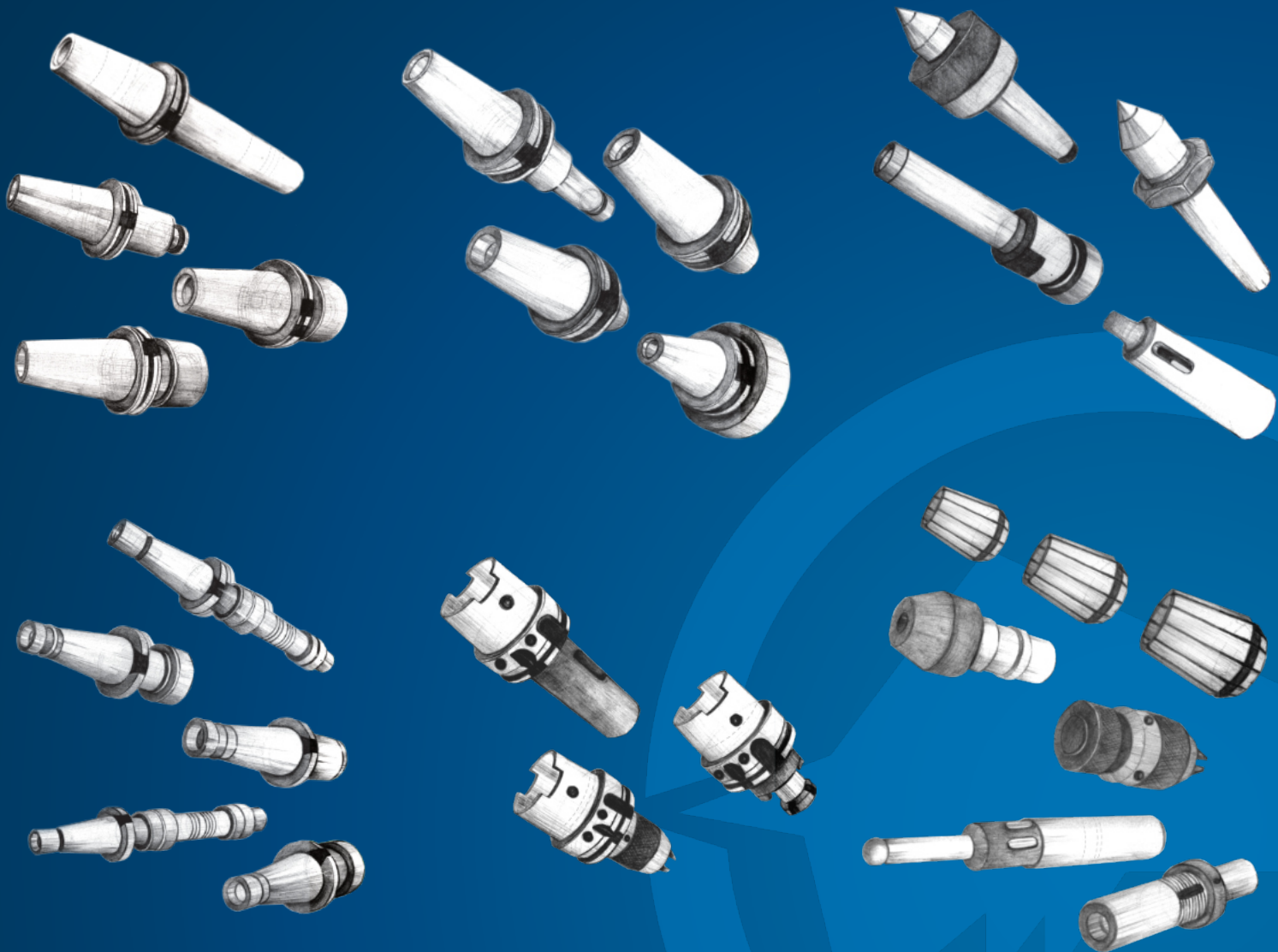




BISON

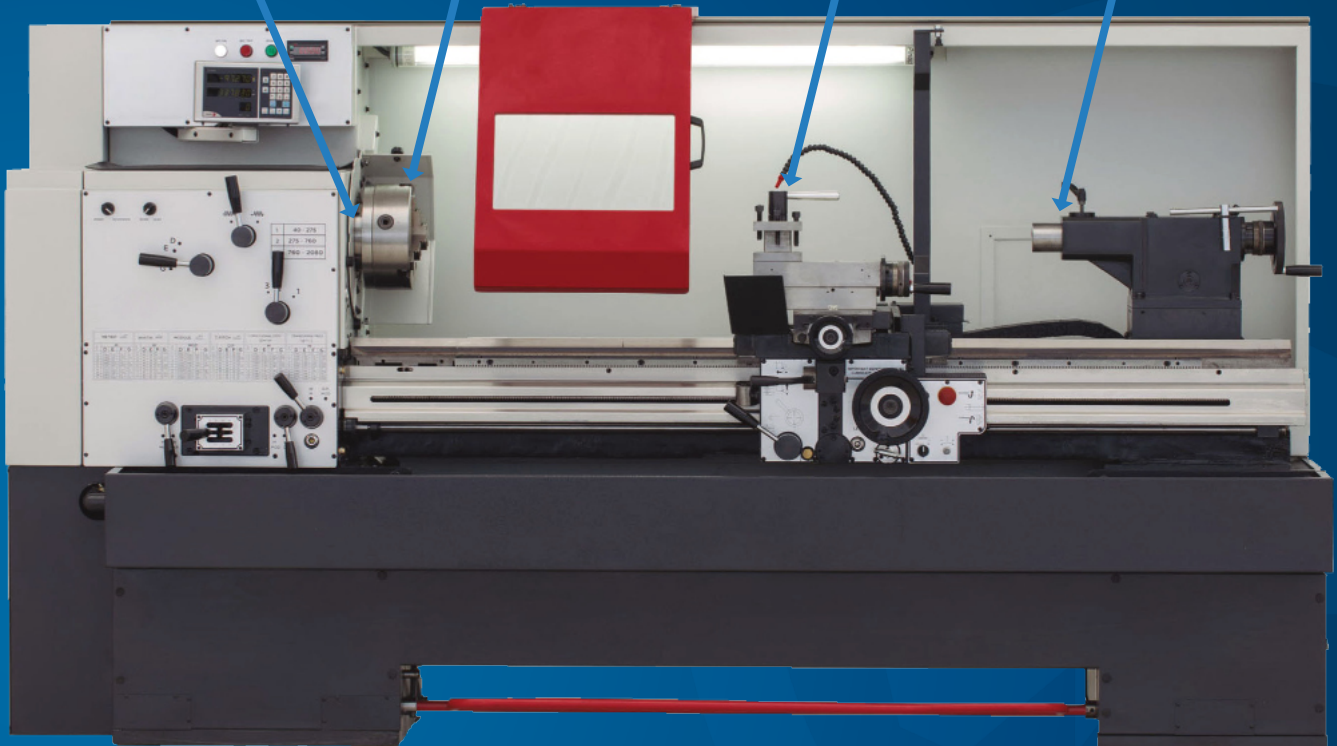
HUSILLOS *ATTACHMENTS*



BISON

- 1 PLATOS MANUALES Y AUTOMÁTICOS
MANDRINS MANUELS ET AUTOMATIQUES**
- 2 PUNTOS FIJOS Y GIRATORIOS
CONTRE-POINTES FIXES ET TOURNANTES**
- 3 MORDAZAS Y DISPOSITIVOS DE DIVISIÓN
ÉTAUX ET DIVISEURS**
- 4 PORTABROCAS
ATTACHMENTS**
*(HUSILLOS PORTAPINZAS, PORTABROCAS, PORTAFRESAS, WELDON, SEMI-ACABADOS,
CASQUILLOS REDUCTORES Y ALARGADORES, TORRETAS, VARIOS ACCESORIOS)
(MANDRINS À PINCES, DE PERÇAGE, PORTE-FRAISE, WELDON, DE BARRE D'ALESAGE,
DOUILLES DE REDUCTION ET D'EXTENSIONS, TOURELLES, DIVERS ACCESSOIRES)*

TUDO PARA EL TORNIO MANUAL TOUT POUR LE TOUR CONVENTIONNEL

1**PLATO MANUAL (AUTOCENTRANTE, INDEPENDIENTE, COMBINADO)****MANDRIN MANUEL (MANDRIN À SERRAGE CONCENTRIQUE, À MORS INDÉPENDANTS, À COMBINAISON)****1****CONTRAPLATO****FLASQUE D'ADAPTATION****TORRETAS PORTAHERRAMIENTAS A CAMBIO RÁPIDO**
TOURELLE PORTE-OUTIL À CHANGEMENT RAPIDE**4****PUNTOS
CONTRE-POINTES****2****2 AÑOS DE GARANTÍA
GARANTIE 2 ANS**

TODO PARA EL TORNIO CNC

TOUT POUR LE TOUR CNC

PLATO (AUTOCENTRANTE MANUAL / AUTOMÁTICO, INDEPENDIENTE, COMBINADO) 1
MANDRIN (MANDRIN À SERRAGE CONCENTRIQUE / AUTOMATIQUE, À MORS INDÉPENDANTS, À COMBINAISON)



