

MANUFACTURED FROM FORGED PARTS**MATERIAL:**

- Alloyed carburized steel at chrome-manganese 1.7131 (16MnCr5).

EXECUTION:

- Carburized, hardness.
- Surface hardness HRC 58±2 (670±40 HV30)
- Depth minimum 0,5 mm.
- Tensile strength in core minimum 800 N/mm² after carburizing.

ACCURACY:

- Taper according to DIN 254
- Taper angle:
tolerance AT 3 DIN 7178 part 1 and DIN 2080 part 1.
- Other tolerances according to DIN 7160 and 7168.
- Taper surface roughness $R_z < 0,001$ mm.

HERGESTELLT AUS GESCHMIEDETEN TEILEN**MATERIAL:**

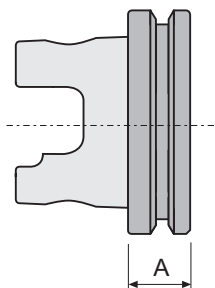
- Legierter Aufgekohlter Stahl mit Chrom-Mangan 1.7131 (16MnCr5).

KONSTRUKTIONS DATEN:

- Aufgekühlt, gehärtet und angelassen.
- Oberflächenhärte HRC 58±2 (670±40 HV30).
- Aufgekühlt auf minimum 0,5 mm Tiefe.
- Zugfestigkeit im Kern minimum 800 N/mm² nach der Aufkühlung.

GENAUIGKEIT:

- Dorn nach DIN 254.
- Kegelwinkel:
Toleranz AT 3 DIN 7178 Teil 1 und DIN 2080 Teil 1.
- Andere Toleranzen entsprechend DIN 7160 und 7168.
- Rauigkeit der Oberfläche $R_z < 0,001$ mm.

**TOLERANCE AT:**

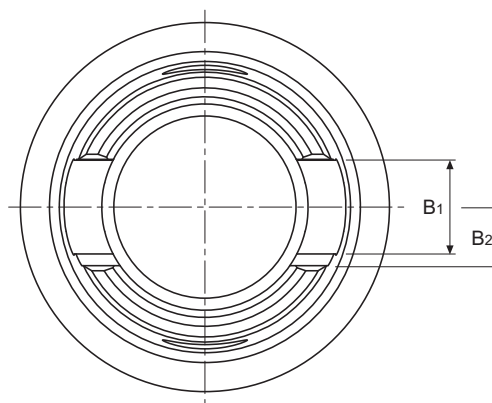
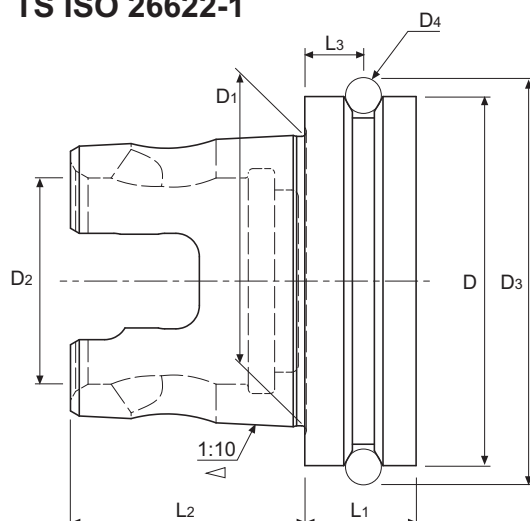
- Indicates the tolerance of size D surface between the real and the theoretical value of the taper conicity.
- This value of surface D must always be less (negative), never more (positive) in order to GUARANTEE a good toolholder fixation at the bigger taper diameter.

TOLERANZ AT:

- Zeigt die Toleranz auf der Messebene D zwischen dem tatsächlichen Wert der Kegelkonizität und dem theoretischen Wert.
- Dieser Wert auf der Messebene D sollte immer minus (negativ) sein, nie plus (positiv), um für einen guten Halt des Futters in den größeren Durchmesser des Kegels zu garantieren.

