | ANTIVIBR | | |
| | L400 | PF32 | A78 | ANTIVIBR | | |
| | L500 | PF32 | A78 | ANTIVIBR | | |

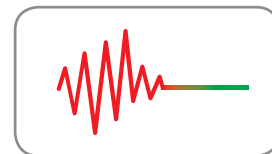
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO50 L500 PF 32 A78 ANTIVIBR

69871...PF...

DIN 69871
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | L | A | D | A ₁ | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN |
|--------------------|---------------------------------|-----|----|----|----------------|---|--|
| | | | | | | | |
| 69871 ISO40 | L150 PF16 ANTIVIBR | 150 | 38 | 16 | 50 | VS16 | TS 16V |
| | L200 PF16 ANTIVIBR | 200 | 38 | 16 | 50 | | |
| | L250 PF16 ANTIVIBR | 250 | 38 | 16 | 50 | | |
| | L300 PF16 ANTIVIBR | 300 | 38 | 16 | 50 | | |
| 69871 ISO40 | L150 PF22 ANTIVIBR | 150 | 48 | 22 | 50 | VS22 | TS 22V |
| | L200 PF22 ANTIVIBR | 200 | 48 | 22 | 50 | | |
| | L250 PF22 ANTIVIBR | 250 | 48 | 22 | 50 | | |
| | L300 PF22 ANTIVIBR | 300 | 48 | 22 | 50 | | |
| 69871 ISO50 | L150 PF16 ANTIVIBR | 150 | 38 | 16 | 80 | VS16 | TS 16V |
| | L200 PF16 ANTIVIBR | 200 | 38 | 16 | 80 | | |
| | L250 PF16 ANTIVIBR | 250 | 38 | 16 | 80 | | |
| | L300 PF16 ANTIVIBR | 300 | 38 | 16 | 80 | | |
| | L400 PF16 ANTIVIBR | 400 | 38 | 16 | 80 | | |
| 69871 ISO50 | L200 PF22 ANTIVIBR | 200 | 48 | 22 | 80 | VS22 | TS 22V |
| | L250 PF22 ANTIVIBR | 250 | 48 | 22 | 80 | | |
| | L300 PF22 ANTIVIBR | 300 | 48 | 22 | 80 | | |
| | L400 PF22 ANTIVIBR | 400 | 48 | 22 | 80 | | |
| | L500 PF22 ANTIVIBR | 500 | 48 | 22 | 80 | | |
| 69871 ISO50 | L200 PF27 ANTIVIBR | 200 | 58 | 27 | 80 | VS27 | TS 27V |
| | L250 PF27 ANTIVIBR | 250 | 58 | 27 | 80 | | |
| | L300 PF27 ANTIVIBR | 300 | 58 | 27 | 80 | | |
| | L400 PF27 ANTIVIBR | 400 | 58 | 27 | 80 | | |
| | L500 PF27 ANTIVIBR | 500 | 58 | 27 | 80 | | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

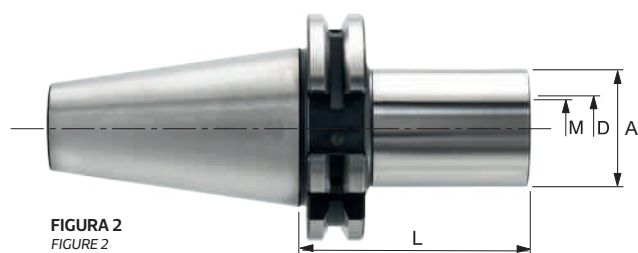
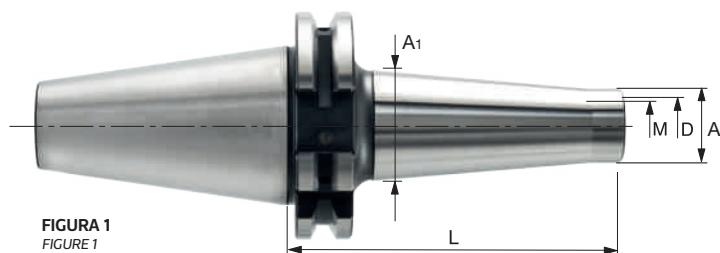
69871 ISO50 A L300 PF 32 A78 ANTIVIBR W

69871...PF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871...M...

DIN 69871 AD-B



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | FIGURA FIGURE | | |
|----------------|---------------------------------|-------|-----|----|----------------|------------------|------|---|
| | L | M | D | A | A ₁ | | | |
| 69871 ISO40 | L055 | M08 | 55 | 8 | 8,5 | 13 | 15 | 1 |
| | L055 | M08 S | 55 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| | L075 | M08 | 75 | 8 | 8,5 | 13 | 23 | 1 |
| | L075 | M08 S | 75 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| | L095 | M08 | 95 | 8 | 8,5 | 13 | 23 | 1 |
| | L095 | M08 S | 95 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| | L115 | M08 | 115 | 8 | 8,5 | 13 | 25 | 1 |
| 69871 ISO40 | L055 | M10 | 55 | 10 | 10,5 | 18 | 20 | 1 |
| | L055 | M10 S | 55 | 10 | 10,5 | 18 | 18 | 2 |
| | L075 | M10 | 75 | 10 | 10,5 | 18 | 25 | 1 |
| | L075 | M10 S | 75 | 10 | 10,5 | 18 | 18 | 2 |
| | L095 | M10 | 95 | 10 | 10,5 | 18 | 28 | 1 |
| | L095 | M10 S | 95 | 10 | 10,5 | 18 | 18 | 2 |
| | L120 | M10 | 120 | 10 | 10,5 | 18 | 28 | 1 |
| | L120 | M10 S | 120 | 10 | 10,5 | 18 | 18 | 2 |
| | L145 | M10 | 145 | 10 | 10,5 | 18 | 34 | 1 |
| 69871 ISO40 | L075 | M12 | 75 | 12 | 12,5 | 21 | 24 | 1 |
| | L075 | M12 S | 75 | 12 | 12,5 | 22 | 22 | 2 |
| | L095 | M12 | 95 | 12 | 12,5 | 21 | 31 | 1 |
| | L095 | M12 S | 95 | 12 | 12,5 | 22 | 22 | 2 |
| | L120 | M12 | 120 | 12 | 12,5 | 21 | 31 | 1 |
| | L120 | M12 S | 120 | 12 | 12,5 | 22 | 22 | 2 |
| | L145 | M12 | 145 | 12 | 12,5 | 21 | 38 | 1 |
| 69871 ISO40 | L075 | M16 | 75 | 16 | 17 | 29 | 34 | 1 |
| | L075 | M16 S | 75 | 16 | 17 | 29 | 29 | 2 |
| | L095 | M16 | 95 | 16 | 17 | 29 | 34 | 1 |
| | L095 | M16 S | 95 | 16 | 17 | 29 | 29 | 2 |
| | L120 | M16 | 120 | 16 | 17 | 29 | 39 | 1 |
| | L120 | M16 S | 120 | 16 | 17 | 29 | 29 | 2 |
| | L145 | M16 | 145 | 16 | 17 | 29 | 39 | 1 |
| 69871 ISO50 | L085 | M10 | 85 | 10 | 10,5 | 18 | 28 | 1 |
| | L135 | M10 | 135 | 10 | 10,5 | 18 | 28 | 1 |
| | L185 | M10 | 185 | 10 | 10,5 | 18 | 32 | 1 |
| 69871 ISO50 | L085 | M12 | 85 | 12 | 12,5 | 21 | 32 | 1 |
| | L135 | M12 | 135 | 12 | 12,5 | 21 | 32 | 1 |
| | L185 | M12 | 185 | 12 | 12,5 | 21 | 36 | 1 |
| 69871 ISO50 | L085 | M16 | 85 | 16 | 17 | 29 | 36 | 1 |
| | L135 | M16 | 135 | 16 | 17 | 29 | 36 | 1 |
| | L185 | M16 | 185 | 16 | 17 | 29 | 42 | 1 |

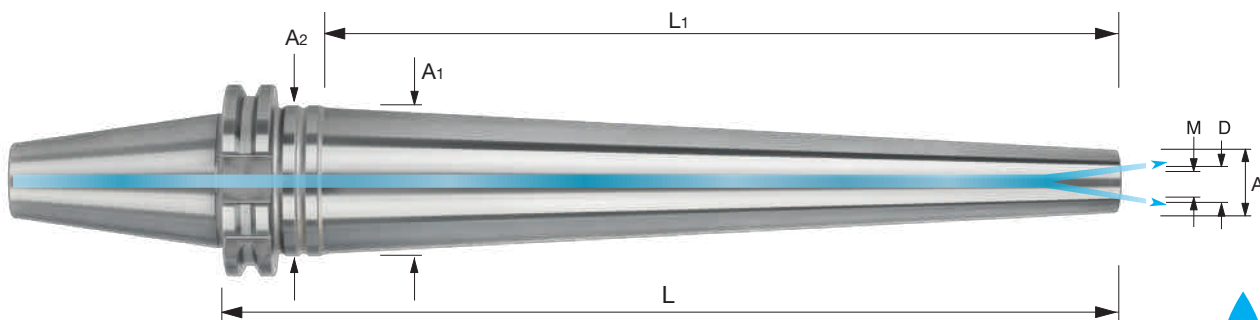
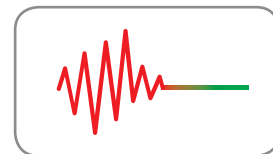
ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

69871 ISO50 L169 M12

69871...M...

DIN 69871 AD



69871...M...

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | | |
|-----------------------------------|---------------------------------|----|------|----|----|----|-----|
| | L | M | D | A | A1 | A2 | L1 |
| 69871 ISO40 A L200 M10 ANTIVIBR W | 200 | 10 | 10,5 | 18 | 35 | 50 | 165 |
| L250 M10 ANTIVIBR W | 250 | 10 | 10,5 | 18 | 41 | 50 | 215 |
| 69871 ISO40 A L200 M12 ANTIVIBR W | 200 | 12 | 12,5 | 21 | 38 | 50 | 165 |
| L250 M12 ANTIVIBR W | 250 | 12 | 12,5 | 21 | 44 | 50 | 215 |
| 69871 ISO40 A L250 M16 ANTIVIBR W | 250 | 16 | 17 | 29 | 48 | 50 | 215 |
| 69871 ISO50 A L300 M12 ANTIVIBR W | 300 | 12 | 12,5 | 21 | 49 | 80 | 265 |
| 69871 ISO50 A L300 M16 ANTIVIBR W | 300 | 16 | 17 | 29 | 57 | 80 | 265 |

BILANCIATURA
BALANCED / GEWUCHTET

ISO40

G. 6,3 15.000 g/min.

ISO50

G. 6,3 10.000 g/min.

ESEMPIO DI ORDINE:

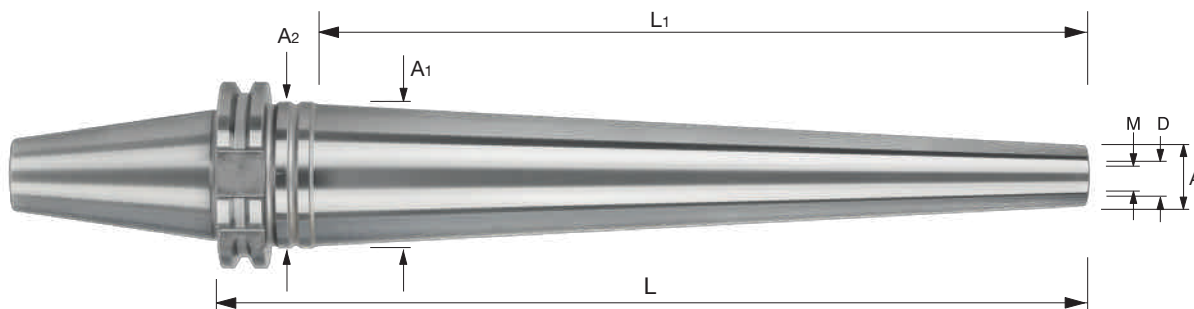
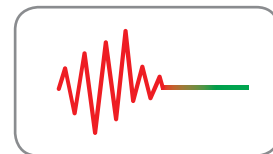
Order example:
Beispiel für einen Auftrag:

69871 ISO50 A L300 M16 ANTIVIBR W

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69871...M...

DIN 69871 AD



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | | | |
|----------------|---------------------------------|-----|----|------|----|----|----|-----|
| | L | M | D | A | A1 | A2 | L1 | |
| 69871 ISO40 | L200 M10 ANTIVIBR | 200 | 10 | 10,5 | 18 | 35 | 50 | 165 |
| | L250 M10 ANTIVIBR | 250 | 10 | 10,5 | 18 | 41 | 50 | 215 |
| | L300 M10 ANTIVIBR | 300 | 10 | 10,5 | 18 | 46 | 50 | 265 |
| 69871 ISO40 | L200 M12 ANTIVIBR | 200 | 12 | 12,5 | 21 | 38 | 50 | 165 |
| | L250 M12 ANTIVIBR | 250 | 12 | 12,5 | 21 | 44 | 50 | 215 |
| | L300 M12 ANTIVIBR | 300 | 12 | 12,5 | 21 | 49 | 50 | 265 |
| 69871 ISO40 | L200 M16 ANTIVIBR | 200 | 16 | 17 | 29 | 46 | 50 | 165 |
| | L250 M16 ANTIVIBR | 250 | 16 | 17 | 29 | 48 | 50 | 215 |
| | L300 M16 ANTIVIBR | 300 | 16 | 17 | 29 | 50 | 50 | 265 |
| 69871 ISO50 | L250 M12 ANTIVIBR | 250 | 12 | 12,5 | 21 | 44 | 80 | 215 |
| | L300 M12 ANTIVIBR | 300 | 12 | 12,5 | 21 | 49 | 80 | 265 |
| | L400 M12 ANTIVIBR | 400 | 12 | 12,5 | 21 | 60 | 80 | 365 |
| 69871 ISO50 | L250 M16 ANTIVIBR | 250 | 16 | 17 | 29 | 52 | 80 | 215 |
| | L300 M16 ANTIVIBR | 300 | 16 | 17 | 29 | 57 | 80 | 265 |
| | L400 M16 ANTIVIBR | 400 | 16 | 17 | 29 | 68 | 80 | 365 |
| | L500 M16 ANTIVIBR | 500 | 16 | 17 | 29 | 78 | 80 | 465 |

BILANCIATURA
BALANCED / GEWUCHTET

ISO40

G. 6,3 15.000 g/min.

ISO50

G. 6,3 10.000 g/min.

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO50 L500 M16 ANTIVIBR

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Mandrino con stelo tenero lavorabile
Boring bar blanks with soft body
Rohling-Werkzeugaufnahme



69871...STL

DIN 69871 A



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | |
|-------------------------|---------------------------------|----|
| | L | A |
| 69871 ISO40 L250 STL 63 | 250 | 63 |
| 69871 ISO50 L315 STL 97 | 315 | 97 |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69871 ISO40 L250 STL63

69871...CM...PF

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

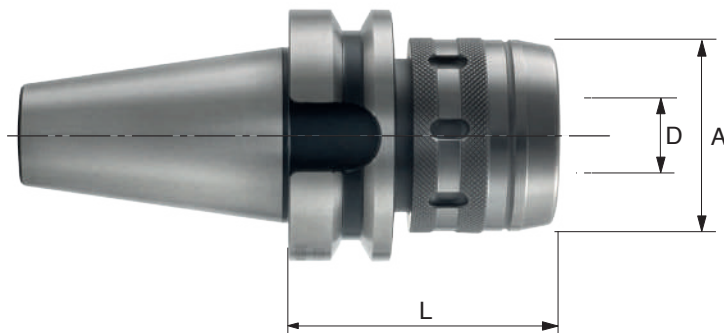
Mandrini a forte serraggio
Heavy-duty chucks
Kraftspannfutter

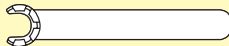


FS MAS403 BT...D...

MAS403 BT AD/B

FS



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | PINZE COLLET SPANNZANGE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER  |
|---------------------------|--------------------------------|-----|-----|-------------------------------|--|
| | D | L | A | | |
| FS MAS403 BT40AB L080 D20 | 20 | 80 | 50 | 4FS20... | CHFSD 20 |
| | L085 D32 | 32 | 85 | 62 | 4FS32... |
| FS MAS403 BT50AB L100 D20 | 20 | 100 | 50 | 4FS20... | CHFSD 20 |
| | L100 D32 | 32 | 100 | 62 | 4FS32... |

BILANCIATURA
BALANCED / GEWUCHTET

G. 6.3 15.000 g/min.

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

FS MAS403 BT50AB L100 D20

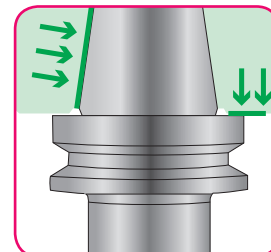
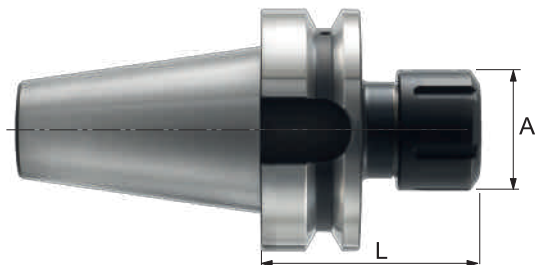
FS MAS403 BT...D...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

DC MAS403 BT...ER...

**JIS-B 6399 - MAS403BT AD
DIN 6499**

DC



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | GHIERA NUT ÜBERWURFMUTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER | PINZE COLLET SPANNZANGE | | | | | | |
|-----------------------|---------------------------------|------|---|---------------------------------|--|---|-------------------------------|--------|------|-------|-------|--------|------|
| | L | A | capacità pinza Collect range Zangenspannbereich | | | | | | | | | | |
| DC MAS403 BT40 | L070 | ER16 | 70 | 32 | 1÷10 | GER16 | GRR16-20 | CH16 S | ER16 | | | | |
| | L100 | ER16 | 100 | 32 | 1÷10 | | | | | | | | |
| | L160 | ER16 | 160 | 32 | 1÷10 | | | | | | | | |
| | L070 | ER25 | 70 | 42 | 1÷16 | | | | | | | | |
| | L100 | ER25 | 100 | 42 | 1÷16 | | | | | | | | |
| | L160 | ER25 | 160 | 42 | 1÷16 | | | | | | | | |
| | L070 | ER32 | 70 | 50 | 2÷20 | | | | | | | | |
| | L100 | ER32 | 100 | 50 | 2÷20 | | | | | | | | |
| | L160 | ER32 | 160 | 50 | 2÷20 | | | | | | | | |
| DC MAS403 BT50 | L080 | ER16 | 80 | 32 | 1÷10 | GER16 | GRR16-20 | CH16 S | ER16 | | | | |
| | L100 | ER16 | 100 | 32 | 1÷10 | | | | | | | | |
| | L160 | ER16 | 160 | 32 | 1÷10 | | | | | | | | |
| | L080 | ER25 | 80 | 42 | 1÷16 | | | | | | | | |
| | L100 | ER25 | 100 | 42 | 1÷16 | | | | | | | | |
| | L160 | ER25 | 160 | 42 | 1÷16 | | | | | | | | |
| | L080 | ER32 | 80 | 50 | 2÷20 | | | | | | | | |
| | L100 | ER32 | 100 | 50 | 2÷20 | | | | | | | | |
| | L160 | ER32 | 160 | 50 | 2÷20 | | | | | | | | |
| | L080 | ER40 | 80 | 63 | 3÷30 | | | | | GER40 | GRR40 | CH40 S | ER40 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT40 L160 ER25

DC MAS403 BT...ER...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MAS403 BT...ER...

**JIS-B 6399 - MAS403BT AD/B
DIN 6499**

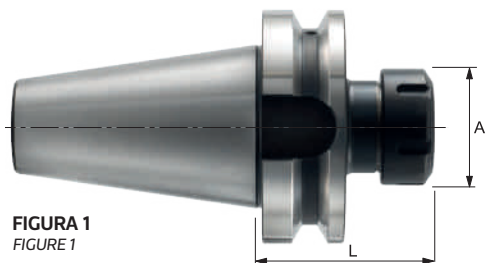


FIGURA 1
FIGURE 1

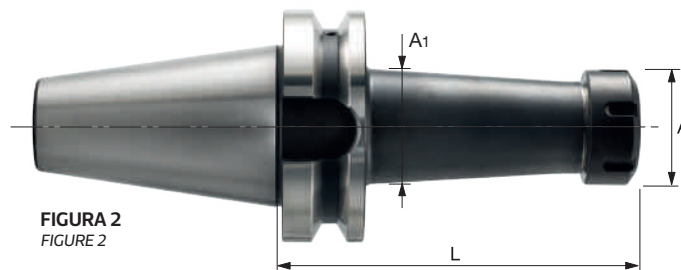


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | FIGURA FIGURE | GHIERA NUT ÜBERWURF- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE |
|-------------------------|---------------------------------|----|----|---|------------------|-------------------------------------|--|--|-------------------------------|
| | L | A | A1 | capacità pinza Collect range Zangenspannbereich | | | | | |
| MAS403 BT40 L100 ER16 M | 100 | 22 | 26 | 1÷10 | 1 | GER16 M | GRR 16-20 | CH16 M | ER16 |
| L130 ER16 M | 130 | 22 | 28 | 1÷10 | 1 | | | | |
| L160 ER16 M | 160 | 22 | 30 | 1÷10 | 1 | | | | |
| L200 ER16 M | 200 | 22 | 30 | 1÷10 | 1 | | | | |
| MAS403 BT40 L130 ER20 M | 130 | 28 | 30 | 1÷13 | 1 | GER20 M | GRR 25 | CH20 M | ER20 |
| L160 ER20 M | 160 | 28 | 30 | 1÷13 | 1 | | | | |
| L200 ER20 M | 200 | 28 | 33 | 1÷13 | 1 | | | | |
| MAS403 BT40 L130 ER25 M | 130 | 35 | 33 | 1÷16 | 1 | GER25 M | GRR 16-20 | CH25 M | ER25 |
| L160 ER25 M | 160 | 35 | 33 | 1÷16 | 1 | | | | |
| L200 ER25 M | 200 | 35 | 33 | 1÷16 | 1 | | | | |
| MAS403 BT40 L070 ER16 | 70 | 32 | - | 1÷10 | 1 | GER16 | GRR 16-20 | CH16 S | ER16 |
| L100 ER16 | 100 | 32 | 32 | 1÷10 | 2 | | | | |
| L160 ER16 | 160 | 32 | 31 | 1÷10 | 2 | | | | |
| L200 ER16 | 200 | 32 | 32 | 1÷10 | 2 | | | | |
| MAS403 BT40 L070 ER20 | 70 | 35 | - | 1÷13 | 1 | GER20 | GRR 20 | CH20 S | ER20 |
| L100 ER20 | 100 | 35 | 35 | 1÷13 | 2 | | | | |
| L160 ER20 | 160 | 35 | 37 | 1÷13 | 2 | | | | |
| MAS403 BT40 L070 ER25 | 70 | 42 | - | 1÷16 | 1 | GER25 | GRR 25 | CH25 S | ER25 |
| L100 ER25 | 100 | 42 | 42 | 1÷16 | 2 | | | | |
| L160 ER25 | 160 | 42 | 40 | 1÷16 | 2 | | | | |
| L200 ER25 | 200 | 42 | 42 | 1÷16 | 2 | | | | |
| MAS403 BT40 L070 ER32 | 70 | 50 | - | 2÷20 | 1 | GER32 | GRR 32 | CH32 S | ER32 |
| L100 ER32 | 100 | 50 | 46 | 2÷20 | 2 | | | | |
| L160 ER32 | 160 | 50 | 48 | 2÷20 | 2 | | | | |
| L200 ER32 | 200 | 50 | 50 | 2÷20 | 2 | | | | |
| MAS403 BT40 L070 ER40 | 70 | 63 | - | 3÷30 | 1 | GER40 | GRR 40 | CH40 S | ER40 |
| L100 ER40 | 100 | 63 | 50 | 3÷30 | 2 | | | | |
| L160 ER40 | 160 | 63 | 50 | 3÷30 | 2 | | | | |
| L200 ER40 | 200 | 63 | 50 | 3÷30 | 2 | | | | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT40 L160 ER25

MAS403 BT...ER...