1 **CONTRAPLATO**
FLASQUE D'ADAPTATION

4 **PORTABROCAS**
ATTACHMENTS

2 **PUNTOS**
CONTRE-POINTES

2 AÑOS DE GARANTÍA
GARANTIE 2 ANS

TODOS PARA LA FRESADORA EN 3 EJES

TOUT POUR LA FRAISE 3 AXES

**PORTABROCAS
ATTACHMENTS**

4

**PORTABROCAS
ATTACHMENTS**

4



3

**MORDAZAS
Y DISPOSITIVOS DE DIVISI3N**
ÉTAUX ET DIVISEURS

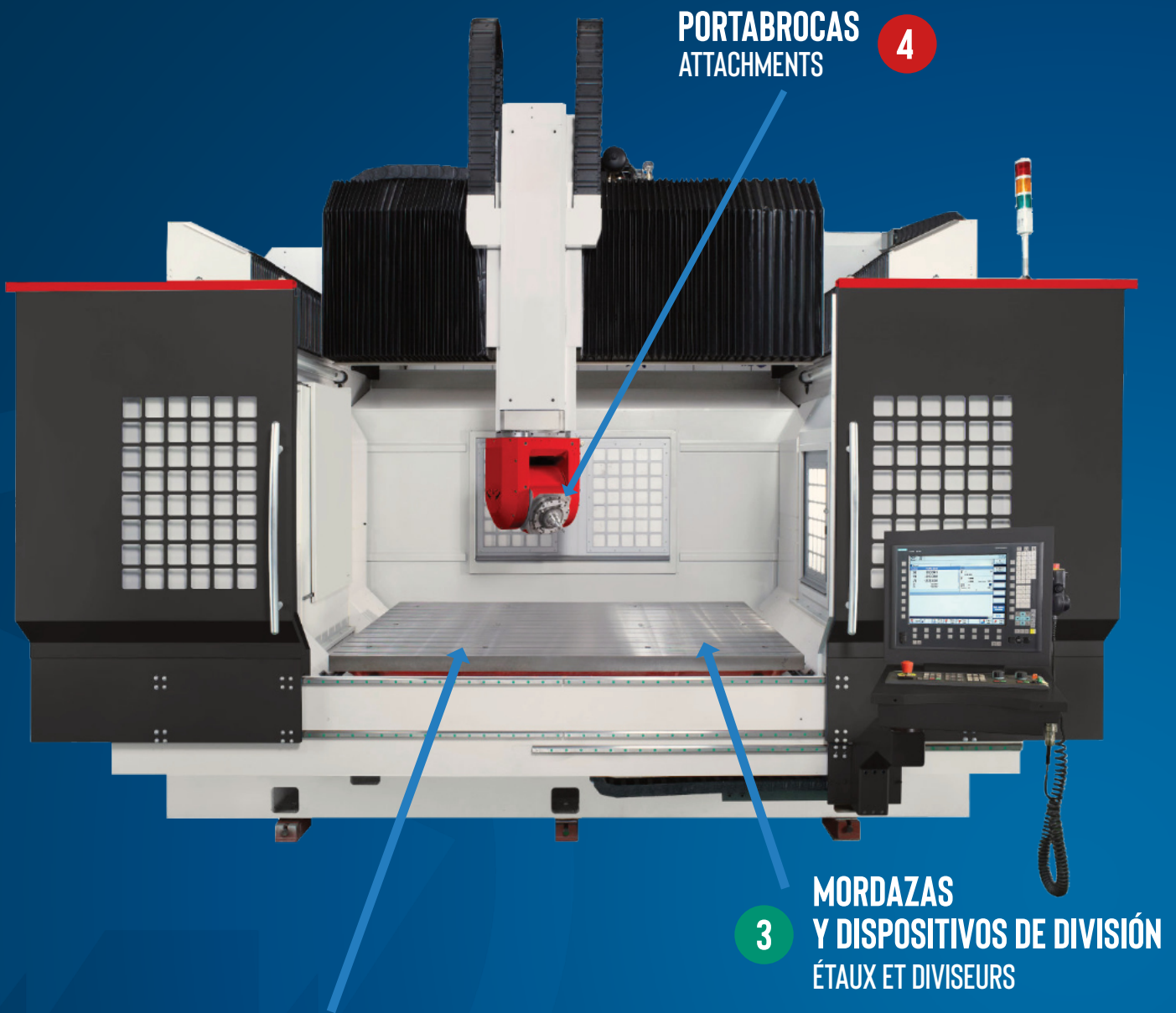
1

PLATO MANUAL (AUTOCENTRANTE, INDEPENDIENTE, COMBINADO)
MANDRIN MANUEL (MANDRIN À SERRAGE CONCENTRIQUE, À MORS INDÉPENDANTS, À COMBINAISON)

2 AÑOS DE GARANTÍA
GARANTIE 2 ANS

TUDO PARA LA FRESADORA EN 5 EJES

TOUT POUR LA FRAISE 5 AXES



1 PLATO MANUAL (AUTOCENTRANTE, INDEPENDIENTE, COMBINADO)
MANDRIN MANUEL (MANDRIN À SERRAGE CONCENTRIQUE, À MORS INDÉPENDANTS, À COMBINAISON)

2 AÑOS DE GARANTÍA
GARANTIE 2 ANS

DIN 69871

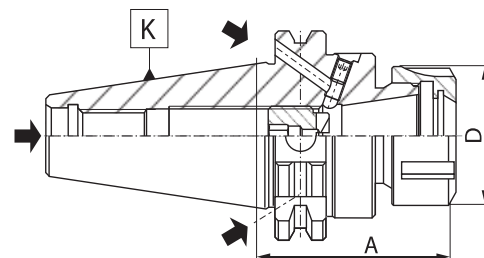


HUSILLOS PORTAPINZAS MANDRINS À PINGES

DIN 69871

7617 AD+B

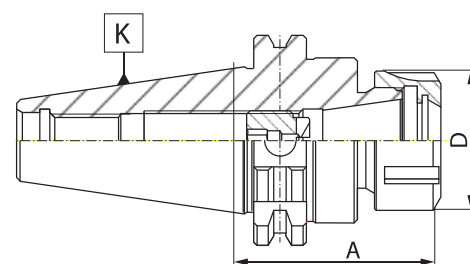
DOBLE LUBRICACIÓN
DOUBLE LUBRIFICATION



CODE	K (7:24)	TALLA TAILLE	A	D	RANGO DE SUJECIÓN GAMME DE SERRAGE
800001794	40	ER16	60	32	2-10
800001795	40	ER25	60	42	2-16
800006781	40	ER25	160	42	2-16
800001796	40	ER32	70	50	2-20
800001797	40	ER32	160	50	2-20
800001798	40	ER40	70	63	2-26
800001799	50	ER32	70	50	2-20
800001800	50	ER32	160	50	2-20
800001801	50	ER40	80	63	2-26
800001802	50	ER40	160	63	2-26

7617 AD