17

TS ISO 26622-1



TS	D mm	D ₁ mm	D ₂ mm	D ₃ mm	D ₄ mm	L ₁ min mm	L ₂ mm	L ₃ mm	B ₁ mm
40	40	30	21,0	44,45	3,5	12	25	6	10
50	50	40	28,2	59,40	7,0	18	32	9	14
63	63	50	35,2	72,40	7,0	20	40	10	16
80	80	64	48,0	89,40	7,0	22	45	11	20
100	100	82	62,0	109,40	7,0	22	50	11	24

17.160  D.02	17.215  D.03	17.296  D.04	17.306  D.05	17.315  D.06
17.453  D.07	17.470  D.08	17.500  D.09	17.510  D.10	17.520  D.11
17.530  D.12	17.540  D.13	17.550  D.14	17.620  D.15	17.999  D.16

TS ISO 26622-1

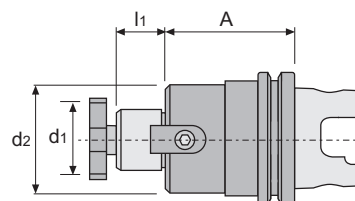
17.160

SHELL MILL ADAPTORS

for cutters with driving slot DIN 138

AUFSTECKFRÄSDORNE

für Fräser mit Quernut DIN 138



REF.	TS	d ₁ h6 mm	A mm	l ₁ mm	d ₂ mm	⚖ kg
17.160.040.16	40	16	55	17	37	-
17.160.040.22		22	55	19	47	-
17.160.050.16	50	16	63	17	37	-
17.160.050.22		22	63	19	47	-
17.160.050.27		27	63	21	58	-
17.160.050.32		32	63	24	63	-
17.160.063.16	63	16	63	17	37	-
17.160.063.22		22	28	19	47	-
17.160.063.22/63		22	63	19	47	-
17.160.063.27		27	28	21	58	-
17.160.063.27/63		27	63	21	58	-
17.160.063.32		32	28	24	78	-
17.160.063.32/63		32	63	24	78	-
17.160.063.40		40	86	27	88	-

REF.			
17.160.040.16	10008	86016	11103
17.160.040.22	10010	86022	11004
17.160.050.16	10008	86016	11103
17.160.050.22	10010	86022	11004
17.160.050.27	10012	86027	11005
17.160.050.32	10016	86032	11105
17.160.063.16	10008	86016	11103
17.160.063.22	10010	86022	11004
17.160.063.22/63	10010	86022	11004
17.160.063.27	10012	86027	11005
17.160.063.27/63	10012	86027	11005
17.160.063.32	10016	86032	11105
17.160.063.32/63	10016	86032	11105
17.160.063.40	10020	86040	11006

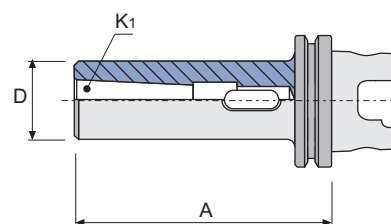
TS ISO 26622-1
17.215

REDUCING ADAPTORS

for tools with Morse taper and tang DIN 228-B shank

REDUZIERHÜLSEN

für Werkzeuge mit Morsekegel und Austreiblappen DIN 228-B



REF.	TS	K ₁ MORSE	A mm	D mm	⚖ kg
17.215.050.02	50	2	110	32	-
17.215.050.03		3	130	40	-
17.215.063.02	63	2	110	32	-
17.215.063.03		3	130	40	-
17.215.063.04		4	150	52	-

TS ISO 26622-1

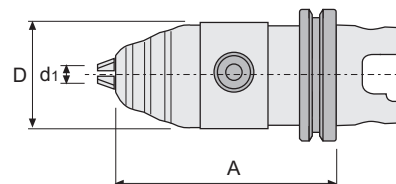
17.296

CNC-UNIVERSAL PRECISION DRILL CHUCKS

for left and right hand turn

UNIVERSALER CNC-BOHRFUTTER, GENAUIGKEITSAUSFÜHRUNG

für links- und rechtslaufende Bearbeitungen



REF.	TS	D mm	d ₁ mm	A mm	kg
17.296.040.13	40	50	0.5 - 13	112	-
17.296.050.13	50	50	0.5 - 13	112	-
17.296.063.13	63	50	0.5 - 13	112	-
17.296.063.16		57	3.0 - 16	112	-