**JIS-B 6399 - MAS403BT AD/B
DIN 6499**

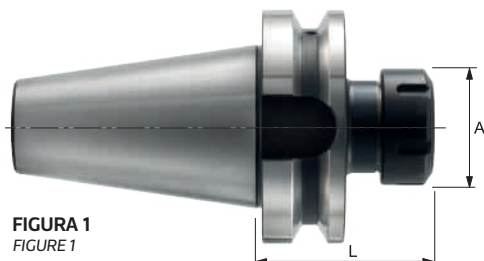


FIGURA 1
FIGURE 1

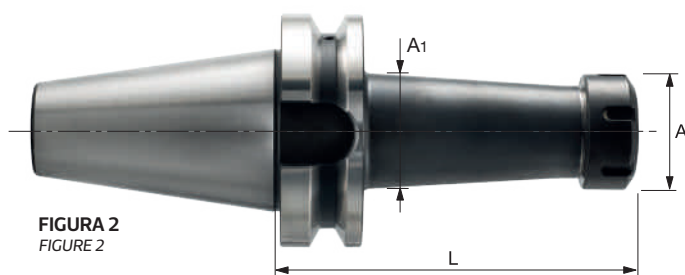


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßSEE | | | | FIGURA FIGURE | GHIERA NUT ÜBERWURF- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE |
|-------------------------|-----------------------------------|----|----|---|------------------|-------------------------------------|--|--|-------------------------------|
| | L | A | A1 | capacità pinza Collect range Zangenspannbereich | | | | | |
| MAS403 BT50 L130 ER20 M | 130 | 28 | 30 | 1÷13 | 1 | GER20 M | GRR 16-20 | CH20 M | ER20 |
| L160 ER20 M | 160 | 28 | 32 | 1÷13 | 1 | | | | |
| L200 ER20 M | 200 | 28 | 35 | 1÷13 | 1 | | | | |
| MAS403 BT50 L130 ER25 M | 130 | 35 | 30 | 1÷16 | 1 | GER25 M | GRR 25 | CH25 M | ER25 |
| L160 ER25 M | 160 | 35 | 38 | 1÷16 | 1 | | | | |
| L200 ER25 M | 200 | 35 | 40 | 1÷16 | 1 | | | | |
| MAS403 BT50 L080 ER25 | 80 | 42 | - | 1÷16 | 1 | GER25 | GRR 25 | CH25 S | ER25 |
| L130 ER25 | 130 | 42 | 42 | 1÷16 | 2 | | | | |
| L160 ER25 | 160 | 42 | 42 | 1÷16 | 2 | | | | |
| L200 ER25 | 200 | 42 | 42 | 1÷16 | 2 | | | | |
| MAS403 BT50 L080 ER32 | 80 | 50 | - | 2÷20 | 1 | GER32 | GRR 32 | CH32 S | ER32 |
| L130 ER32 | 130 | 50 | 50 | 2÷20 | 2 | | | | |
| L160 ER32 | 160 | 50 | 50 | 2÷20 | 2 | | | | |
| L200 ER32 | 200 | 50 | 50 | 2÷20 | 2 | | | | |
| MAS403 BT50 L080 ER40 | 80 | 63 | - | 3÷30 | 1 | GER40 | GRR 40 | CH40 S | ER40 |
| L130 ER40 | 130 | 63 | 60 | 3÷30 | 2 | | | | |
| L160 ER40 | 160 | 63 | 57 | 3÷30 | 2 | | | | |
| L200 ER40 | 200 | 63 | 57 | 3÷30 | 2 | | | | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT50 L130 ER25

MAS403 BT...CM...PF

JIS-B 6399 - MAS403BT AD/B
DIN 228-2

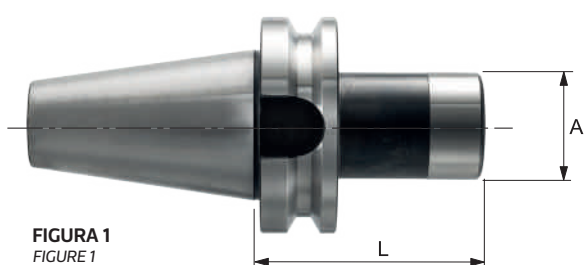


FIGURA 1
FIGURE 1

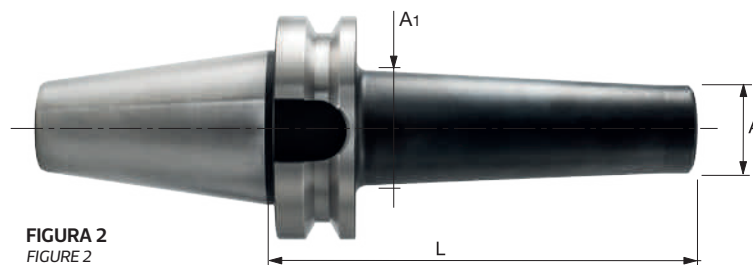




FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | GHIERA NUT ÜBERWURFMUTTER  | VITE INTERNA INTERNAL SCREW SPANNSCHRAUBE  | | |
|----------------|---------------------------------|--------|-----|------------------|--|--|-------|------------------|
| | L | A | A1 | | | | | |
| MAS403 BT40 | L050 | CM1 PF | 50 | 25 | - | 1 | GCM 1 | TCM 1 |
| | L120 | CM1 PF | 120 | 18 | 25 | 2 | | |
| MAS403 BT40 | L050 | CM2 PF | 50 | 32 | - | 1 | GCM 2 | TCM 2 |
| | L120 | CM2 PF | 120 | 25 | 32 | 2 | | |
| MAS403 BT40 | L075 | CM3 PF | 75 | 40 | - | 1 | GCM 3 | TCM 3B TCM 3A |
| | L135 | CM3 PF | 135 | 33 | 40 | 2 | | |
| MAS403 BT40 | L095 | CM4 PF | 95 | 48 | - | 1 | GCM 4 | TCM 4A |
| | L165 | CM4 PF | 165 | 40 | 48 | 2 | | |
| MAS403 BT50 | L050 | CM2 PF | 50 | 32 | - | 1 | GCM 2 | TCM 2 |
| | L185 | CM2 PF | 185 | 25 | 32 | 2 | | |
| MAS403 BT50 | L065 | CM3 PF | 65 | 40 | - | 1 | GCM3 | TCM 3B TCM 3A |
| | L185 | CM3 PF | 185 | 33 | 40 | 2 | | |
| MAS403 BT50 | L095 | CM4 PF | 95 | 48 | - | 1 | GCM 4 | TCM 4A |
| | L185 | CM4 PF | 185 | 40 | 48 | 2 | | |

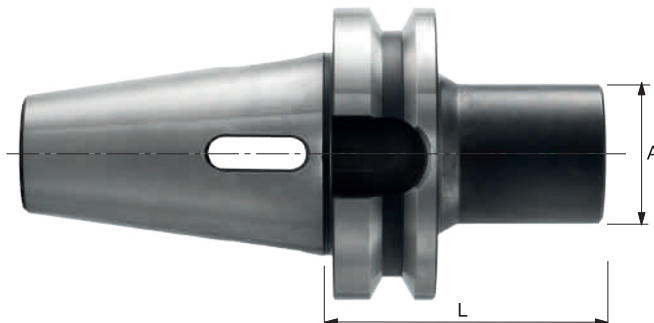
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT40 L070 CM3 PF

MAS403 BT...CM...PP

**JIS-B 6399 - MAS403BT AD/B
DIN 228-2**



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | |
|-------------------------|---------------------------------|----|
| | L | A |
| MAS403 BT40 L050 CM1 PP | 50 | 25 |
| MAS403 BT40 L060 CM2 PP | 60 | 32 |
| MAS403 BT40 L076 CM3 PP | 76 | 40 |
| MAS403 BT40 L095 CM4 PP | 95 | 48 |
| MAS403 BT50 L045 CM1 PP | 45 | 25 |
| MAS403 BT50 L060 CM2 PP | 60 | 32 |
| MAS403 BT50 L065 CM3 PP | 65 | 40 |
| MAS403 BT50 L095 CM4 PP | 95 | 48 |
| MAS403 BT50 L105 CM5 PP | 105 | 63 |

ESEMPIO DI ORDINE:

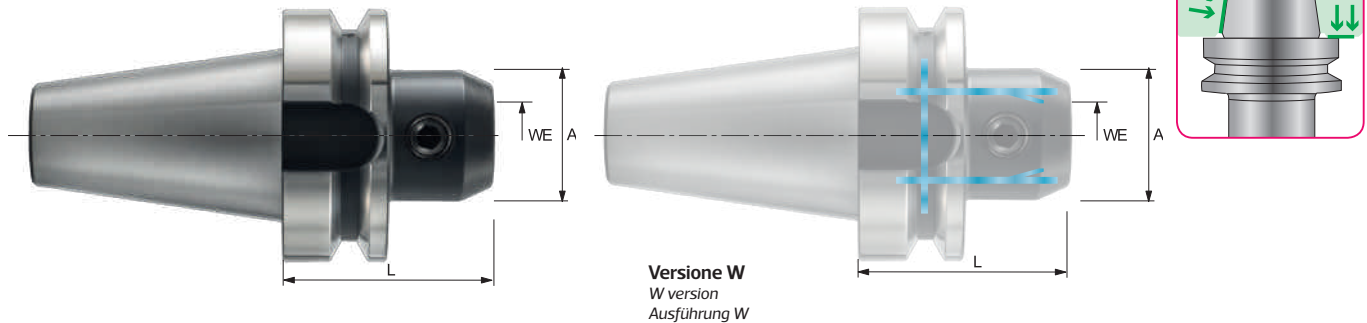
Order example:
Beispiel für einen Auftrag:

MAS403 BT40 L050 CM2 PP

DC MAS403 BT...WE...

**JIS-B 6399 - MAS403BT AD
DIN1835-B**

DC



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | Canalini Passaggio Refrigerante Coolant ducts Kühlmittelbohrung | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT |
|----------------|---------------------------------|-----|---|--|
| | L | A | | |
| DC MAS403 BT40 | L050 WE6 W | 50 | 25 | GRW 6 |
| | L050 WE8 W | 50 | 28 | GRW 8 |
| | L063 WE10 W | 63 | 35 | GRW 10 |
| | L063 WE12 W | 63 | 42 | GRW 12-14 |
| | L063 WE14 W | 63 | 44 | GRW 12-14 |
| | L063 WE16 W | 63 | 48 | GRW 16-18 |
| | L063 WE16 | 63 | 48 | GRW 16-18 |
| | L063 WE18 W | 63 | 50 | GRW 16-18 |
| | L063 WE20 W | 63 | 52 | GRW 20 |
| | L063 WE20 | 63 | 52 | GRW 20 |
| | L100 WE25 W | 100 | 65 | GRW 25 |
| | L100 WE25 | 100 | 65 | GRW 25 |
| | L100 WE32 | 100 | 72 | GRW 32-40 |
| DC MAS403 BT50 | L063 WE6 W | 63 | 25 | GRW 6 |
| | L063 WE8 W | 63 | 28 | GRW 8 |
| | L063 WE10 W | 63 | 35 | GRW 10 |
| | L080 WE12 W | 63 | 42 | GRW 12-14 |
| | L080 WE14 W | 63 | 44 | GRW 12-14 |
| | L080 WE16 W | 63 | 48 | GRW 16-18 |
| | L080 WE16 | 63 | 48 | GRW 16-18 |
| | L080 WE18 W | 63 | 50 | GRW 16-18 |
| | L080 WE20 W | 63 | 52 | GRW 20 |
| | L080 WE20 | 63 | 52 | GRW 20 |
| | L100 WE25 W | 100 | 65 | GRW 25 |
| | L100 WE25 | 100 | 65 | GRW 25 |
| | L105 WE32 | 100 | 72 | GRW 32-40 |
| L120 WE40 | 112 | 80 | GRW 32-40 | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DC MAS403 BT50 L100 WE25 W

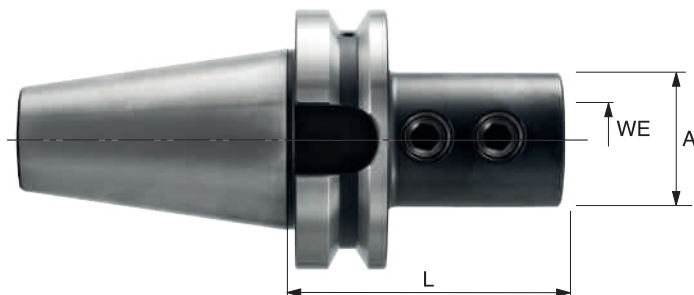
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME


Mandrini Weldon ridotti
Reduced Weldon chucks
Reduziert Spannfutter Weldon



MAS403 BT...WE...A...

JIS-B 6399 - MAS403BT AD/B
DIN 1835-B



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | GRANO DI FISSAGGIO SECURITY DOWEL  | |
|--------------------|---------------------------------|----|-----|---|--------------------------------------|
| | WE | L | A | | |
| MAS403 BT40 | L075 WE20 A40 | 20 | 75 | 40 | GRW20A GRW25A GRW32A GRW40A |
| | L090 WE25 A45 | 25 | 90 | 45 | |
| | L095 WE32 A52 | 32 | 95 | 52 | |
| | L120 WE40 A71 | 40 | 120 | 71 | |
| MAS403 BT50 | L085 WE20 A40 | 20 | 85 | 40 | GRW20A GRW25A GRW32A GRW40A |
| | L100 WE25 A45 | 25 | 100 | 45 | |
| | L105 WE32 A52 | 32 | 105 | 52 | |
| | L120 WE40 A71 | 40 | 120 | 71 | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

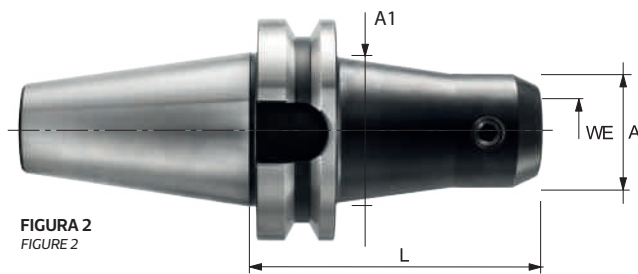
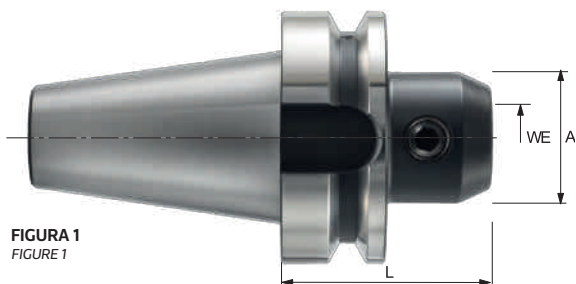
MAS403 BT40 L090 WE32 A52

MAS403 BT...WE...A...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MAS403 BT...WE...

JIS-B 6399 - MAS403BT AD/B (AD) DIN 1835-B



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | CANALI REFRIGERANTI COOLANT DUCTS KÜHLMITTELBOHRUNG | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT |
|----------------|---------------------------------|-----|----|------------------|---|--|
| | L | A | A1 | | | |
| MAS403 BT40 | L050 WE6 W | 50 | 25 | - | 1 | GRW 6 |
| | L100 WE6 | 100 | 25 | 35 | 2 | - |
| | L160 WE6 | 160 | 25 | 35 | 2 | - |
| MAS403 BT40 | L050 WE8 W | 50 | 28 | - | 1 | GRW 8 |
| | L100 WE8 | 100 | 28 | 38 | 2 | - |
| | L160 WE8 | 160 | 28 | 38 | 2 | - |
| MAS403 BT40 | L063 WE10 W | 63 | 35 | - | 1 | GRW 10 |
| | L100 WE10 | 100 | 35 | 40 | 2 | - |
| | L160 WE10 | 160 | 35 | 40 | 2 | - |
| MAS403 BT40 | L063 WE12 W | 63 | 42 | - | 1 | GRW 12-14 |
| | L100 WE12 | 100 | 42 | - | 1 | - |
| | L160 WE12 | 160 | 42 | - | 1 | - |
| MAS403 BT40 | L063 WE14 W | 63 | 44 | - | 1 | GRW 12-14 |
| | L100 WE14 | 100 | 44 | - | 1 | - |
| | L160 WE14 | 160 | 44 | - | 1 | - |
| MAS403 BT40 | L035 WE16 | 35 | 48 | - | 1 | GRW 16-18B |
| | L063 WE16 W | 63 | 48 | - | 1 | - |
| | L063 WE16 | 63 | 48 | - | 1 | GRW 16-18 |
| | L100 WE16 | 100 | 48 | - | 1 | - |
| | L160 WE16 | 160 | 48 | - | 1 | - |
| MAS403 BT40 | L063 WE18 W | 63 | 50 | - | 1 | GRW 16-18 |
| | L100 WE18 | 100 | 50 | - | 1 | - |
| | L160 WE18 | 160 | 50 | - | 1 | - |
| MAS403 BT40 | L035 WE20 | 35 | 44 | - | 1 | GRW 20B |
| | L063 WE20 W | 63 | 52 | - | 1 | - |
| | L063 WE20 | 63 | 52 | - | 1 | GRW 20 |
| | L100 WE20 | 100 | 52 | - | 1 | - |
| | L160 WE20 | 160 | 52 | - | 1 | - |
| MAS403 BT40 | L035 WE25 | 35 | 49 | - | 1 | - |
| | L090 WE25 W | 90 | 65 | - | 1 | GRW 25 |
| | L090 WE25 | 90 | 65 | - | 1 | - |
| | L160 WE25 | 160 | 65 | - | 1 | - |
| MAS403 BT40 | L100 WE32 | 100 | 72 | - | 1 | GRW 32-40 |
| | L160 WE32 | 160 | 72 | - | 1 | - |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT40 L063 WE20

MAS403 BT...WE...

JIS-B 6399 - MAS403BT AD/B (AD)
DIN 1835-B

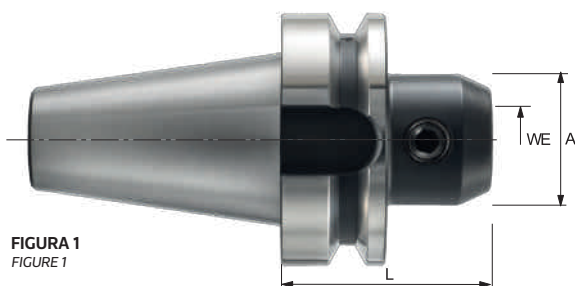


FIGURA 1
FIGURE 1

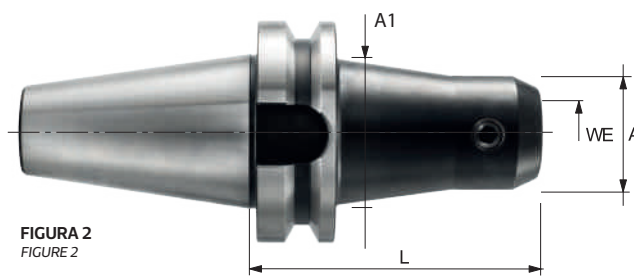


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | CANALI REFRIGERANTI COOLANT DUCTS KÜHLMITTELBOHRUNG | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT |
|--|---------------------------------|----|----|------------------|---|--|
| | L | A | A1 | | | |
| MAS403 BT50 L063 WE6 W L130 WE6 | 63 | 25 | - | 1 | • | GRW 6 |
| | 130 | 25 | 35 | 2 | - | |
| MAS403 BT50 L063 WE8 W L130 WE8 | 63 | 28 | - | 1 | • | GRW 8 |
| | 130 | 28 | 38 | 2 | - | |
| MAS403 BT50 L070 WE10 W L130 WE10 | 70 | 35 | - | 1 | • | GRW 10 |
| | 130 | 35 | 42 | 2 | - | |
| MAS403 BT50 L080 WE12 W L130 WE12 | 80 | 42 | - | 1 | • | GRW 12-14 |
| | 130 | 42 | 48 | 2 | - | |
| MAS403 BT50 L080 WE14 W L130 WE14 | 80 | 44 | - | 1 | • | GRW 12-14 |
| | 130 | 44 | 50 | 2 | - | |
| MAS403 BT50 L044 WE16 L080 WE16 W L080 WE16 L130 WE16 | 44 | 70 | - | 1 | - | GRW 16-18B |
| | 80 | 48 | - | 1 | • | |
| | 80 | 48 | - | 1 | - | |
| | 130 | 48 | 54 | 2 | - | |
| MAS403 BT50 L080 WE18 W L130 WE18 | 80 | 50 | - | 1 | • | GRW 16-18 |
| | 130 | 50 | 56 | 2 | - | |
| MAS403 BT50 L044 WE20 L080 WE20 W L080 WE20 L130 WE20 | 44 | 70 | - | 1 | - | GRW 20B |
| | 80 | 52 | - | 1 | • | |
| | 80 | 52 | - | 1 | - | |
| | 130 | 52 | 66 | 2 | - | |
| MAS403 BT50 L044 WE25 L100 WE25 W L100 WE25 L130 WE25 L200 WE25 | 44 | 70 | - | 1 | - | GRW 25 |
| | 100 | 65 | - | 1 | • | |
| | 100 | 65 | - | 1 | - | |
| | 130 | 65 | 72 | 2 | - | |
| | 200 | 65 | 72 | 2 | - | |
| MAS403 BT50 L044 WE32 L105 WE32 L130 WE32 L200 WE32 | 44 | 70 | - | 1 | - | GRW 32-40 |
| | 105 | 72 | - | 1 | - | |
| | 130 | 72 | - | 1 | - | |
| | 200 | 72 | - | 1 | - | |
| MAS403 BT50 L120 WE40 L160 WE40 | 120 | 80 | - | 1 | - | GRW 32-40 |
| | 160 | 80 | - | 1 | - | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT50 L063 WE6

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

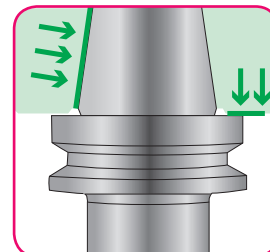
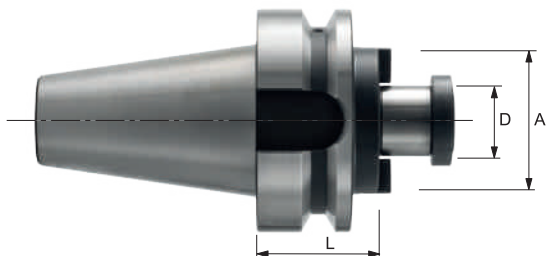
Porta frese
Milling cutter holders
Aufsteckfräserdorn





DC MAS403 BT...PF...

**JIS-B 6399 - MAS403BT AD/B
ISO 3937**

DC



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|---------------------------------|---------------------------------|-----|----|--|---|
| | L | A | D | | |
| DC MAS403 BT40 L045 PF16 | 45 | 38 | 16 | VS16 | TS 16S |
| | L100 PF16 | 100 | 38 | | |
| | L160 PF16 | 160 | 38 | | |
| L045 PF22 | 45 | 48 | 22 | VS22 | TS 22S |
| | L100 PF22 | 100 | 48 | | |
| | L160 PF22 | 160 | 48 | | |
| L050 PF27 | 50 | 58 | 27 | VS27 | TS 27S |
| | L100 PF27 | 100 | 58 | | |
| | L160 PF27 | 160 | 58 | | |
| L050 PF32 | 50 | 78 | 32 | VS32 | TS 32S |
| DC MAS403 BT40 L050 PF16 | 50 | 38 | 16 | VS16 | TS 16S |
| | L160 PF16 | 160 | 38 | | |
| | L055 PF22 | 55 | 48 | | |
| L160 PF22 | 160 | 48 | | | |
| L055 PF27 | 55 | 58 | 27 | VS27 | TS 27S |
| L160 PF27 | 160 | 58 | | | |
| L055 PF32 | 55 | 78 | 32 | | |
| L160 PF32 | 160 | 78 | | | |
| L055 PF40 | 55 | 78 | 40 | VS40 | TS 40S |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DC MAS403 BT40 L055 PF40

DC MAS403 BT...PF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MAS403 BT...PF...A...