LUBRICACIÓN SIMPLE
LUBRIFICATION UNIQUE



CODE	K (7:24)	TALLA TAILLE	A	D	RANGO DE SUJECIÓN GAMME DE SERRAGE
800001784	30	ER16	60	32	2-10
800004678	30	ER25	60	32	2-10
800001785	30	ER32	60	50	2-20
800003335	40	ER16	60	32	2-10
800001786	40	ER25	60	42	2-16
800006760	40	ER25	100	42	2-16
800006564	40	ER25	130	42	2-16
800001787	40	ER32	70	50	2-20
800006782	40	ER32	100	50	2-20
800001788	40	ER32	130	50	2-20
800001789	40	ER40	70	63	2-26
800001790	50	ER32	70	50	2-20
800001791	50	ER32	130	50	2-20
800001792	50	ER40	80	63	2-26
800001793	50	ER40	130	63	2-26

HUSILLOS PORTAPINZAS MANDRINS À PINCES

DIN 69871

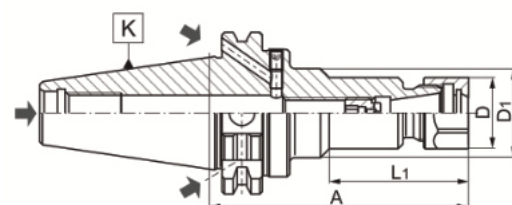
7617 KPL



CODE	K (7:24)	TALLA TAILLE	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	PINZAS INCLUIDAS PINCES INCLUS
800001811	30	ER16	60	2-10	8
800001812	30	ER32	60	2-20	18
800001813	40	ER25	60	2-16	14
800001814	40	ER32	70	2-20	18
800001815	40	ER32	130	2-20	18
800001816	40	ER40	70	2-26	24
800001817	50	ER32	70	2-20	18
800001818	50	ER32	130	2-20	18
800001819	50	ER40	80	2-26	24
800001820	50	ER40	130	2-26	24

7617-S AD+B

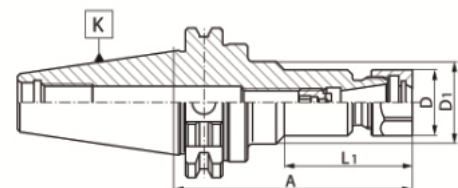
DOBLE LUBRICACIÓN
DOUBLE LUBRIFICATION



CODE	K (7:24)	TALLA TAILLE	A	L ₁	D	D ₁	RANGO DE SUJECIÓN GAMME DE SERRAGE
800001807	40	ER16	100	-	28	-	2-10
800001808	40	ER16	160	86	28	40	2-10
800001809	50	ER16	100	-	28	-	2-10
800001810	50	ER16	160	86	28	40	2-10

