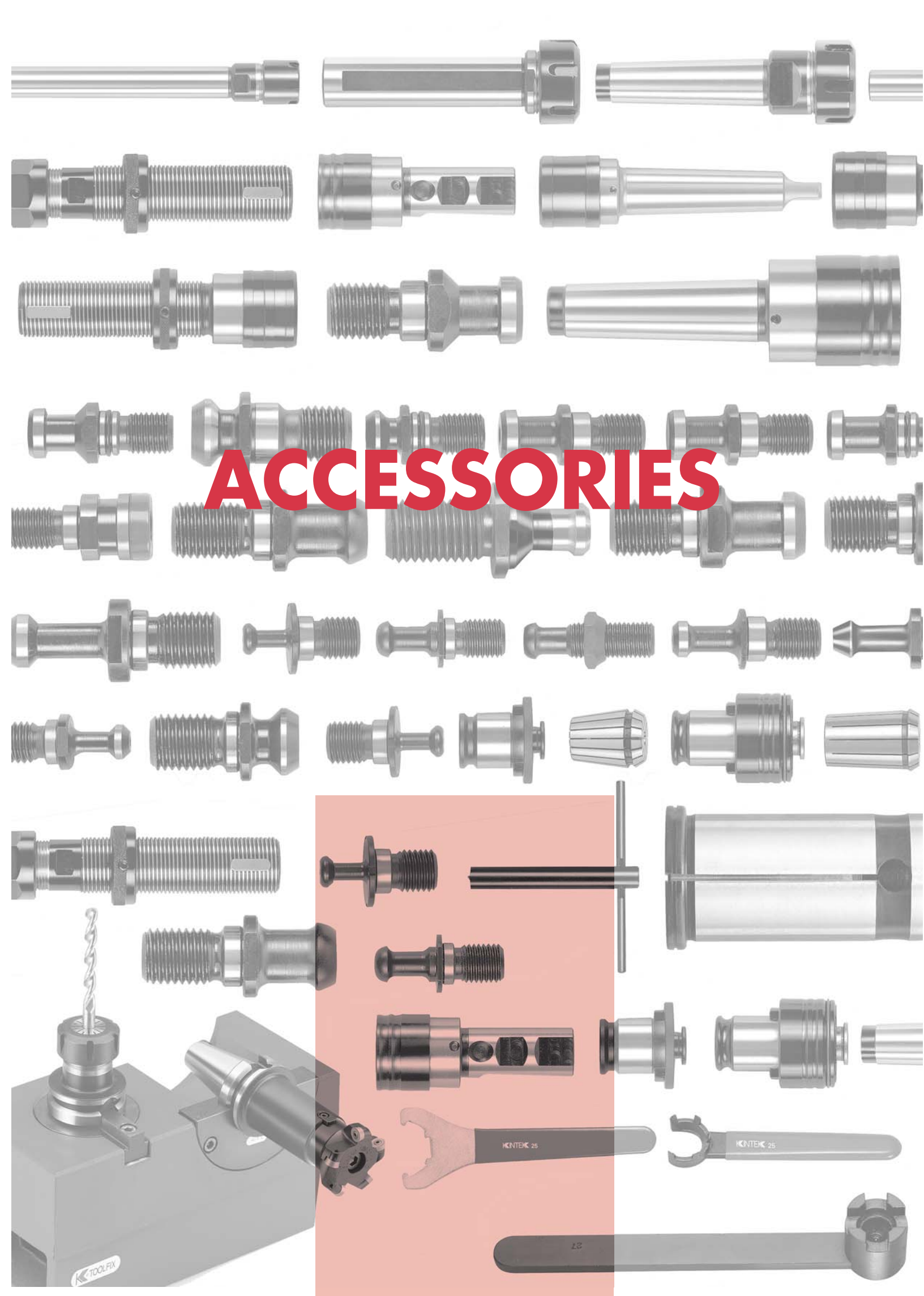
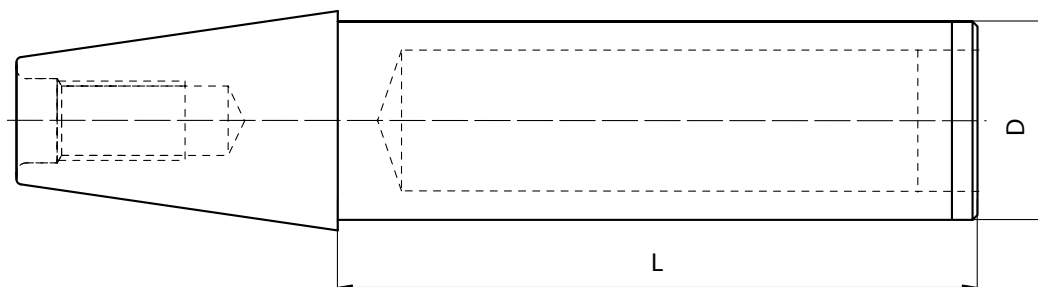


ACCESSORIES



PRÜFDORNE
CONTROL PINS
BARRES DE CONTROLE
BARRE DI CONTROLLO

DIN 69871 A



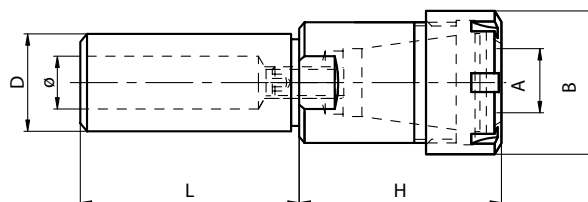
Code N.	Description	ISO	D	L
217-71201	TC40H300D40BC	40	40	300
217-71202	TC50H350D50BC	50	50	350

IM HOLZKASTEN UND MIT PRÜFUNGSBESCHEINIGUNG
SUPPLIED IN WOODEN BOXES AND WITH TEST CERTIFICATE
FOURNIES EN BOÎTES DE BOIS ET AVEC CERTIFICAT DE CONTROLE
FORNITE IN CASSETTA DI LEGNO E CON CERTIFICATO DI COLLAUDO



SPANNFUTTER MIT ZYLINDERSCHAFT MIT MINI SPANNMUTTER
CYLINDRICAL COLLET CHUCKS WITH MINI NUT
PORTE PINCES QUEUE CYLINDRIQUE AVEC ECROU MINI
PORTAPINZA GAMBO CILINDRICO CON GHIERA MINI

DIN 6499

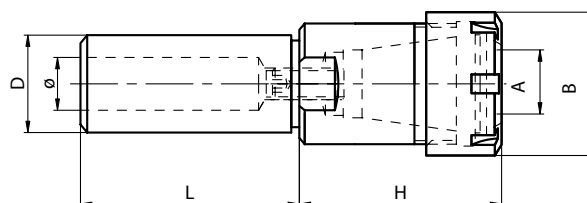


Code N.	Description	D	L	H	B	Clamping capacity	Type
264-35114	D5L45ER8M	5	45	24	12	0,5÷5	ER8M
214-35101	D6L45ER8M	6	45	24	12	0,5÷5	ER8M
214-35139	D6L45ER11M	6	45	25	16	0,5÷7	ER11M
264-35115	D7L45ER11M	7	45	25	16	0,5÷7	ER11M
214-35102	D8L55ER8M	8	55	24	12	0,5÷5	ER8M
214-35108	D8L80ER8M	8	80	24	12	0,5÷5	ER8M
214-35109	D8L55ER11M	8	55	25	16	0,5÷7	ER11M
264-35116	D8L100ER11M	8	100	25	16	0,5÷7	ER11M
264-35117	D10L55ER8M	10	55	24	12	0,5÷5	ER8M
264-35118	D10L100ER8M	10	100	24	12	0,5÷5	ER8M
214-35110	D10L55ER11M	10	55	25	16	0,5÷7	ER11M
264-35119	D10L100ER11M	10	100	25	16	0,5÷7	ER11M
214-35113	D10L60ER16M	10	60	37	22	0,5÷10	ER16M
264-35120	D10L100ER16M	10	100	37	22	0,5÷10	ER16M
214-35140	D12L100ER8M	12	100	15	12	0,5÷5	ER8M
264-35121	D12L140ER8M	12	140	15	12	0,5÷5	ER8M
264-35122	D12L55ER11M	12	55	25	16	0,5÷7	ER11M
214-35141	D12L70ER11M	12	70	25	16	0,5÷7	ER11M
214-35142	D12L100ER11M	12	100	25	16	0,5÷7	ER11M
214-35143	D12L140ER11M	12	140	25	16	0,5÷7	ER11M
264-35123	D12L55ER16M	12	55	37	22	0,5÷10	ER16M
214-35114	D12L80ER16M	12	80	37	22	0,5÷10	ER16M
264-35124	D12L120ER16M	12	120	37	22	0,5÷10	ER16M
264-35125	D15L100ER20M	15	100	41	28	0,5÷13	ER20M
264-35126	D16L40ER11M	16	40	22	16	0,5÷7	ER11M
264-35127	D16L80ER11M	16	80	22	16	0,5÷7	ER11M
264-35128	D16L100ER11M	16	100	22	16	0,5÷7	ER11M
264-35129	D16L130ER11M	16	130	22	16	0,5÷7	ER11M
264-35130	D16L160ER11M	16	160	22	16	0,5÷7	ER11M
264-35131	D16L35ER16M	16	35	37	22	0,5÷10	ER16M
264-35132	D16L60ER16M	16	60	37	22	0,5÷10	ER16M
214-35115	D16L80ER16M	16	80	37	22	0,5÷10	ER16M
214-35145	D16L100ER16M	16	100	37	22	0,5÷10	ER16M
214-35146	D16L125ER16M	16	125	37	22	0,5÷10	ER16M
214-35147	D16L160ER16M	16	160	37	22	0,5÷10	ER16M
264-35133	D16L55ER20M	16	55	38	28	0,5÷13	ER20M
214-35148	D16L100ER20M	16	100	38	28	0,5÷13	ER20M
264-35134	D16L130ER20M	16	130	38	28	0,5÷13	ER20M
264-35135	D16L160ER20M	16	160	38	28	0,5÷13	ER20M

D5÷D16 Zylinderschaft/Shank without flat/Queue cylindrique/Stelo senza piano

SPANNFUTTER MIT ZYLINDERSCHAFT MIT MINI SPANNMUTTER
CYLINDRICAL COLLET CHUCKS WITH MINI NUT
PORTE PINCES QUEUE CYLINDRIQUE AVEC ECROU MINI
PORTAPINZA GAMBO CILINDRICO CON GHIERA MINI

DIN 6499

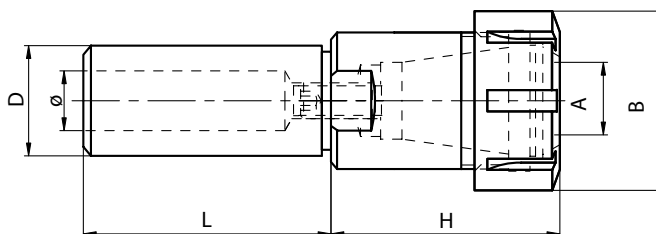


Code N.	Description	D	L	H	B	Clamping capacity	Type
264-35136	D20L50ER11M	20	50	22	16	0,5÷7	ER11M
264-35137	D20L100ER11M	20	100	22	16	0,5÷7	ER11M
214-35149	D20L60ER16M	20	60	30	22	0,5÷10	ER16M
214-35150	D20L100ER16M	20	100	30	22	0,5÷10	ER16M
264-35138	D20L130ER16M	20	130	30	22	0,5÷10	ER16M
214-35151	D20L160ER16M	20	160	30	22	0,5÷10	ER16M
264-35139	D20L200ER16M	20	200	30	22	0,5÷10	ER16M
264-35140	D20L46ER20M	20	46	37	28	0,5÷13	ER20M
214-35152	D20L60ER20M	20	60	37	28	0,5÷13	ER20M
214-35111	D20L100ER20M	20	100	37	28	0,5÷13	ER20M
214-35153	D20L120ER20M	20	120	37	28	0,5÷13	ER20M
214-35154	D20L160ER20M	20	160	37	28	0,5÷13	ER20M
264-35141	D20L200ER20M	20	200	37	28	0,5÷13	ER20M
264-35142	D20L46ER25M	20	46	46	35	0,5÷16	ER25M
214-35155	D20L60ER25M	20	60	46	35	0,5÷16	ER25M
214-35116	D20L100ER25M	20	100	46	35	0,5÷16	ER25M
214-35156	D20L130ER25M	20	130	46	35	0,5÷16	ER25M
264-35143	D25L100ER11M	25	100	18	16	0,5÷7	ER11M
264-35144	D25L60ER16M	25	60	27	22	0,5÷10	ER16M
214-35157	D25L100ER16M	25	100	27	22	0,5÷10	ER16M
264-35145	D25L130ER16M	25	130	27	22	0,5÷10	ER16M
264-35146	D25L160ER16M	25	160	27	22	0,5÷10	ER16M
214-35158	D25L60ER20M	25	60	28	28	0,5÷13	ER20M
214-35159	D25L100ER20M	25	100	28	28	0,5÷13	ER20M
264-35147	D25L130ER20M	25	130	28	28	0,5÷13	ER20M
214-35160	D25L160ER20M	25	160	28	28	0,5÷13	ER20M
264-35148	D25L50ER25M	25	50	32	35	0,5÷16	ER25M
214-35161	D25L70ER25M	25	70	32	35	0,5÷16	ER25M
264-35149	D25L100ER25M	25	100	32	35	0,5÷16	ER25M
214-35162	D25L120ER25M	25	120	32	35	0,5÷16	ER25M
264-35150	D25L160ER25M	25	160	32	35	0,5÷16	ER25M
264-35151	D32L90ER16M	32	90	30	22	0,5÷10	ER16M
214-35163	D32L90ER20M	32	90	27	28	0,5÷13	ER20M