* SUPPLIED WITH WRENCH / * GELIEFERT MIT SCHLÜSSEL

REF.		3 x 
17.296.040.13	50706	60313
17.296.050.13	50706	60313
17.296.063.13	50706	60313
17.296.063.16	50706	60313

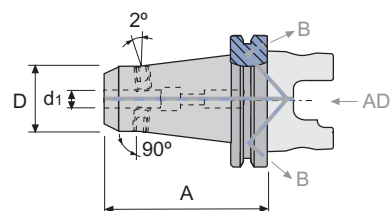
TS ISO 26622-1
17.306

COMBINED END MILL ADAPTORS TYPE WELDON / WHISTLE-NOTCH

for tools with cylindrical shank and tightening inclined flat DIN 1835-B+E

KOMBI-AUFNAHME TYP WELDON / WHISTLE-NOTCH

für Werkzeuge mit zylindrischem Schaft und geneigte Spannfläche DIN 1835-E



REF.	TS	d ₁ mm	D mm	A mm	2 x 	
17.306.040.06	40	06	25	50	15006	-
17.306.040.08		08	28	50	15008	-
17.306.040.10		10	35	50	15010	-
17.306.040.12		12	42	55	15012	-
17.306.040.16		16	48	55	15114	-
17.306.050.06	50	06	25	55	15006	-
17.306.050.08		08	28	55	15008	-
17.306.050.10		10	35	65	15010	-
17.306.050.12		12	42	65	15012	-
17.306.050.14		14	42	65	15012	-
17.306.050.16		16	48	65	15114	-
17.306.050.18		18	48	65	15114	-
17.306.050.20		20	52	65	15116	-
17.306.050.25		25	65	80	4 x 15018	-
17.306.063.06	63	06	25	80	15006	-
17.306.063.08		08	28	80	15008	-
17.306.063.10		10	35	80	15010	-
17.306.063.12		12	42	80	15012	-
17.306.063.14		14	42	80	15012	-
17.306.063.16		16	48	80	15114	-
17.306.063.18		18	48	80	15114	-
17.306.063.20		20	52	80	15116	-
17.306.063.25		25	65	90	4 x 15018	-
17.306.063.32		32	72	90	4 x 15120	-
17.306.063.40		40	80	95	4 x 15120	-

TS ISO 26622-1

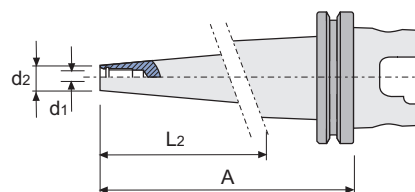
17.315

MILL ADAPTORS

for frontal End Mill support screwed shanks

SPANNFUTTER FÜR EINSCHRAUBFRÄSER

für Einschraubfräser



REF.	TS	A mm	d ₁ mm	d ₂ mm	L ₂ mm	kg
17.315.040.08	40	70	M8	13	41,8	-
17.315.040.10		80	M10	18	52,4	-
17.315.040.12		80	M12	21	52,8	-
17.315.050.08	50	70	M8	13	40,4	-
17.315.050.10		80	M10	18	51,1	-
17.315.050.12		80	M12	21	51,5	-
17.315.050.16		80	M16	29	52,6	-
17.315.063.08	63	70	M8	13	35,1	-
17.315.063.10		90	M10	18	55,8	-
17.315.063.12		100	M12	21	66,2	-
17.315.063.16		100	M16	29	67,3	-

REF.	ACCESSORIES / ZUBEHÖR
06.315	Front contact extensions for modular tools. / Stirnverlängerung für Einschraubfräser.
06.315	Front contact reducers for modular tools. / Stirnreduzierhülsen für Einschraubfräser.