7617-S AD

LUBRICACIÓN SIMPLE
LUBRIFICATION UNIQUE



CODE	K (7:24)	TALLA TAILLE	A	L ₁	D	D ₁	RANGO DE SUJECIÓN GAMME DE SERRAGE
800001803	40	ER16	100	-	28	-	2-10
800001804	40	ER16	150	85	28	40	2-10
800001805	50	ER16	100	-	28	-	2-10
800001806	50	ER16	150	85	28	40	2-10

HUSILLOS PORTAFRESAS TIPO WELDON

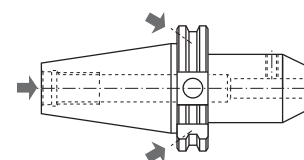
MANDRINS PORTE-FRAISE WELDON TYPE

DIN 69871

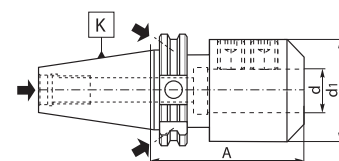
7625 AD+B

DOBLE LUBRICACIÓN
DOUBLE LUBRIFICATION

DRAWING 1



DRAWING 2



CODE	K (7:24)	d	d1	A	DRAWING
800002200	40	6	25	50	1
800002201	40	6	25	100	1
800002202	40	6	25	130	1
800002203	40	6	25	160	1
800002204	40	6	25	200	1
800002205	40	8	28	50	1
800002206	40	8	28	100	1
800002207	40	8	28	130	1
800002208	40	8	28	160	1
800002209	40	8	28	200	1
800002210	40	10	35	60	1
800002211	40	10	35	100	1
800002212	40	10	35	130	1
800002213	40	10	35	160	1
800002214	40	10	35	200	1
800002215	40	12	42	60	1
800002216	40	12	42	100	1
800002217	40	12	42	130	1
800002218	40	12	42	160	1
800002219	40	12	42	200	1
800002220	40	14	44	60	1
800002221	40	14	44	100	1
800002222	40	14	44	130	1
800002223	40	14	44	160	1
800002224	40	14	44	200	1
800002225	40	16	44.5	63	1
800002226	40	16	48	100	1
800002227	40	16	48	130	1
800002228	40	16	48	160	1
800002229	40	16	48	200	1
800002230	40	18	49.5	63	1
800002231	40	18	49.5	100	1
800002232	40	18	49.5	130	1
800002233	40	18	49.5	160	1
800002234	40	18	49.5	200	1
800002235	40	18	49.5	63	1
800002236	40	20	49.5	100	1
800002237	40	20	49.5	130	1
800002238	40	20	49.5	160	1
800002239	40	20	49.5	200	1
800002240	40	25	63	100	2
800002241	40	25	65	130	2
800002242	40	25	65	160	2
800002243	40	25	65	200	2
800002244	40	32	72	100	2
800002245	40	32	72	130	2
800002246	40	32	72	160	2
800002247	40	32	72	200	2
800003928	40	40	90	120	2
800002248	50	6	25	63	1
800002249	50	6	25	100	1
800002250	50	6	25	130	1
800002251	50	6	25	160	1

CODE	K (7:24)	d	d1	A	DRAWING
800002252	50	6	25	200	1
800002253	50	8	28	63	1
800002254	50	8	28	100	1
800002255	50	8	28	130	1
800002256	50	8	28	160	1
800002257	50	8	28	200	1
800002258	50	10	35.3	63	1
800002259	50	10	35	100	1
800002260	50	10	35	130	1
800002261	50	10	35	160	1
800002262	50	10	35	200	1
800002263	50	12	42	63	1
800002264	50	12	42	100	1
800002265	50	12	42	130	1
800002266	50	12	42	160	1
800002267	50	12	42	200	1
800002268	50	14	42	63	1
800002269	50	14	44	100	1
800002270	50	14	44	130	1
800002271	50	14	44	160	1
800002272	50	14	44	200	1
800002273	50	16	48	63	1
800002274	50	16	48	100	1
800002275	50	16	48	130	1
800002276	50	16	48	160	1
800002277	50	16	48	200	1
800002278	50	18	50	63	1
800002279	50	18	50	100	1
800002280	50	18	50	130	1
800002281	50	18	50	160	1
800002282	50	18	50	200	1
800002283	50	20	52	63	1
800002284	50	20	52	100	1
800002285	50	20	52	130	1
800002286	50	20	52	160	1
800002287	50	20	52	200	1
800002288	50	25	65	80	2
800002289	50	25	65	100	2
800002290	50	25	65	130	2
800002291	50	25	65	160	2
800002292	50	25	65	200	2
800002293	50	32	72	80	2
800002294	50	32	72	100	2
800002295	50	32	72	130	2
800002296	50	32	72	160	2
800002297	50	32	72	200	2
800002298	50	40	90	120	2
800002299	50	40	90	160	2
800002300	50	40	90	200	2
800002301	50	50	100	130	2
800002302	50	50	100	160	2
800002303	50	50	100	200	2

HUSILLOS PORTAFRESAS TIPO WELDON

MANDRINS PORTE-FRAISE WELDON TYPE

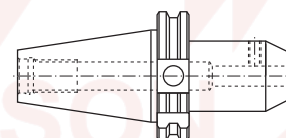
DIN 69871

7625 AD

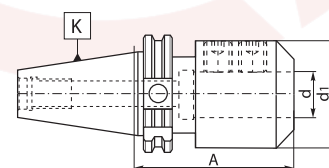
LUBRICACIÓN SIMPLE
LUBRIFICATION UNIQUE



DRAWING 1



DRAWING 2



CODE	K (7:24)	d	d1	A	DRAWING
800002140	30	6	25	50	1
800002141	30	8	28	50	1
800002142	30	10	35	50	1
800002143	30	12	42	50	1
800002144	30	16	44	63	1
800002145	30	20	44	63	1
800002146	40	6	25	30	1
800002147	40	6	25	50	1
800002148	40	6	25	100	1
800002149	40	6	25	130	1
800002150	40	8	28	30	1
800002151	40	8	28	50	1
800002152	40	8	28	100	1
800002153	40	8	28	130	1
800002154	40	10	35	32	1
800002155	40	10	35	50	1
800002156	40	10	35	100	1
800002157	40	10	35	130	1
800002158	40	12	42	34	1
800002159	40	12	42	50	1
800002160	40	12	42	100	1
800002161	40	12	42	130	1
800002162	40	14	44	34	1
800002163	40	14	44	50	1
800002164	40	14	44	63	1
800002165	40	16	44	35	1
800002166	40	16	44.5	63	1
800004848	40	16	48	100	1
800002167	40	18	44.5	63	1
800002168	40	20	44.5	35	1
800002169	40	20	44.5	63	1
800004849	40	20	52	100	1