JIS-B 6399
MAS403BT AD/B

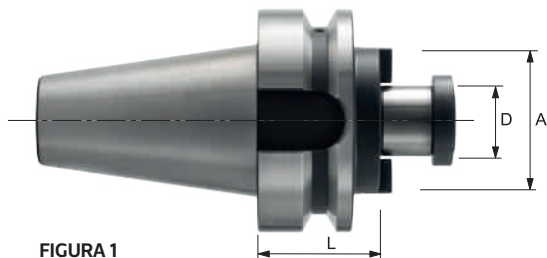


FIGURA 1
FIGURE 1

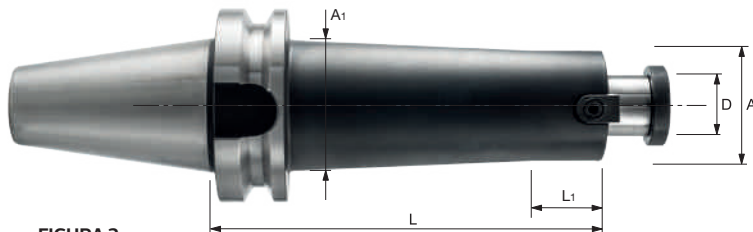


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | FIGURA FIGURE. | FRESE DI RIFERIMENTO REFERENCE MILLING CUTTER REFERENZFRÄSER | VITE DI SERRAGGIO CLIPPING SCREW FRÄSERANZUGSS- CHRAUBE | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN | | |
|--------------------|---------------------------------|-----|-----|----------------|----------------|-------------------|--|---|---|-------|--------|
| | L | A | D | A ₁ | L ₁ | | | | | | |
| MAS403 BT40 | L045 PF22 | A59 | 45 | 59 | 22 | 59 | - | 1 | T2088 | VS 22 | TS 22C |
| | L100 PF22 | A59 | 100 | 59 | 22 | 59 | - | 1 | | | |
| MAS403 BT50 | L055 PF22 | A59 | 55 | 59 | 22 | 59 | - | 1 | T2088 | VS 22 | TS 22C |
| | L100 PF22 | A59 | 100 | 59 | 22 | 80 | 40 | 2 | | | |
| | L160 PF22 | A59 | 160 | 59 | 22 | 80 | 90 | 2 | | | |
| MAS403 BT50 | L050 PF32 | A69 | 50 | 69 | 32 | 69 | - | 1 | T2088 | VS 32 | TS 32F |
| | L100 PF32 | A69 | 100 | 69 | 32 | 69 | - | 1 | | | |
| | L160 PF32 | A69 | 160 | 69 | 32 | 80 | 90 | 2 | | | |

MANDRINI CON SUPERFICIE DI APPOGGIO DELLA FRESE MAGGIORATO
HOLDERS WITH INCREASED FACE / WERKZEUGAUFNAHME MIT VERGRÖSSERTER AUFLAGEFLÄCHE

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT50 L160 PF32 A69

MAS403 BT...PF...

JIS-B 6399 - MAS403BT AD/B
ISO 3937

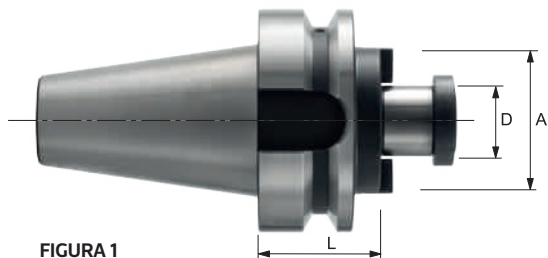


FIGURA 1
 FIGURE 1

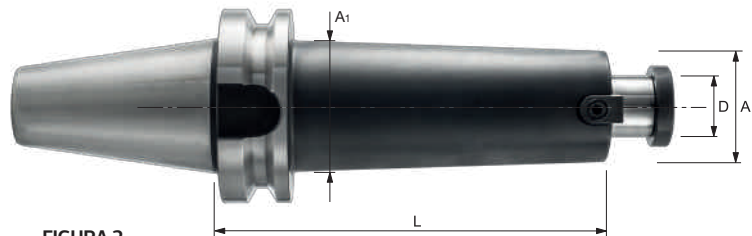


FIGURA 2
 FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | FIGURA FIGURE | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN | | |
|----------------|---------------------------------|-------|-----|----------------|------------------|---|--|-------|----------------------------|
| | L | A | D | A ₁ | | | | | |
| MAS403 BT40 | L035 | PF 16 | 35 | 46 | 16 | - | 1 | VS 16 | TS 16C TS 16A |
| | L100 | PF 16 | 100 | 32 | 16 | 40 | 2 | | |
| MAS403 BT40 | L035 | PF 22 | 35 | 59 | 22 | - | 1 | VS 22 | TS 22B TS 22A |
| | L100 | PF 22 | 100 | 40 | 22 | 48 | 2 | | |
| MAS403 BT40 | L035 | PF 27 | 35 | 58 | 27 | - | 1 | VS 27 | TS 27D TS 27B TS 27A |
| | L045 | PF 27 | 45 | 58 | 27 | - | 1 | | |
| | L100 | PF 27 | 100 | 48 | 27 | - | 1 | | |
| MAS403 BT40 | L050 | PF 32 | 50 | 78 | 32 | - | 1 | VS 32 | TS 32B TS 32A |
| | L100 | PF 32 | 100 | 58 | 32 | - | 1 | | |
| MAS403 BT40 | L055 | PF 40 | 55 | 88 | 40 | - | 1 | VS 40 | TS 40B TS 40A |
| | L100 | PF 40 | 100 | 70 | 40 | - | 1 | | |
| MAS403 BT50 | L050 | PF 16 | 50 | 46 | 16 | - | 1 | VS 16 | TS 16B TS 16A |
| | L100 | PF 16 | 100 | 32 | 16 | 40 | 2 | | |
| MAS403 BT50 | L050 | PF 22 | 50 | 48 | 22 | - | 1 | VS 22 | TS 22B TS 22A TS 22B |
| | L100 | PF 22 | 100 | 40 | 22 | 52 | 2 | | |
| | L160 | PF 22 | 160 | 46 | 22 | 49 | 2 | | |
| MAS403 BT50 | L050 | PF 27 | 50 | 58 | 27 | - | 1 | VS 27 | TS 27C TS 27A TS 27B |
| | L100 | PF 27 | 100 | 48 | 27 | 55 | 2 | | |
| | L160 | PF 27 | 160 | 55 | 27 | 78 | 2 | | |
| MAS403 BT50 | L050 | PF 32 | 50 | 66 | 32 | - | 1 | VS 32 | TS 32E TS 32A TS 32D |
| | L100 | PF 32 | 100 | 58 | 32 | 65 | 2 | | |
| | L160 | PF 32 | 160 | 66 | 32 | 78 | 2 | | |
| MAS403 BT50 | L060 | PF 40 | 60 | 88 | 40 | - | 1 | VS 40 | TS 40B TS 40A |
| | L130 | PF 40 | 130 | 70 | 40 | 78 | 2 | | |

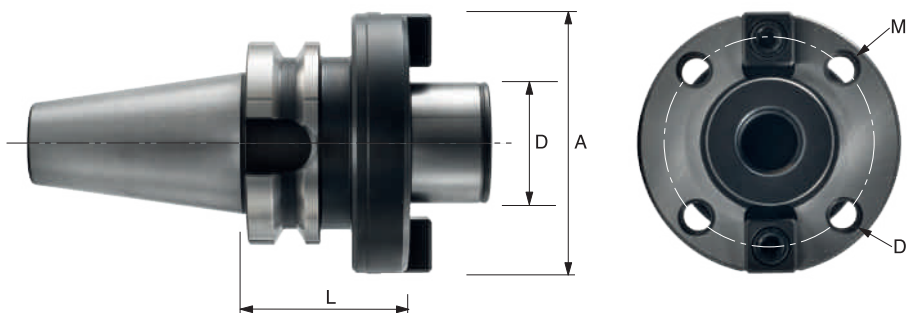
ESEMPIO DI ORDINE:



Order example:
 Beispiel für einen Auftrag:

MAS403 BT50 L050 PF22

MAS403 BT...PF...4F

**JIS-B 6399 - MAS403BT AD/B
DIN 6357**



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|---------------------------|---------------------------------|-----|----|----------------|----|--|---|
| | L | A | D | D ₁ | M | | |
| MAS403 BT40 L060 PF 40 4F | 60 | 89 | 40 | 66,7 | 12 | VS 40 | TS 40F |
| MAS403 BT50 | L070 | 89 | 40 | 66,7 | 12 | VS 40 | TS 40F |
| | L080 | 129 | 60 | 101,6 | 16 | - | TS 60F |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MAS403 BT50 L070 PF40 4F

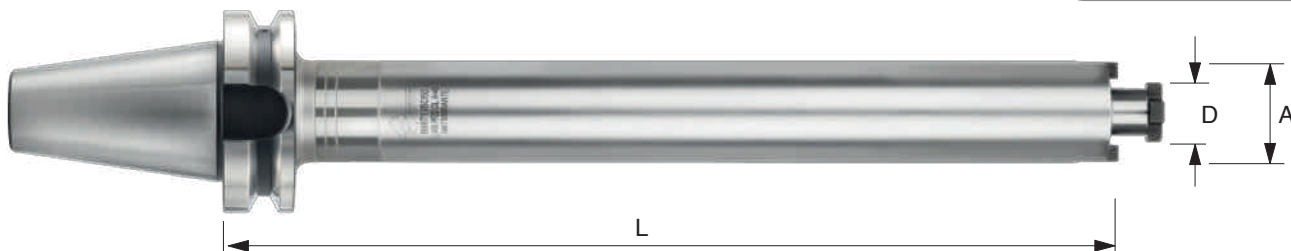
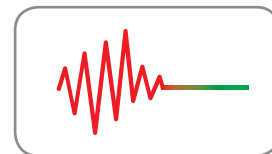
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME



Porta frese antivibranti
Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme für Einschraubfräser



MAS403 BT...PF...

JIS-B 6399 - MAS403BT
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|---|---------------------------------|----|----|---|--|
| | L | A | D | | |
| MAS403 BT40 L150 PF16 A38 ANTIVIBR | 150 | 38 | 16 | VS16 | TS 16V |
| L200 PF16 A38 ANTIVIBR | 200 | 38 | 16 | | |
| L250 PF16 A38 ANTIVIBR | 250 | 38 | 16 | | |
| L300 PF16 A38 ANTIVIBR | 300 | 38 | 16 | | |
| MAS403 BT40 L150 PF22 A48 ANTIVIBR | 150 | 48 | 22 | VS22 | TS 22V |
| L200 PF22 A48 ANTIVIBR | 200 | 48 | 22 | | |
| L250 PF22 A48 ANTIVIBR | 250 | 48 | 22 | | |
| L300 PF22 A48 ANTIVIBR | 300 | 48 | 22 | | |
| MAS403 BT40 L150 PF27 A58 ANTIVIBR | 150 | 58 | 27 | VS27 | TS 27V |
| L200 PF27 A58 ANTIVIBR | 200 | 58 | 27 | | |
| L250 PF27 A58 ANTIVIBR | 250 | 58 | 27 | | |
| L300 PF27 A58 ANTIVIBR | 300 | 58 | 27 | | |
| MAS403 BT50 L150 PF16 A38 ANTIVIBR | 150 | 38 | 16 | VS16 | TS 16V |
| L200 PF16 A38 ANTIVIBR | 200 | 38 | 16 | | |
| L250 PF16 A38 ANTIVIBR | 250 | 38 | 16 | | |
| L300 PF16 A38 ANTIVIBR | 300 | 38 | 16 | | |
| L400 PF16 A38 ANTIVIBR | 400 | 38 | 16 | | |
| MAS403 BT50 L200 PF22 A48 ANTIVIBR | 200 | 48 | 22 | VS22 | TS 22V |
| L250 PF22 A48 ANTIVIBR | 250 | 48 | 22 | | |
| L300 PF22 A48 ANTIVIBR | 300 | 48 | 22 | | |
| L400 PF22 A48 ANTIVIBR | 400 | 48 | 22 | | |
| L500 PF22 A48 ANTIVIBR | 500 | 48 | 22 | | |
| L200 PF22 A58 ANTIVIBR | 200 | 58 | 22 | | |
| L250 PF22 A58 ANTIVIBR | 250 | 58 | 22 | | |
| L300 PF22 A58 ANTIVIBR | 300 | 58 | 22 | | |
| L400 PF22 A58 ANTIVIBR | 400 | 58 | 22 | | |
| L500 PF22 A58 ANTIVIBR | 500 | 58 | 22 | | |
| MAS403 BT50 L200 PF27 A58 ANTIVIBR | 200 | 58 | 27 | VS27 | TS 27V |
| L250 PF27 A58 ANTIVIBR | 250 | 58 | 27 | | |
| L300 PF27 A58 ANTIVIBR | 300 | 58 | 27 | | |
| L400 PF27 A58 ANTIVIBR | 400 | 58 | 27 | | |
| L500 PF27 A58 ANTIVIBR | 500 | 58 | 27 | | |
| L200 PF32 A78 ANTIVIBR | 200 | 78 | 32 | VS32 | TS 32V |
| L250 PF32 A78 ANTIVIBR | 250 | 78 | 32 | | |
| L300 PF32 A78 ANTIVIBR | 300 | 78 | 32 | | |
| L400 PF32 A78 ANTIVIBR | 400 | 78 | 32 | | |
| L500 PF32 A78 ANTIVIBR | 500 | 78 | 32 | | |

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

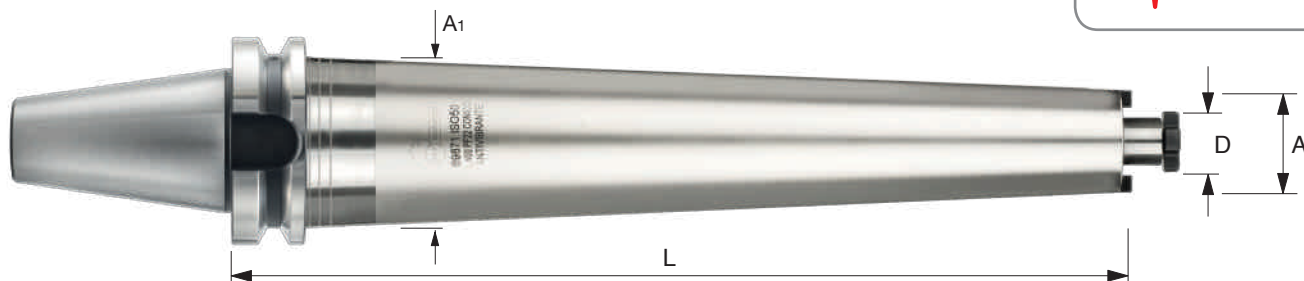
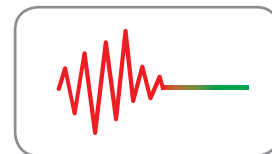
MAS403 BT50 L500 PF32 A78 ANTIVIBR



MAS403 BT...PF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MAS403 BT...PF...

JIS-B 6399 - MAS403BT
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|--------------------|---------------------------------|-----|----|----------------|---|---|
| | L | A | D | A ₁ | | |
| MAS403 BT40 | L150 PF16 ANTIVIBR | 150 | 38 | 16 | VS16 | TS 16V |
| | L200 PF16 ANTIVIBR | 200 | 38 | 16 | | |
| | L250 PF16 ANTIVIBR | 250 | 38 | 16 | | |
| | L300 PF16 ANTIVIBR | 300 | 38 | 16 | | |
| MAS403 BT40 | L150 PF22 ANTIVIBR | 150 | 48 | 22 | VS22 | TS 22V |
| | L200 PF22 ANTIVIBR | 200 | 48 | 22 | | |
| | L250 PF22 ANTIVIBR | 250 | 48 | 22 | | |
| | L300 PF22 ANTIVIBR | 300 | 48 | 22 | | |
| MAS403 BT50 | L150 PF16 ANTIVIBR | 150 | 38 | 16 | VS16 | TS 16V |
| | L200 PF16 ANTIVIBR | 200 | 38 | 16 | | |
| | L250 PF16 ANTIVIBR | 250 | 38 | 16 | | |
| | L300 PF16 ANTIVIBR | 300 | 38 | 16 | | |
| | L400 PF16 ANTIVIBR | 400 | 38 | 16 | | |
| MAS403 BT50 | L200 PF22 ANTIVIBR | 200 | 48 | 22 | VS22 | TS 22V |
| | L250 PF22 ANTIVIBR | 250 | 48 | 22 | | |
| | L300 PF22 ANTIVIBR | 300 | 48 | 22 | | |
| | L400 PF22 ANTIVIBR | 400 | 48 | 22 | | |
| | L500 PF22 ANTIVIBR | 500 | 48 | 22 | | |
| MAS403 BT50 | L200 PF27 ANTIVIBR | 200 | 58 | 27 | VS27 | TS 27V |
| | L250 PF27 ANTIVIBR | 250 | 58 | 27 | | |
| | L300 PF27 ANTIVIBR | 300 | 58 | 27 | | |
| | L400 PF27 ANTIVIBR | 400 | 58 | 27 | | |
| | L500 PF27 ANTIVIBR | 500 | 58 | 27 | | |

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

MAS403 BT50 L500 PF 27 ANTIVIBR

MAS403 BT...M...

JIS-B 6399 - MAS403BT AD/B

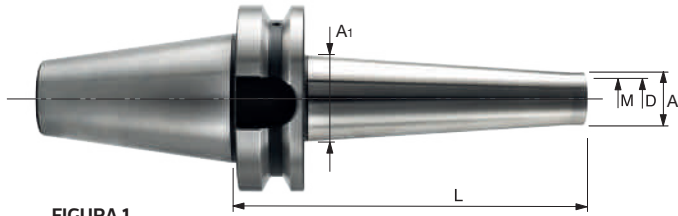


FIGURA 1
 FIGURE 1

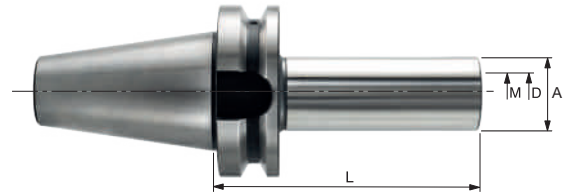


FIGURA 2
 FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | FIGURA FIGURE |
|-----------------------------|---------------------------------|----|------|------|----------------|------------------|
| | L | M | D | A | A ₁ | |
| MAS403 BT40 L063 M08 | 63 | 8 | 8,5 | 13 | 15 | 1 |
| L063 M08 S | 63 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| L083 M08 | 83 | 8 | 8,5 | 13 | 23 | 1 |
| L083 M08 S | 83 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| L103 M08 | 103 | 8 | 8,5 | 13 | 23 | 1 |
| L083 M08 S | 83 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| MAS403 BT40 L063 M10 | 63 | 10 | 10,5 | 18 | 19,5 | 1 |
| L063 M10 S | 63 | 10 | 10,5 | 18 | 18 | 2 |
| L083 M10 | 83 | 10 | 10,5 | 18 | 25 | 1 |
| L083 M10 S | 83 | 10 | 10,5 | 18 | 18 | 2 |
| L103 M10 | 103 | 10 | 10,5 | 18 | 28 | 1 |
| L103 M10 S | 103 | 10 | 10,5 | 18 | 18 | 2 |
| L123 M10 | 123 | 10 | 10,5 | 18 | 28 | 1 |
| L123 M10 S | 123 | 10 | 10,5 | 18 | 18 | 2 |
| MAS403 BT40 L083 M12 | 83 | 12 | 12,5 | 21 | 24 | 1 |
| L083 M12 S | 83 | 12 | 12,5 | 22 | 22 | 2 |
| L103 M12 | 103 | 12 | 12,5 | 21 | 31 | 1 |
| L103 M12 S | 103 | 12 | 12,5 | 22 | 22 | 2 |
| L123 M12 | 123 | 12 | 12,5 | 21 | 31 | 1 |
| L123 M12 S | 123 | 12 | 12,5 | 22 | 22 | 2 |
| MAS403 BT40 L083 M16 | 83 | 16 | 17 | 29 | 34 | 1 |
| L083 M16 S | 83 | 16 | 17 | 29 | 29 | 2 |
| L103 M16 | 103 | 16 | 17 | 29 | 34 | 1 |
| L103 M16 S | 103 | 16 | 17 | 29 | 29 | 2 |
| L123 M16 | 123 | 16 | 17 | 29 | 39 | 1 |
| L123 M16 S | 123 | 16 | 17 | 29 | 29 | 2 |
| L153 M16 | 153 | 16 | 17 | 29 | 39 | 1 |
| L153 M16 S | 153 | 16 | 17 | 29 | 29 | 2 |
| MAS403 BT50 L104 M12 | 104 | 12 | 12,5 | 21 | 32 | 1 |
| L154 M12 | 154 | 12 | 12,5 | 21 | 32 | 1 |
| L204 M12 | 204 | 12 | 12,5 | 21 | 36 | 1 |
| MAS403 BT50 L104 M16 | 104 | 16 | 17 | 29 | 36 | 1 |
| L154 M16 | 154 | 16 | 17 | 29 | 40 | 1 |
| L204 M16 | 204 | 16 | 17 | 29 | 42 | 1 |

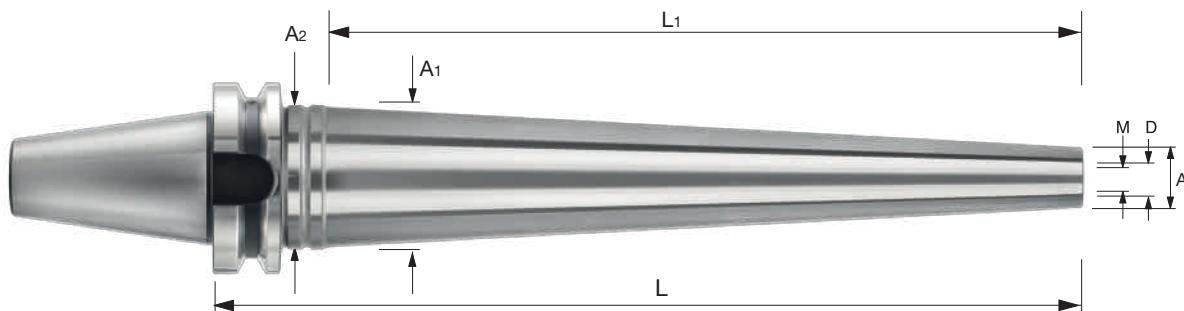
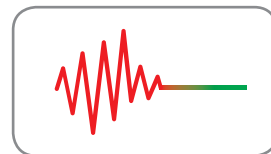
ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

MAS403 BT50 L154 M12

MAS403 BT...M...

JIS-B 6399 - MAS403BT



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | | | | | |
|----------------|---------------------------------|-----|----------|-----|----|------|----|----|----|-----|
| | L | M | D | A | A1 | A2 | L1 | | | |
| MAS403 BT40 | L200 | M10 | ANTIVIBR | 200 | 10 | 10,5 | 18 | 35 | 50 | 158 |
| | L250 | M10 | ANTIVIBR | 250 | 10 | 10,5 | 18 | 40 | 50 | 208 |
| | L300 | M10 | ANTIVIBR | 300 | 10 | 10,5 | 18 | 45 | 50 | 258 |
| MAS403 BT40 | L200 | M12 | ANTIVIBR | 200 | 12 | 12,5 | 21 | 38 | 50 | 158 |
| | L250 | M12 | ANTIVIBR | 250 | 12 | 12,5 | 21 | 43 | 50 | 208 |
| | L300 | M12 | ANTIVIBR | 300 | 12 | 12,5 | 21 | 44 | 50 | 258 |
| MAS403 BT40 | L200 | M16 | ANTIVIBR | 200 | 16 | 17 | 29 | 43 | 50 | 158 |
| | L250 | M16 | ANTIVIBR | 250 | 16 | 17 | 29 | 44 | 50 | 208 |
| | L300 | M16 | ANTIVIBR | 300 | 16 | 17 | 29 | 47 | 50 | 258 |
| MAS403 BT50 | L250 | M12 | ANTIVIBR | 250 | 12 | 12,5 | 21 | 42 | 80 | 197 |
| | L300 | M12 | ANTIVIBR | 300 | 12 | 12,5 | 21 | 47 | 80 | 247 |
| | L400 | M12 | ANTIVIBR | 400 | 12 | 12,5 | 21 | 57 | 80 | 347 |
| MAS403 BT50 | L300 | M16 | ANTIVIBR | 300 | 16 | 17 | 29 | 55 | 80 | 247 |
| | L400 | M16 | ANTIVIBR | 400 | 16 | 17 | 29 | 65 | 80 | 347 |
| | L500 | M16 | ANTIVIBR | 500 | 16 | 17 | 29 | 76 | 80 | 447 |

BILANCIATURA
 BALANCED / GEWUCHTET

BT40 G. 6.3 15.000 g/min.

BT50 G. 6.3 10.000 g/min.

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

MAS403 BT50 L500 M16 ANTIVIBR

DIN2080...ER...