D20÷D32 Zylinderschaft mit Fläche/Shank with flat/Queue cylindrique avec plat/Stelo con piano

**SPANNFUTTER MIT ZYLINDERSCHAFT FÜR STANDARD SPANNMUTTER
CYLINDRICAL COLLET CHUCKS WITH STANDARD NUT
PORTE PINCES QUEUE CYLINDRIQUE AVEC ECROU STANDARD
PORTAPINZA GAMBO CILINDRICO CON GHIERA STANDARD**

DIN 6499



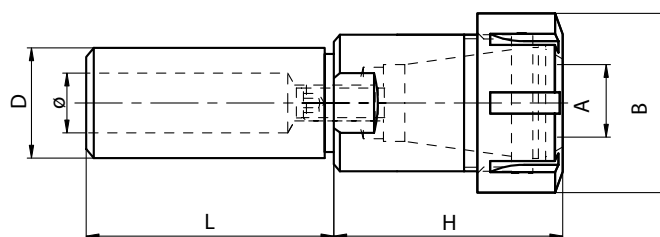
Code N.	Description	D	L	H	B	Clamping capacity	Type
264-35152	D14L60ER16	14	60	36	32	0,5÷10	ER16
214-35144	D16L60ER16	16	60	36	32	0,5÷10	ER16
214-35126	D16L100ER16	16	100	36	32	0,5÷10	ER16
264-35153	D16L60ER20	16	60	40	35	0,5÷13	ER20
264-35154	D16L35ER25	16	35	46	42	0,5÷16	ER25
264-35155	D16L70ER25	16	70	46	42	0,5÷16	ER25
264-35156	D20L50ER16	20	50	31	32	0,5÷10	ER16
214-35127	D20L100ER16	20	100	31	32	0,5÷10	ER16
264-35157	D20L160ER16	20	160	31	32	0,5÷10	ER16
264-35158	D20L46ER20	20	46	36	35	0,5÷13	ER20
264-35159	D20L60ER20	20	60	36	35	0,5÷13	ER20
264-35160	D20L100ER20	20	100	36	35	0,5÷13	ER20
214-35119	D20L50ER25	20	50	46	42	0,5÷16	ER25
214-35128	D20L100ER25	20	100	46	42	0,5÷16	ER25
264-35161	D20L130ER25	20	130	46	42	0,5÷16	ER25
264-35162	D20L160ER25	20	160	46	42	0,5÷16	ER25
264-35163	D20L50ER32	20	50	54	50	2÷20	ER32
214-35129	D20L100ER32	20	100	54	50	2÷20	ER32
264-35164	D20L130ER32	20	130	54	50	2÷20	ER32
264-35165	D20L160ER32	20	160	54	50	2÷20	ER32
264-35166	D22L80ER16	22	80	26	32	0,5÷10	ER16
264-35167	D22L80ER20	22	80	36	35	0,5÷13	ER20
264-35168	D22L50ER25	22	50	42	42	0,5÷16	ER25
264-35169	D22L80ER25	22	80	42	42	0,5÷16	ER25
264-35170	D22L50ER32	22	50	53	50	2÷20	ER32
264-35171	D25L60ER20	25	60	28	35	0,5÷13	ER20
264-35172	D25L100ER20	25	100	28	35	0,5÷13	ER20
214-35120	D25L50ER25	25	50	32	42	0,5÷16	ER25
214-35130	D25L100ER25	25	100	32	42	0,5÷16	ER25
264-35173	D25L130ER25	25	130	32	42	0,5÷16	ER25
264-35174	D25L160ER25	25	160	32	42	0,5÷16	ER25
264-35175	D25L50ER32	25	50	54	50	2÷20	ER32
264-35176	D25L70ER32	25	70	54	50	2÷20	ER32
214-35131	D25L100ER32	25	100	54	50	2÷20	ER32
264-35177	D25L130ER32	25	130	54	50	2÷20	ER32
264-35178	D25L160ER32	25	160	54	50	2÷20	ER32
264-35179	D25L50ER40	25	50	60	63	3÷30	ER40
264-35180	D25L100ER40	25	100	60	63	3÷30	ER40

D14÷D16 Zylinderschaft/Shank without flat/Queue cylindrique/Stelo senza piano

D20÷D25 Zylinderschaft mit Fläche/Shank with flat/Queue cylindrique avec plat/Stelo con piano

SPANNFUTTER MIT ZYLINDERSCHAFT MIT STANDARD SPANNMUTTER
CYLINDRICAL COLLET CHUCKS WITH STANDARD NUT
PORTE PINCES QUEUE CYLINDRIQUE AVEC ECROU STANDARD
PORTAPINZA GAMBO CILINDRICO CON GHIERA STANDARD

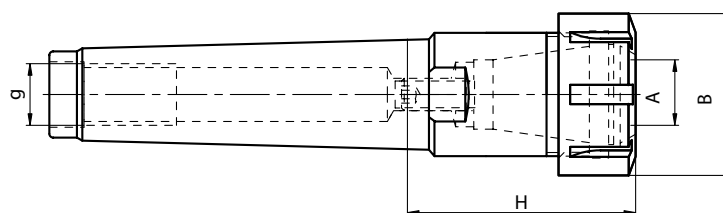
DIN 6499



Code N.	Description	D	L	H	B	Clamplng capacity	Type
264-35181	D30L50ER25	30	50	45	42	0,5÷16	ER25
264-35182	D30L50ER32	30	50	53	50	2÷20	ER32
264-35183	D30L50ER40	30	50	60	63	3÷30	ER40
214-35132	D32L70ER25	32	70	28	42	0,5÷16	ER25
264-35184	D32L120ER25	32	120	28	42	0,5÷16	ER25
264-35185	D32L50ER32	32	50	38	50	2÷20	ER32
214-35117	D32L70ER32	32	70	38	50	2÷20	ER32
264-35186	D32L100ER32	32	100	38	50	2÷20	ER32
214-35133	D32L120ER32	32	120	38	50	2÷20	ER32
214-35134	D32L150ER32	32	150	38	50	2÷20	ER32
264-35187	D32L50ER40	32	50	60	63	3÷30	ER40
264-35188	D32L70ER40	32	70	60	63	3÷30	ER40
264-35189	D40L70ER25	40	70	42	42	0,5÷16	ER25
214-35135	D40L120ER25	40	120	42	42	0,5÷16	ER25
214-35136	D40L70ER32	40	70	30	50	2÷20	ER32
214-35137	D40L130ER32	40	130	30	50	2÷20	ER32
264-35190	D40L50ER40	40	50	60	63	3÷30	ER40
214-35138	D40L80ER40	40	80	60	63	3÷30	ER40
264-35191	D40L130ER40	40	130	60	63	3÷30	ER40
264-35192	D50L125ER32	50	125	32	50	2÷20	ER32
264-35193	D50L155ER32	50	155	32	50	2÷20	ER32
264-35194	D50L160ER40	50	160	37	63	3÷30	ER40

D30÷D50 Zylinderschaft mit Fläche/Shank with flat/Queue cylindrique avec plat/Stelo con piano

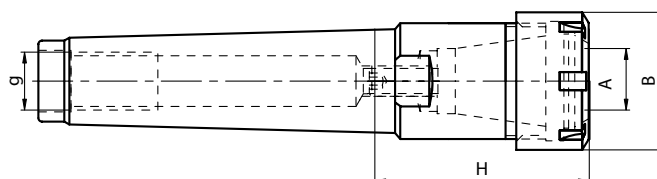
SPANNZANGENAUFNAHME MIT MORSEKEGEL
COLLET CHUCKS WITH MORSE TAPER
PORTE-OUTIL POUR SERRAGE PAR PINCE MK
PORTAPINZA CON ATTACCO CONO MORSE

DIN 6499


Code N.	Description	MK Morse	H	g	B	Clamplng capacity	Type
214-33102	CM1H40ER16	1	40	M6	32	0,5÷10	ER16
214-33103	CM2H42ER16	2	42	M10	32	0,5÷10	ER16
214-33104	CM2H50ER20	2	50	M10	35	0,5÷13	ER20
214-33106	CM3H53ER25	3	53	M12	42	0,5÷16	ER25
214-33107	CM3H70ER32	3	70	M12	50	2÷20	ER32
214-33109	CM4H60ER32	4	60	M16	50	2÷20	ER32
214-33110	CM4H81ER40	4	81	M16	63	3÷30	ER40

DIN 228-A

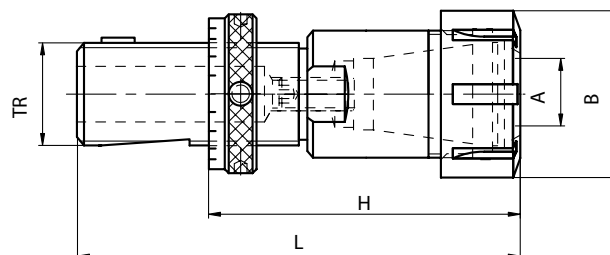
SPANNZANGENAUFNAHME MIT MORSEKEGEL, UND MINI SPANNMUTTER
COLLET CHUCKS WITH MORSE TAPER, WITH MINI NUT
PORTE-OUTIL POUR SERRAGE PAR PINCE MK, AVEC ECROU MINI
PORTAPINZA CON ATTACCO CONO MORSE, CON GHIERA MINI

DIN 6499


Code N.	Description	MK Morse	H	g	B	Clamplng capacity	Type
214-33119	CM1H25ER11M	1	25	M6	16	0,5÷7	ER11M
214-33120	CM1H40ER16M	1	40	M6	22	0,5÷10	ER16M
214-33121	CM2H42ER16M	2	42	M10	22	0,5÷10	ER16M
214-33122	CM2H50ER20M	2	50	M10	28	0,5÷13	ER20M
214-33123	CM2H54ER25M	2	54	M10	35	0,5÷16	ER25M
214-33124	CM3H43ER16M	3	43	M12	22	0,5÷10	ER16M
214-33125	CM3H47ER20M	3	47	M12	28	0,5÷13	ER20M
214-33126	CM3H58ER25M	3	58	M12	35	0,5÷16	ER25M

SPANNZANGENFUTTER DIN 6327
COLLET CHUCK DIN 6327
MANDRIN A PINCES DIN 6327
PORTAPINZE ATTACCO DIN 6327

DIN 6499

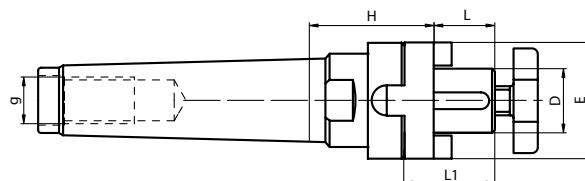


Code N.	Description	Tr	H min.	L	B	Clamping capacity	Type
214-34302	TR16X1.5L122ER16	16x1,5	46	122	28	0,5÷10	ER16
214-34303	TR20X2L128ER16	20x2	55	128	28	0,5÷10	ER16
214-34304	TR20X2L135ER20	20x2	62	135	34	0,5÷13	ER20
214-34306	TR28X2L140ER20	28x2	61	140	34	0,5÷13	ER20
214-34307	TR28X2L140ER25	28x2	61	140	42	0,5÷16	ER25
214-34308	TR28X2L147ER32	28x2	68	147	50	2÷20	ER32
214-34310	TR36X2L165ER32	36x2	65	165	50	2÷20	ER32
214-34311	TR36X2L186ER40	36x2	86	186	63	3÷30	ER40