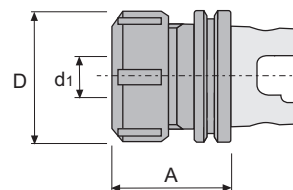


06.315



06.315

For more information see page / Für weitere Informationen siehe Seite: J.02, J.03



REF.	TS		A mm	d ₁ mm	D mm			
17.453.040.16	40	ER16	60	0,5-10	28	45316	50216	-
17.453.040.20		ER20	60	1-13	34	45320	50220	-
17.453.040.25		ER25	60	1-16	42	45325	50225	-
17.453.040.32		ER32	60	2-20	50	45332	50232	-
17.453.050.16	50	ER16	60	0,5-10	28	45316	50216	-
17.453.050.16/100		ER16	100	0,5-10	28	45316	50216	-
17.453.050.20		ER20	60	1-13	34	45320	50220	-
17.453.050.20/100		ER20	100	1-13	34	45320	50220	-
17.453.050.25		ER25	60	1-16	42	45325	50225	-
17.453.050.25/100		ER25	100	1-16	42	45325	50225	-
17.453.050.32		ER32	60	2-20	50	45332	50232	-
17.453.050.32/100		ER32	100	2-20	50	45332	50232	-
17.453.050.40		ER40	65	3-30	63	45340	50240	-
17.453.050.40/100		ER40	100	3-30	63	45340	50240	-
17.453.063.16	63	ER16	60	0,5-10	28	45316	50216	-
17.453.063.16/100		ER16	100	0,5-10	28	45316	50216	-
17.453.063.20		ER20	60	1-13	34	45320	50220	-
17.453.063.20/100		ER20	100	1-13	34	45320	50220	-
17.453.063.25		ER25	60	1-16	42	45325	50225	-
17.453.063.25/100		ER25	100	1-16	42	45325	50225	-
17.453.063.32		ER32	60	2-20	50	45332	50232	-
17.453.063.32/100		ER32	100	2-20	50	45332	50232	-
17.453.063.40		ER40	65	3-30	63	45340	50240	-
17.453.063.40/100		ER40	100	3-30	63	45340	50240	-

* If you want with ball bearing nut, see page: K.22
* Wenn Sie diese mit Kugellager-Nute möchten, siehe Seite: K.22

* SUPPLIED WITHOUT WRENCH / * GELIEFERT OHNE SCHLÜSSEL

REF.	ACCESSORIES / ZUBEHÖR
ERXX	Collets double slot DIN 6499 - Form B (ER) / Spannzangen mit Doppelnut DIN 6499 - Form B (ER)
ERCXX	Sealed collets DIN 6499 (ER) / Abgedichtete Spannzangen DIN 6499 (ER)
ERTXX	Collets DIN 6499 - Form Canela (ER) / Spannzangen DIN 6499 - Form Canela (ER)
40.453..	Collet chucks for DIN 6499 (ER) collets / Spannzangenfutter für DIN 6499 (ER) Spannzangen
40.455..	Long collet chucks for DIN 6499 (ER) collets / Lange Spannzangenfutter für DIN 6499 (ER) Spannzangen







ERXX

ERCXX

ERTXX

40.453..

40.455..

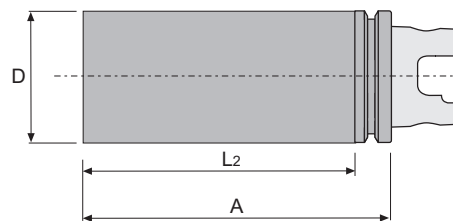
For more information see page / Für weitere Informationen siehe Seite: K.13, K.17, K.19, J.08, J.09