CODE	K (7:24)	d	d1	A	DRAWING
800006826	40	25	44.5	35	2
800002170	40	25	44.5	60	2
800002171	40	25	63	100	2
800002172	40	32	72	70	2
800002173	40	32	72	100	2
800002174	50	6	25	63	1
800002175	50	6	25	130	1
800002176	50	8	28	63	1
800002177	50	8	28	130	1
800002178	50	10	35	63	1
800002179	50	10	35	130	1
800002180	50	12	42	63	1
800002181	50	12	42	130	1
800002182	50	14	44	63	1
800002183	50	16	48	63	1
800002184	50	16	48	100	1
800002185	50	16	48	130	1
800002186	50	18	50	63	1
800002187	50	20	52	35	1
800002188	50	20	52	63	1
800002189	50	20	52	130	1
800002190	50	25	69.9	60	2
800002191	50	25	65	80	2
800002192	50	25	65	130	2
800002193	50	32	69.9	70	2
800002194	50	32	72	100	2
800002195	50	32	72	130	2
800002196	50	32	72	160	2
800002197	50	40	80	100	2
800002198	50	40	90	120	2
800002199	50	50	100	130	2

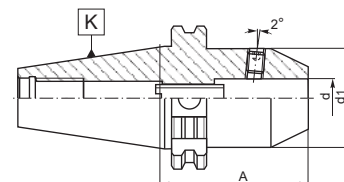
HUSILLOS PORTAFRESAS TIPO WHISTLE-NOTCH

MANDRINS PORTE-FRAISE WHISTLE-NOTCH TYPE

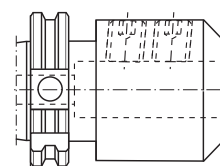
DIN 69871

7628 ADLUBRICACIÓN SIMPLE
LUBRIFICATION UNIQUE

DRAWING 1



DRAWING 2



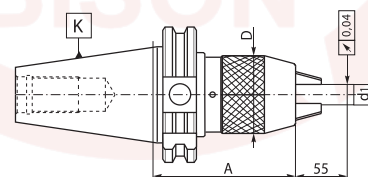
CODE	K (7:24)	d	d1	A	DRAWING
800002359	40	6	25	50	1
800002360	40	8	28	50	1
800002361	40	10	35	50	1
800002362	40	12	42	50	1
800002363	40	14	44	63	1
800002364	40	16	44	63	1
800002365	40	18	44	63	1
800002366	40	20	44	63	1
800002367	40	25	65	100	2
800002368	40	32	72	100	2
800002348	50	6	25	63	1
800002349	50	8	28	63	1
800002350	50	10	35	63	1
800002351	50	12	42	63	1
800002352	50	14	44	63	1
800002353	50	16	48	63	1
800002354	50	18	50	63	1
800002355	50	20	52	63	1
800002356	50	25	70	80	2
800002357	50	32	72	100	2
800002358	50	40	90	120	2

PORTABROCAS MANDRINS DE PERÇAGE

DIN 69871

**SIN LLAVE
SANS CLÉ**

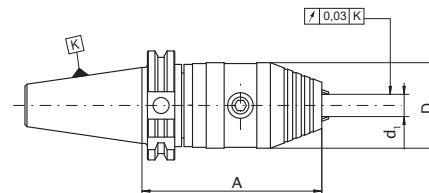
7655 A



CODE	K (7:24)	d1	A	D
800002390	40	1-13	87	50
800002391	40	3-16	106	57
800002392	50	1-13	87	50
800002393	50	3-16	90	57

**EN SENTIDO HORARIO Y ANTIHORARIO
DANS LE SENS HORAIRE ET ANTIHORAIRE**

7660



CODE	K (7:24)	d1	FORZA DI SERRAGGIO CLAMPING FORCE	A	D
800006585	40	1-13	40 Nm	105	50
800006586	40	3-16	40 Nm	105	50
800006587	50	1-13	40 Nm	105	50
800006588	50	3-16	40 Nm	105	50

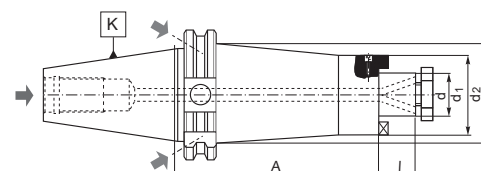
PORTAFRESAS DE AGUJERO LISO

MANDRINS PORTE-FRAISES

DIN 69871

7369 AD+B

DOBLE LUBRICACIÓN
DOUBLE LUBRIFICATION



CODE	K (7:24)	d	d1	d2	A	I
800001530	40	16	38	-	45	17
800001531	40	16	38	50	100	17
800001532	40	16	38	50	130	17
800001533	40	16	38	50	160	17
800001534	40	22	48	-	45	19
800001535	40	22	48	-	100	19
800001536	40	22	48	-	130	19
800001537	40	22	48	-	160	19
800001538	40	27	58	-	60	21
800001539	40	27	58	-	100	21
800001540	40	27	58	-	130	21
800001541	40	27	58	-	160	21
800001542	40	32	66	-	60	24
800001543	40	32	66	-	100	24
800001544	40	32	66	-	130	24
800001545	40	32	66	-	160	24
800001546	40	40	80	-	65	27
800001547	40	40	80	-	100	27
800001548	40	40	80	-	130	27
800001549	40	40	80	-	160	27
800001550	50	16	38	-	50	17
800001551	50	16	38	50	100	17
800001552	50	16	38	50	130	17
800001553	50	16	38	50	160	17
800001554	50	16	38	50	200	17

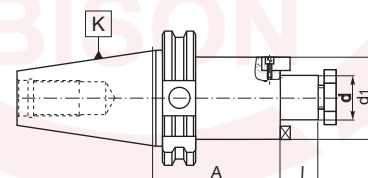
CODE	K (7:24)	d	d1	d2	A	I
800001555	50	22	48	-	50	19
800001556	50	22	48	62	100	19
800001557	50	22	48	62	130	19
800001558	50	22	48	62	160	19
800001559	50	22	48	62	200	19
800001560	50	27	58	-	55	21
800001561	50	27	58	70	100	21
800001562	50	27	58	70	130	21
800001563	50	27	58	70	160	21
800001564	50	27	58	70	200	21
800001565	50	32	66	-	60	24
800001566	50	32	66	80	100	24
800001567	50	32	66	80	130	24
800001568	50	32	66	80	160	24
800001569	50	32	66	80	200	24
800001570	50	40	80	-	65	27
800001571	50	40	80	-	100	27
800001572	50	40	80	-	130	27
800001573	50	40	80	-	160	27
800001574	50	40	80	-	200	27
800001575	50	50	90	-	70	30
800001576	50	50	90	-	100	30
800001577	50	50	90	-	130	30
800001578	50	50	90	-	160	30
800001579	50	50	90	-	200	30