DIN 228-A

KOMBI-AUFSTECKFRÄSDORNE MIT MORSEKEGEL
COMBI-SHELL MILL ADAPTORS WITH MORSE TAPER
MANDRINS PORTE-FRAISES A DOUBLE USAGE MK
PORTAFRESE COMBINATI CON ATTACCO CONO MORSE

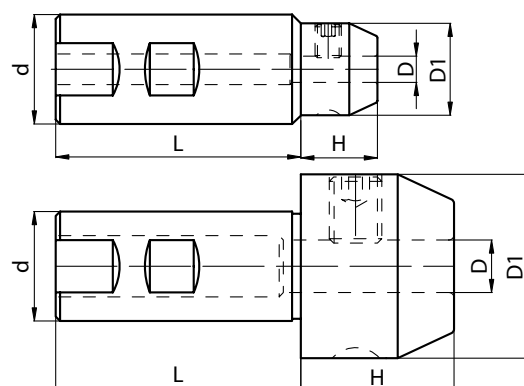
DIN 6358



Code N.	Description	MK Morse	D	H	L1	L	E	g
216-13118	CM2H37D16C	2	16	37	27	17	32	M10
216-13119	CM2H42D22C	2	22	42	31	19	40	M10
216-13120	CM3H37D16C	3	16	37	27	17	32	M12
216-13121	CM3H42D22C	3	22	42	31	19	40	M12
216-13122	CM3H42D27C	3	27	42	33	21	48	M12
216-13123	CM3H63D32C	3	32	63	38	24	58	M12
216-13124	CM4H55D16C	4	16	55	27	17	32	M16
216-13125	CM4H55D22C	4	22	55	31	19	40	M16
216-13126	CM4H55D27C	4	27	55	33	21	48	M16
216-13127	CM4H55D32C	4	32	55	38	24	58	M16
216-13128	CM5H75D22C	5	22	75	31	19	40	M20
216-13129	CM5H75D27C	5	27	75	33	21	48	M20
216-13130	CM5H75D32C	5	32	75	38	24	58	M20
216-13131	CM5H75D40C	5	40	75	41	27	70	M20

WELDON REDUZIERHÜLSEN
WELDON REDUCTION SLEEV
DOUILLES DE REDUCTION WELDON
BUSSOLE DI RIDUZIONE WELDON

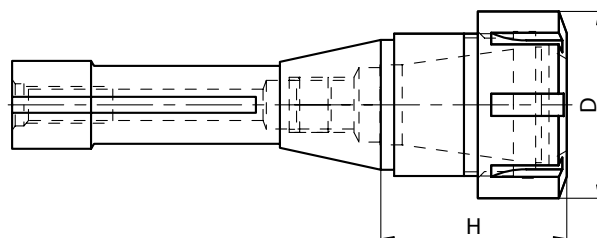
DIN 1835 B



Code N.	Description	d	D	H	L	D1
213-15203	WE20H30WE06	20	6	30	50	25
213-15204	WE20H30WE08	20	8	30	50	28
213-15205	WE20H30WE10	20	10	30	50	35
213-15206	WE20H35WE12	20	12	35	50	42
213-15207	WE20H35WE14	20	14	35	50	44
213-15208	WE20H60WE16	20	16	60	50	48
213-15209	WE25H25WE06	25	6	25	56	25
213-15210	WE25H30WE08	25	8	30	56	28
213-15211	WE25H30WE10	25	10	30	56	35
213-15212	WE25H35WE12	25	12	35	56	42
213-15213	WE25H35WE14	25	14	35	56	44
213-15214	WE25H40WE16	25	16	40	56	48
213-15215	WE32H30WE06	32	6	30	60	25
213-15216	WE32H30WE08	32	8	30	60	28
213-15217	WE32H30WE10	32	10	30	60	35
213-15218	WE32H35WE12	32	12	35	60	42
213-15219	WE32H35WE14	32	14	35	60	44
213-15220	WE32H40WE16	32	16	40	60	48
213-15221	WE32H40WE18	32	18	40	60	50
213-15222	WE32H40WE20	32	20	40	60	52
213-15223	WE32H65WE25	32	25	65	60	65

SPANNZANGENFUTTER BRIDGEPORT R8
COLLET CHUCK BRIDGEPORT R8
MANDRIN A PINCES BRIDGEPORT R8
PORTAPINZE ATTACCO BRIDGEPORT R8

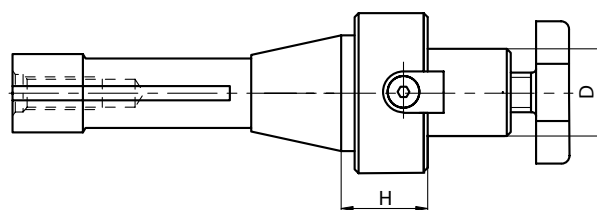
DIN 6499



Code N.	Description	H	D	Clamping capacity	Type
214-36401	R8H40ER32	40	50	2÷20	ER32
214-36402	R8H73ER40	73	63	3÷30	ER40

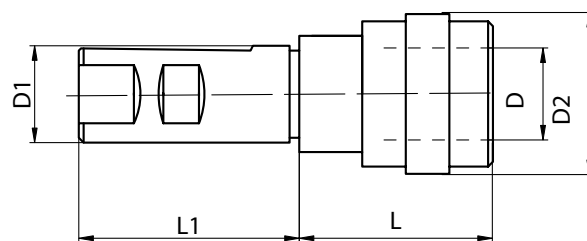
AUFSTECKFRÄSDORNE FÜR FRÄSER MIT QUERNUT BRIDGEPORT R8
MILL HOLDERS-TENONS DRIVE BRIDGEPORT R8
PORTE-FRAISE-ENTRAÎNEMENT PAR TENONS BRIDGEPORT R8
PORTAFRESE A TRASCINAMENTO FISSO BRIDGEPORT R8

ISO 3937



Code N.	Description	D	H
216-76401	R8H19D16F	16	19
216-76402	R8H23D22F	22	23
216-76403	R8H23D27F	27	23
216-76404	R8H24D32F	32	24

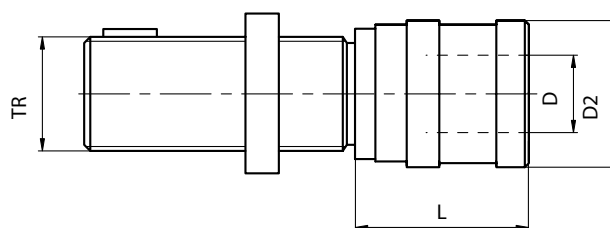
GEWINDESCHNEID-SCHNELLWECHSELFUTTER LÄNGENAUSGLEICH MIT ZYLINDERSCHAFT
CYLINDRICAL TAP CHUCKS
MANDRIN DE TARAUDAGE AVEC QUEUE CYLINDRIQUE
MASCHIATORE A DOPPIA COMPENSAZIONE CON CODOLO CILINDRICO



Code N.	Description	D1	Size.	Top range	d	D2	L	L1	Comp	Ext
M401020	M3-M12CIL.D20GR1	20	1	M3÷M12	19	38	41	50	9	9
M401025	M3-M12CIL.D25GR1	25	1	M3÷M12	19	38	41	56	9	9
M401032	M3-M12CIL.D32GR1	32	1	M3÷M12	19	38	41	61	9	9
M401040	M3-M12CIL.D40GR1	40	1	M3÷M12	19	38	41	72	9	9
M402020	M6-M20CIL.D20GR2	20	2	M6÷M20	31	53	63	50	15	15
M402025	M6-M20CIL.D25GR2	25	2	M6÷M20	31	53	63	56	15	15
M402032	M6-M20CIL.D32GR2	32	2	M6÷M20	31	53	63	61	15	15
M402040	M6-M20CIL.D40GR2	40	2	M6÷M20	31	53	63	72	15	15
M403032	M14-M33CIL.D32GR3	32	3	M14÷M33	48	79	97	61	24	24
M403040	M14-M33CIL.D40GR3	40	3	M14÷M33	48	79	97	72	24	24

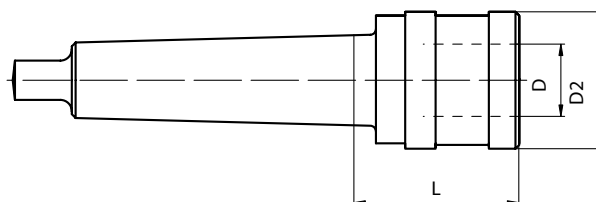
DIN 6327

GEWINDESCHNEID-SCHNELLWECHSELFUTTER LÄNGENAUSGLEICH MIT GEWINDESCHAFT
QUICK CHANGE TAP HOLDERS WITH AUTOMOTIVE SHANK
MANDRIN DE TARAUDAGE A CHANGEMENT RAPIDE AVEC QUEUE FILETÉE
MASCHIATORE A DOPPIA COMPENSAZIONE CON GAMBO FILETTATO



Code N.	Description	Size	Top range	Press	Ext	Tr	D	D2	L
M-1430	M3-M12TR28X2GR1	1	M3÷M12	9	9	28x2	19	36	53
M-1440	M3-M12TR36X2GR1	1	M3÷M12	9	9	36x2	19	36	55
M-1530	M6-M20TR28X2GR2	2	M6÷M20	15	15	28x2	31	53	75
M-1540	M6-M20TR36X2GR2	2	M6÷M20	15	15	36x2	31	53	77
M-1630	M14-M33TR36X2GR3	3	M14÷M33	24	24	36x2	48	78	111
M-1640	M14-M33TR48X2GR3	3	M14÷M33	24	24	48x2	48	78	115

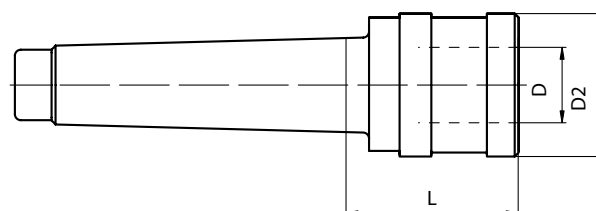
GEWINDESCHNEID-SCHNELLWECHSELFUTTER LÄNGENAUSGLEICH MIT MORSEKEGELSCHAFT
QUICK CHANGE TAP HOLDER WITH MT SHANK
MANDRIN DE TARAUDAGE CONE MORSE A CHANGEMENT RAPIDE
MASCHIATORE A DOPPIA COMPENSAZIONE ATTACCO CONO MORSE



Code N.	Description	Size	Top range	Press	Ext	Mk Morse	D	D2	L
M-1810	M3-M12CM2BGR1	1	M3÷M12	9	9	2	19	36	46
M-1820	M3-M12CM3BGR1	1	M3÷M12	9	9	3	19	36	46
M-1920	M6-M20CM3BGR2	2	M6÷M20	15	15	3	31	53	68
M-1930	M6-M20CM4BGR2	2	M6÷M20	15	15	4	31	53	70
M-2030	M14-M33CM4BGR3	3	M14÷M33	24	24	4	48	78	108
M-2040	M14-M33CM5BGR3	3	M14÷M33	24	24	5	48	78	103

DIN 228-A

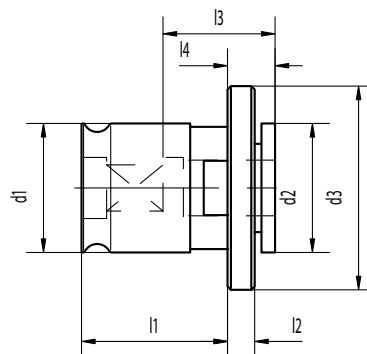
GEWINDESCHNEID-SCHNELLWECHSELFUTTER LÄNGENAUSGLEICH MIT MORSEKEGELSCHAFT
QUICK CHANGE TAP HOLDER WITH MT SHANK
MANDRIN DE TARAUDAGE CONE MORSE A CHANGEMENT RAPIDE
MASCHIATORE A DOPPIA COMPENSAZIONE ATTACCO CONO MORSE



Code N.	Description	Size	Top range	Press	Ext	Mk Morse	D	D2	L
M-2210	M3-M12CM2AGR1	1	M3÷M12	9	9	2	19	36	46
M-2220	M3-M12CM3AGR1	1	M3÷M12	9	9	3	19	36	46
M-2320	M6-M20CM3AGR2	2	M6÷M20	15	15	3	31	53	68
M-2330	M6-M20CM4AGR2	2	M6÷M20	15	15	4	31	53	70
M-2430	M14-M33CM4AGR3	3	M14÷M33	24	24	4	48	78	108
M-2440	M14-M33CM5AGR3	3	M14÷M33	24	24	5	48	78	103