TS ISO 26622-1

17.470

BLANK ADAPTORS

ROHLINGE MIT WEICHEM SCHAFT

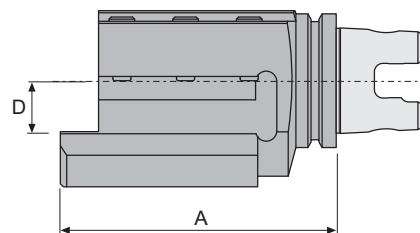


REF.	TS	D mm	L2 mm	A mm	
17.470.050.50/200	50	50	182	200	-
17.470.050.63/200		63	182	200	-
17.470.063.63/200	63	63	180	200	-
17.470.063.80/250		80	230	250	-
17.470.063.109/134		109	114	134	-
17.470.100.63/200	100	63	178	200	-
17.470.100.80/250		80	228	250	-
17.470.100.90/300		90	278	300	-

TS ISO 26622-1
17.500

AXIAL HOLDER

AXIAL WERKZEUGHALTER



REF.	TS	D mm	A mm	 Kg
17.500.063.25 R/L	63	25	130	-
Turning toolholder for square tool left/right hand. Drehen Werkzeughalter für Vierkantmeißel links / rechts.				

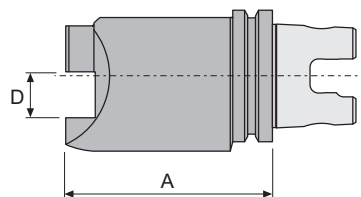
REF.		
17.500.063.25 R/L	17012	29710

TS ISO 26622-1

17.510

AXIAL HOLDER

AXIAL WERKZEUGHALTER

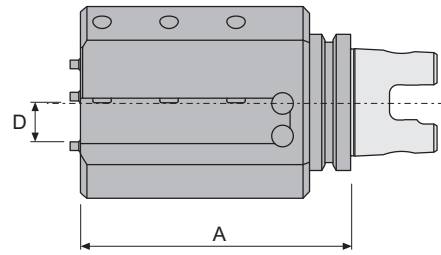


REF.	TS	D mm	A mm	
17.510.063.25 R/L	63	25	130	-
Turning toolholder for square tool left/right hand. Drehen Werkzeughalter für Vierkantmeißel links / rechts.				

REF.		
17.510.063.25 R/L	17012	29710

TS ISO 26622-1
17.520

MULTI TURNING HOLDER
MEHRFACH DREHHALTER



REF.	TS	D mm	A mm	 Kg
17.520.063.25 R/L	63	25	130	-
Multipurpose square toolholder. Multipurpose Vierkant Werkzeughalter.				

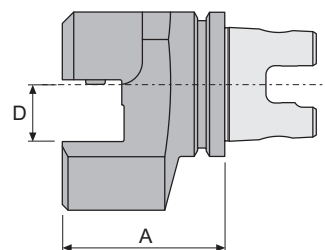
REF.		
17.520.063.25 R/L	17012	29710

TS ISO 26622-1

17.530

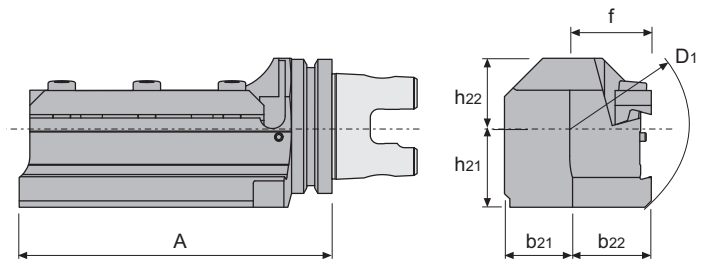
AXIAL HOLDER

AXIAL WERKZEUGHALTER



REF.	TS	D mm	A mm	
17.530.063.25	63	25	60	-
Multipurpose square toolholder. Multipurpose Vierkant Werkzeughalter.				