HUSILLOS PORTAFRESAS DE AGUJERO LISO

MANDRINS PORTE-FRAISES

DIN 69871

7369 A

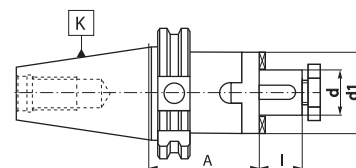


CODE	K (7:24)	d	A	I
800001506	30	16	35	17
800001507	30	22	35	19
800001508	30	27	60	21
800001509	30	32	60	24
800001510	40	16	60	17
800001511	40	16	120	17
800001512	40	22	60	19
800001513	40	22	120	19
800001514	40	27	60	21
800001515	40	27	120	21
800001516	40	32	60	24
800001517	40	32	120	24
800001518	40	40	60	27
800001519	50	16	60	17
800001520	50	16	110	17
800001521	50	22	60	19
800001522	50	22	110	19
800001523	50	27	60	21
800001524	50	27	110	21
800001525	50	32	60	24
800001526	50	32	110	24
800001527	50	40	60	27
800001528	50	40	110	27
800001529	50	50	60	30

HUSILLOS PORTAFRESAS COMBINADOS

MANDRINS PORTE-FRAISES COMBINÉE

DIN 69871

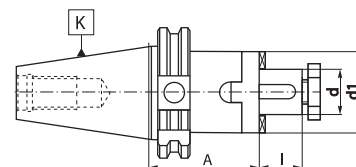
7301 A

CODE	K (7:24)	d	d1	A	I
800001374	40	16	32	55	17
800001375	40	22	40	55	19
800001376	40	27	48	55	21
800001377	40	32	58	60	24
800001378	40	40	70	60	27
800001379	50	16	32	55	17
800001380	50	22	40	55	19
800001381	50	27	48	55	21
800001382	50	32	58	55	24
800001383	50	40	70	55	27
800001384	50	50	90	70	30

HUSILLOS PORTAFRESAS CON CHAVETAS FRONTALES

MANDRINS PORTE-FRAISES POUR FRAISES À SURFACER

DIN 69871

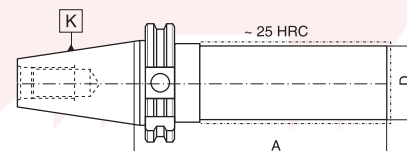
2827 A

CODE	K (7:24)	d	d1	d2	A	I
800000600	40	40	66.7	89	60	30
800000601	40	60	101.6	129	60	40
800000602	50	40	66.7	89	70	30
800000603	50	60	101.6	129	70	40

PORTA-HERRAMIENTAS SEMI-ACABADOS ÉBAUCHES DE BARRE D'ALÉSAGE

DIN 69871

2191 A

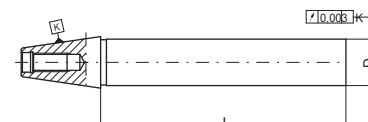


CODE	K (7:24)	D	A
800000566	40	40	280
800000569	40	63	280
800000571	50	50	330
800000574	50	80	330

MANDRIL DE INSPECCIÓN ARBRES DE COMMANDE

DIN 69871

2852

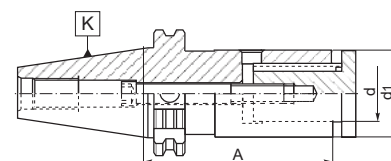


CODE	K (7:24)	D	L
800006692	40	40	300
800006693	50	50	300

ADAPTADORES PORTAFRESAS PARA FRESAS DE DISCO

MILL ARBORS POUR DISC MILLING CUTTERS

DIN 69871

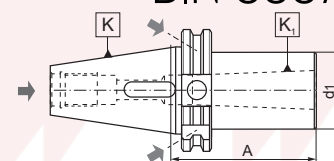
7373 A

CODE	K (7:24)	d	d1	A
800001596	40	16	29	95
800001597	40	16	29	125
800001598	40	22	36	95
800001599	40	22	36	125
800001600	40	27	42	95
800001601	40	27	42	125
800001602	40	32	50	95
800001603	40	32	50	125
800001604	50	22	36	100
800001605	50	22	36	125
800001606	50	27	42	100
800001607	50	27	42	125
800001608	50	32	50	100
800001609	50	32	50	125
800001610	50	40	58	100
800001611	50	40	58	125

ADAPTADORES COMBINADOS PARA CONO MORSE COMBINATION MORSE TAPER ADAPTERS

DIN 69871

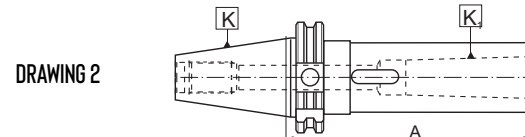
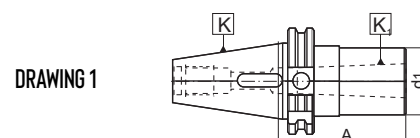
1681 AD+B



CODE	K (7:24)	K1 CM	d1	A
800000230	40	2	32	50
800000231	40	3 *	40	70
800000232	40	4 *	48	95
800000233	50	2	32	60
800000234	50	3	40	65
800000235	50	4	48	95
800000236	50	5 *	63	120

* SÓLO PARA HERRAMIENTAS CON CONO MORSE Y ESPIGA DIN 228-B
* SEULEMENT POUR PORTE-OUTILS AVEC MORSE TAPER ET DIN 228-B TANG