SNELLWECHSELEINSÄTZE OHNE SICHERHEITSKUPPLUNG
QUICK CHANGE TAPPING ADAPTERS WITHOUT SAFETY COUPLING
ADAPTEURS A CHANGEMENT RAPIDE SANS COUPLAGE DE SECURITE
BUSSOLA PER MASCHIARE SENZA FRIZIONE

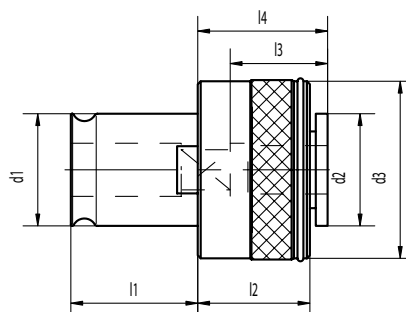
IBC



	Code N.	Tap shank	Ø	Size	l1	l2	l3	l4	d1	d2	d3
IBC 1	IBC1-3,5	3,5	2,7	1	21,5	4	17	7	19	19	30
	IBC1-4,5	4,5	3,4	1	21,5	4	17	7	19	19	30
	IBC1-5,5	5,5	4,3	1	21,5	4	17	7	19	19	30
	IBC1-6	6	4,9	1	21,5	4	17	7	19	19	30
	IBC1-7	7	5,5	1	21,5	4	17	7	19	19	30
	IBC1-8	8	6,2	1	21,5	4	17	7	19	19	30
	IBC1-9	9	7	1	21,5	4	17	7	19	19	30
	IBC1-10	10	8	1	21,5	4	17	7	19	19	30
	IBC1-11	11	9	1	21,5	4	17	7	19	19	30
IBC 2	IBC2-6	6	4,9	2	35	5	30	11	31	30	48
	IBC2-7	7	5,5	2	35	5	30	11	31	30	48
	IBC2-8	8	6,2	2	35	5	30	11	31	30	48
	IBC2-9	9	7	2	35	5	30	11	31	30	48
	IBC2-10	10	8	2	35	5	30	11	31	30	48
	IBC2-11	11	9	2	35	5	30	11	31	30	48
	IBC2-12	12	9	2	35	5	30	11	31	30	48
	IBC2-14	14	11	2	35	5	30	11	31	30	48
	IBC2-16	16	12	2	35	5	30	11	31	30	48
	IBC2-18	18	14,6	2	35	5	30	11	31	30	48
IBC 3	IBC3-11	11	9	3	55,5	6	44	14	48	48	70
	IBC3-12	12	9	3	55,5	6	44	14	48	48	70
	IBC3-14	14	11	3	55,5	6	44	14	48	48	70
	IBC3-16	16	12	3	55,5	6	44	14	48	48	70
	IBC3-18	18	14,6	3	55,5	6	44	14	48	48	70
	IBC3-20	20	16	3	55,5	6	44	14	48	48	70
	IBC3-22	22	18	3	55,5	6	44	14	48	48	70
	IBC3-25	25	20	3	55,5	6	44	14	48	48	70
	IBC3-28	28	22	3	55,5	6	44	14	48	48	70

SNELLWECHSELEINSÄTZE MIT SICHERHEITSKUPPLUNG
QUICK CHANGE TAPPING ADAPTERS WITH SAFETY COUPLING
ADAPTEURS A CHANGEMENT RAPIDE AVEC COUPLAGE DE SECURITE
BUSSOLA PER MASCHIARE CON FRIZIONE

IBS



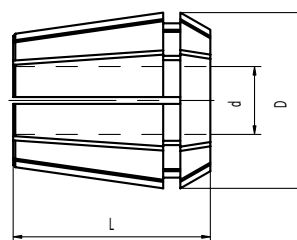
	Code N.	Tap shank	Ø	Size	l1	l2	l3	l4	d1	d2	d3
IBC 1	IBS1-3,5	3,5	2,7	1	21,5	25	17	25	19	19	32
	IBS1-4,5	4,5	3,4	1	21,5	25	17	25	19	19	32
	IBS1-5,5	5,5	4,3	1	21,5	25	17	25	19	19	32
	IBS1-6	6	4,9	1	21,5	25	17	25	19	19	32
	IBS1-7	7	5,5	1	21,5	25	17	25	19	19	32
	IBS1-8	8	6,2	1	21,5	25	17	25	19	19	32
	IBS1-9	9	7	1	21,5	25	17	25	19	19	32
	IBS1-10	10	8	1	21,5	25	17	25	19	19	32
	IBS1-11	11	9	1	21,5	25	17	25	19	19	32
IBC 2	IBS2-6	6	4,9	2	35	31	30	34	31	30	50
	IBS2-7	7	5,5	2	35	31	30	34	31	30	50
	IBS2-8	8	6,2	2	35	31	30	34	31	30	50
	IBS2-9	9	7	2	35	31	30	34	31	30	50
	IBS2-10	10	8	2	35	31	30	34	31	30	50
	IBS2-11	11	9	2	35	31	30	34	31	30	50
	IBS2-12	12	9	2	35	31	30	34	31	30	50
	IBS2-14	14	11	2	35	31	30	34	31	30	50
	IBS2-16	16	12	2	35	31	30	34	31	30	50
	IBS2-18	18	14,6	2	35	31	30	34	31	30	50
IBC 3	IBS3-11	11	9	3	55,5	41	44	45	48	48	72
	IBS3-12	12	9	3	55,5	41	44	45	48	48	72
	IBS3-14	14	11	3	55,5	41	44	45	48	48	72
	IBS3-16	16	12	3	55,5	41	44	45	48	48	72
	IBS3-18	18	14,6	3	55,5	41	44	45	48	48	72
	IBS3-20	20	16	3	55,5	41	44	45	48	48	72
	IBS3-22	22	18	3	55,5	41	44	45	48	48	72
	IBS3-25	25	20	3	55,5	41	44	45	48	48	72
	IBS3-28	28	22	3	55,5	41	44	45	48	48	72

MASSE DER GEWINDEBOHRERSCHÄFTE
TABLE OF TAP SHANKS DIMENSIONS
TABLEAU DIMENSIONNEL DES QUEUES DE TARAUDS
TABELLA DIMENSIONAMENTO GAMBI PER MASCHI

Shank	Normal DIN352	Reinforced DIN 371	Normal DIN376	Normal ISO	Reinforced ISO
2,5x2,1	M1	M1	M3,5		
2,5x2,1	M1,4	M1,4			
2,5x2,1	M1,6	M1,6			
2,5x2,1	M1,8	M1,8			
2,8x2,1	M2	M2	M4		
2,8x2,1	M2,2	M2,2			
2,8x2,1	M2,5	M2,5			
3,15x2,5				M4	M3
3,5x2,7	M3	M3	M5		
3,55x2,8				M4,5	M3,5
4x3,15	M3,5	M3,5		M5	M4
4,5x3,4	M4	M4	M6		
5x4					M5
6x4,9	M5	M5			
6x4,9	M6	M6			
6x4,9	M8		M8		
6,3x5				M8	M6
7x5,5	M10		M10		
8x6,3		M8		M10	M8
9x7,1	M12		M12	M12	
10x8		M10			M10
11x9	M14		M14		
12x9	M16		M16		
12,5x10				M16	
14x11	M18		M18		
14x11,2				M18	
14x11,2				M20	
16x12	M20		M20		
16x12,5				M22	
18x14				M24	
18x14,5	M22		M22		
18x14,5	M24		M24		
20x16	M27		M27	M27	
20x16				M30	
22x18	M30		M30		
25x20	M33		M33	M36	
28x22	M36		M36		
32x24	M39		M39		
32x24	M42		M42		
36x29	M45		M45		
36x29	M48		M48		

ER TYP SPANNZANGEN COLLETS ER TYPE PINCES TYPE ER PINZE TIPO ER

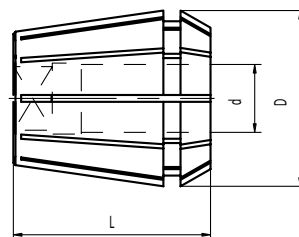
DIN 6499/B



Type	D	L	Clamplng capacity	DIN
ER8D..	8.5	13.5	1÷5	4004E
ER11D..	11.5	18	1÷7	4008E
ER16D..	17	27	1÷10	426E
ER20D..	21	31.5	1÷13	428E
ER25D..	26	35	0,5÷16	430E
ER32D..	33	40	2÷20	470E
ER40D..	41	46	3÷30	472E

ER SPANNZANGEN FÜR GEWINDEBOHRER ER TAPPING COLLETS WITH SQUARE PINCES DE TARAUDAGE PINZE ER CON QUADRO PER MASCHIATURA

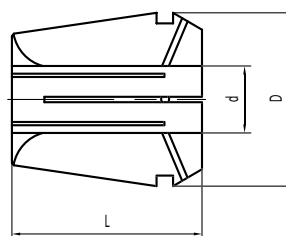
DIN 6499/A



Type	D	L	Clamplng capacity
ER16MD..	17	27.5	3.5÷8
ER20MD..	21	31.5	3.5÷10
ER25MD..	26	34	3.5÷12
ER32MD..	33	40	4÷16
ER40MD..	41	46	6÷20

DICHTE ER-SPANNZANGE WATERTIGHT ER COLLETS PINCES ER ETANCHES PINZE ER A TENUTA STAGNA

DIN 6499/A



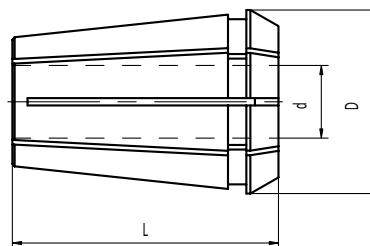
Type	D	L	Clamplng capacity
ER11VGD..	11.5	18	3÷7
ER16VGD..	17	27	3÷10
ER20VGD..	21	31.5	3÷13
ER25VGD..	26	34	3÷16
ER32VGD..	33	40	3÷20
ER40VGD..	41	46	4÷26

Collets with neoprene insertions and coolant only through the collet hole.
Those collets clamp only nominal diameter.
0.005÷0.01 runout accuracy.

Pinze con inserti in neoprene e passaggio centrale del refrigerante.
Bloccano solo il diametro nominale.
Concentricità : 0.005÷0.01

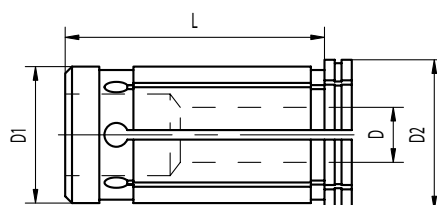
EOC TYP SPANNZANGEN
COLLETS EOC TYPE
PINCES TYPE EOC
PINZE TIPO EOC

DIN 6388/B



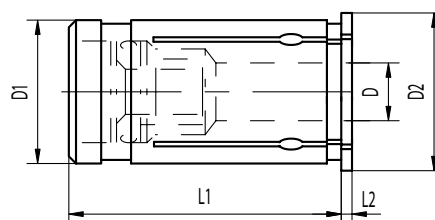
Type	D	L	Clamping capacity	DIN
EOC16D..	25.5	40	2÷16	415E
EOC25D..	35.05	52	2÷25	462E
EOC32D..	43.7	60	4÷32	467E

SPANNZANGEN FÜR KRAFTSPANNFUTTER
COLLETS FOR MILLING CHUCK
PINCES POUR MANDRINS A FORT SERRAGE
PINZE PER MANDRINI A FORTE SERRRAGGIO



Type	D1	D2	L	D hole size
K 20D..	20	25	50	6;8;10;12;16
K 32D..	32	37	60	6;8;10;12;16;20;25

SPANNZANGEN FÜR HYDRODENS SPANNFUTTER
COLLETS FOR HYDRAULIC CHUCKS
PINCES POUR MANDRINS HYDRAULIQUES
PINZE PER MANDRINI IDRAULICI



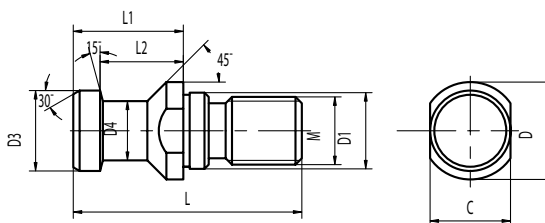
Type	D1	D2	L1	L2	D hole size
G12D..	12	16	44.5	2	3;4;5;6;8;10
G20D..	20	24	50.5	2	3;4;5;6;8;10;12;14;16
G32D..	32	36	60.5	3	10;12;14;16;18;20;25