REF.		
17.530.063.25	17012	29710



REF.	TS	D ₁ mm	b ₂₁ mm	b ₂₂ mm	f mm	h ₂₁ mm	h ₂₂ mm	A mm	kg
17.540.063.32	63	106	32	37	32	38	32	147	3,300

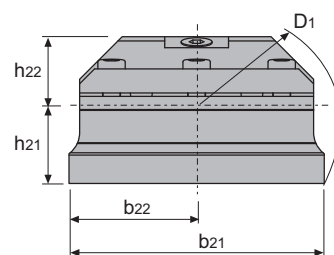
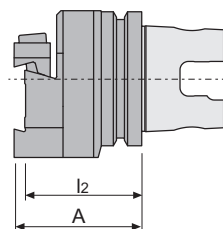
REF.		
17.540.063.32	80632	11306

TS ISO 26622-1

17.550

AXIAL HOLDER

AXIAL WERKZEUGHALTER



REF.	TS	D ₁ mm	b ₂₁ mm	b ₂₂ mm	h ₂₁ mm	h ₂₂ mm	A mm	l ₂₂ mm	 kg
17.550.063.32	63	141	120	60	37	32	60	55	2,300

REF.		
17.550.063.32	80632	11306

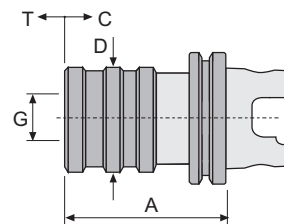
TS ISO 26622-1
17.620

QUICK CHANGE TAPPING HEAD WITH AXIAL COMPENSATION

with tap chucks bushings system Bilz

GEWINDESCHNEID-SCHNELLWECHSELFUTTER MIT LÄNGENAUSGLEICH

Mit Schnellwechseleinsätze Bilz-System



REF.	TS	G Nº. Ø		A mm	D mm	C mm	T mm			
17.620.040.12	40	1 19	M3-M12	65	38	9	9	710XX	750XX	-
17.620.050.12	50	1 19	M3-M12	65	38	9	9	710XX	750XX	-
17.620.063.12	63	1 19	M3-M12	70	38	9	9	710XX	750XX	-
17.620.063.20		2 31	M8-M20	95	55	15	15	720XX	760XX	-
17.620.063.33		3 48	M14-M33	140	79	24	24	730XX	770XX	-

COMPENSATION IN COMPRESSION (C) AND TENSION (T)
AUSGLEICH DER KOMPRESSION (C) UND DER TRAKTION (T)

REF.	ACCESSORIES / ZUBEHÖR
710XX..730XX	Quick change adapters without overload clutch / Schnellwechseleinsätze ohne Sicherheitskupplung
750XX..770XX	Quick change adapters with overload clutch / Schnellwechseleinsätze mit Sicherheitskupplung



710XX..730XX



750XX..770XX

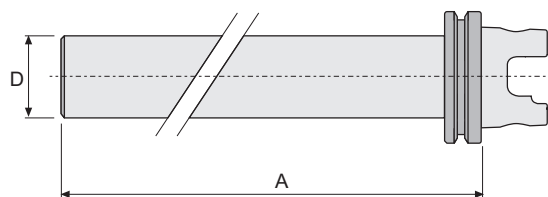
For more information see page / Für weitere Informationen siehe Seite: K.06, K.07

TS ISO 26622-1

17.999

CONTROL PINS

PRÜFDORNE



REF.	TS	A	D	 Kg
17.999.040	40	300	40	-
17.999.050	50	300	40	-
17.999.063	63	300	40	-
17.999.080	80	300	50	-
17.999.100	100	300	50	-

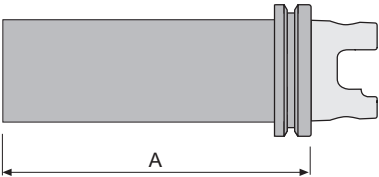
1 TYPE / TYP

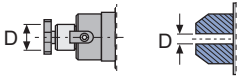
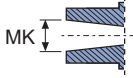
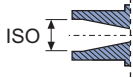
17.160 	17.215 	17.296 	17.306 	17.315 
17.453 	17.470 	17.500 	17.510 	17.520 
17.530 	17.540 	17.550 	17.620 	

2 DIMENSION / ABMESSUNG

40	50	63	80	100
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3 LENGTH (A) / LÄNGE (A)

	_____

DIAMETER / DURCHMESSER	MK	ISO	COLLET SPANNZANGE
			

NOTES: _____