1681 AD



CODE	K (7:24)	K1 CM	d1	A	DRAWING
800000209	30	1	25	50	1
800000210	30	2 *	32	60	1
800000211	30	3 *	40	80	1
800000212	40	1	25	50	1
800000214	40	2	32	50	1
800000216	40	3 *	40	70	1
800000218	40	4 *	48	95	1
800000213	40	1	25	120	2
800000215	40	2	32	120	2
800000217	40	3 *	40	135	2
800000219	40	4 *	48	165	2
800000220	50	1	63	45	1
800000222	50	2	25	60	1
800000224	50	3	32	65	1
800000226	50	4	48	95	1
800000228	50	5 *	63	105	1
800000221	50	1	25	120	2
800000223	50	2	32	135	2
800000225	50	3	40	155	2
800000227	50	4	48	180	2
800000229	50	5 *	63	215	2

* SÓLO PARA HERRAMIENTAS CON CONO MORSE Y ESPIGA DIN 228-B
* SEULEMENT POUR PORTE-OUTILS AVEC MORSE TAPER ET DIN 228-B TANG

ADAPTADORES DE CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO

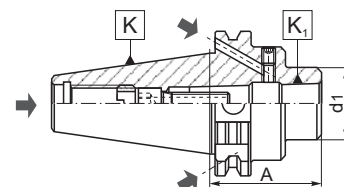
ADAPTATEURS À CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

DIN 69871

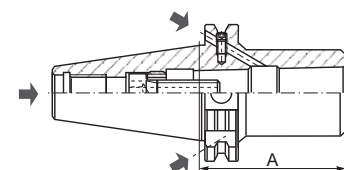
1695 AD+B



DRAWING 1



DRAWING 2

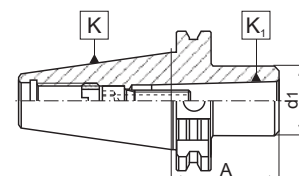


CODE	K (7:24)	K ₁ CM	d ₁	A	DRAWING
800000278	40	2	32	50	1
800000279	40	3	40	70	2
800000280	40	4	48	95	2
800000281	50	2	32	60	1
800000282	50	3	40	65	1
800000283	50	4	48	95	1
800000284	50	5	63	120	2

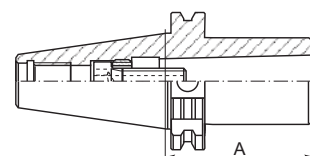
1695 AD



DRAWING 1



DRAWING 2



CODE	K (7:24)	K ₁ CM	d ₁	A	DRAWING
800000266	30	1	25	50	1
800000267	30	2	32	60	2
800000268	30	3	40	85	2
800000269	40	1	25	50	1
800000270	40	2	32	50	1
800000271	40	3	40	70	2
800000272	40	4	48	95	2
800000273	50	1	25	45	1
800000274	50	2	32	60	1
800000275	50	3	40	65	1
800000276	50	4	48	95	1
800000277	50	5	63	120	2

ADAPTADORES DE CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO

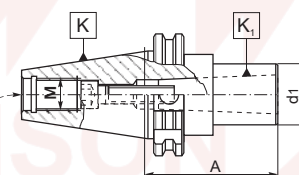
ADAPTATEURS À CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

DIN 69871

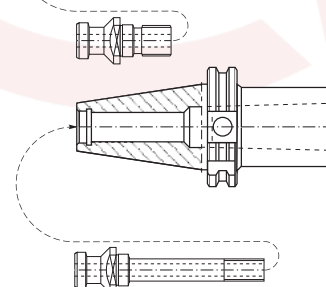
1682 A



DRAWING 1



DRAWING 2



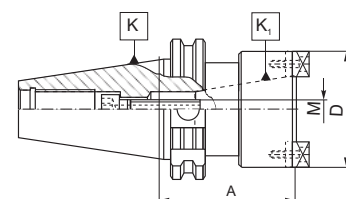
CODE	K (7:24)	K ₁ CM	d ₁	A	M	DRAWING
800000237	40	1	25	45	M16	1
800000238	40	2	32	60	M16	1
800000239	40	3	40	75	—	2
800000240	40	4	48	85	—	2
800000241	50	1	25	45	M24	1
800000242	50	2	32	45	M24	1
800000243	50	3	40	60	M24	1
800000244	50	4	48	75	M24	1
800000245	50	5	63	75	—	2

REDUCTORES PARA ACOPLAMIENTOS CÓNICOS

REDUCTION ADAPTERS POUR 7:24 TAPERS

DIN 69871

1684 AD



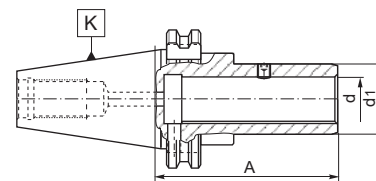
CODE	K (7:24)	K ₁ (7:24)	A	D	M
800000246	50	40	80	88	M16

ADAPTADORES PARA SOPORTES AJUSTABLES

ADJUSTABLE ADAPTER HOLDERS

DIN 69871

1606 AD



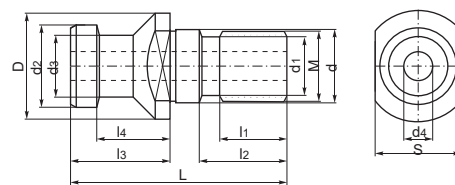
CODE	K	d	d1	A
800000066	40	16	25	75
800000067	40	20	32	80
800000068	40	28	40	100
800000069	40	36	50	115
800000070	50	16	25	85
800000071	50	20	32	85
800000072	50	28	40	100
800000073	50	36	50	100
800000074	50	48	67	105

TIRANTES CON AGUJERO

TIRANTS AVEC TROU

DIN 69871

9882 A



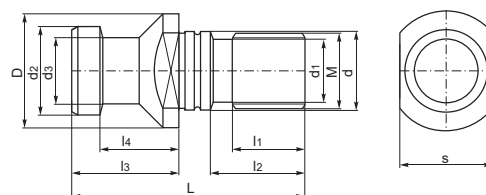
CODE	TALLA TAILLE	L	D	d	d1	d2	d3	d4	M	l1	l2	l3	l4	S
800000066	30	44	17	13	10	13	9	3	M12	10	15	24	19	14
800000067	40	54	23	17	13.5	19	14	7	M16	15	21	26	20	19
800000068	40	85	23	17	8.5	19	14	4	M10	10	52	26	20	19
800000069	40	110	23	17	10	19	14	5	M12	12	77	26	20	19
800000070	40	86	23	17	13.5	19	14	7	M16	15	53	26	20	19
800000071	40	111	23	17	13.5	19	14	7	M16	15	78	26	20	19
800000072	40	108	23	17	13.5	19	14	7	M16	15	75	26	20	19
800000073	50	74	36	25	20	28	21	11.5	M24	23	30	34	25	30
800000074	50	110	36	25	16.5	28	21	7	M20	23	66	34	25	30