SPANNBOLZEN DIN 69872
DIN 69872 PULL STUDS
TIRETTES DIN 69872
CODOLI DI AGGANCIO DIN 69872

DIN 69872

Ohne bohrung/Not drilled/Non Percée/Non forato

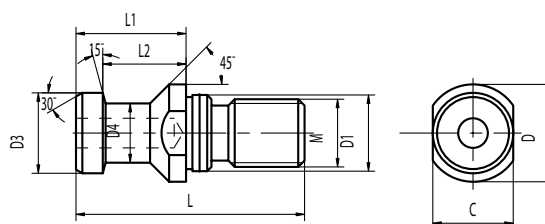
DIN 69872 A



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C
217-21206	30	M12	17	13	13	9	44	24	19	14
217-21207	40	M16	23	17	19	14	54	26	20	19
217-21208	50	M24	36	25	28	21	74	34	25	30

Ohne bohrung/Not drilled/Non Percée/Non forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta

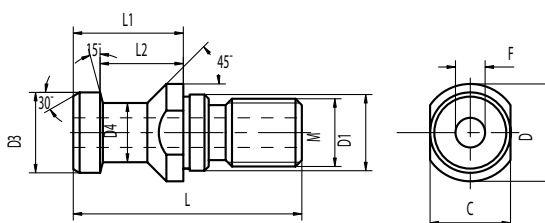
DIN 69872 B



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C
217-21301	40	M16	23	17	19	14	54	26	20	19
217-21302	50	M24	36	25	28	21	74	34	25	30

Gebohrt/Drilled/Percée/Forato

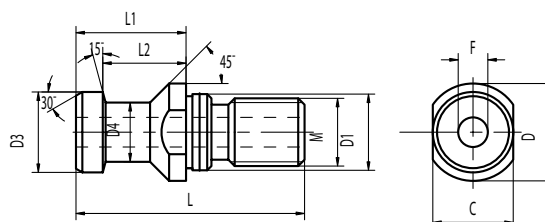
DIN 69872 A



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-21201	40	M16	23	17	19	14	54	26	20	19	7
217-21202	50	M24	36	25	28	21	74	34	25	30	11,5

Gebohrt/Drilled/Percée/Forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta

DIN 69872 B

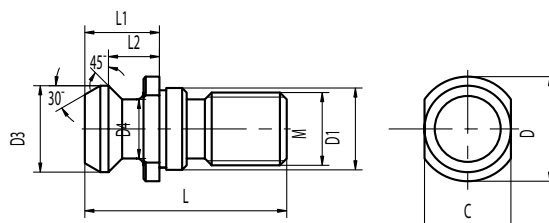


Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-21305	40	M16	23	17	19	14	54	26	20	19	7
217-21306	50	M24	36	25	28	21	74	34	25	30	11,5

SPANNBOLZEN ISO 7388/2-B
ISO 7388/2-B PULL STUDS
TIRETTES ISO 7388/2-B
CODOLI DI AGGANCIO ISO 7388/2-B

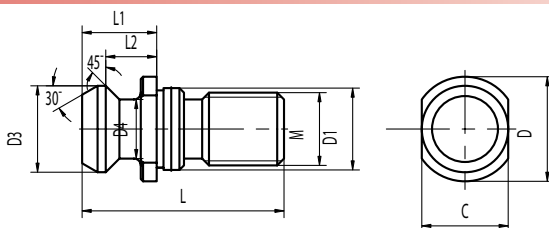
ISO 7388/2-B

Ohne bohrung/Not drilled/Non Percée/Non forato



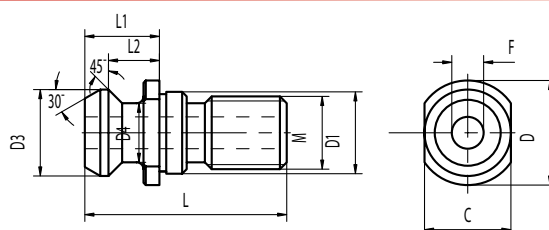
Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C
217-21607	30	M12	17	12,5	13,3	9,3	34	11,8	8,1	14
217-21608	40	M16	22,5	17	18,9	12,9	44,5	16,4	11,2	18
217-21609	50	M24	37	25	29,1	19,6	65,5	25,5	17,9	30

Ohne bohrung/Not drilled/Non Percée/Non forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta



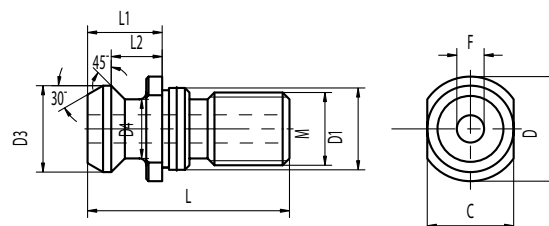
Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C
217-21611	40	M16	22,5	17	18,9	12,9	44,5	16,4	11,2	18
217-21612	50	M24	37	25	29,1	19,6	65,5	25,5	17,9	30

Gebohrt/Drilled/Percée/Forato



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-21601	40	M16	22,5	17	18,9	12,9	44,5	16,4	11,2	18	7,3
217-21602	50	M24	37	25	29,1	19,6	65,5	25,5	17,9	30	11,5

Gebohrt/Drilled/Percée/Forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta

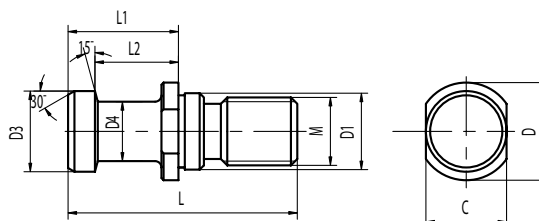


Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-21621	40	M16	22,5	17	18,9	12,9	44,5	16,4	11,2	18	7,3
217-21622	50	M24	37	25	29,1	19,6	65,5	25,5	17,9	30	11,5

SPANNBOLZEN ISO 7388/2-A
ISO 7388/2-A PULL STUDS
TIRETTES ISO 7388/2-A
CODOLI DI AGGANCIO ISO 7388/2-A

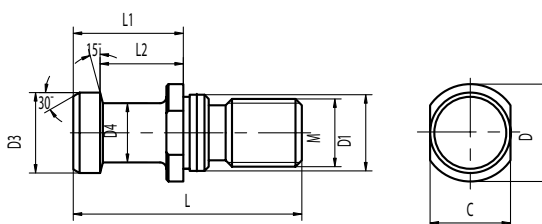
ISO 7388/2-A

Ohne bohrung/Not drilled/Non Percée/Non forato



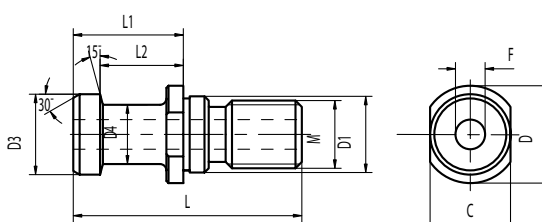
Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C
217-21616	30	M12	16	13	12	8	44	24	19	14
217-21617	40	M16	23	17	19	14	54	26	20	19
217-21618	50	M24	36	25	28	21	74	34	25	30

Ohne bohrung/Not drilled/Non Percée/Non forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta



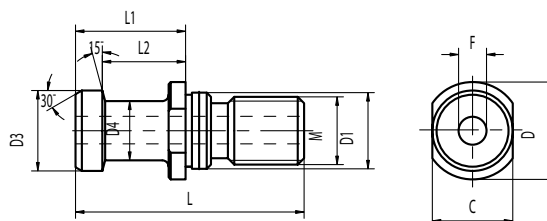
Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C
217-21619	40	M16	23	17	19	14	54	26	20	19
217-21620	50	M24	36	25	28	21	74	34	25	30

Gebohrt/Drilled/Percée/Forato



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-21614	40	M16	23	17	19	14	54	26	20	19	7
217-21615	50	M24	36	25	28	21	74	34	25	30	11,5

Gebohrt/Drilled/Percée/Forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta

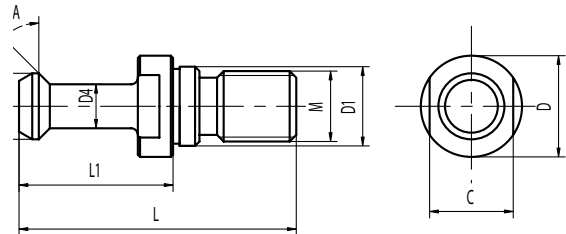


Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-21623	40	M16	23	17	19	14	54	26	20	19	7
217-21624	50	M24	36	25	28	21	74	34	25	30	11,5

**SPANNBOLZEN MAS-BT
MAS-BT PULL STUDS
TIRETTES MAS-BT
CODOLI DI AGGANCIO MAS-BT**

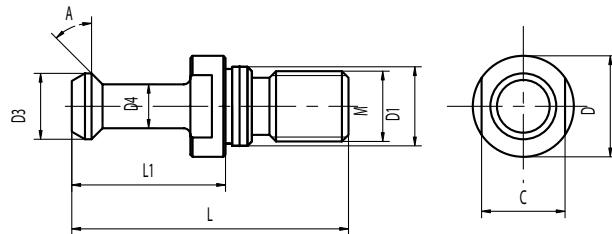
MAS-BT

Ohne bohrung/Not drilled/Non Percée/Non forato



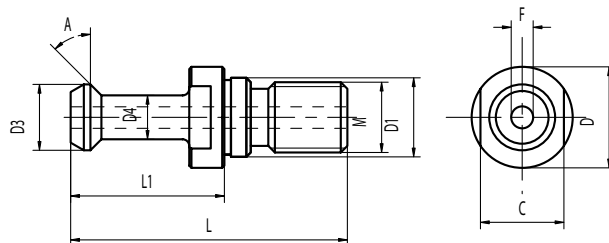
Code N.	ISO	A	M	L1	L	D	D1	D3	D4	C
217-21508	30	30°	M12	23	43	16	12,5	11	7	13
217-21507	30	45°	M12	23	43	16	12,5	11	7	13
217-21502	40	30°	M16	35	60	23	17	15	10	19
217-21501	40	45°	M16	35	60	23	17	15	10	19
217-21503	40	90°	M16	35	60	23	17	15	10	19
217-21505	50	30°	M24	45	85	38	25	23	17	30
217-21504	50	45°	M24	45	85	38	25	23	17	30
217-21506	50	90°	M24	45	85	38	25	23	17	30

**Ohne bohrung/Not drilled/Non Percée/Non forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta**



Code N.	ISO	A	M	L1	L	D	D1	D3	D4	C
217-21401	40	30°	M16	35	60	23	17	15	10	19
217-21402	40	45°	M16	35	60	23	17	15	10	19
217-21403	40	90°	M16	35	60	23	17	15	10	19
217-21404	50	30°	M24	45	85	38	25	23	17	30
217-21405	50	45°	M24	45	85	38	25	23	17	30
217-21406	50	90°	M24	45	85	38	25	23	17	30

Gebohrt/Drilled/Percée/Forato

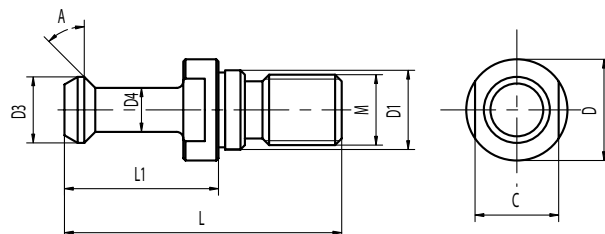


Code N.	ISO	A	M	L1	L	D	D1	D3	D4	C	F
217-22206	40	30°	M16	35	60	23	17	15	10	19	4
217-22207	40	45°	M16	35	60	23	17	15	10	19	4
217-22208	40	90°	M16	35	60	23	17	15	10	19	4
217-22209	50	30°	M24	45	85	38	25	23	17	30	6
217-22210	50	45°	M24	45	85	38	25	23	17	30	6
217-22211	50	90°	M24	45	85	38	25	23	17	30	6

SPANNBOLZEN MAS-BT->DIN 69871
MAS-BT->DIN 69871 PULL STUDS
TIRETTES MAS-BT->DIN 69871
CODOLI DI AGGANCIO MAS-BT->DIN 69871