DIN 2080
DIN 6499



FIGURA 1
FIGURE 1

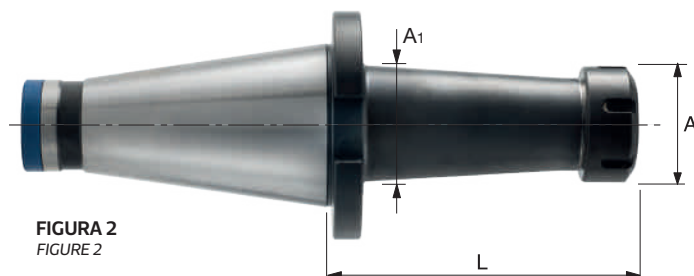


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | capacità pinza Collect range Zangenspannbereich | FIGURA FIGURE | GHIERA NUT ÜBERWURF- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE |
|-------------------------|---------------------------------|-----|----|------|---|------------------|-------------------------------------|--|--|-------------------------------|
| | L | A | A1 | | | | | | | |
| DIN2080 ISO40 L070 ER16 | 70 | 32 | - | 1÷10 | 1 | GER16 | GRR 16-20 | CH16 S | ER16 | |
| | L100 ER16 | 100 | 32 | 32 | 1÷10 | 2 | | | | |
| DIN2080 ISO40 L070 ER20 | 70 | 35 | - | 1÷13 | 1 | GER20 | GRR 16-20 | CH20 S | ER20 | |
| | L100 ER20 | 100 | 35 | 34 | 1÷13 | 2 | | | | |
| DIN2080 ISO40 L070 ER25 | 70 | 42 | - | 1÷16 | 1 | GER25 | GRR 25 | CH25 S | ER25 | |
| | L100 ER25 | 100 | 42 | 44 | 1÷16 | 2 | | | | |
| DIN2080 ISO40 L070 ER32 | 70 | 50 | - | 2÷20 | 1 | GER32 | GRR 32 | CH32 S | ER32 | |
| | L100 ER32 | 100 | 50 | 50 | 2÷20 | 2 | | | | |
| | L160 ER32 | 160 | 50 | 50 | 2÷20 | 2 | | | | |
| DIN2080 ISO40 L070 ER40 | 70 | 63 | - | 3÷30 | 1 | GER40 | GRR 40 | CH40 S | ER40 | |
| | L100 ER40 | 100 | 63 | 50 | 3÷30 | 2 | | | | |
| DIN2080 ISO50 L080 ER16 | 80 | 32 | - | 1÷10 | 1 | GER16 | GRR 16-20 | CH16 S | ER16 | |
| DIN2080 ISO50 L080 ER25 | 80 | 42 | - | 1÷16 | 1 | GER25 | GRR 25 | CH25 S | ER25 | |
| | L130 ER25 | 130 | 42 | 40 | 1÷16 | 2 | | | | |
| DIN2080 ISO50 L080 ER32 | 80 | 50 | - | 2÷20 | 1 | GER32 | GRR 32 | CH32 S | ER32 | |
| | L160 ER32 | 160 | 50 | 40 | 2÷20 | 2 | | | | |
| DIN2080 ISO50 L080 ER40 | 80 | 63 | - | 3÷30 | 1 | GER40 | GRR 40 | CH40 S | ER40 | |
| | L160 ER40 | 160 | 63 | 60 | 3÷30 | 2 | | | | |

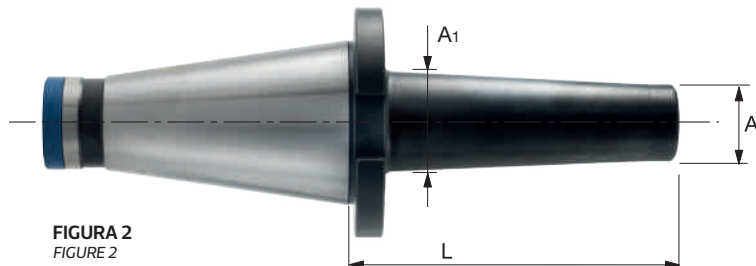
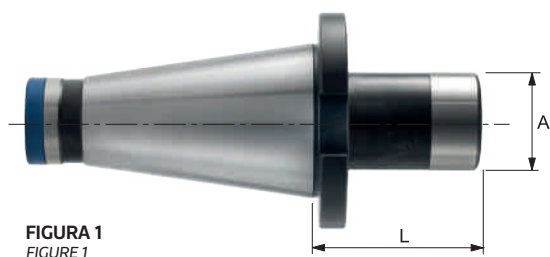
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DIN2080 ISO40 L070 ER32

DIN2080...CM...PF

DIN 2080
DIN 228-2



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE | GHIERA NUT ÜBERWURFMUTTER | VITE INTERNA INTERNAL SCREW SPANNSCHRAUBE |
|---------------------------|---------------------------------|----|----|------------------|---------------------------------|---|
| | L | A | A1 | | | |
| DIN2080 ISO40 L050 CM1 PF | 50 | 25 | - | 1 | - | TCM 1 |
| DIN2080 ISO40 L050 CM2 PF | 50 | 32 | - | 1 | GCM 2 | TCM 2 |
| DIN2080 ISO40 L115 CM2 PF | 115 | 25 | 32 | 2 | | |
| DIN2080 ISO40 L065 CM3 PF | 95 | 40 | - | 1 | GCM 3 | TCM 3A |
| DIN2080 ISO40 L115 CM3 PF | 115 | 33 | 40 | 2 | | |
| DIN2080 ISO40 L095 CM4 PF | 65 | 48 | - | 1 | GCM 4 | TCM 4B |
| DIN2080 ISO40 L165 CM4 PF | 165 | 40 | 48 | 2 | | TCM 4A |
| DIN2080 ISO50 L045 CM1 PF | 45 | 25 | - | 1 | - | TCM 1 |
| DIN2080 ISO50 L060 CM2 PF | 60 | 32 | - | 1 | GCM 2 | TCM 2 |
| DIN2080 ISO50 L115 CM2 PF | 115 | 25 | 32 | 2 | | |
| DIN2080 ISO50 L065 CM3 PF | 65 | 40 | - | 1 | GCM 3 | TCM 3A |
| DIN2080 ISO50 L115 CM3 PF | 115 | 33 | 40 | 2 | | |
| DIN2080 ISO50 L065 CM4 PF | 65 | 48 | - | 1 | GCM 4 | TCM 4B |
| DIN2080 ISO50 L165 CM4 PF | 165 | 40 | 48 | 2 | | TCM 4A |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DIN2080 ISO40 L065 CM3 PF

DIN2080..CM...PP

DIN 2080
DIN 228-2

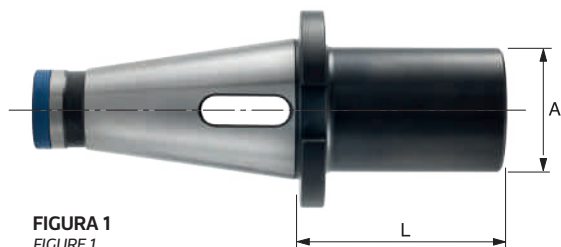


FIGURA 1
FIGURE 1

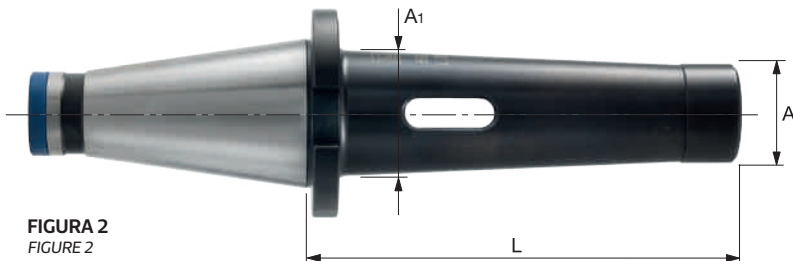


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | FIGURA FIGURE |
|----------------------------|---------------------------------|----|----|------------------|
| | L | A | A1 | |
| DIN 2080 ISO40 L050 CM1 PP | 50 | 25 | - | 1 |
| DIN 2080 ISO40 L050 CM2 PP | 50 | 32 | - | 1 |
| DIN 2080 ISO40 L065 CM3 PP | 65 | 40 | - | 1 |
| L129 CM3 PP | 129 | 33 | 40 | 2 |
| DIN 2080 ISO40 L095 CM4 PP | 95 | 48 | - | 1 |
| L152 CM4 PP | 152 | 40 | 48 | 2 |
| DIN 2080 ISO50 L045 CM1 PP | 45 | 25 | - | 1 |
| DIN 2080 ISO50 L060 CM2 PP | 60 | 32 | - | 1 |
| L140 CM2 PP | 140 | 25 | 32 | 2 |
| DIN 2080 ISO50 L065 CM3 PP | 65 | 40 | - | 1 |
| L150 CM3 PP | 150 | 33 | 40 | 2 |
| DIN 2080 ISO50 L070 CM4 PP | 70 | 48 | - | 1 |
| L180 CM4 PP | 180 | 40 | 48 | 2 |
| DIN 2080 ISO50 L100 CM5 PP | 100 | 63 | - | 1 |
| L220 CM5 PP | 220 | 55 | 63 | 2 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DIN2080 ISO40 L050 CM2 PP

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME


Porta frese
Milling cutters holders
Aufsteckfräserdorn



DIN2080...PF...

DIN 2080
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|--------------------------|---------------------------------|----|----|--|---|
| | L | A | D | | |
| DIN2080 ISO40 L045 PF 16 | 45 | 38 | 16 | VS 16 | TS 16B |
| DIN2080 ISO40 L045 PF 22 | 45 | 48 | 22 | VS 22 | TS 22B |
| DIN2080 ISO40 L045 PF 27 | 45 | 58 | 27 | VS 27 | TS 27B |
| DIN2080 ISO40 L050 PF 32 | 50 | 78 | 32 | VS 32 | TS 32B |
| DIN2080 ISO40 L055 PF 40 | 55 | 88 | 40 | VS 40 | TS 40B |
| DIN2080 ISO50 L045 PF 16 | 45 | 38 | 16 | VS 16 | TS 16B |
| DIN2080 ISO50 L045 PF 22 | 45 | 48 | 22 | VS 22 | TS 22B |
| DIN2080 ISO50 L045 PF 27 | 45 | 58 | 27 | VS 27 | TS 27B |
| DIN2080 ISO50 L050 PF 32 | 50 | 78 | 32 | VS 32 | TS 32B |
| DIN2080 ISO50 L050 PF 40 | 50 | 88 | 40 | VS 40 | TS 40B |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

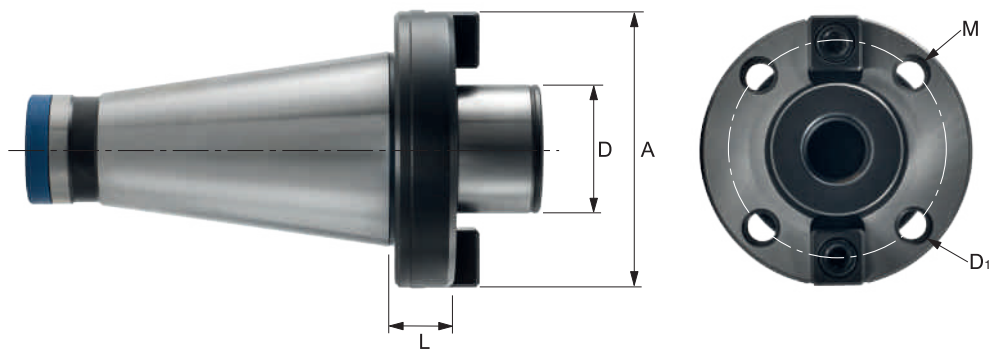
DIN2080 ISO40 L035 PF32



MAS403 BT...PF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

DIN2080...PF...4F

DIN 2080
DIN 6357



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|------------------------------------|---------------------------------|-----|----|----------------|----|--|---|
| | L | A | D | D ₁ | M | | |
| DIN2080 IS040 L020 PF 40 4F | 20 | 89 | 40 | 66,7 | 12 | VS 40 | TS 40F |
| DIN2080 IS050 L030 PF 40 4F | 30 | 89 | 40 | 66,7 | 12 | VS 40 | TS 40F |
| DIN2080 IS050 L030 PF 60 4F | 30 | 129 | 60 | 101,6 | 16 | - | TS 60F |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

DIN2080 ISO50 L030 PF40 4F

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

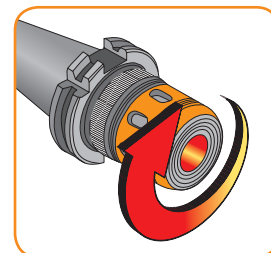
Mandrini a forte serraggio
Heavy-duty chucks
Kraftspannfutter



FS 69893HSK...D...

DIN69893 A

FS



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | PINZE COLLET SPANNZANGE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER |
|---------------------------|--------------------------------|-----|----|-------------------------------|---|
| | D | L | A | | |
| FS 69893 HSK63A L085 D20 | 20 | 85 | 20 | 4FS20... | CHFSD 20 |
| L110 D32 | 32 | 110 | 62 | 4FS32... | CHFSD 32 |
| FS 69893 HSK100A L105 D20 | 20 | 105 | 20 | 4FS20... | CHFSD 20 |
| L115 D32 | 32 | 115 | 62 | 4FS32... | CHFSD 32 |

BILANCIATURA
BALANCED / GEWUCHTET

G. 6.3 15.000 g/min.

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

FS 69893 HSK100A L115 D32

FS 69893HSK...D...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

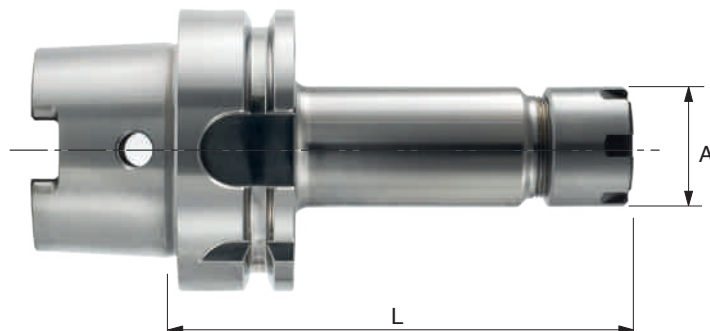
Porta pinze
Collet chucks
ER-Spannzangenfutter



GL 69893 HSK...ER...

DIN 69893 A
DIN 6499

GOLD LINE



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | GHIERA NUT ÜBERWURFMUTTER | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANNFUTTER | PINZE COLLET SPANNZANGE |
|-----------------|---------------------------------|--------|---|---------------------------------|---|-------------------------------|
| | L | A | capacità pinza Collect range Zangenspannbereich | | | |
| GL 69893 HSK63A | L070 | ER11 M | 70 16 | GER11 M | CH11 M | ERP11 |
| | L100 | ER11 M | 100 16 | | | |
| | L150 | ER11 M | 150 16 | | | |
| GL 69893 HSK63A | L070 | ER16 M | 70 22 | GER16 M | CH16 M | ERP16 |
| | L100 | ER16 M | 100 22 | | | |
| | L150 | ER16 M | 150 22 | | | |
| | L200 | ER16 M | 200 22 | | | |
| GL 69893 HSK63A | L070 | ER20 M | 70 28 | GER20 M | CH20 M | ERP20 |
| | L100 | ER20 M | 100 28 | | | |
| | L150 | ER20 M | 150 28 | | | |
| | L200 | ER20 M | 200 28 | | | |
| GL 69893 HSK63A | L070 | ER25 M | 70 35 | GER25 M | CH25 S | ERP25 |
| | L100 | ER25 M | 100 35 | | | |
| | L150 | ER25 M | 150 35 | | | |
| | L200 | ER25 M | 200 35 | | | |

BILANCIATURA
BALANCED / GEWUCHTET

G. 6.3 25.000 g/min.

EXTRA PRECISO
EXTRA-PRECISE / ULTRA PRÄZIS

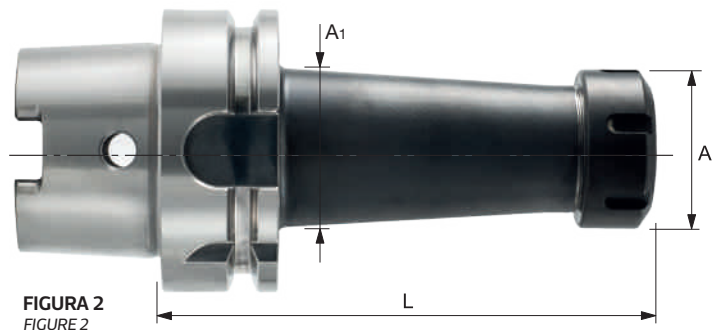
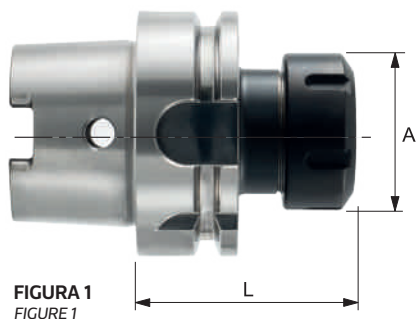
0,003 ~ 0,005 mm

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

GL 69893 A L200 ER16 M

69893HSK...ER...

DIN 69893 A
DIN 6499



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | FIGURA FIGURE | GHIERA NUT ÜBERWURF- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE |
|--|---------------------------------|----|----|---|------------------|-------------------------------------|--|--|-------------------------------|
| | L | A | A1 | capacità pinza Collect range Zangenspannbereich | | | | | |
| 69893 HSK63 A L100 ER16 M L160 ER16 M | 100 | 22 | 25 | 1÷10 | 2 | GER16 M | GRR 16-20 | CH16 M | ER16 |
| | 160 | 22 | 28 | 1÷10 | | | | | |
| 69893 HSK63 A L100 ER20 M L160 ER20 M | 100 | 28 | 31 | 1÷13 | 2 | GER20 M | GRR 16-20 | CH20 M | ER20 |
| | 160 | 28 | 35 | 1÷13 | | | | | |
| 69893 HSK63 A L100 ER25 M L160 ER25 M | 100 | 35 | 38 | 1÷16 | 2 | GER25 M | GRR 25 | CH25 M | ER25 |
| | 160 | 35 | 42 | 1÷16 | | | | | |
| 69893 HSK63 A L100 ER16 L160 ER16 | 100 | 32 | - | 1÷10 | 1 | GER16 | GRR 16-20 | CH16 S | ER16 |
| | 160 | 32 | 38 | 1÷10 | | | | | |
| 69893 HSK63 A L100 ER20 L160 ER20 | 100 | 35 | - | 1÷13 | 1 | GER20 | GRR 16-20 | CH20 S | ER20 |
| | 160 | 35 | 42 | 1÷13 | | | | | |
| 69893 HSK63 A L100 ER25 L160 ER25 | 100 | 42 | - | 1÷16 | 1 | GER25 | GRR 25 | CH25 S | ER25 |
| | 160 | 42 | 48 | 1÷16 | | | | | |
| 69893 HSK63 A L100 ER32 L160 ER32 | 100 | 50 | - | 2÷20 | 1 | GER32 | GRR 32 | CH32 S | ER32 |
| | 160 | 50 | 50 | 2÷20 | | | | | |

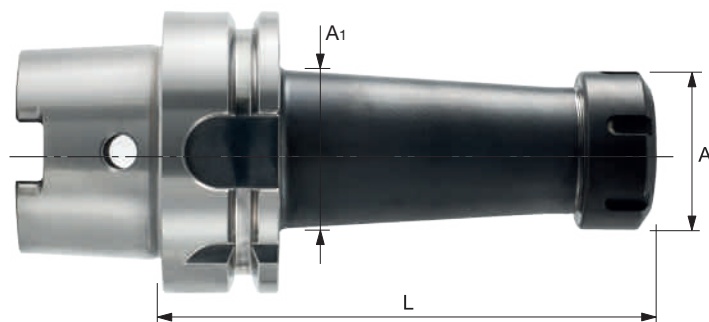
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK63 A L100 ER16

69893 HSK...ER...

**DIN 69893
DIN 6499**



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | GHIERA NUT ÜBERWURF- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH / SCHLÜSSEL FÜR KRAFTSPANN- FUTTER | PINZE COLLET SPANNZANGE | | |
|----------------|---------------------------------|--------|-----|---|-------------------------------------|--|--|-------------------------------|--------|------|
| | L | A | A1 | capacità pinza Collect range Zangenspannbereich | | | | | | |
| 69893 HSK100 A | L100 | ER16 M | 100 | 22 | 28 | 1÷10 | GER16 M | GRR 16-20 | CH16 M | ER16 |
| | L160 | ER16 M | 160 | 22 | 30 | 1÷10 | | | | |
| 69893 HSK100 A | L100 | ER16 | 100 | 32 | 32 | 1÷10 | GER16 | GRR 16-20 | CH16 S | ER16 |
| 69893 HSK100 A | L100 | ER20 | 100 | 35 | 35 | 1÷13 | GER20 | GRR 16-20 | CH20 S | ER20 |
| 69893 HSK100 A | L100 | ER25 | 100 | 42 | 50 | 1÷16 | GER25 | GRR 25 | CH25 S | ER25 |
| | L160 | ER25 | 160 | 42 | 48 | 1÷16 | | | | |
| 69893 HSK100 A | L100 | ER32 | 100 | 50 | 50 | 2÷20 | GER32 | GRR 32 | CH32 S | ER32 |
| | L160 | ER32 | 160 | 50 | 50 | 2÷20 | | | | |
| 69893 HSK100 A | L100 | ER40 | 100 | 63 | 63 | 3÷30 | GER40 | GRR 32 | CH40 S | ER40 |
| | L160 | ER40 | 160 | 63 | 63 | 3÷30 | | | | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK 100 A L160 ER25

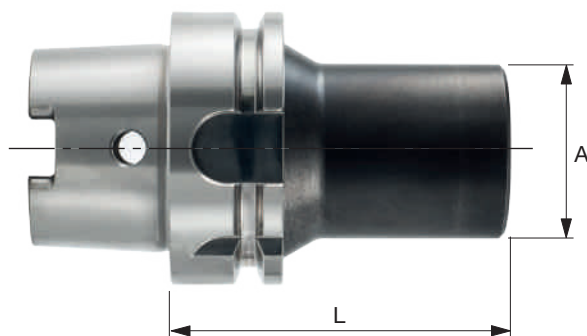
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME



Mandrini CM per frese
 Morse taper milling chucks DIN 228-2
 Werkzeugaufnahmen für DIN 228-2C
 MK-Schäfte mit Anzugsgewinde



69893HSK...CM...PF

DIN 69893
DIN 228-2



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | GHIERA NUT ÜBERWURFMUTTER  | VITE INTERNA INTERNAL SCREW SPANNSCHRAUBE  |
|----------------------------|---------------------------------|----|--|--|
| | L | A | | |
| 69893 HSK63 A L100 CM1 PF | 100 | 25 | - | TCM 1 |
| 69893 HSK63 A L120 CM2 PF | 120 | 32 | GCM 2 | TCM 2 |
| 69893 HSK63 A L140 CM3 PF | 140 | 40 | GCM 3 | TCM 3 |
| 69893 HSK100 A L160 CM4 PF | 160 | 48 | GCM 4B | TCM 4 |

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

69893 HSK63 A L120 CM2 PF

69893HSK...CM...PF

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

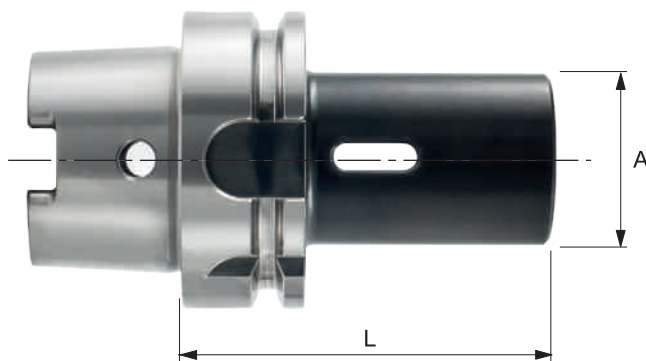
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Mandrini CM per punte
Morse taper drilling chucks DIN 228-2
Werkzeugaufnahmen für DIN 228-2D
MK-Schäfte



69893 HSK...CM...PP

DIN 69893
DIN 228-2



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | |
|----------------------------|---------------------------------|----|
| | L | A |
| 69893 HSK63 A L100 CM1 PP | 100 | 25 |
| 69893 HSK63 A L120 CM2 PP | 120 | 32 |
| 69893 HSK63 A L140 CM3 PP | 140 | 40 |
| 69893 HSK63 A L160 CM4 PP | 160 | 48 |
| 69893 HSK100 A L120 CM2 PP | 120 | 32 |
| 69893 HSK100 A L150 CM3 PP | 150 | 40 |
| 69893 HSK100 A L170 CM4 PP | 170 | 48 |
| 69893 HSK100 A L200 CM5 PP | 200 | 63 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK63 A L120 CM2 PP

69893 HSK...CM...PP

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

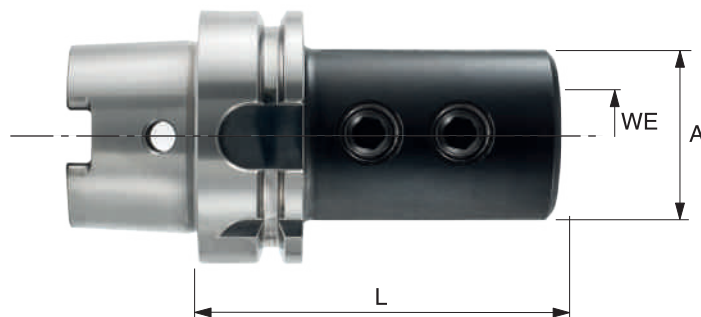
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME


Mandrini Weldon ridotti
Reduced Weldon chucks
Reduziert Spannfutter Weldon



69893 HSK...WE...A...

DIN 69893
DIN 1835-B



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | GRANO DI FISSAGGIO SECURITY DOWEL  | | |
|----------------|---------------------------------|-----|----|---|----|--------------------------------------|
| | WE | L | A | | | |
| 69893 HSK63A | L080 WE20 | A40 | 20 | 80 | 40 | GRW20A GRW25A GRW32A GRW40A |
| | L110 WE25 | A45 | 25 | 110 | 45 | |
| | L110 WE32 | A52 | 32 | 110 | 52 | |
| | L120 WE40 | A71 | 40 | 120 | 71 | |
| 69893 HSK100A | L100 WE20 | A40 | 20 | 100 | 40 | GRW20A GRW25A GRW32A GRW40A |
| | L110 WE25 | A45 | 25 | 110 | 45 | |
| | L110 WE32 | A52 | 32 | 110 | 52 | |
| | L120 WE40 | A71 | 40 | 120 | 71 | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 L110 WE32 A52

69893 HSK...WE...A...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69893 HSK...WE...

DIN 69893 A
DIN 1835-E

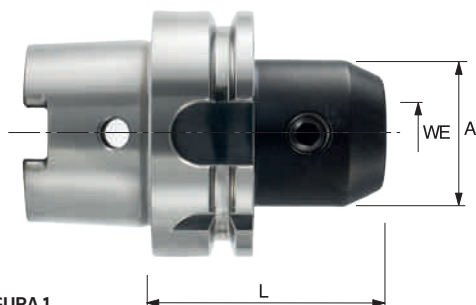


FIGURA 1
FIGURE 1

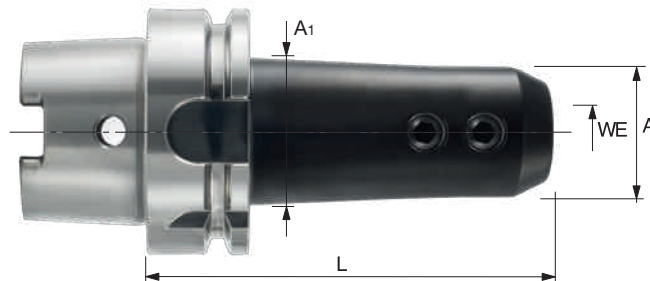












FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | CANALI REFRIGERANTI COOLANT DUCTS KÜHLMITTELBOHRUNG | FIGURA FIGURE | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT  |
|---------------------------|---------------------------------|----|----------------|---|------------------|---|
| | L | A | A ₁ | | | |
| 69893 HSK63 A L065 WE6 W | 65 | 25 | - |  | 1 | |
| 69893 HSK63 A L065 WE8 W | 65 | 28 | - |  | 1 | GRW 12-14 |
| 69893 HSK63 A L065 WE10 W | 65 | 35 | - |  | 1 | |
| 69893 HSK63 A L080 WE12 W | 80 | 42 | - |  | 1 | GRW 12-14 |
| 69893 HSK63 A L080 WE14 W | 80 | 44 | - |  | 1 | GRW 12-14 |
| 69893 HSK63 A L080 WE16 W | 80 | 48 | - |  | 1 | |
| 69893 HSK63 A L080 WE16 | 80 | 48 | - | - | 1 | GRW 16-18 |
| 69893 HSK63 A L160 WE16 | 160 | 44 | 50 | - | 2 | |
| 69893 HSK63 A L080 WE18 | 80 | 50 | - | - | 1 | GRW 16-18 |
| 69893 HSK63 A L080 WE20 W | 80 | 52 | - |  | 1 | |
| 69893 HSK63 A L080 WE20 | 80 | 52 | - | - | | GRW 20 |
| 69893 HSK63 A L160 WE20 | 160 | 52 | - | - | 1 | |
| 69893 HSK63 A L110 WE25 W | 110 | 65 | - |  | 1 | |
| 69893 HSK63 A L110 WE25 | 110 | 65 | - | - | | GRW 25 |
| 69893 HSK63 A L160 WE25 | 160 | 63 | 52 | - | 2 | |
| 69893 HSK63 A L110 WE32 W | 110 | 72 | - |  | 1 | |
| 69893 HSK63 A L110 WE32 | 110 | 72 | - | - | 1 | GRW 32-40 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK63 A L080 WE16

69893 HSK...WE...

DIN 69893 A
DIN 1835-E

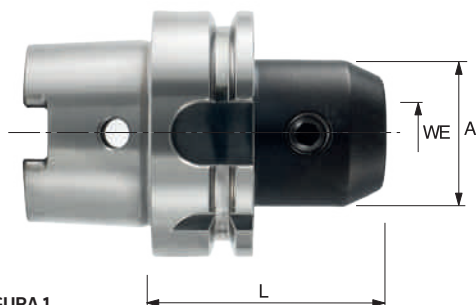


FIGURA 1
FIGURE 1

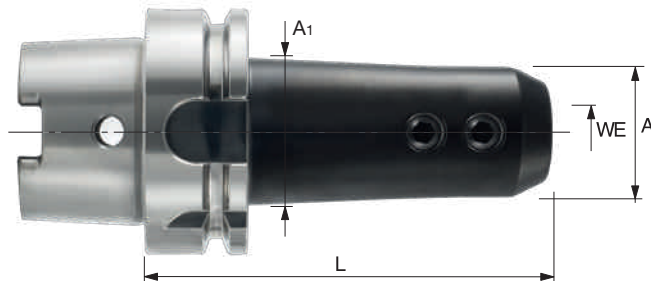














FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | CANALI REFRIGERANTI COOLANT DUCTS KÜHLMITTELBOHRUNG | FIGURA FIGURE | GRANO DI FISSAGGIO SECURITY DOWEL GEWINDESTIFT  |
|----------------------------|---------------------------------|----|----------------|---|------------------|---|
| | L | A | A ₁ | | | |
| 69893 HSK100 A L080 WE6 W | 80 | 25 | - |  | 1 | GRW 16-18 |
| 69893 HSK100 A L080 WE8 W | 80 | 28 | - |  | 1 | |
| 69893 HSK100 A L080 WE10 W | 80 | 35 | - |  | 1 | |
| 69893 HSK100 A L080 WE12 W | 80 | 42 | - |  | 1 | |
| 69893 HSK100 A L080 WE14 W | 80 | 44 | - |  | 1 | |
| 69893 HSK100 A L100 WE16 W | 100 | 48 | - |  | 1 | |
| L100 WE16 | 100 | 48 | - | - | 1 | |
| L160 WE16 | 160 | 48 | 55 | - | 2 | |
| 69893 HSK100 A L100 WE18 W | 100 | 48 | - |  | 1 | |
| 69893 HSK100 A L100 WE20 W | 100 | 52 | - |  | 1 | |
| L100 WE20 | 100 | 52 | - | - | 1 | GRW 20 |
| L160 WE20 | 160 | 52 | 60 | - | 2 | |
| 69893 HSK100 A L100 WE25 W | 100 | 65 | - |  | 1 | |
| L100 WE25 | 100 | 65 | - | - | 1 | GRW 25 |
| L160 WE25 | 160 | 65 | 72 | - | 2 | |
| 69893 HSK100 A L100 WE32 W | 100 | 72 | - |  | 1 | GRW 32-40 |
| L100 WE32 | 100 | 72 | - | - | 1 | |
| 69893 HSK100 A L105 WE40 W | 105 | 80 | - |  | 1 | GRW 32-40 |
| L105 WE40 | 105 | 80 | - | - | 1 | |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

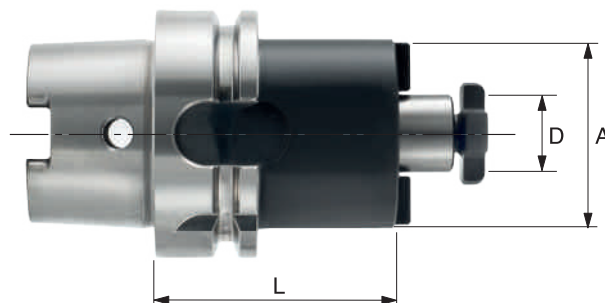
69893 HSK100 A L100 WE20



69893 HSK...WE...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

69893 HSK...PF...

DIN 69893
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|---------------------------|---------------------------------|----|----|---|---|
| | L | A | D | | |
| 69893 HSK63 A L050 PF 16 | 50 | 38 | 16 | VS 16 | TS 16C |
| 69893 HSK63 A L050 PF 22 | 50 | 48 | 22 | VS 22 | TS 22C |
| 69893 HSK63 A L060 PF 27 | 60 | 58 | 27 | VS 27 | TS 27C |
| L100 PF 27 | 100 | 58 | 27 | | |
| 69893 HSK63 A L060 PF 32 | 60 | 66 | 32 | VS 32 | TS 32F |
| L100 PF 32 | 100 | 66 | 32 | | |
| 69893 HSK100 A L050 PF 16 | 50 | 38 | 16 | VS 16 | TS 16C |
| 69893 HSK100 A L050 PF 22 | 50 | 48 | 22 | VS 27 | TS 22C |
| 69893 HSK100 A L050 PF 27 | 50 | 58 | 27 | VS 32 | TS 27C |
| 69893 HSK100 A L050 PF 32 | 50 | 66 | 32 | VS 40D | TS 40D |
| 69893 HSK100 A L060 PF 40 | 60 | 80 | 40 | | |

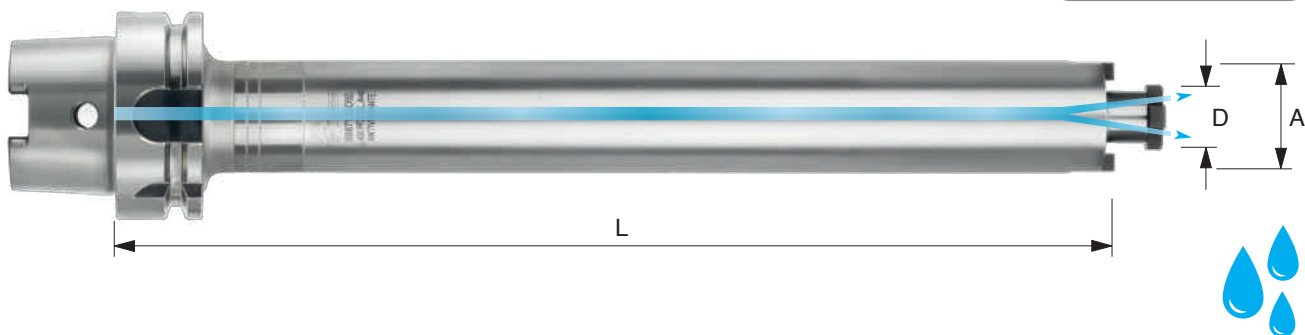
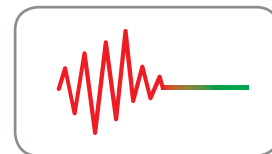
ESEMPIO DI ORDINE:



Order example:
Beispiel für einen Auftrag:

69893 HSK63 A L060 PF32

69893 HSK...PF...

DIN 69893
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE  | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN  |
|---|---------------------------------|----|----|---|---|
| | L | A | D | | |
| 69893 HSK63 A L200 PF16 A38 ANTIVIBR W | 200 | 38 | 16 | VS16 | TS 16 V |
| L300 PF16 A38 ANTIVIBR W | 300 | 38 | 16 | | |
| 69893 HSK63 A L200 PF22 A48 ANTIVIBR W | 200 | 48 | 22 | VS22 | TS 22 V |
| L300 PF22 A48 ANTIVIBR W | 300 | 48 | 22 | | |
| 69893 HSK63 A L300 PF27 A58 ANTIVIBR W | 300 | 58 | 27 | VS27 | TS 27 V |
| 69893 HSK100 A L200 PF16 A38 ANTIVIBR W | 200 | 38 | 16 | VS16 | TS 16 V |
| L300 PF16 A38 ANTIVIBR W | 300 | 38 | 16 | | |
| 69893 HSK100 A L200 PF22 A48 ANTIVIBR W | 200 | 48 | 22 | VS22 | TS 22 V |
| L300 PF22 A48 ANTIVIBR W | 300 | 48 | 22 | | |
| 69893 HSK100 A L200 PF27 A58 ANTIVIBR W | 200 | 58 | 27 | VS27 | TS 27 V |
| L300 PF27 A58 ANTIVIBR W | 300 | 58 | 27 | | |
| 69893 HSK100 A L300 PF32 A78 ANTIVIBR W | 300 | 78 | 32 | VS32 | TS 32 V |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK100 A L300 PF32 A78 ANTIVIBR W

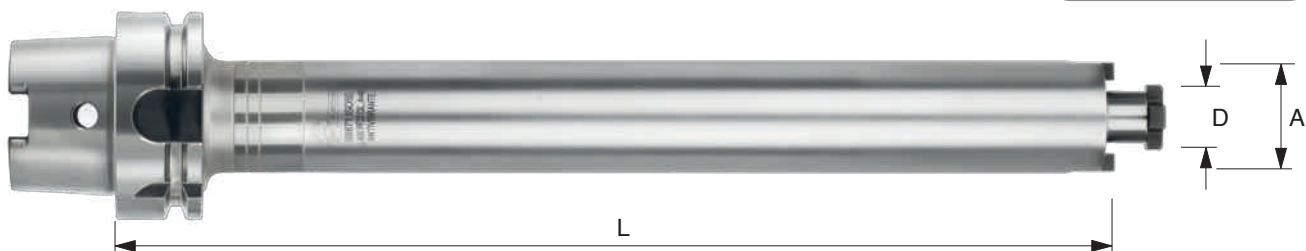
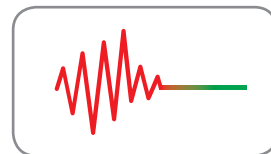
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Porta frese antivibranti
Anti-vibration milling cutter holder
Schwingungsgedämpfte Werkzeugaufnahme für Einschraubfräser



69893 HSK...PF...

DIN 69893
ISO 3937



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | VITE DI SERRAGGIO CLAMPING SCREW FRÄSERANZUGSSCHRAUBE | TASSELLO DI TRASCINAMENTO DRIVING BLOCK MITNEHMERSTEIN | |
|----------------|---------------------------------|------|-----|---|--|---------|
| | L | A | D | | | |
| 69893 HSK63 | L200 | PF16 | A38 | ANTIVIBR | VS16 | TS 16 V |
| | L300 | PF16 | A38 | ANTIVIBR | | |
| 69893 HSK63 | L200 | PF22 | A48 | ANTIVIBR | VS22 | TS 22 V |
| | L300 | PF22 | A48 | ANTIVIBR | | |
| 69893 HSK63 | L200 | PF27 | A58 | ANTIVIBR | VS27 | TS 27 V |
| 69893 HSK100 | L200 | PF16 | A38 | ANTIVIBR | VS16 | TS 16 V |
| | L300 | PF16 | A38 | ANTIVIBR | | |
| 69893 HSK100 | L200 | PF22 | A48 | ANTIVIBR | VS22 | TS 22 V |
| | L300 | PF22 | A48 | ANTIVIBR | | |
| 69893 HSK100 | L200 | PF27 | A58 | ANTIVIBR | VS27 | TS 27 V |
| | L300 | PF27 | A58 | ANTIVIBR | | |
| 69893 HSK100 | L300 | PF32 | A78 | ANTIVIBR | VS32 | TS 32 V |

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

MAS403 BT50 L154 M12

69893 HSK...M...

DIN 69893

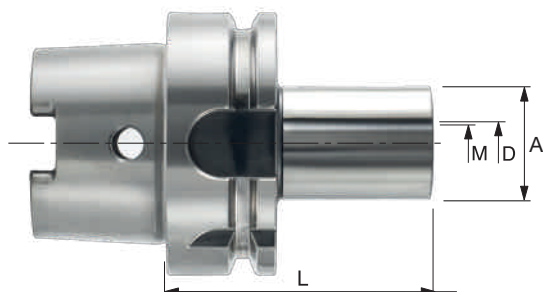


FIGURA 1
FIGURE 1

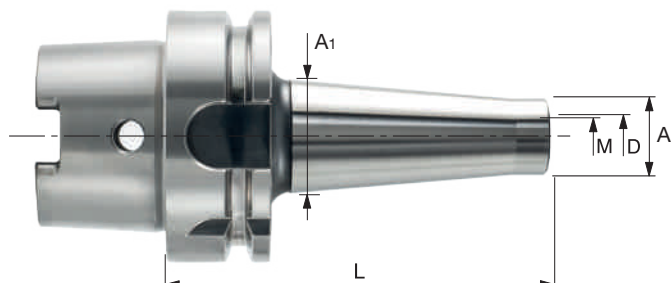


FIGURA 2
FIGURE 2

| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | | FIGURA FIGURE | | |
|----------------|---------------------------------|-------|-----|------|----------------|------------------|------|---|
| | L | M | D | A | A ₁ | | | |
| 69893 HSK63A | L059 | M08 | 59 | 8 | 8,5 | 13 | 15 | 1 |
| | L059 | M08 S | 59 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| | L084 | M08 | 84 | 8 | 8,5 | 13 | 23 | 1 |
| | L084 | M08 S | 84 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| | L109 | M08 | 109 | 8 | 8,5 | 13 | 23 | 1 |
| | L109 | M08 S | 109 | 8 | 8,5 | 13,8 | 13,8 | 2 |
| L134 | M08 | 134 | 8 | 8,5 | 13 | 25 | 1 | |
| 69893 HSK63A | L059 | M10 | 59 | 10 | 10,5 | 18 | 19,5 | 1 |
| | L059 | M10 S | 59 | 10 | 10,5 | 18 | 18 | 2 |
| | L084 | M10 | 84 | 10 | 10,5 | 18 | 25 | 1 |
| | L084 | M10 S | 84 | 10 | 10,5 | 18 | 18 | 2 |
| | L109 | M10 | 109 | 10 | 10,5 | 18 | 28 | 1 |
| | L109 | M10 S | 109 | 10 | 10,5 | 18 | 18 | 2 |
| | L134 | M10 | 134 | 10 | 10,5 | 18 | 28 | 1 |
| | L134 | M10 S | 134 | 10 | 10,5 | 18 | 18 | 2 |
| 69893 HSK63A | L159 | M10 | 159 | 10 | 10,5 | 18 | 34 | 1 |
| | L084 | M12 | 84 | 12 | 12,5 | 21 | 24 | 1 |
| | L084 | M12 S | 84 | 12 | 12,5 | 22 | 22 | 2 |
| | L109 | M12 | 109 | 12 | 12,5 | 21 | 31 | 1 |
| | L109 | M12 S | 109 | 12 | 12,5 | 22 | 22 | 2 |
| | L134 | M12 | 134 | 12 | 12,5 | 21 | 31 | 1 |
| | L134 | M12 S | 134 | 12 | 12,5 | 22 | 22 | 2 |
| L159 | M12 | 159 | 12 | 12,5 | 21 | 31 | 1 | |
| 69893 HSK63A | L084 | M16 | 84 | 16 | 17 | 29 | 34 | 1 |
| | L084 | M16 S | 84 | 16 | 17 | 29 | 29 | 2 |
| | L109 | M16 | 109 | 16 | 17 | 29 | 34 | 1 |
| | L109 | M16 S | 109 | 16 | 17 | 29 | 29 | 2 |
| | L134 | M16 | 134 | 16 | 17 | 29 | 39 | 1 |
| | L134 | M16 S | 134 | 16 | 17 | 29 | 29 | 2 |
| L159 | M16 | 159 | 16 | 17 | 29 | 39 | 1 | |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 L134 M12

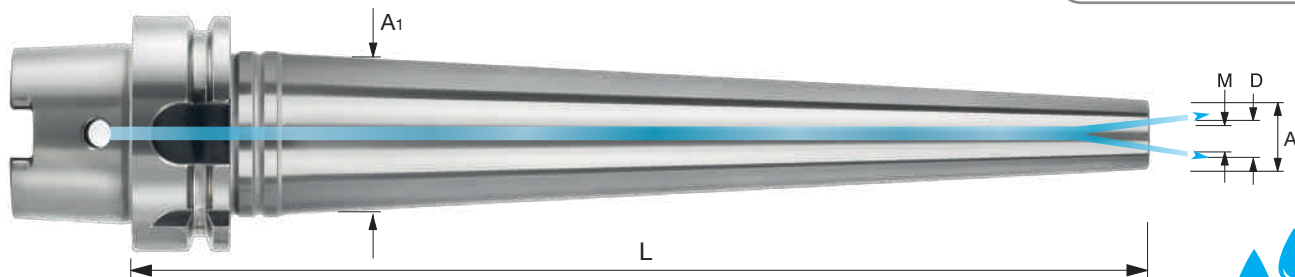
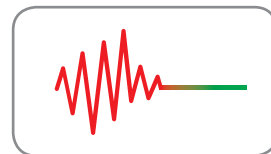
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Porta testine ad attacco filettato
Collet screw-in heads
Werkzeugaufnahme für
Einschraubfräser



69893 HSK...M...

DIN 69893



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | |
|------------------------------------|---------------------------------|----|------|----|-----|
| | L | M | D | A | A1 |
| 69893 HSK63 A L200 M10 ANTIVIBR W | 200 | 10 | 10,5 | 18 | 174 |
| 69893 HSK63 A L250 M10 ANTIVIBR W | 250 | 10 | 10,5 | 18 | 224 |
| 69893 HSK63 A L200 M12 ANTIVIBR W | 200 | 12 | 12,5 | 21 | 174 |
| 69893 HSK63 A L250 M12 ANTIVIBR W | 250 | 12 | 12,5 | 21 | 224 |
| 69893 HSK63 A L250 M16 ANTIVIBR W | 250 | 16 | 17 | 29 | 224 |
| 69893 HSK100 A L300 M12 ANTIVIBR W | 300 | 12 | 12,5 | 21 | 271 |
| 69893 HSK100 A L300 M16 ANTIVIBR W | 300 | 16 | 17 | 29 | 271 |

BILANCIATURA
BALANCED / GEWUCHTET

HSK63

G. 6.3 15.000 g/min.

HSK100

G. 6.3 10.000 g/min.

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK100 A L300 M16 ANTIVIBR W

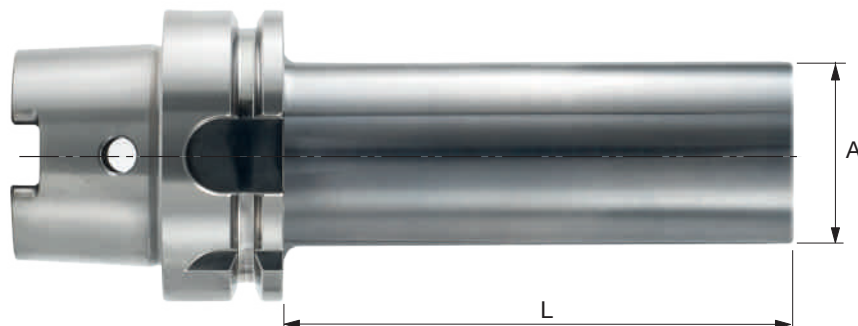
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Mandrino con stelo tenero lavorabile
Boring bar blanks with soft body
Rohling-Werkzeugaufnahme



69893 HSK...STL...

DIN 69893 A



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | |
|----------------|---------------------------------|----|
| | L | A |
| 69893 HSK63 A | L250 STL 63 | 63 |
| | L250 STL 80 | 80 |
| 69893 HSK100 A | L315 STL 97 | 97 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK100A L315 STL97

69893 HSK...STL...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

O...ER...L...