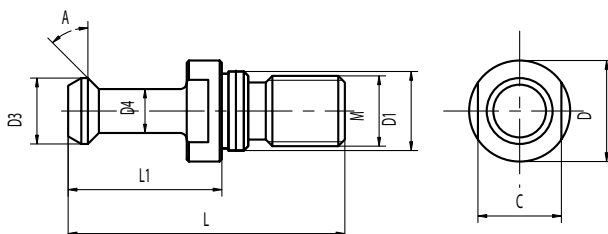
MAS-BT->DIN 69871

Ohne bohrung/Not drilled/Non Percée/Non forato



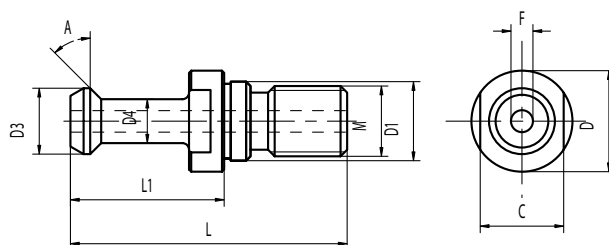
Code N.	ISO	A	M	L1	L	D	D1	D3	D4	C
217-22060	40	30°	M16	32	57	23	17	15	10	19
217-22090	40	45°	M16	32	57	23	17	15	10	19
217-22027	40	90°	M16	32	57	23	17	15	10	19

Ohne bohrung/Not drilled/Non Percée/Non forato
Mit O'ring/With O'ring/Avec joint torique/Con OR di tenuta



Code N.	ISO	A	M	L1	L	D	D1	D3	D4	C
217-21407	40	30°	M16	32	57	23	17	15	10	19
217-21408	40	45°	M16	32	57	23	17	15	10	19
217-21409	40	90°	M16	32	57	23	17	15	10	19

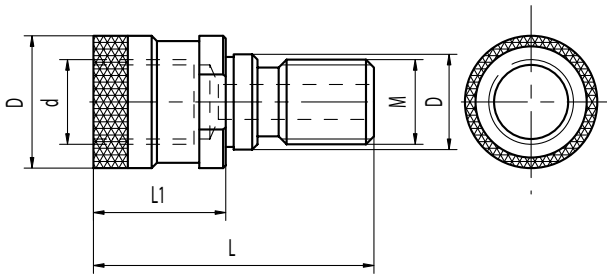
Gebohrt/Drilled/Percée/Forato



Code N.	ISO	A	M	L1	L	D	D1	D3	D4	C	F
217-22212	40	30°	M16	32	57	23	17	15	10	19	4
217-22213	40	45°	M16	32	57	23	17	15	10	19	4
217-22214	40	90°	M16	32	57	23	17	15	10	19	4

**SPANNBOLZEN MIT RINGNUT NACH DIN 2080
ADAPTOR PULL STUDS ACCORDING TO DIN 2080
ADAPTATION SUIVANT DIN 2080
CODOLO ADATTATORE DIN 2080**

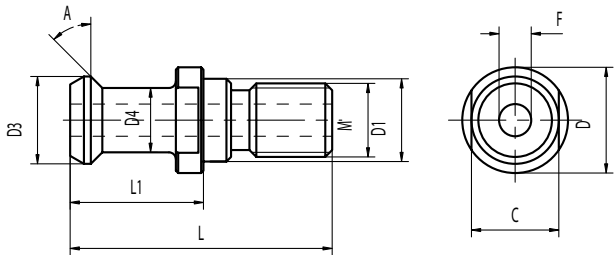
OTT-SYSTEM



Code N.	ISO	M	d	D	D1	L	L1
217-22025	TC40	M16	M16	25.3	17	53	25
217-22040	BT40	M16	M16	25.3	17	56	28
217-22024	50	M24	M24	39,6	25	65	25

**SPANNBOLZEN JIS. B6339
JIS. B6339 PULL STUD
TIRETTE JIS. B6339
CODOLO DI AGGANCIO JIS. B6339**

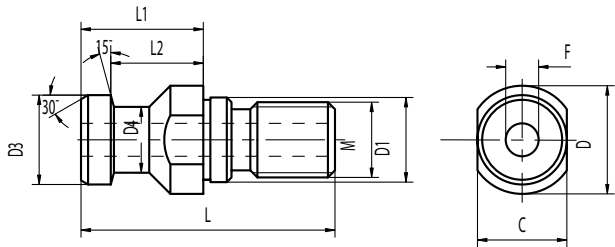
JIS. B6339



Code N.	ISO	A	M	D	D1	D3	D4	L	L1	C	F
217-22134	40	15°	M16	23	17	19	14	54	29	19	7

**SPANNBOLZEN BRIDGEPORT
BRIDGEPORT PULL STUD
TIRETTE BRIDGEPORT
CODOLO DI AGGANCIO BRIDGEPORT**

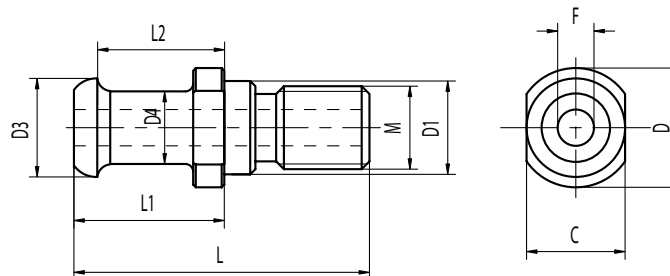
BRIDGEPORT



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-22253	40	M16	23	17	19	14	54	29	23	19	7

SPANNBOLZEN CB FERRARI
CB FERRARI PULL STUD
TIRETTE CB FERRARI
CODOLO DI AGGANCIO CB FERRARI

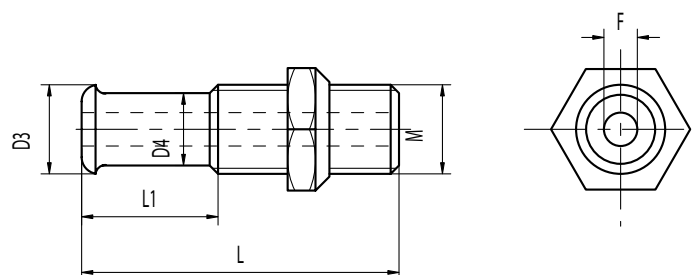
CB FERRARI



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-22017	40	M16	23	17	19	15	54	26	20,31	19	5

SPANNBOLZEN CB FERRARI MIT SCHRAUBENMUTTER
CB FERRARI WITH NUT PULL STUD
TIRETTE CB FERRARI AVEC ECROU
CODOLO DI AGGANCIO CB FERRARI CON DADO

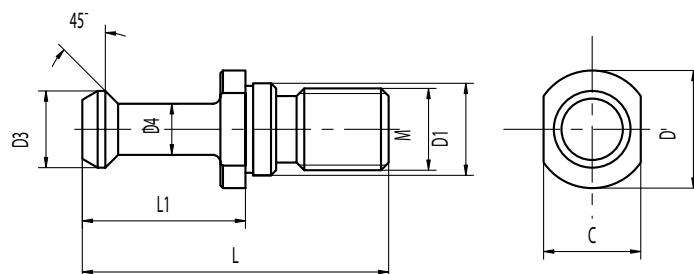
CB FERRARI



Code N.	ISO	M	d	D	D1	L	L1
217-22046	40	M16	16	12	57	23	5

SPANNBOLZEN CHIRON
CHIRON PULL STUD
TIRETTE CHIRON
CODOLO DI AGGANCIO CHIRON

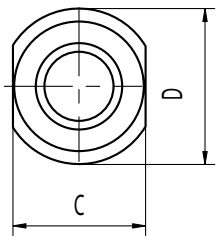
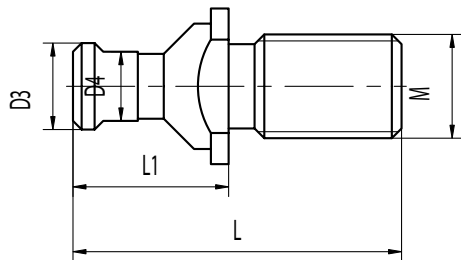
CHIRON



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22048	30	M12	16	13	10	6	36	20	14

**SPANNBOLZEN CORREA
CORREA PULL STUD
TIRETTE CORREA
CODOLO DI AGGANCIO CORREA**

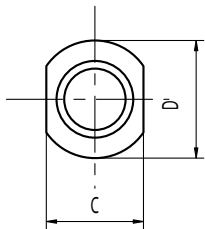
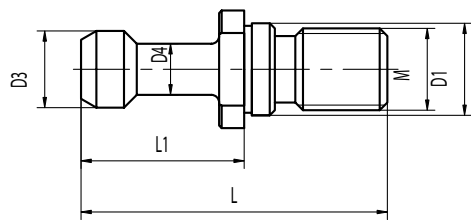
CORREA



Code N.	ISO	M	D	D3	D4	L	L1	C
217-22135	50	M24	36	20	16	76	36	20

**SPANNBOLZEN CORTINI
CORTINI PULL STUD
TIRETTE CORTINI
CODOLO DI AGGANCIO CORTINI**

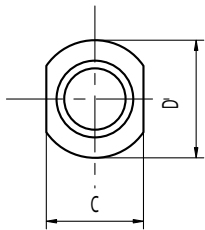
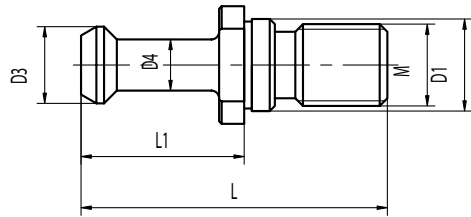
CORTINI



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22254	30	M12	16	13	10	7	39	21	14

**SPANNBOLZEN TYP FAMUP
FAMUP TYPE PULL STUDS
TIRETTES TYPE FAMUP
CODOLI DI AGGANCIO TIPO FAMUP**

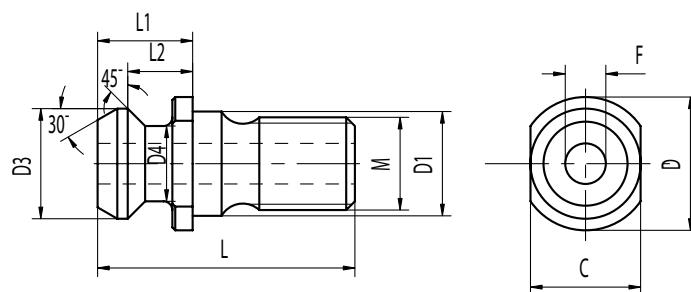
FAMUP



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22137	30	M12	16	13	9,8	5,8	40	20	14
217-22051	40	M16	23	17	13,8	9,8	55	27	19
217-22052	40	M16	23	17	13,8	9,8	58	30	19

SPANNBOLZEN TYP MAZAK
MAZAK TYPE PULL STUDS
TIRETTES TYPE MAZAK
CODOLI DI AGGANCIO TIPO MAZAK

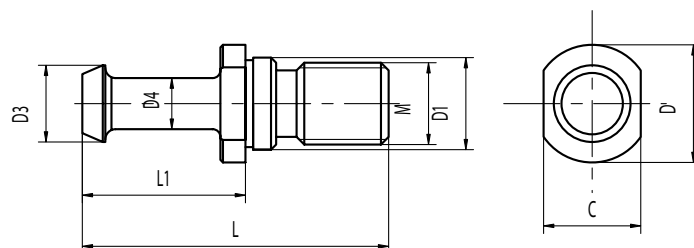
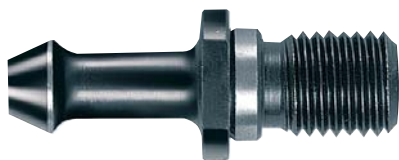
MAZAK



Code N.	ISO	M	D	D1	D3	D4	L	L1	L2	C	F
217-22003	40	M16	21,8	17	18,79	12,44	41,25	16,25	11,17	19	7
217-22047	40	M16	22	17	18,79	12,44	44,10	19,1	14,02	19	7
217-22187	50	M24	35.5	25	28,95	20.8	65.4	25.4	17.78	30	10

SPANNBOLZEN OLIVETTI OCN
OLIVETTI OCN PULL STUD
TIRETTE OLIVETTI OCN
CODOLO DI AGGANCIO OLIVETTI OCN

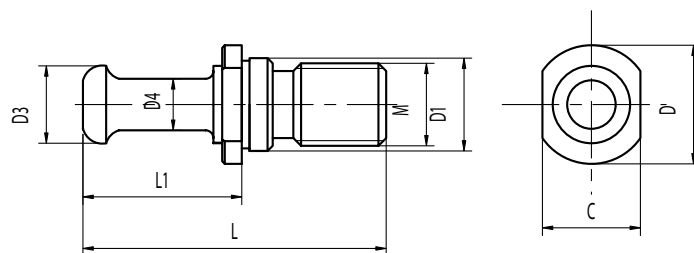
OLIVETTI OCN



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22136	40	M16	23	17	14,3	10	58	33	19