DIN 6499



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | GHIERA NUT ÜBERWURF- UTTER | GRANO DI REGOLAZIONE ADJUSTING DOWEL ANSCHLAGSCHRAUBE | CHIAVI PER GHIERA WRENCH SCHLÜSSEL FÜR KRAFTSPANNFUTTER | PINZE COLLET SPANNZANGE |
|-----------------|---------------------------------|-----|----|---|-------------------------------------|--|--|-------------------------------|
| | d | L | A | capacità pinza Collect range Zangenspannbereich | | | | |
| 016 ER11 M L100 | 16 | 100 | 16 | 1÷7 | GER11 M | GRA 11-16 | CH11 M | ER11 |
| 020 ER16 M L100 | 20 | 100 | 22 | 1÷10 | GER16 M | GRA 11-16 | CH16 M | ER16 |
| ER16 M L160 | 20 | 160 | 22 | 1÷10 | | | | |
| ER16 M L200 | 20 | 200 | 22 | 1÷10 | | | | |
| 020 ER20 M L100 | 20 | 100 | 28 | 1÷13 | GER20 M | GRA 20-25 | CH20 M | ER20 |
| ER20 M L160 | 20 | 160 | 28 | 1÷13 | | | | |
| ER20 M L200 | 20 | 200 | 28 | 1÷13 | | | | |
| 025 ER25 M L130 | 25 | 130 | 35 | 1÷16 | GER25 M | GRA 25 | CH25 S | ER25 |
| ER25 M L160 | 25 | 160 | 35 | 1÷16 | | | | |
| 032 ER32 L080 | 32 | 80 | 50 | 2÷20 | GER32 | GRA 32-40 | CH32 S | ER32 |
| ER32 L160 | 32 | 160 | 50 | 2÷20 | | | | |
| ER32 L200 | 32 | 200 | 50 | 2÷20 | | | | |

ESEMPIO DI ORDINE:

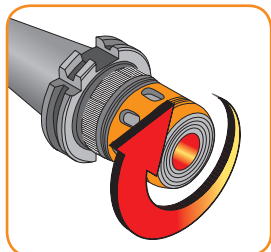
Order example:
 Beispiel für einen Auftrag:

020 ER20 M L100

4 FS...

FS

Bussole per mandrini a forte serraggio / High clamping chucks collets / Reduzierhülsen für Kraftspannfutter



| CODICE CODE | | D | d |
|-------------|----|----|----|
| 4 FS 20 | 03 | 20 | 03 |
| | 04 | 20 | 04 |
| | 05 | 20 | 05 |
| | 06 | 20 | 06 |
| | 08 | 20 | 08 |
| | 10 | 20 | 10 |
| | 12 | 20 | 12 |
| | 14 | 20 | 14 |
| | 15 | 20 | 15 |
| | 16 | 20 | 16 |

| CODICE CODE | | D | d |
|-------------|----|----|----|
| 4 FS 32 | 03 | 32 | 03 |
| | 04 | 32 | 04 |
| | 05 | 32 | 05 |
| | 06 | 32 | 06 |
| | 08 | 32 | 08 |
| | 10 | 32 | 10 |
| | 12 | 32 | 12 |
| | 14 | 32 | 14 |
| | 15 | 32 | 15 |
| | 16 | 32 | 16 |
| | 18 | 32 | 18 |
| | 19 | 32 | 19 |
| | 20 | 32 | 20 |
| 25 | 32 | 25 | |

BUSSOLE 4 TAGLI

COLLETS 4 CUTTER / 4 FACH GESCHLITZT

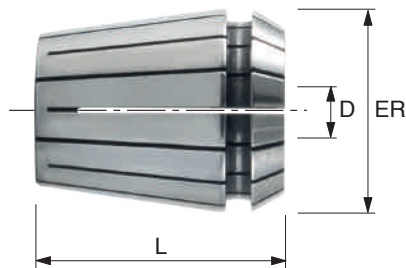
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

FS 20-12

ER...-D...

DIN 6499-A



| CODICE CODE | D min-max | Capacità di serraggio Clamping range Spannkraft | ER | L |
|----------------|--------------|--|----|------|
| ER11 -D... | 1-7 | 0,5 mm | 11 | 18 |
| ER16 -D... | 1-10 | 0,5 - 1 mm | 16 | 27,5 |
| ER20 -D... | 1-13 | 0,5 - 1 mm | 20 | 31,5 |
| ER25 -D... | 1-16 | 0,5 - 1 mm | 25 | 34 |
| ER32 -D... | 2-20 | 0,5 - 1 mm | 32 | 40 |
| ER40 -D... | 3-30 | 1 mm | 40 | 46 |

CARATTERISTICHE TECNICHE

- Costruite in acciaio 60 SiCr7
- Temprate / Rinvenute - HRC 46 +/- 2
- Rettificate di precisione esternamente, internamente con macchine CNC
- Controllati con strumenti di misura certificati
- La tolleranza di rotazione delle pinze ERC corrisponde ai valori della classe 2 - DIN 6499

TECHNICAL FEATURES

- Manufactured with Silicon Chrome steel, similar to SAE 9262
- Quenched and tempered RC 46 +/- 2
- Precision ground with CNC machines
- Tested with high precision inspection and gaging equipment
- The runout accuracy of ERC collets is equivalent to DIN 6499 - Class 2

TECHNISCHE MERKMALE

- hergestellt aus Stahl 60 SiCr7
- gehärtet / angelassen RC 46 +/- 2
- innen und außen mit CNC geschliffen
- Kontrolle mittels zertifizierter Messinstrumente
- die Rundlaufgenauigkeit der ER-Spannzangen entspricht DIN 6499 - Klasse 2

CODICE CODE

| |
|-----------|
| ER40 -D3 |
| ER40 -D4 |
| ER40 -D5 |
| ER40 -D6 |
| ER40 -D7 |
| ER40 -D8 |
| ER40 -D9 |
| ER40 -D10 |
| ER40 -D11 |
| ER40 -D12 |
| ER40 -D13 |
| ER40 -D14 |
| ER40 -D15 |
| ER40 -D16 |
| ER40 -D17 |
| ER40 -D18 |
| ER40 -D19 |
| ER40 -D20 |
| ER40 -D21 |
| ER40 -D22 |
| ER40 -D23 |
| ER40 -D24 |
| ER40 -D25 |
| ER40 -D26 |
| ER40 -D27 |
| ER40 -D28 |
| ER40 -D29 |
| ER40 -D30 |

CODICE CODE

| |
|------------|
| ER32 -D2 |
| ER32 -D2,5 |
| ER32 -D3 |
| ER32 -D3,5 |
| ER32 -D4 |
| ER32 -D5 |
| ER32 -D6 |
| ER32 -D7 |
| ER32 -D8 |
| ER32 -D9 |
| ER32 -D10 |
| ER32 -D11 |
| ER32 -D12 |
| ER32 -D13 |
| ER32 -D14 |
| ER32 -D15 |
| ER32 -D16 |
| ER32 -D17 |
| ER32 -D18 |
| ER32 -D19 |
| ER32 -D20 |

CODICE CODE

| |
|------------|
| ER25 -D1 |
| ER25 -D1,5 |
| ER25 -D2 |
| ER25 -D2,5 |
| ER25 -D3 |
| ER25 -D4 |
| ER25 -D5 |
| ER25 -D6 |
| ER25 -D7 |
| ER25 -D8 |
| ER25 -D9 |
| ER25 -D10 |
| ER25 -D11 |
| ER25 -D12 |
| ER25 -D13 |
| ER25 -D14 |
| ER25 -D15 |
| ER25 -D16 |

CODICE CODE

| |
|------------|
| ER20 -D1 |
| ER20 -D1,5 |
| ER20 -D2 |
| ER20 -D3 |
| ER20 -D4 |
| ER20 -D5 |
| ER20 -D6 |
| ER20 -D7 |
| ER20 -D8 |
| ER20 -D9 |
| ER20 -D10 |
| ER20 -D11 |
| ER20 -D12 |
| ER20 -D13 |

CODICE CODE

| |
|------------|
| ER16 -D1 |
| ER16 -D1,5 |
| ER16 -D2 |
| ER16 -D2,5 |
| ER16 -D3 |
| ER16 -D4 |
| ER16 -D5 |
| ER16 -D6 |
| ER16 -D7 |
| ER16 -D8 |
| ER16 -D9 |
| ER16 -D10 |

CODICE CODE

| |
|------------|
| ER11 -D1 |
| ER11 -D1,5 |
| ER11 -D2 |
| ER11 -D2,5 |
| ER11 -D3 |
| ER11 -D3,5 |
| ER11 -D4 |
| ER11 -D4,5 |
| ER11 -D5 |
| ER11 -D5,5 |
| ER11 -D6 |
| ER11 -D6,5 |
| ER11 -D7 |

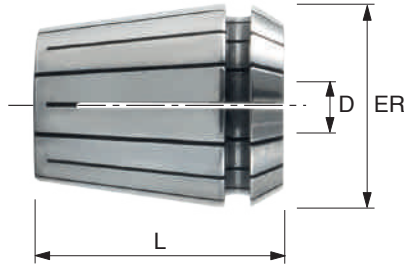
ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

ER32-D10

ERP...-D...

DIN 6499-A



| CODICE CODE | D min-max | Capacità di serraggio Clamping range Spannkraft | ER | L |
|----------------|--------------|--|----|------|
| ERP11 -D... | 1-7 | 0,5 mm | 11 | 18 |
| ERP16 -D... | 1-10 | 0,5 - 1 mm | 16 | 27,5 |
| ERP20 -D... | 1-13 | 0,5 - 1 mm | 20 | 31,5 |
| ERP25 -D... | 1-16 | 0,5 - 1 mm | 25 | 34 |

CARATTERISTICHE TECNICHE

- Pinze a tenuta stagna meccanica
- Precisione di rotazione testata entro 0,005 mm (DIN 6499 - Classe)
- Sono la scelta ideale per i mandrini bilanciati a 20.000 giri/min della "Gold Line".

TECHNICAL FEATURES

- Mechanical watertight estate sealed collets
- The runout accuracy is 0,005 mm (DIN 6499 - Class)
- First choice for "Gold Line" collet chucks (balanced 20.000 rpm).

TECHNISCHE MERKMALE

- mechanisch abgedichtet
- die Rundlaufgenauigkeit beträgt 0,005 mm (DIN 6499 - Klasse)
- erste Wahl für "Gold Line" Spannzangenaufnahme (gewuchtet für 20.000 U/min).

| CODICE | CODE |
|--------|-------|
| ERP11 | -D1 |
| ERP11 | -D1,5 |
| ERP11 | -D2 |
| ERP11 | -D2,5 |
| ERP11 | -D3 |
| ERP11 | -D3,5 |
| ERP11 | -D4 |
| ERP11 | -D4,5 |
| ERP11 | -D5 |
| ERP11 | -D5,5 |
| ERP11 | -D6 |
| ERP11 | -D6,5 |
| ERP11 | -D7 |

| CODICE | CODE |
|--------|-------|
| ERP16 | -D1 |
| ERP16 | -D1,5 |
| ERP16 | -D2 |
| ERP16 | -D2,5 |
| ERP16 | -D3 |
| ERP16 | -D4 |
| ERP16 | -D5 |
| ERP16 | -D6 |
| ERP16 | -D7 |
| ERP16 | -D8 |
| ERP16 | -D9 |
| ERP16 | -D10 |

| CODICE | CODE |
|--------|-------|
| ERP20 | -D1 |
| ERP20 | -D1,5 |
| ERP20 | -D2 |
| ERP20 | -D3 |
| ERP20 | -D4 |
| ERP20 | -D5 |
| ERP20 | -D6 |
| ERP20 | -D7 |
| ERP20 | -D8 |
| ERP20 | -D9 |
| ERP20 | -D10 |
| ERP20 | -D11 |
| ERP20 | -D12 |
| ERP20 | -D13 |

| CODICE | CODE |
|--------|-------|
| ERP25 | -D1 |
| ERP25 | -D1,5 |
| ERP25 | -D2 |
| ERP25 | -D2,5 |
| ERP25 | -D3 |
| ERP25 | -D4 |
| ERP25 | -D5 |
| ERP25 | -D6 |
| ERP25 | -D7 |
| ERP25 | -D8 |
| ERP25 | -D9 |
| ERP25 | -D10 |
| ERP25 | -D11 |
| ERP25 | -D12 |
| ERP25 | -D13 |
| ERP25 | -D14 |
| ERP25 | -D15 |
| ERP25 | -D16 |

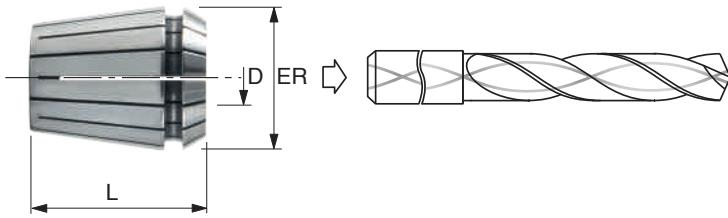
ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

ERP20-D8

ERT...-D...

DIN 6499-A



| CODICE CODE | D min-max | ER | L |
|----------------|--------------|----|----|
| ERT25 -D... | 2-16 | 25 | 34 |
| ERT32 -D... | 3-20 | 32 | 40 |
| ERT40 -D... | 4-26 | 40 | 46 |

CARATTERISTICHE TECNICHE

- Bloccano solo il diametro nominale degli utensili con fori di refrigerazione (pressione del refrigerante fino a 30 bar)
- Precisione di rotazione testata entro 0,005 mm (DIN 6499 - Classe)
- Mandrini equilibrati per alte velocità di taglio

TECHNICAL FEATURES

- Collets can hold only nominal diameter of tools with cooling bores (cooling pressure up to 30 bar)
- The runout accuracy is 0,005 mm (DIN 6499 - Class)
- Tested with high precision inspection and gaging equipment
- Used in balanced collet chucks for high speeds

TECHNISCHE MERKMALE

- Die Spannzangen klemmen nur den Nominaldurchmesser der Werkzeuge mit Kühlmittelbohrungen (Kühlmitteldruck bis 30 bar)
- die Rundlaufgenauigkeit beträgt 0,005 mm (DIN 6499 - Klasse)
- Verwendung vor allem für Aufnahmen, die für hohe Schnittgeschwindigkeiten gewuchtet sind.

| CODICE | CODE * |
|--------|--------|
| ERT40 | -D3 |
| ERT40 | -D4 |
| ERT40 | -D5 |
| ERT40 | -D6 |
| ERT40 | -D7 |
| ERT40 | -D8 |
| ERT40 | -D9 |
| ERT40 | -D10 |
| ERT40 | -D11 |
| ERT40 | -D12 |
| ERT40 | -D13 |
| ERT40 | -D14 |
| ERT40 | -D15 |
| ERT40 | -D16 |
| ERT40 | -D17 |
| ERT40 | -D18 |
| ERT40 | -D19 |
| ERT40 | -D20 |
| ERT40 | -D21 |
| ERT40 | -D22 |
| ERT40 | -D23 |
| ERT40 | -D24 |
| ERT40 | -D25 |
| ERT40 | -D26 |

* A richiesta disponibili anche le misure ...,5 (es. ERT 25 D8,5)
On request size ...,5 (ex. ERT 25 D8,5)
Auf anfrage Grösse ...,5 (ex. ERT 25 D8,5)

| CODICE | CODE | CODICE | CODE * | CODICE | CODE * |
|--------|------|--------|--------|--------|--------|
| ERT16 | -D3 | ERT20 | -D3 | ERT25 | -D3 |
| ERT16 | -D4 | ERT20 | -D4 | ERT25 | -D4 |
| ERT16 | -D5 | ERT20 | -D5 | ERT25 | -D5 |
| ERT16 | -D6 | ERT20 | -D6 | ERT25 | -D6 |
| ERT16 | -D7 | ERT20 | -D7 | ERT25 | -D7 |
| ERT16 | -D8 | ERT20 | -D8 | ERT25 | -D8 |
| ERT16 | -D9 | ERT20 | -D9 | ERT25 | -D9 |
| ERT16 | -D10 | ERT20 | -D10 | ERT25 | -D10 |
| ERT16 | -D11 | ERT20 | -D11 | ERT25 | -D11 |
| ERT16 | -D12 | ERT20 | -D12 | ERT25 | -D12 |
| ERT16 | -D13 | ERT20 | -D13 | ERT25 | -D13 |
| ERT16 | -D14 | ERT20 | -D14 | ERT25 | -D14 |
| ERT16 | -D15 | ERT20 | -D15 | ERT25 | -D15 |
| ERT16 | -D16 | ERT20 | -D16 | ERT25 | -D16 |
| ERT16 | -D17 | ERT20 | -D17 | ERT25 | -D17 |
| ERT16 | -D18 | ERT20 | -D18 | ERT25 | -D18 |
| ERT16 | -D19 | ERT20 | -D19 | ERT25 | -D19 |
| ERT16 | -D20 | ERT20 | -D20 | ERT25 | -D20 |
| ERT16 | -D21 | ERT20 | -D21 | ERT25 | -D21 |
| ERT16 | -D22 | ERT20 | -D22 | ERT25 | -D22 |
| ERT16 | -D23 | ERT20 | -D23 | ERT25 | -D23 |
| ERT16 | -D24 | ERT20 | -D24 | ERT25 | -D24 |
| ERT16 | -D25 | ERT20 | -D25 | ERT25 | -D25 |
| ERT16 | -D26 | ERT20 | -D26 | ERT25 | -D26 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

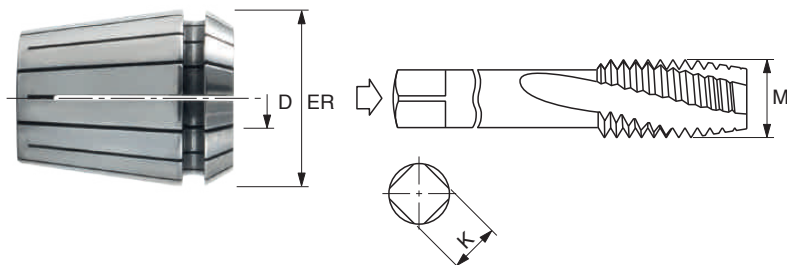
ERT32-D15

ERM...-D...

DIN 6499-A

**CON QUADRO DI
 TRASCINAMENTO
 DEL MASCHIO**

*SQUARE TAP DRIVE
 BUILT INTO THE COLLET
 DOPPELKONUSSPANNZANGE
 ZUR AUFNAHME VON
 GEWINDEBOHRERN*



| CODICE CODE | | D | K | DIN 371 | DIN 374 DIN 376 |
|----------------|-------|-----|------|---------|--------------------|
| ERM 25 | -D2,8 | 2,8 | 2,1 | M2 | M4 |
| ERM 25 | -D3,5 | 3,5 | 2,7 | M3 | M5 |
| ERM 25 | -D4 | 4 | 3 | M3,5 | - |
| ERM 25 | -D4,5 | 4,5 | 3,4 | M4 | M6 |
| ERM 25 | -D5 | 5 | 4 | - | - |
| ERM 25 | -D5,5 | 5,5 | 4,3 | M7 | - |
| ERM 25 | -D6 | 6 | 4,9 | M6 | M8 |
| ERM 25 | -D7 | 7 | 5,5 | M7 | M10 |
| ERM 25 | -D8 | 8 | 6,2 | M8 | - |
| ERM 25 | -D9 | 9 | 7 | - | M12 |
| ERM 25 | -D10 | 10 | 8 | M10 | - |
| ERM 25 | -D11 | 11 | 9 | - | M14 |
| ERM 25 | -D12 | 12 | 9 | - | M16 |
| ERM 32 | -D4 | 4 | 3 | M3,5 | - |
| ERM 32 | -D4,5 | 4,5 | 3,4 | M4 | M6 |
| ERM 32 | -D5 | 5 | 4 | - | - |
| ERM 32 | -D5,5 | 5,5 | 4,3 | M7 | - |
| ERM 32 | -D6 | 6 | 4,9 | M6 | M8 |
| ERM 32 | -D7 | 7 | 5,5 | M7 | M10 |
| ERM 32 | -D8 | 8 | 6,2 | M8 | M10 |
| ERM 32 | -D9 | 9 | 7 | - | M12 |
| ERM 32 | -D10 | 10 | 8 | M10 | - |
| ERM 32 | -D11 | 11 | 9 | - | M14 |
| ERM 32 | -D12 | 12 | 9 | - | M16 |
| ERM 32 | -D14 | 14 | 11 | - | M18 |
| ERM 32 | -D16 | 12 | 12 | - | M20 |
| ERM 40 | -D6 | 6 | 4,9 | M6 | M8 |
| ERM 40 | -D7 | 7 | 5,5 | M7 | M10 |
| ERM 40 | -D8 | 8 | 6,2 | M8 | - |
| ERM 40 | -D9 | 9 | 7 | - | - |
| ERM 40 | -D10 | 10 | 8 | M10 | - |
| ERM 40 | -D11 | 11 | 9 | - | M14 |
| ERM 40 | -D12 | 12 | 9 | - | M16 |
| ERM 40 | -D14 | 14 | 11 | - | M18 |
| ERM 40 | -D16 | 16 | 12 | - | M20 |
| ERM 40 | -D18 | 18 | 14,5 | - | M22-24 |
| ERM 40 | -D20 | 20 | 16 | - | M27 |

ESEMPIO DI ORDINE:

*Order example:
 Beispiel für einen Auftrag:*

ERM32-D20

BX-ER...



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | |
|----------------|------------------------------------|--|
| | N° Pinze Set / PCS / Anzahl pro Ka | Composizione / Collets in set / Inhalt |
| BX - ER 11-13 | 13 | D 1-7 per 0,5mm |
| BX - ER 16-10 | 10 | D 1-10 per 1mm |
| BX - ER 16-12 | 12 | D 1-10 per 1mm +1,5 e 2,5 |
| BX - ER 20-12 | 12 | D 2-13 per 1mm |
| BX - ER 20-15 | 15 | D 1-13 per 1mm +1,5 e2,5 |
| BX - ER 25-15 | 15 | D 2-16 per 1mm |
| BX - ER 25-18 | 18 | D 1-16 per 1mm +1,5 e 2,5 |
| BX - ER 32-18 | 18 | D 3-20 per 1mm |
| BX - ER 32-20 | 20 | D 2-20 per 1mm +2,5 |
| BX - ER 40-23 | 23 | D 4-26 per 1mm |
| BX - ER 40-28 | 28 | D 3-30 per 1mm |

BX-ERP...



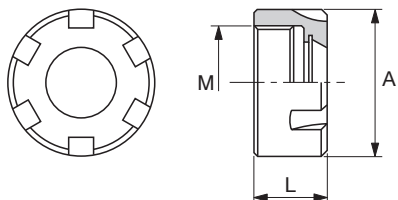
| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | |
|----------------|------------------------------------|--|
| | N° Pinze Set / PCS / Anzahl pro Ka | Composizione / Collets in set / Inhalt |
| BX - ERP 11-13 | 13 | D 1-7 per 0,5mm |
| BX - ERP 16-10 | 10 | D 1-10 per 1mm |
| BX - ERP 20-12 | 12 | D 2-13 per 1mm |
| BX - ERP 25-16 | 16 | D 1-16 per 1mm |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

BX-ERP 25-16

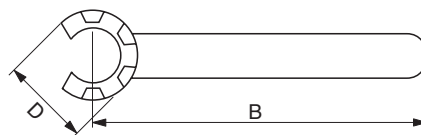
GER...M



CON ESTRAZIONE ECCENTRICA DELLA PINZA
With eccentric collet extraction
Mit exzentrischer Entnahme der Spannzange

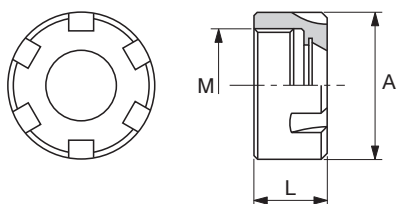
| CODICE CODE | | DIMENSIONI / DIMENSIONS / MAßE | | |
|----------------|------|--------------------------------|----|----|
| | | Filetto Thread Gewinde | A | L |
| GER | 11M | M13x0,75 | 16 | 12 |
| GER | 16 M | M19x1 | 22 | 18 |
| GER | 20 M | M24x1 | 28 | 19 |
| GER | 25 M | M30x1 | 35 | 20 |

CH...M



| CODICE CODE | | DIMENSIONI / DIMENSIONS / MAßE | | |
|----------------|------|--------------------------------|------|-----|
| | | Filetto Thread Gewinde | D | B |
| CH | 11M | M13x0,75 | 16,8 | 90 |
| CH | 16 M | M19x1 | 22,5 | 110 |
| CH | 20 M | M24x1 | 29 | 120 |
| CH | 25 M | M30x1 | 36 | 130 |

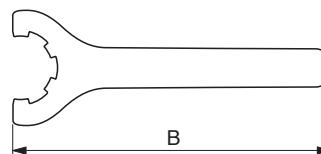
GER...



CON ESTRAZIONE ECCENTRICA DELLA PINZA
With eccentric collet extraction
Mit exzentrischer Entnahme der Spannzange

| CODICE CODE | | DIMENSIONI / DIMENSIONS / MAßE | | |
|----------------|----|--------------------------------|----|------|
| | | Filetto Thread Gewinde | A | L |
| GER | 16 | M22x1,5 | 32 | 17 |
| GER | 20 | M25x1,5 | 35 | 19 |
| GER | 25 | M32x1,5 | 42 | 20 |
| GER | 32 | M40x1,5 | 50 | 22,5 |
| GER | 40 | M50x1,5 | 63 | 25,5 |

CH...

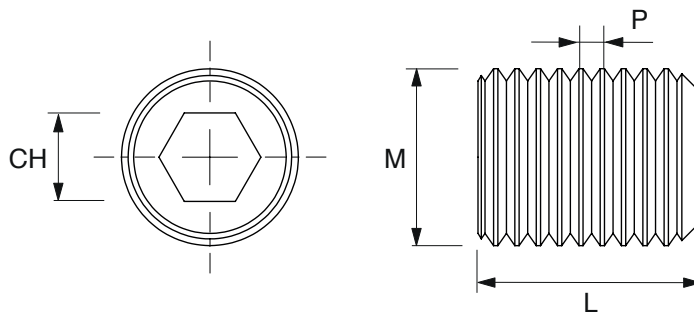


| CODICE CODE | | DIMENSIONI / DIMENSIONS / MAßE | | |
|----------------|------|--------------------------------|-----|--|
| | | Filetto Thread Gewinde | B | |
| CH | 16 S | M22x1,5 | 165 | |
| CH | 20 S | M25x1,5 | 185 | |
| CH | 25 S | M32x1,5 | 200 | |
| CH | 32 S | M40x1,5 | 250 | |
| CH | 40 S | M50x1,5 | 280 | |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

GER 20 M

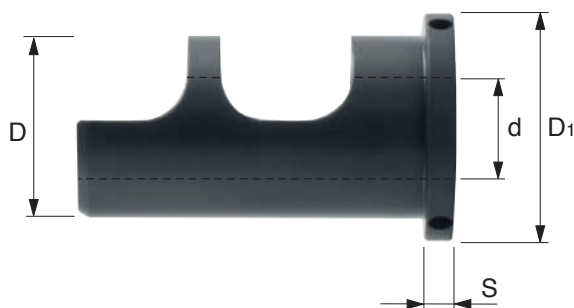
GRW...



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | |
|----------------|--------------------------------|------|----|----|
| | M | P | L | CH |
| GRW 6 | 6 | 1 | 10 | 3 |
| GRW 8 | 8 | 1,25 | 10 | 4 |
| GRW 10 | 10 | 1,5 | 12 | 5 |
| GRW 12-14 | 12 | 1,75 | 16 | 6 |
| GRW 16 | 14 | 2 | 16 | 6 |
| GRW 16-18B | 14 | 2 | 25 | 6 |
| GRW 20A | 16 | 2 | 10 | 8 |
| GRW 20 | 16 | 2 | 16 | 8 |
| GRW 25A | 18 | 2 | 12 | 8 |
| GRW 25 | 18 | 2 | 20 | 8 |
| GRW 32-40 | 20 | 2 | 20 | 8 |
| GRW 32A | 20 | 2 | 11 | 8 |
| GRW 32C | 14 | 2 | 10 | 6 |
| GRW 40A | 20 | 2 | 20 | 8 |
| GRW 50 | 24 | 2 | 25 | 12 |

PRB...

DIN 69893



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | | | Campo di regolazione Regulation field Einstellungsbereich |
|----------------|---------------------------------|----|----------------|---|---|
| | D | d | D ₁ | S | |
| PRB 25-32 | 32 | 25 | 45 | 5 | + / - 0,3 |
| PRB 32-40 | 40 | 32 | 50 | 5 | + / - 0,3 |
| PRB 40-50 | 50 | 40 | 60 | 5 | + / - 0,3 |

ESEMPIO DI ORDINE:

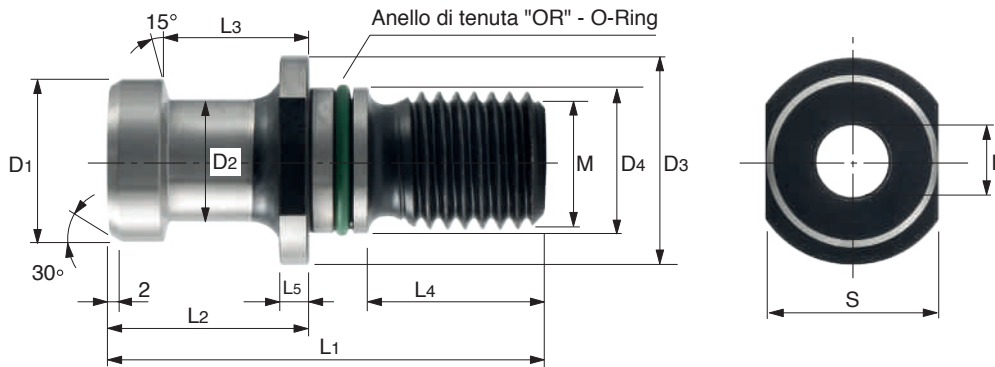
Order example:
 Beispiel für einen Auftrag:

PRB 32-40

PRB...

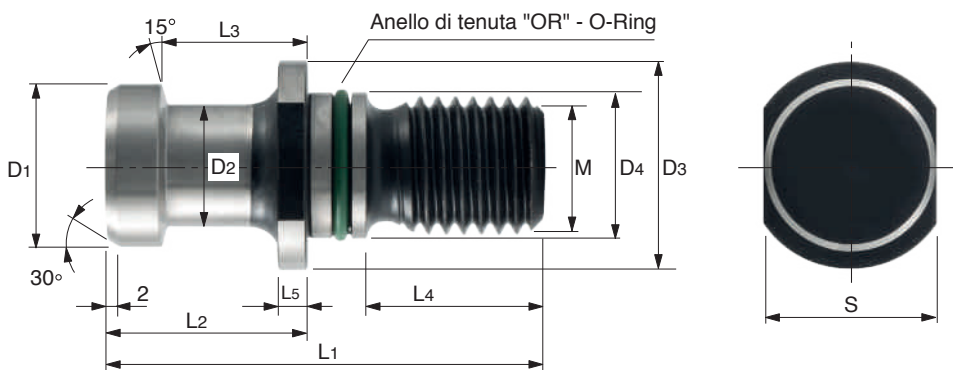
MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

CDL...AF...



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | | | | | | | | | | |
|----------------|--------------------------------|----------------|----------------|----------------|----------------|-----|------|----------------|----------------|----------------|----------------|----------------|----|--|
| | CONO ISO | D ₁ | D ₂ | D ₃ | D ₄ | M | F | L ₁ | L ₂ | L ₃ | L ₄ | L ₅ | S | |
| CDL 7388 AF 40 | 40 | 19 | 14 | 23 | 17 | M16 | 7 | 54 | 26 | 20 | 21 | 4 | 19 | |
| CDL 7388 AF 50 | 50 | 28 | 21 | 36 | 25 | M24 | 11,5 | 74 | 34 | 25 | 30 | 5 | 30 | |

CDL...AS...

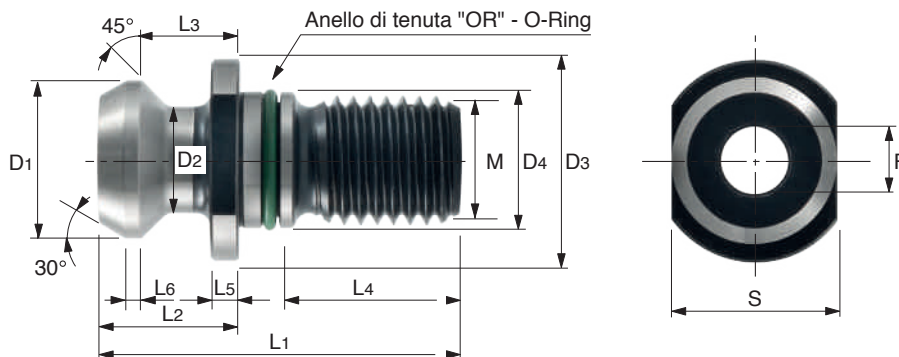


| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | | | | | | | | | | |
|----------------|--------------------------------|----------------|----------------|----------------|----------------|-----|---|----------------|----------------|----------------|----------------|----------------|----|--|
| | CONO ISO | D ₁ | D ₂ | D ₃ | D ₄ | M | F | L ₁ | L ₂ | L ₃ | L ₄ | L ₅ | S | |
| CDL 7388 AS 40 | 40 | 19 | 14 | 23 | 17 | M16 | - | 54 | 26 | 20 | 21 | 4 | 19 | |
| CDL 7388 AS 50 | 50 | 28 | 21 | 36 | 25 | M24 | - | 74 | 34 | 25 | 30 | 5 | 30 | |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

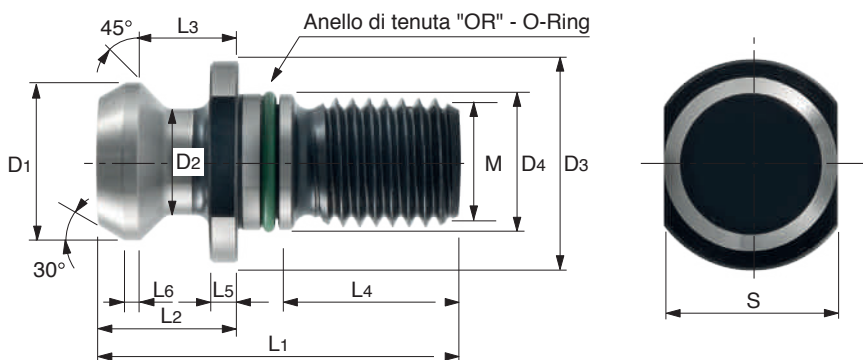
CDL 7388 AF 40

CDL...BF...



| CODICE CODE | | | DIMENSIONI / DIMENSIONS / MAßE | | | | | | | | | | | | | |
|----------------|------|-------|--------------------------------|-------|-------|------|----|-----|-------|------|-------|-------|-------|------|------|----|
| | | | CONO ISO | D1 | D2 | D3 | D4 | M | F | L1 | L2 | L3 | L4 | L5 | L6 | S |
| CDL | 7388 | BF 40 | 40 | 18,95 | 12,95 | 22,5 | 17 | M16 | 7,35 | 44,5 | 16,4 | 11,15 | 21,1 | 3,25 | 1,75 | 18 |
| CDL | 7388 | BF 50 | 50 | 29,1 | 19,6 | 37 | 25 | M24 | 11,55 | 65,5 | 25,55 | 17,95 | 29,95 | 5,25 | 2,75 | 30 |

CDL...BS...



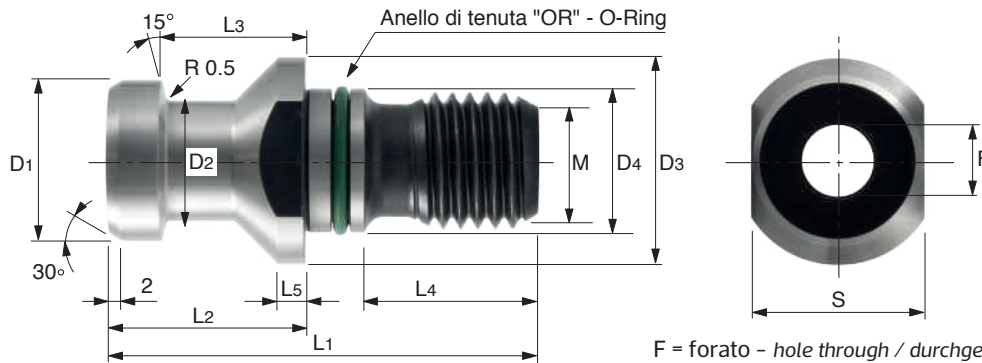
| CODICE CODE | | | DIMENSIONI / DIMENSIONS / MAßE | | | | | | | | | | | | | |
|----------------|------|-------|--------------------------------|-------|-------|------|----|-----|---|------|-------|-------|-------|------|------|----|
| | | | CONO ISO | D1 | D2 | D3 | D4 | M | F | L1 | L2 | L3 | L4 | L5 | L6 | S |
| CDL | 7388 | BS 40 | 40 | 18,95 | 12,95 | 22,5 | 17 | M16 | - | 44,5 | 16,4 | 11,15 | 21,1 | 3,25 | 1,75 | 18 |
| CDL | 7388 | BS 50 | 50 | 29,1 | 19,6 | 37 | 25 | M24 | - | 65,5 | 25,55 | 17,95 | 29,95 | 5,25 | 2,75 | 30 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

CDL 7388 BF 40

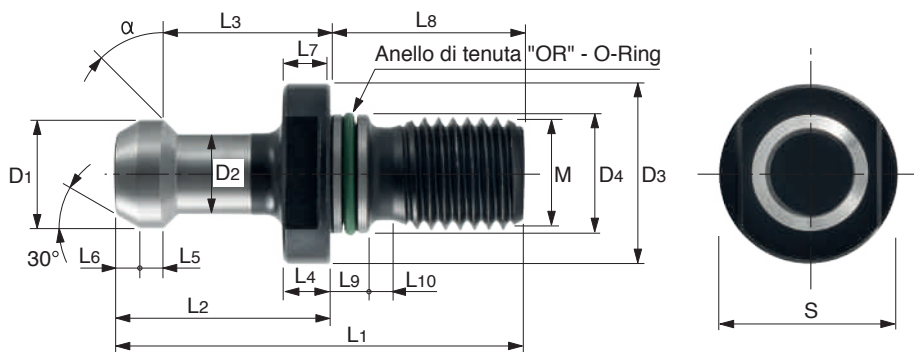
CDL 69871...



F = forato - hole through / durchgebohrt
S = non forato - no hole through / nicht durchgebohrt

| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | | | | | | | | | | |
|----------------|--------------------------------|----|----|----|----|-----|------|----|----|----|----|----|----|--|
| | CONO ISO | D1 | D2 | D3 | D4 | M | F | L1 | L2 | L3 | L4 | L5 | S | |
| CDL 69871 F 40 | 40 | 19 | 14 | 23 | 17 | M16 | 7 | 54 | 26 | 20 | 21 | 4 | 19 | |
| CDL 69871 F 50 | 50 | 28 | 21 | 36 | 25 | M24 | 11,5 | 74 | 34 | 25 | 30 | 5 | 30 | |
| CDL 69871 S 40 | 40 | 19 | 14 | 23 | 17 | M16 | - | 54 | 26 | 20 | 21 | 4 | 19 | |
| CDL 69871 S 50 | 50 | 28 | 21 | 36 | 25 | M24 | - | 74 | 34 | 25 | 30 | 5 | 30 | |

CDL BT...



| CODICE CODE | DIMENSIONI / DIMENSIONS / MAßE | | | | | | | | | | | | | | | | | | |
|----------------|--------------------------------|----------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|--|
| | CONO ISO | α | D1 | D2 | D3 | D4 | M | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | S | |
| CDL BT 40-45 | 40 | 45° | 15 | 10 | 23 | 17 | M16 | 60 | 35 | 28 | 6 | 3 | 4 | 4 | 25 | 5 | 4 | 19 | |
| CDL BT 50-45 | 50 | 45° | 23 | 17 | 38 | 25 | M24 | 85 | 45 | 35 | 10 | 5 | 5 | 8 | 40 | 8 | 5 | 30 | |
| CDL BT 40-60 | 40 | 30° | 15 | 10 | 23 | 17 | M16 | 60 | 35 | 28 | 6 | 3 | 4 | 4 | 25 | 5 | 4 | 19 | |
| CDL BT 50-60 | 50 | 30° | 23 | 17 | 38 | 25 | M24 | 85 | 45 | 35 | 10 | 5 | 5 | 8 | 40 | 8 | 5 | 30 | |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

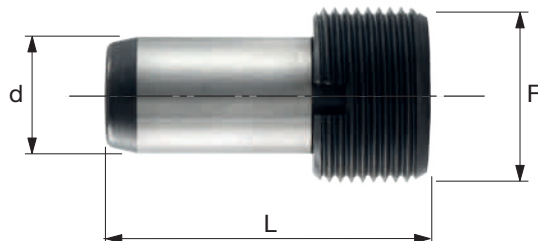
CDL 69871 F 40

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Adduttore per refrigerante
Coolant pipe
Kühlmittelübergaberohre



APR HSK...



| CODICE CODE | DIMENSIONI DIMENSIONS / MAßE | | |
|----------------|---------------------------------|------|---------|
| | d | L | F |
| APR HSK63 | 12 | 36,6 | M18x1 |
| APR HSK100 | 16 | 44 | M24x1,5 |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

APR HSK100

APR HSK...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Smontaconi
Disassemble toll for chucks
Montagevorrichtung für Werkzeug-
aufnahme



SMONTA...



CODICE
CODE

| | |
|---------------|---------------|
| SMONTA | ISO 40 |
| SMONTA | ISO 50 |
| SMONTA | HSK63 |
| SMONTA | HSK100 |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

SMONTA HSK63

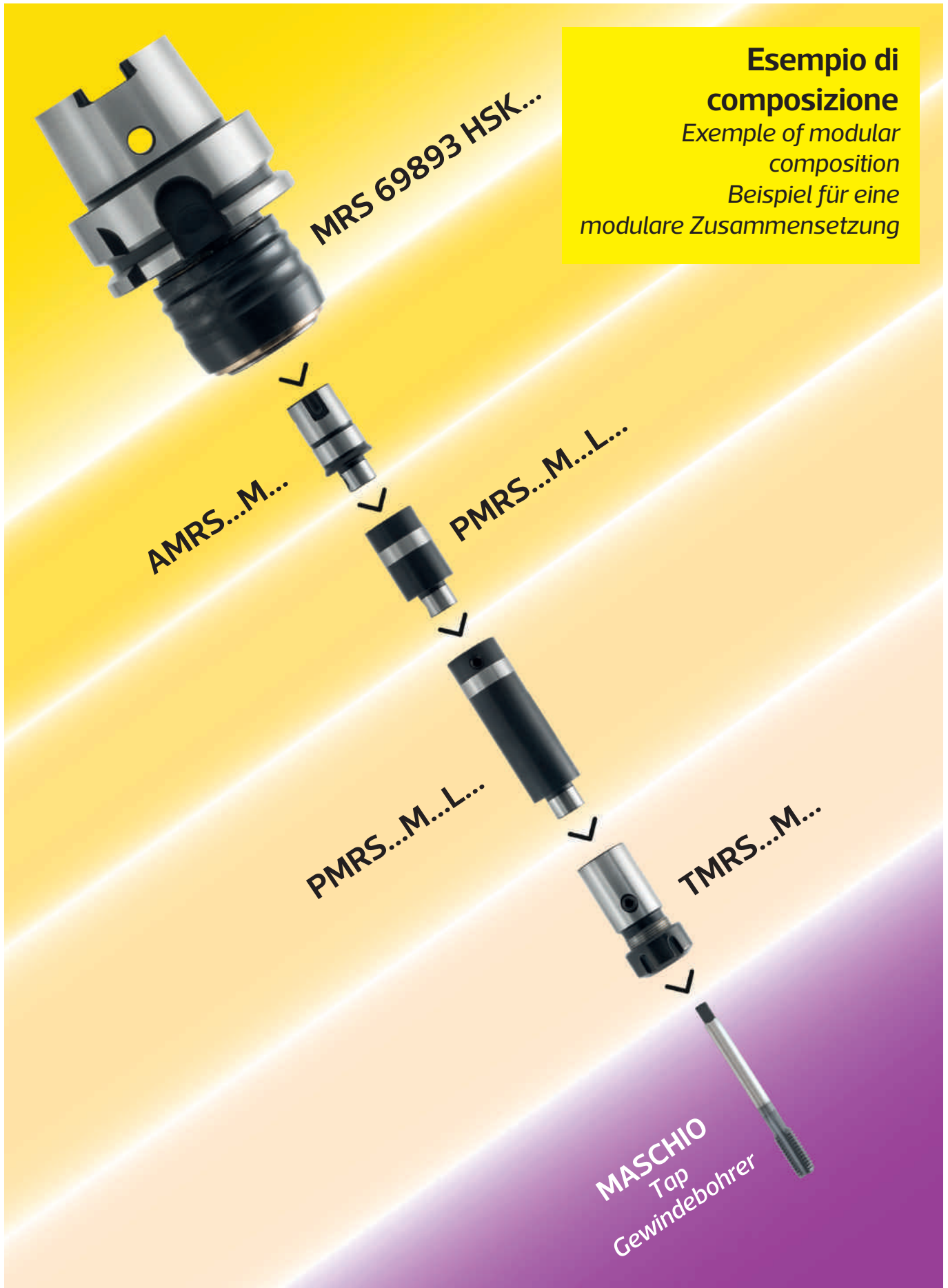
SMONTA...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

**Maschiatore per maschiatura rigida
sincronizzata**

*Tapping chuck for rigid synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich*



**Esempio di
composizione**
*Exemple of modular
composition
Beispiel für eine
modulare Zusammensetzung*

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

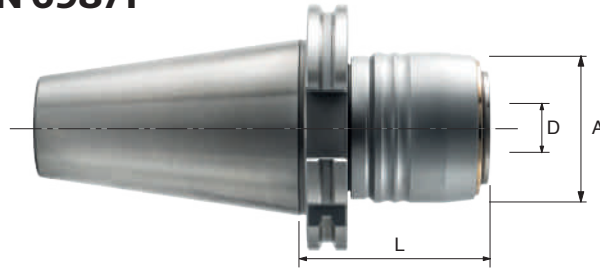
**MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME**

**Maschiatore per maschiatura rigida
sincronizzata**
Tapping chuck for rigid synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich



MRS 69871...

DIN 69871



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|----------------------------|----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| MRS 69871 ISO40 L053 M1 | 53 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| | 90 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |
| MRS 69871 ISO50 L053 M1 | 53 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| | 74 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |

Compensazione in sfilamento / Compensation in Extension / Längenausgleich auf Zug

1 mm

Compensazione in entrata / Compensation in Compression / Längenausgleich auf Druck

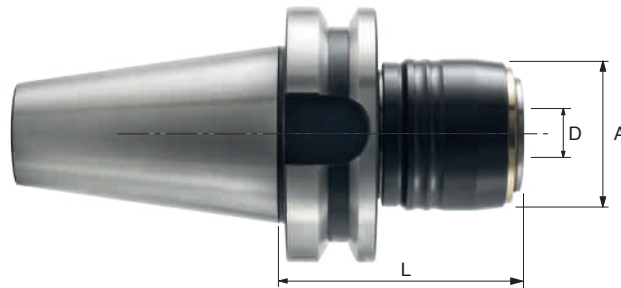
0,2 mm

Con passaggio di lubrificante fino a 50 bar / With coolant flow till 50 bar / mit Kühlmittelfluss bis

50 bar

MRS MAS403BT...

MAS403 BT



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|----------------------------|----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| MRS MAS403 BT40 L061 M1 | 61 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| | 82 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |
| MRS MAS403 BT50 L072 M1 | 72 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| | 93 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |

Compensazione in sfilamento / Compensation in Extension / Längenausgleich auf Zug

1 mm

Compensazione in entrata / Compensation in Compression / Längenausgleich auf Druck

0,2 mm

Con passaggio di lubrificante fino a 50 bar / With coolant flow till 50 bar / mit Kühlmittelfluss bis

50 bar

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MRS MAS403 BT50 L072 M1

**MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME**

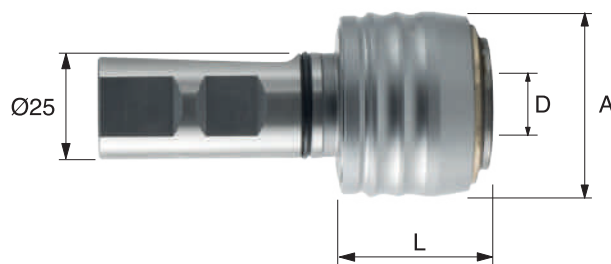
**Maschiatore per maschiatura rigida
sincronizzata**

Tapping chuck for rigid synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter
mit Minimallängenausgleich



MRS DIN1835B-E...

DIN 1835



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|--------------------------|----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| MRS DIN 1835 B-E L034 M1 | 34 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| L056 M2 | 56 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |

Compensazione in sfilamento / Compensation in Extension / Längenausgleich auf Zug

1 mm

Compensazione in entrata / Compensation in Compression / Längenausgleich auf Druck

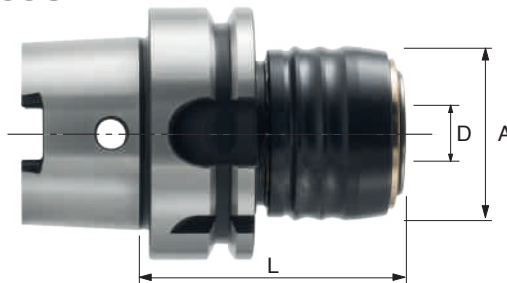
0,2 mm

Con passaggio di lubrificante fino a 50 bar / With coolant flow till 50 bar / mit Kühlmittelfluss bis

50 bar

MRS 69893HSK...

DIN 69893



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|---------------------------|----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| MRS 69893 HSK40A L069 M1 | 69 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| L090 M2 | 90 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |
| MRS 69893 HSK50A L070 M1 | 70 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| L097 M2 | 97 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |
| MRS 69893 HSK63A L064 M1 | 64 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| L097 M2 | 97 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |
| MRS 69893 HSK100A L070 M1 | 70 | 20 | 43 | BMRS M1 ER16 | M3÷M12 | 1,0 | 0,2 |
| L091 M2 | 91 | 32 | 60 | BMRS M2 ER25 | M6÷M20 | 1,0 | 0,2 |

Compensazione in sfilamento / Compensation in Extension / Längenausgleich auf Zug

1 mm

Compensazione in entrata / Compensation in Compression / Längenausgleich auf Druck

0,2 mm

Con passaggio di lubrificante fino a 50 bar / With coolant flow till 50 bar / mit Kühlmittelfluss bis

50 bar

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

MRS DIN 1835 B-E L034 M1

MRS DIN1835B-E / MRS 69893 HSK...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

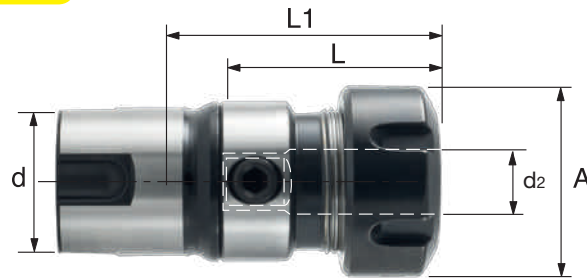
MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Maschiatore per maschiatura rigida sincronizzata

Tapping chuck for rigid synchronized tapping
Synchron-Gewindebohrer-Schnellwechselfutter mit Minimallängenausgleich



BMRS...M...ER...