SPANNBOLZEN TYP RAMBAUDI
RAMBAUDI TYPE PULL STUDS
TIRETTES TYPE RAMBAUDI
CODOLO DI AGGANCIO TIPO RAMBAUDI

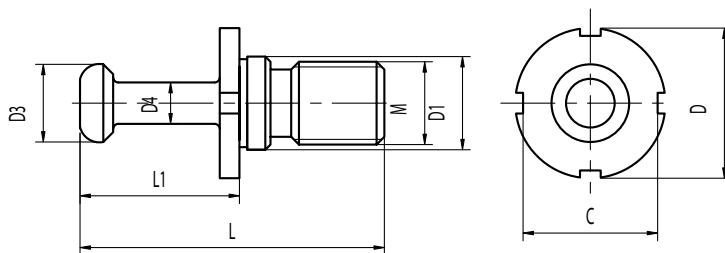
RAMBAUDI



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22049	40	M16	24	17	14,6	10	52	27	19
217-22050	50	M24	35,8	25	20	16	79,5	39,5	30

SPANNBOLZEN SECMU
SECMU PULL STUD
TIRETTE SECMU
CODOLO DI AGGANCIO SECMU

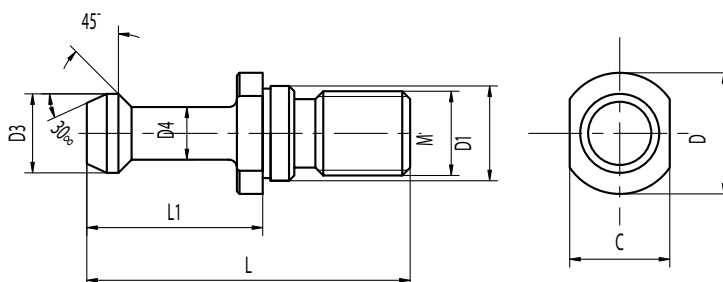
SECMU



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22138	50	M24	40	25	17,5	9.8	64	29	36

SPANNBOLZEN CINCINNATI
CINCINNATI PULL STUD
TIRETTE CINCINNATI
CODOLO DI AGGANCIO CINCINNATI

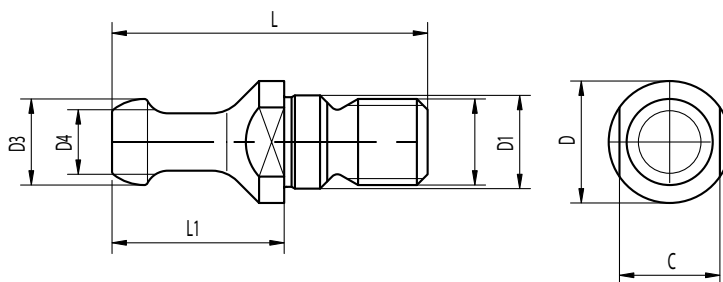
CINCINNATI



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22010	40	M16	22.2	17	15	10.3	67.3	39.4	19
217-22030	40	M16	22.2	17	15	10.3	67.3	36.6	18

SPANNBOLZEN BIESSE
BIESSE PULL STUD
TIRETTE BIESSE
CODOLO DI AGGANCIO BIESSE

BIESSE



Code N.	ISO	M	D	D1	D3	D4	L	L1	C
217-22158	30	M12	17	13	12	8	44	24	14

Code N	ISO	Attack
237-32110	30	DIN 2080
237-32310	40	DIN 2080
237-32510	50	DIN 2080
237-32120	30	DIN 69871
237-32320	40	DIN 69871
237-32520	50	DIN 69871
237-32180	30	TEK
237-32130	30	MAS 403/BT
237-32330	40	MAS 403/BT
237-32530	50	MAS 403/BT



Dieses unkompliziertes System erlaubt die schnelle und sichere Montage und Demontage von Steilkegelaufnahmen in horizontaler und vertikaler Lage. Das Risiko der Werkzeugbeschädigung ist ausgeschlossen. Das ist ein sehr einfaches System, das sich für Steilkegelaufnahme eignet.

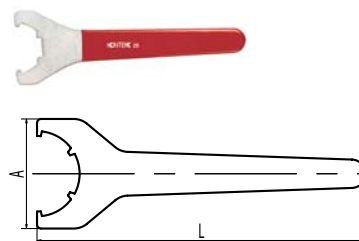
It is very useful for all assembly and disassembly operations of the tools on the toolholders, either in horizontal or in vertical position. This process is carried out without any risk to damage casually the tool or the toolholder. It is a very simple system suitable for monolithic toolholders.

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

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

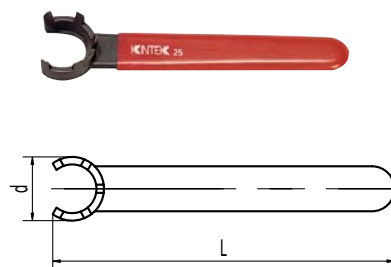
SPANNSCHLÜSSEL FÜR STANDARD SPANNMUTTER WRENCHES FOR STANDARD NUT CLES DE SERRAGE POUR ECROU STANDARD CHIAVI PER GHIERA STANDARD

Code N.	ER	A	L
816-203000	16	54	165
816-203005	20	60	180
816-203001	25	70	200
816-203002	32	80	250
816-203003	40	95	280



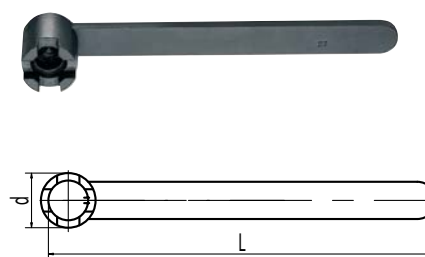
SPANNSCHLÜSSEL FÜR MINI SPANNMUTTER WRENCHES FOR MINI NUT CLES DE SERRAGE POUR ECROU MINI CHIAVI PER GHIERA MINI

Code N.	ER	d	L
816-203007	8M	12,4	70
816-203008	11M	16,8	90
816-203009	16M	22,5	110
816-203010	20M	29	120
816-203011	25M	36	130



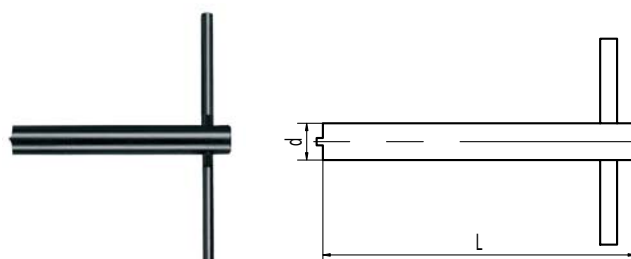
SPANNSCHLÜSSEL FÜR FRÄSERANZUGSSCHRAUBEN WRENCH FOR TOOLS RETENING SCREW CLE A VIS A CROSSE CHIAVE PER VITE TESTA A CROCE

Code N.	Size	d	L
816-13002	16/M8	22	180
816-13003	22/M10	28	200
816-13004	27/M12	35	225
816-13005	32/M16	42	250
816-13006	40/M20	52	280
816-13007	50/M24	63	315



SPANNSCHLÜSSEL FÜR ÜBERWÜRFMUTTERN WRENCHES FOR LOCKNUT CLES POUR COLLIERE D'ETACHEITE CHIAVI PER GHIERA DI TENUTA

Code N.	Size	d	L
816-20204	M10/MK1	9,9	85
816-20205	M15/MK2	14,8	110
816-20206	M20/MK3	19,2	115
816-20207	M24/MK4	23	140
816-20208	M36/MK5	37	172





KIT



KIT MANDRINI TOOL HOLDERS KIT



ISO 40

CODE DIN 69871	CODE MAS 403/BT	CODE DIN 2080	DESCRIZIONE DESCRIPTION
KIT MAN TC 40	KIT MAN BT 40	KIT MAN ISO 40	N°2 portapinze ER25 N°5 portapinze ER32 N°1 portafrese fisso D16 N°1 portafrese fisso D22 N°1 portafrese fisso D27 N°1 portafrese weldon Ø16 N°1 portafrese weldon Ø20 N°1 portafrese weldon Ø25 N°1 portapunte/frese CM2 N°1 portapunte/frese CM3 N°1 maschiatore M3-M12 N°5 bussole portamaschi (Ø4.5-6-8-9-10) N°10 pinze ER25 (Ø2 3 4 5 6 10 12 14 16) N°10 pinze ER32 (Ø3 4 6 8 10 12 14 16 18 20) N°1 chiave per ER25 N°1 chiave per ER32 N°2 collet chucks ER25 N°5 collet chucks ER32 N°1 milling arbor D16 N°1 milling arbor D22 N°1 milling arbor D27 N°1 side lock holder Ø16 N°1 side lock holder Ø20 N°1 side lock holder Ø25 N°1 adaptor mills/drills MT2 N°1 adaptor mills/drills MT3 N°1 tap holder M3-M12 N°5 tap adaptors (Ø4.5-6-8-9-10) N°10 collets ER25 (Ø2 3 4 5 6 10 12 14 16) N°10 collets ER32 (Ø3 4 6 8 10 12 14 16 18 20) N°1 wrench ER25 N°1 wrench ER32



ISO 50

CODE DIN 69871	CODE MAS 403/BT	CODE DIN 2080	DESCRIZIONE DESCRIPTION
KIT MAN TC 50	KIT MAN BT 50	KIT MAN ISO 50	N°1 portapinze ER25 N°1 portapinze ER25 prolungato N°3 portapinze ER32 N°1 portapinze ER32 prolungato N°1 portafrese fisso D22 N°1 portafrese fisso D27 N°1 portafrese fisso D32 N°1 portafrese weldon Ø16 N°1 portafrese weldon Ø20 N°1 portafrese weldon Ø25 N°1 portafrese weldon Ø32 N°1 portapunte/frese CM2 N°1 portapunte/frese CM3 N°1 maschiatore M6-M20 N°5 bussole portamaschi (Ø6 8 10 12 16) N°10 pinze ER25 (Ø2 3 4 5 6 8 10 12 14 16) N°10 pinze ER32 (Ø3 4 6 8 10 12 14 16 18 20) N°1 chiave per ER25 N°1 chiave per ER32 N°1 collet chuck ER25 N°1 collet chuck ER25 extended N°3 collet chucks ER32 N°1 collet chuck ER32 extended N°1 milling arbor D22 N°1 milling arbor D27 N°1 milling arbor D32 N°1 side lock holder Ø16 N°1 side lock holder Ø20 N°1 side lock holder Ø25 N°1 side lock holder Ø32 N°1 adaptor mills/drills MT2 N°1 adaptor mills/drills MT3 N°1 tap holder M6-M20 N°5 tap adaptors (Ø6 8 10 12 16) N°10 collets ER25 (Ø2 3 4 5 6 8 10 12 14 16) N°10 collets ER32 (Ø3 4 6 8 10 12 14 16 18 20) N°1 wrench ER25 N°1 wrench ER32

KIT PORTAPINZE COLLET CHUCK KITS

DIN 6499



	CODE DIN 2080	CODE DIN 69871	CODE MAS 403 BT	DESCRIZIONE DESCRIPTION
ISO 30	KIT ISO30ER25	KIT TC30ER25	KIT BT30ER25	N°1 portapinze + 10 pinze ER25 + chiave N°1 collet chuck + 10 collets ER25 + wrench
	KIT ISO30ER32	KIT TC30ER32	KIT BT30ER32	N°1 portapinze + 10 pinze ER32 + chiave N°1 collet chuck + 10 collets ER32 + wrench
ISO 40	KIT ISO40ER25	KIT TC40ER25	KIT BT40ER25	N°1 portapinze + 10 pinze ER25 + chiave N°1 collet chuck + 10 collets ER25 + wrench
	KIT ISO40ER32	KIT TC40ER32	KIT BT40ER32	N°1 portapinze + 10 pinze ER32 + chiave N°1 collet chuck + 10 collets ER32 + wrench
	KIT ISO40ER40	KIT TC40ER40	KIT BT40ER40	N°1 portapinze + 10 pinze ER40 + chiave N°1 collet chuck + 10 collets ER40 + wrench
ISO 50	KIT ISO50ER25	KIT TC50ER25	KIT BT50ER25	N°1 portapinze + 10 pinze ER25 + chiave N°1 collet chuck + 10 collets ER25 + wrench
	KIT ISO50ER32	KIT TC50ER32	KIT BT50ER32	N°1 portapinze + 10 pinze ER32 + chiave N°1 collet chuck + 10 collets ER32 + wrench
	KIT ISO50ER40	KIT TC50ER40	KIT BT50ER40	N°1 portapinze + 10 pinze ER40 + chiave N°1 collet chuck + 10 collets ER40 + wrench