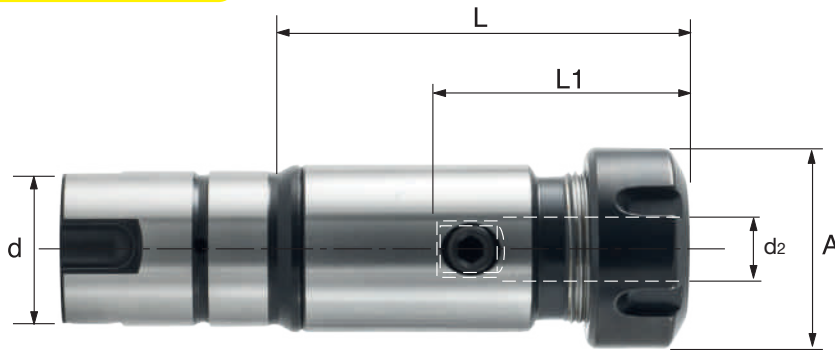
| CODICE CODE | | L | A | d | L1 | Pinza Collet Spannzange | d2 gambo maschio Tap shank Bohrerschaft | Campo di applicazione Application field Anwendungsbereich |
|----------------|---------|----|----|----|----|-------------------------------|--|---|
| BMRS | M1 ER16 | 24 | 28 | 20 | 37 | ER16 | 2÷10 | M3÷M12 |
| | M2 ER25 | 28 | 42 | 32 | 52 | ER25 | 2÷16 | M6÷M20 |

Per il passaggio del refrigerante utilizzare le pinze ERT

For coolant through use ERT collets

Für Kühlmittelfluss ERT-Spannzangen verwenden

BMRS...M...ER...L



| CODICE CODE | | L | A | d | L1 | Pinza Collet Spannzange | d2 gambo maschio Tap shank Bohrerschaft | Campo di applicazione Application field Anwendungsbereich |
|----------------|-----------|----|----|----|----|-------------------------------|--|---|
| BMRS | M1 ER16 L | 55 | 28 | 20 | 38 | ER16 | 2÷10 | M3÷M12 |
| | M2 ER25 L | 86 | 42 | 32 | 50 | ER25 | 2÷16 | M6÷M20 |

Per il passaggio del refrigerante utilizzare le pinze ERT

For coolant through use ERT collets

Für Kühlmittelfluss ERT-Spannzangen verwenden

ESEMPIO DI ORDINE:

Order example:

Beispiel für einen Auftrag:

BMRS M1 ER16

BMRS...M...ER... / BMRS...M...ER...L

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

AMRS...M...

Attacco base corpo bussola modulare

Modular holder tap adapter body
Modularer Einsatz Basisschäfte

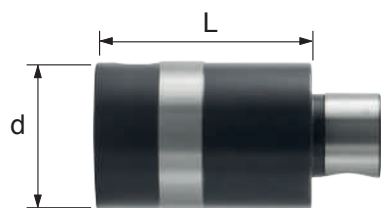


| CODICE CODE | | L | A | d |
|-------------|----|---|----|----|
| AMRS | M1 | 5 | 23 | 20 |
| | M2 | 7 | 35 | 32 |

PMRS...M...L...

Prolunga modulare

Modular extension
Modulare Verlängerung

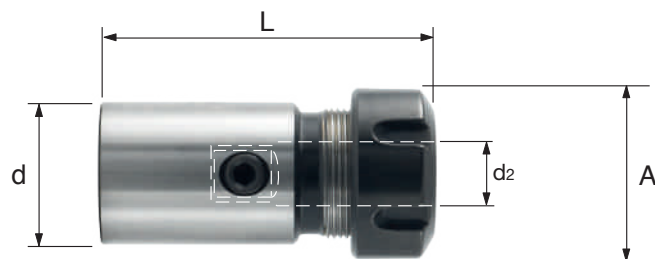


| CODICE CODE | | L | d |
|-------------|---------|-----|----|
| PMRS | M1 L025 | 25 | 23 |
| | M1 L050 | 50 | 23 |
| PMRS | M2 L050 | 50 | 35 |
| | M2 L100 | 100 | 35 |

TMRS...M...

Terminale modulare

Modular terminal
Modulares Endstück



| CODICE CODE | | L | A | d | Pinza Collet Spannzange | d2 gambo maschio Tap shank Bohrerschaft | Campo di applicazione Application field Anwendungsbereich |
|-------------|---------|----|----|----|-------------------------|---|---|
| TMRS | M1 ER16 | 50 | 28 | 23 | ER16 | 2÷10 | M3÷M12 |
| | M2 ER25 | 79 | 42 | 35 | ER25 | 2÷16 | M6÷M20 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

PMRS M1 L025

AMRS...M... / PMRS...M...L... / TMRS...M...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

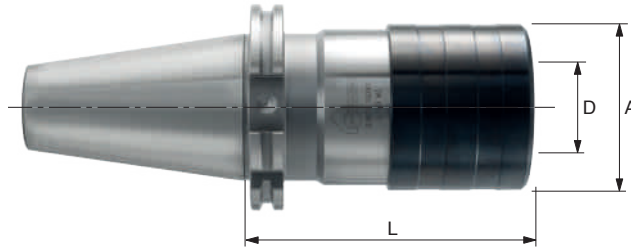
69871...M...

DIN 69871

**CON DOPPIA
 COMPENSAZIONE
 ASSIALE**

*WITH DOUBLE
 LENGHT COMPENSATION*

*MIT LÄNGENAUSGLEICH AUF
 ZUG UND DRUCK*



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | | | |
|----------------|------|----|-----|----------------------------|--|--|--------------------------------|-----|-----|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck | | |
| 69871 ISO40 | L060 | M1 | 60 | 19 | 38 | M1 | M3÷M12 | ±9 | ±9 |
| | L100 | M2 | 100 | 31 | 55 | M2 | M6÷M24 | ±15 | ±15 |
| | L138 | M3 | 138 | 48 | 79 | M3 | M14÷M33 | ±24 | ±24 |
| 69871 ISO50 | L062 | M1 | 62 | 19 | 38 | M1 | M3÷M12 | ±9 | ±9 |
| | L083 | M2 | 83 | 31 | 55 | M2 | M6÷M24 | ±15 | ±15 |
| | L133 | M3 | 133 | 48 | 79 | M3 | M14÷M33 | ±24 | ±24 |
| | L145 | M4 | 145 | 60 | 98 | M4 | M22÷M48 | ±26 | ±26 |

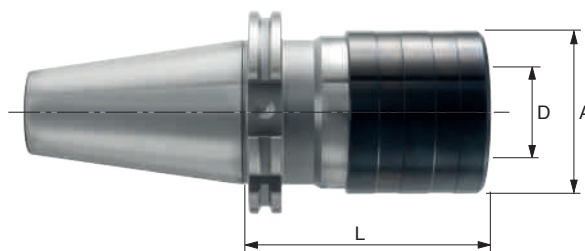
69871...M...NC

DIN 69871

**SENZA
 COMPENSAZIONE
 ASSIALE CON PASSAGGIO
 LUBRIFICANTE**

*WITHOUT AXIAL
 COMPENSATION WITH
 COOLANT FLOW*

*OHNE LÄNGENAUSGLEICH
 MIT KÜHLMITTELFLUSS*



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | | | |
|----------------|------|-------|-----|----------------------------|--|--|--------------------------------|---|---|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck | | |
| 69871 ISO40 | L059 | M1 NC | 59 | 19 | 33 | M1 | M3÷M12 | - | - |
| | L086 | M2 NC | 86 | 31 | 50 | M2 | M6÷M24 | - | - |
| 69871 ISO50 | L075 | M1 NC | 75 | 19 | 33 | M1 | M3÷M12 | - | - |
| | L098 | M2 NC | 98 | 31 | 50 | M2 | M6÷M24 | - | - |
| | L122 | M3 NC | 122 | 48 | 72 | M3 | M14÷M33 | - | - |

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

69871 ISO40 L060 M1

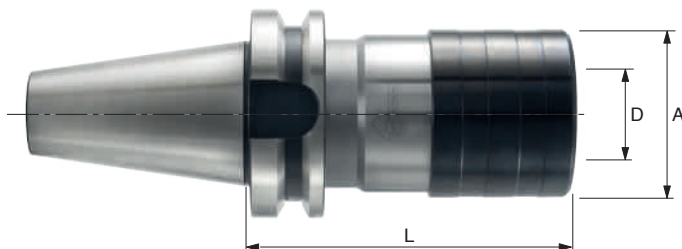
MAS403...M...

MAS403BT

**CON DOPPIA
COMPENSAZIONE
ASSIALE**

WITH DOUBLE
LENGTH COMPENSATION

MIT LÄNGENAUSGLEICH AUF
ZUG UND DRUCK



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | | | |
|----------------|------|----|-----|----------------------------|--|--|--------------------------------|-----|-----|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck | | |
| MAS403 BT40 | L068 | M1 | 68 | 19 | 38 | M1 | M3÷M12 | ±9 | ±9 |
| | L093 | M2 | 93 | 31 | 55 | M2 | M6÷M24 | ±15 | ±15 |
| | L138 | M3 | 138 | 48 | 79 | M3 | M14÷M33 | ±24 | ±24 |
| MAS403 BT50 | L080 | M1 | 80 | 19 | 38 | M1 | M3÷M12 | ±9 | ±9 |
| | L102 | M2 | 102 | 31 | 55 | M2 | M6÷M24 | ±15 | ±15 |
| | L135 | M3 | 135 | 48 | 79 | M3 | M14÷M33 | ±24 | ±24 |

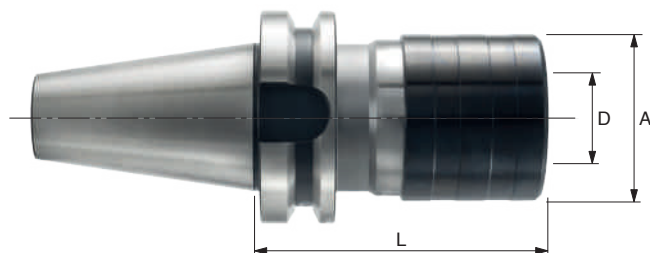
MAS403...M...NC

MAS403BT

**SENZA
COMPENSAZIONE
ASSIALE CON PASSAGGIO
LUBRIFICANTE**

WITHOUT AXIAL
COMPENSATION WITH
COOLANT FLOW

OHNE LÄNGENAUSGLEICH
MIT KÜHLMITTELFLUSS



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | | | |
|----------------|------|-------|-----|----------------------------|--|--|--------------------------------|---|---|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck | | |
| MAS403 BT40 | L067 | M1 NC | 67 | 19 | 33 | M1 | M3÷M12 | - | - |
| | L090 | M2 NC | 90 | 31 | 50 | M2 | M6÷M24 | - | - |
| MAS403 BT50 | L078 | M1 NC | 78 | 19 | 33 | M1 | M3÷M12 | - | - |
| | L101 | M2 NC | 101 | 31 | 50 | M2 | M6÷M24 | - | - |
| | L125 | M3 NC | 125 | 48 | 72 | M3 | M14÷M33 | - | - |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69871 ISO40 L059 M1 NC

DIN228-B...CM...M...

DIN 228-B

**CON DOPPIA
 COMPENSAZIONE
 ASSIALE**

WITH DOUBLE
 LENGHT COMPENSATION

MIT LÄNGENAUSGLEICH AUF
 ZUG UND DRUCK



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|-----------------------|-----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| DIN 228-B L046 CM2 M1 | 46 | 19 | 38 | M1 | M3÷M12 | ±9 | ±9 |
| DIN 228-B L046 CM3 M1 | 46 | 19 | 38 | M1 | M3÷M12 | ±9 | ±9 |
| L069 CM3 M2 | 69 | 31 | 55 | M2 | M6÷M24 | ±15 | ±15 |
| DIN 228-B L070 CM4 M2 | 70 | 31 | 55 | M2 | M6÷M20 | ±15 | ±15 |
| L108 CM4 M3 | 108 | 48 | 79 | M3 | M14÷M33 | ±24 | ±24 |
| DIN 228-B L103 CM5 M3 | 103 | 48 | 79 | M3 | M14÷M33 | ±24 | ±24 |

DIN1835B-E...M....

DIN 1835

**CON DOPPIA
 COMPENSAZIONE
 ASSIALE**

WITH DOUBLE
 LENGHT COMPENSATION

MIT LÄNGENAUSGLEICH AUF
 ZUG UND DRUCK



| CODICE CODE | L | D | A | D1 | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|----------------------|----|----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| DIN 1835 B-E L040 M1 | 40 | 19 | 38 | 25 | M1 | M3÷M12 | ±7,5 | ±7,5 |
| L065 M2 | 65 | 31 | 55 | 25 | M2 | M6÷M24 | ±12,5 | ±12,5 |

ESEMPIO DI ORDINE:
 Order example:
 Beispiel für einen Auftrag:

DIN 228-B L046 CM2 M1

69893HSK...M...

DIN 69893

**CON DOPPIA COMPENSAZIONE
ASSIALE E PASSAGGIO
LUBRIFICANTE**

WITH DOUBLE LENGHT
COMPENSATION AND COOLANT FLOW

MIT LÄNGENAUSGLEICH AUF ZUG UND
DRUCK UND KÜHLMITTELFLUSS



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|-----------------------|-----|----|----|----------------------------|--|--|-------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression /Druck |
| 69893 HSK63 A L105 M1 | 105 | 19 | 39 | M1 | M3÷M12 | ±7,5 | ±7,5 |
| L140 M2 | 140 | 31 | 53 | M2 | M6÷M24 | ±10 | ±10 |

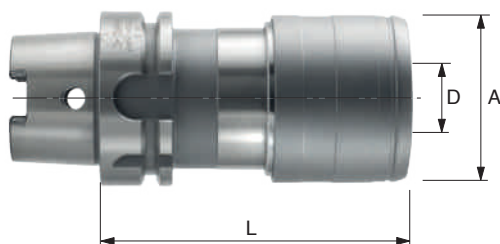
69893HSK...M...C

DIN 69893

**CON DOPPIA COMPENSAZIONE
ASSIALE ALTEZZA RIDOTTA PESO RIDOTTO**

WITH DOUBLE LENGHT
COMPENSATION REDUCED HEIGHT
REDUCED WEIGHT

MIT LÄNGENAUSGLEICH AUF ZUG UND
DRUCK HÖHE UND GEWICHT
REDUZIERT



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|-------------------------|-----|----|----|----------------------------|--|--|-------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression /Druck |
| 69893 HSK63 A L067 M1 C | 67 | 19 | 48 | M1 | M3÷M12 | ±7,5 | ±7,5 |
| L107 M2 C | 107 | 31 | 60 | M2 | M6÷M24 | ±12,5 | ±12,5 |

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

69893 HSK63 A L107 M1 C

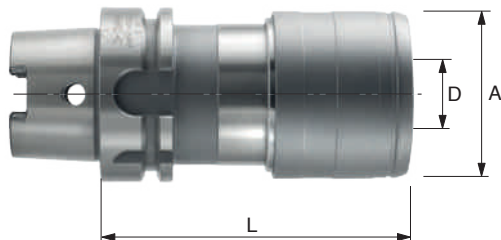
69893HSK...M...NC

DIN 69893

**SENZA COMPENSAZIONE
 ASSIALE CON PASSAGGIO
 LUBRIFICANTE**

WITHOUT AXIAL COMPENSATION
 WITH COOLANT FLOW

OHNE LÄNGENAUSGLEICH
 MIT KÜHLMITTELFLUSS



| CODICE CODE | L | D | A | BUSSOLA Bush Einsatz | Campo di applicazione Application field Anwendungsbereich | Compensazione in Compensation in Längenausgleich auf | |
|--------------------------|----|----|----|----------------------------|--|--|--------------------------------|
| | | | | | | Sfilamento Extension / Zug | Rientro Compression / Druck |
| 69893 HSK63 A L063 M1 NC | 63 | 19 | 33 | M1 | M3÷M12 | - | - |
| L089 M2 NC | 89 | 31 | 50 | M2 | M6÷M24 | - | - |

ESEMPIO DI ORDINE:

Order example:
 Beispiel für einen Auftrag:

69893 HSK63 A L063 M1 NC

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Bussole per maschiare

Bush for tapping
Schnellwechseleinsatz für
Gewindebohrer



M1CF...

M2 - M14

CON FRIZIONE REGISTRABILE
WITH ADJUSTABLE FRICTION CLUTCH
MIT EINSTELLBARER
ÜBERLASTKUPPLUNG



| CODICE CODE | | d2 | K |
|----------------|------|-----|-----|
| M1CF | -2,8 | 2,8 | 2,1 |
| | -3,5 | 3,5 | 2,7 |
| | -4 | 4 | 3 |
| | -4,5 | 4,5 | 3,4 |
| | -5,5 | 5,5 | 4,3 |
| | -6 | 6 | 4,9 |
| | -7 | 7 | 5,5 |
| | -8 | 8 | 6,2 |
| | -9 | 9 | 7 |
| | -10 | 10 | 8 |
| | -11 | 11 | 9 |

M2CF...

M6 - M26

CON FRIZIONE REGISTRABILE
WITH ADJUSTABLE FRICTION CLUTCH
MIT EINSTELLBARER
ÜBERLASTKUPPLUNG



| CODICE CODE | | d2 | K |
|----------------|-----|----|------|
| M2CF | -6 | 6 | 4,9 |
| | -7 | 7 | 5,5 |
| | -8 | 8 | 6,2 |
| | -9 | 9 | 7 |
| | -10 | 10 | 8 |
| | -11 | 11 | 9 |
| | -12 | 12 | 9 |
| | -14 | 14 | 11 |
| | -16 | 16 | 12 |
| | -18 | 18 | 14,5 |

LE MISURE NON ELENCAE SONO REALIZZABILI SU RICHIESTA
SIZES NOT SHOWN MAY BE PRODUCED ON REQUEST

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

M2CF -10

M1CF... / M2CF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Bussole per maschiare

Bush for tapping
Schnellwechseleinsatz für
Gewindebohrer



M3CF...

M12 - M36

CON FRIZIONE REGISTRABILE
WITH ADJUSTABLE FRICTION CLUTCH
MIT EINSTELLBARER
ÜBERLASTKUPPLUNG

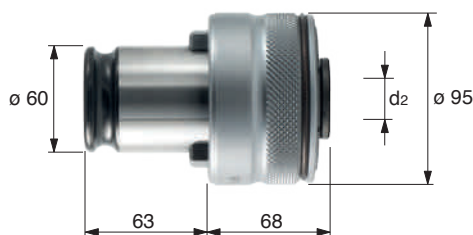


| CODICE CODE | | d2 | K |
|----------------|-----|----|------|
| M3CF | -9 | 9 | 7 |
| | -11 | 11 | 9 |
| | -12 | 12 | 9 |
| | -14 | 14 | 11 |
| | -16 | 16 | 12 |
| | -18 | 18 | 14,5 |
| | -20 | 20 | 16 |
| | -22 | 22 | 18 |
| | -25 | 25 | 20 |
| | -28 | 28 | 22 |

M4CF...

M20 - M48

CON FRIZIONE REGISTRABILE
WITH ADJUSTABLE FRICTION CLUTCH
MIT EINSTELLBARER
ÜBERLASTKUPPLUNG



| CODICE CODE | | d2 | K |
|----------------|-----|----|------|
| M4CF | -18 | 18 | 14,5 |
| | -20 | 20 | 16 |
| | -22 | 22 | 18 |
| | -25 | 25 | 20 |
| | -28 | 28 | 22 |
| | -32 | 32 | 24 |
| | -36 | 36 | 29 |

LE MISURE NON ELENCAE SONO REALIZZABILI SU RICHIESTA
SIZES NOT SHOWN MAY BE PRODUCED ON REQUEST

ESEMPIO DI ORDINE:

Order example:
Beispiel für einen Auftrag:

M3CF - 12

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Bussole per maschiare

Bush for tapping
Schnellwechseleinsatz für
Gewindebohrer

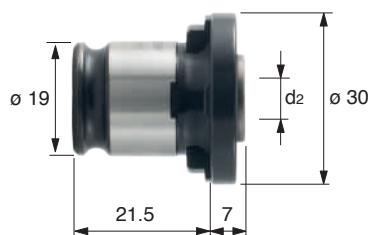


M1SF...

SENZA FRIZIONE REGISTRABILE
WITHOUT ADJUSTABLE FRICTION CLUTCH
OHNE EINSTELLBARE ÜBERLASTKUPPLUNG



M2 - M14



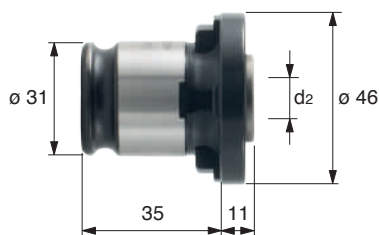
| CODICE CODE | | d2 | K |
|----------------|------|-----|-----|
| M1SF | -2,8 | 2,8 | 2,1 |
| | -3,5 | 3,5 | 2,7 |
| | -4 | 4 | 3 |
| | -4,5 | 4,5 | 3,4 |
| | -5,5 | 5,5 | 4,3 |
| | -6 | 6 | 4,9 |
| | -7 | 7 | 5,5 |
| | -8 | 8 | 6,2 |
| | -9 | 9 | 7 |
| | -10 | 10 | 8 |
| | -11 | 11 | 9 |

M2SF...

SENZA FRIZIONE REGISTRABILE
WITHOUT ADJUSTABLE FRICTION CLUTCH
OHNE EINSTELLBARE ÜBERLASTKUPPLUNG



M6 - M26



| CODICE CODE | | d2 | K |
|----------------|-----|----|------|
| M2SF | -6 | 6 | 4,9 |
| | -7 | 7 | 5,5 |
| | -8 | 8 | 6,2 |
| | -9 | 9 | 7 |
| | -10 | 10 | 8 |
| | -11 | 11 | 9 |
| | -12 | 12 | 9 |
| | -14 | 14 | 11 |
| | -16 | 16 | 12 |
| | -18 | 18 | 14,5 |

LE MISURE NON ELENcate SONO REALIZZABILI SU RICHIESTA
SIZES NOT SHOWN MAY BE PRODUCED ON REQUEST

ESEMPIO DI ORDINE:
Order example:
Beispiel für einen Auftrag:

M2SF -16

M1CF... / M2CF...

MANDRINI TOOL HOLDER WERKZEUGAUFNAHME

MANDRINI
TOOL HOLDER
WERKZEUGAUFNAHME

Bussole per maschiare

Bush for tapping

Schnellwechseleinsatz für

Gewindebohrer



M3SF...

SENZA FRIZIONE REGISTRABILE

WITHOUT ADJUSTABLE FRICTION CLUTCH

OHNE EINSTELLBARE ÜBERLASTKUPPLUNG

TAILOR
MADE



M14 - M36



| CODICE CODE | | d2 | K |
|----------------|-----|----|------|
| M3SF | -11 | 11 | 9 |
| | -12 | 12 | 9 |
| | -14 | 14 | 11 |
| | -16 | 16 | 12 |
| | -18 | 18 | 14,5 |
| | -20 | 20 | 16 |
| | -22 | 22 | 18 |
| | -25 | 25 | 20 |
| | -28 | 28 | 22 |

M4SF...

SENZA FRIZIONE REGISTRABILE

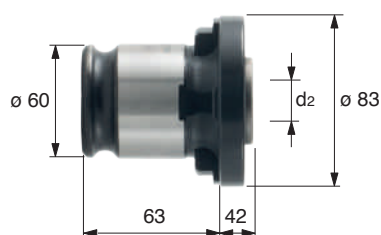
WITHOUT ADJUSTABLE FRICTION CLUTCH

OHNE EINSTELLBARE ÜBERLASTKUPPLUNG

TAILOR
MADE



M30 - M48



| CODICE CODE | | d2 | K |
|----------------|-----|----|----|
| M4SF | -20 | 20 | 16 |
| | -22 | 22 | 18 |
| | -25 | 25 | 20 |
| | -28 | 28 | 22 |
| | -32 | 32 | 24 |
| | -36 | 36 | 29 |

LE MISURE NON ELENcate SONO REALIZZABILI SU RICHIESTA
SIZES NOT SHOWN MAY BE PRODUCED ON REQUEST

ESEMPIO DI ORDINE:

Order example:

Beispiel für einen Auftrag:

M3SF - 20