KIT PORTAPINZE CILINDRICI EXTENSION COLLET CHUCKS KIT



CODICE CODE	DESCRIZIONE DESCRIPTION
KIT PPC-ER16M	N°1 portapinze cilindrici Ø12x80 ER16M N°1 portapinze cilindrici Ø16x125 ER16M N°1 portapinze cilindrici Ø20x160 ER16M N°10 pinze ER16 (Ø1 2 3 4 5 6 7 8 9 10) N°1 chiave per ER16M N°1 extension collet chuck Ø12x80 ER16M N°1 extension collet chuck Ø16x125 ER16M N°1 extension collet chuck Ø20x160 ER16M N°10 collets ER16 (Ø1 2 3 4 5 6 7 8 9 10) N°1 wrench ER16M
KIT PPC-ER20M	N°1 portapinze cilindrici Ø16x100 ER20M N°1 portapinze cilindrici Ø20x120 ER20M N°1 portapinze cilindrici Ø25x160 ER20M N°10 pinze ER20 (Ø3 4 5 6 7 8 9 10 12 13) N°1 chiave per ER20M N°1 extension collet chuck Ø16x100 ER20M N°1 extension collet chuck Ø20x120 ER20M N°1 extension collet chuck Ø25x160 ER20M N°10 collets ER20 (Ø3 4 5 6 7 8 9 10 12 13) N°1 wrench ER20M
KIT PPC-ER25M	N°1 portapinze cilindrici Ø20x100 ER25M N°1 portapinze cilindrici Ø25x70 ER25M N°1 portapinze cilindrici Ø25x120 ER25M N°10 pinze ER25 (Ø2 3 4 5 6 8 10 12 14 16) N°1 chiave per ER25M N°1 extension collet chuck Ø20x100 ER25M N°1 extension collet chuck Ø25x70 ER25M N°1 extension collet chuck Ø25x120 ER25M N°10 collets ER25 (Ø2 3 4 5 6 8 10 12 14 16) N°1 wrench ER25M

KIT FORTE SERRAGGIO MILLING CHUCK KIT

Cassetta Corredo: 1 mandrino forte serraggio + 1 serie pinze + 1 chiave
Kit Box: 1 milling chuck + 1 collets kit + 1 wrench



	CODICE ORDINAZIONE Order Code	COMPOSIZIONE Composition
ISO 40	KIT BT40 C20	N°1 BT40 L105 C20 + n°5 pinze K20: Ø6,8,10,12,16
	KIT BT40 C32	N°1 BT40 L105 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25
	KIT TC40 C20	N°1 TC 40 L105 C20 + n°5 pinze K20: Ø6,8,10,12,16
	KIT TC40 C32	N°1 TC 40 L105 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25
	KIT ISO40 C32	N°1 ISO 40 L83 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25
ISO 50	KIT BT50 C20	N°1 BT 50 L105 C20 + n°5 pinze K20: Ø6,8,10,12,16
	KIT BT50 C32	N°1 BT 50 L105 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25
	KIT TC50 C20	N°1 TC 50 L105 C20 + n°5 pinze K20: Ø6,8,10,12,16
	KIT TC50 C32	N°1 TC 50 L105 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25
	KIT ISO50 C32	N°1 ISO 50 L85 C32 + n°7 pinze K32: Ø6,8,10,12,16,20,25

KIT IDRAULICO HYDRAULIC KIT

Cassetta Corredo: 1 mandrino "idraulico" + 1 serie pinze + 1 chiave
Kit Box: 1 hydraulic chuck + 1 collets kit + 1 wrench



CODICE ORDINAZIONE Order Code		COMPOSIZIONE Composition	
ISO 40	KIT BT40 G20	N°1 BT40 H90 G20-WO + n°5	pinze G20: Ø6,8,10,12,16
	KIT BT40 G32	N°1 BT40 H83 G32-WO + n°7	pinze G32: Ø10,12,14,16,18,20,25
	KIT TC40 G20	N°1 TC40 H80 G20-WO + n°5	pinze G20: Ø6,8,10,12,16
	KIT TC40 G32	N°1 TC40 H80 G32-WO + n°7	pinze G32: Ø10,12,14,16,18,20,25
ISO 50	KIT BT50 G20	N°1 BT50 H101 G20-WO + n°5	pinze G20: Ø6,8,10,12,16
	KIT BT50 G32	N°1 BT50 H101 G32-WO + n°7	pinze G32: Ø10,12,14,16,18,20,25
	KIT TC50 G20	N°1 TC50 H80 G20-WO + n°5	pinze G20: Ø6,8,10,12,16
	KIT TC50 G32	N°1 TC50 H81 G32-WO + n°7	pinze G32: Ø10,12,14,16,18,20,25

MANDRINI KINTEK : DATI TECNICI

Tutti i mandrini portautensili KINTEK vengono prodotti secondo le normative DIN (dette normative prevedono le stesse classi di tolleranza per gli attacchi DIN2080, DIN69871A e B, MAS BT)

TOLLERANZA DEL CONO

Prodotti in classe AT3.

COASSIALITA' PORTAPINZE

La norma DIN6391 ammette un'errore massimo di 0.016 sia per i portapinze DIN6499 che per DIN6388. La nostra produzione normalmente presenta errori notevolmente inferiori a tale tolleranza.

COASSIALITA'PORTAFRESE FISSI E COMBINATI

I portafrese fissi e combinati rispondono ai criteri prescritti dalla norma DIN6358, la quale prevede per i Ø16,22, 27,32 una coassialità di 0.01 per ISO 30/40
0.015 per ISO 50

COASSIALITA'PORTAFRESE WELDON

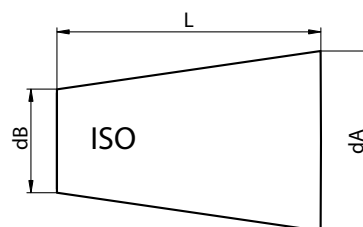
Secondo la normativa DIN 6359-1 il portafrese WELDON deve rispondere ai seguenti requisiti foro:

H5

coassialità: **<0.01** (per ISO 40)

Garantiamo la tolleranza prescritta sul foro e un valore di coassialità che è largamente al di sotto di quella prevista dalla norma (mediamente 0.005).

ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004



I mandrini TC e BT riportati nel presente catalogo sono equilibrati in grado G 6.3 8000 g/min. da progetto. Forniamo, a richiesta del cliente, mandrini correati di certificato di equilibratura nei gradi G 6,3 a 15.000 e 20.000 g/min. e in G 2.5 a 15.000/20.000 e 30.000 g/min.

KINTEK TOOLHOLDERS: TECHNICAL INFORMATION

All KINTEK toolholders are manufactured according to DIN norms (these DIN norms provide the same classes of tolerance for the attachment DIN2080, DIN69871A/B, MAS BT)

CONE'S TOLERANCE

According to the class AT3.

COLLET CHUCK'S RUNOUT ACCURACY

The norm DIN6391 permit a runout error between external cone and internal cone/collet seat of 0.016. Our collet chucks have a runout accuracy which is largely below the requested one.

SHELL END MILL ADAPTOR'S RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN6358, which prescribes for Ø16,22,27,32 a runout accuracy of: 0.01 for SK 30/40
0.015 for SK 50

END MILL HOLDER'S RUNOUT

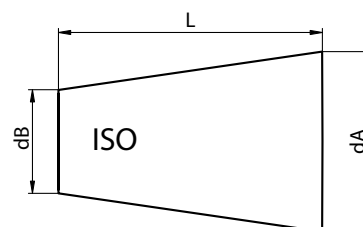
According to the Norm DIN6359-1 end mill holders have to meet the following requirements bore:

H5

runout accuracy: **<0.01**

Our end mill holders ensure the prescribed hole's tolerance and have a runout accuracy which is largely below the requested one (normally 0.005)

ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004



The DIN and BT toolholders, shown in the next pages can run up to 8000 rpm.

If the toolholder being ordered requires fine balancing, we can offer the following performances: Grade D 6.3 for 15.000 and 20.000 rpm and Grade G 2.5 for 15.000 or 20.000 or 30.000 rpm.(balance of the toolholder body only).

KINTEK STEILKEGELAUFNAHME: TECHNISCHE DATEN

Alle KINTEK Steilkegelaufnahme werden nach den DIN NORMEN angefertigt (diese DIN NORMEN sehen die gleichen Toleranzklassen für die Aufnahme DIN2080, 69871 A und B, MAS BT vor)

KEGELSCHAFTTOLERANZ

In Klasse AT3 angefertigt.

RUNDLAUFGENAUGKEIT SPANNZANGENAUFNAHME

Die Norm DIN6391 schreibt eine Rundlaufgenauigkeit zwischen Aussenkegel und Innenkegel/Spannzangensitz von 0.016. Unsere Spannanzgenfutter weisen einen Rundlauffehler, der unter dem vorgeschrieben Wert liegt.

AUFSTECKFRÄSDORNE RUNDLAUFGENAUGKEIT

KINTEK Aufsteckfräsdorne entsprechen der Norm DIN6358, die für Ø16,22,27,32 eine Rundlaufgenauigkeit von 0.01 für SK 30/40
0.015 für SK 50 vorsieht

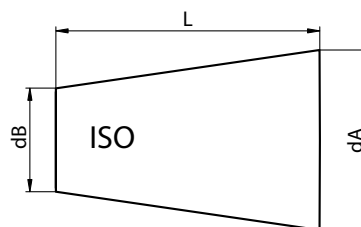
FRÄSERFUTTER WELDON

Nach der Norm DIN6359-1 müssen die Weldonaufnahme die folgenden Forderungen aufweisen:

Bohrung: **H5**
Rundlaufgenauigkeit: **<0.01**

KINTEK Weldonfutter garantieren die o.g. Toleranz bei der Bohrung und eine Rundlaufgenauigkeit, die unter dem vorgeschriebenen Wert liegt (im Durchschnitt um die 0.005)

ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004



Alle Steilkegelaufnahmen TC und BT von dieser Katalog sind vorgewuchtet G6.3 8000 U/Min.

Wir können nach Anfrage der Kunden ein Prüfprotokoll für Aufnahmen vorgewuchtet G 6.3 15000 und 20000 U/Min und feingewuchten G 2.5 15000/20000 und 30000 U/Min anbieten.

MANDRINS KINTEK: INFORMATIONS TECHNIQUES

Tous les mandrins porte-outils KINTEK sont produits suivant les spécifications DIN (c'est à dire que tous les tolérances des fixations DIN2080, DIN69871A et B, MAS BT doivent etre les meme)

TOLERANCES DU CONE

En classe AT3

CONCENTRICITE PORTE-PINCE

La tolérance de concentricité prévue da la spécification DIN6391 pour les porte-pinces est de 0.016 soi pour le porte-pinces DIN6388 que pour le DIN6499. Notre production normelement a une coaxialité qui est largement au-dessous de celle indiquées par la spécification.

CONCENTRICITE PORTE-FRAISES FIXE ET COMBINES

Les porte-fraises fixe et combines suivante les spécifications DIN6358,qui prévoit pour les diamètres 16,22,27,32 une concentricité de 0.01 pour ISO 30/40
0.015 pour ISO 50

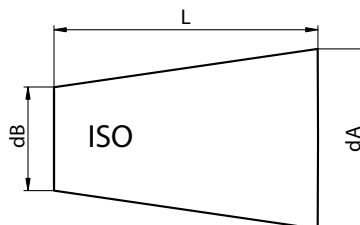
CONCENTRICITE PORTE-FRAISES WELDON

Suivante les spécifications DIN6359-1 le porte-fraise WELDON doit suivre les conditions suivants

Trou: **H5**
Coaxialité: **<0.01** (pour ISO 40)

Nous assurant les tolerances prevue sur le trou et une coaxialité qui est largement au-dessous de celle indiquées par la spécification (mediament 0.005)

ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004



Les mandrins DIN 69871 et MAS BT de cet catalogue sont équilibrés à 8000 Tr/Min en classe G. 6.3 selon projet.

Sur demande on peut fournir aussi les mandrins avec un certificat d'équilibrage pour: 15.000 et 20.000 Tr/Min en classe G. 6.3 et 15.000/20.000 et 30.000 en classe G. 2.5.