TIRANTES SIN AGUJERO

TIRANTS SANS TROU

DIN 69871

9882 A



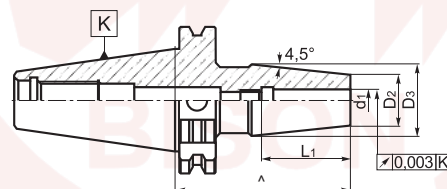
CODE	TALLA TAILLE	L	D	d	d1	d2	d3	M	l1	l2	l3	l4	S
800003004	30	44	17	17	13	10	9	M12	10	15	24	19	14
800003005	40	54	23	23	17	13.5	14	M16	15	21	26	20	19
800003006	50	74	36	36	25	20	21	M24	23	30	34	25	30

PORTA-HERRAMIENTAS TERMICOS

PORTE-OUTILS THERMIQUES

DIN 69871

7630



CODE	K (7:24)	d1	D2	D3	L	L1
800006333	40	3	14	22	80	36
800006334	40	3	14	22	120	36
800006335	40	3	14	22	160	36
800006336	40	4	14	22	80	36
800006337	40	4	14	22	120	36
800006338	40	4	15	22	160	36
800006339	40	5	16	22	80	36
800006340	40	5	16	22	120	36
800006341	40	5	16	22	160	36
800006342	40	6	21	27	80	36
800006343	40	6	21	27	120	36
800006344	40	6	21	27	160	36
800006345	40	8	21	27	80	36
800006346	40	8	21	27	120	36
800006347	40	8	21	27	160	36
800006348	40	10	24	32	80	42
800006349	40	10	24	32	120	42
800006350	40	10	24	32	160	42
800006351	40	12	24	32	80	47
800006352	40	12	24	32	120	47
800006353	40	12	24	32	160	47
800006354	40	14	27	34	80	47
800006355	40	14	27	34	120	47
800006356	40	14	27	34	160	47
800006357	40	16	27	34	80	50
800006358	40	16	27	34	120	50
800006359	40	16	27	34	160	50
800006360	40	18	33	42	80	50
800006361	40	18	33	42	120	50
800006362	40	18	33	42	160	50
800006363	40	20	33	42	80	52
800006364	40	20	33	42	120	52
800006365	40	20	33	42	160	52
800006366	40	25	44	53	100	58
800006367	40	25	44	53	120	58

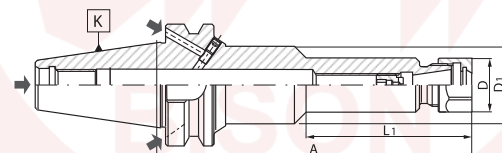
CODE	K (7:24)	d1	D2	D3	L	L1
800006368	50	25	44	53	160	58
800006369	50	32	44	53	100	58
800006370	50	32	44	53	120	58
800006371	50	32	44	53	160	58
800006372	50	6	21	27	80	36
800006373	50	6	21	27	120	36
800006374	50	6	21	27	160	36
800006375	50	8	21	27	80	36
800006376	50	8	21	27	120	36
800006377	50	8	21	27	160	36
800006378	50	10	24	32	80	42
800006379	50	10	24	32	120	42
800006380	50	10	24	32	160	42
800006381	50	12	24	32	80	47
800006382	50	12	24	32	120	47
800006383	50	12	24	32	160	47
800006384	50	14	27	34	80	47
800006385	50	14	27	34	120	47
800006386	50	14	27	34	160	47
800006387	50	16	27	34	80	50
800006388	50	16	27	34	120	50
800006389	50	16	27	34	160	50
800006390	50	18	33	42	80	50
800006391	50	18	33	42	120	50
800006392	50	18	33	42	160	50
800006393	50	20	33	42	80	52
800006394	50	20	33	42	120	52
800006395	50	20	33	42	160	52
800006396	50	25	44	53	100	58
800006397	50	25	44	53	120	58
800006398	50	25	44	53	160	58
800006399	50	32	44	53	100	58
800006400	50	32	44	53	120	58
800006401	50	32	44	53	160	58

MAS 403-BT



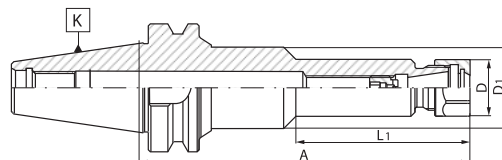
PORTAPINZAS PARA PINZAS ER - LINEA SLIM MANDRINS À PINGES POUR PINGES ER - SLIM LINE MAS 403-BT

7626-S AD+B



CODE	K (7:24)	TALLA PINZAS TAILLE DES PINGES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	D
800002304	30	ER16	60	2-10	32
800003719	30	ER25	60	2-16	42
800002305	30	ER32	60	2-20	50
800003720	40	ER25	60	2-10	32
800002306	40	ER25	60	2-16	42
800004914	40	ER25	100	2-16	42
800006783	40	ER25	130	2-16	42
800002307	40	ER32	70	2-20	50
800006785	40	ER32	100	2-20	50
800002308	40	ER32	130	2-20	50
800002309	40	ER40	70	2-26	63
800002310	40	ER40	80	2-26	63
800002311	50	ER32	70	2-20	50
800002312	50	ER32	130	2-20	50
800002313	50	ER40	80	2-26	63
800002451	50	ER40	130	2-26	63

7626-S



CODE	K (7:24)	TALLA PINZAS TAILLE DES PINGES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	D
800002452	40	ER16	60	2-10	32
800002453	40	ER25	60	2-16	42
800006784	40	ER25	160	2-16	42
800002454	40	ER32	70	2-20	50
800002455	40	ER32	160	2-20	50
800002456	40	ER40	70	2-26	63
800002457	50	ER32	70	2-20	50
800002458	50	ER32	160	2-20	50
800002459	50	ER40	80	2-26	63
800002460	50	ER40	160	2-26	63

PORTAPINZAS PARA PINZAS ER - KIT

MANDRINS À PINCES POUR PINCES ER - KITS

MAS 403-BT



7626 KPL

JUEGO COMPLETO KIT COMPLET

CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS INCLUIDAS N. OF PINCES INCLUS
800002469	30	ER16	60	2-10	8
800002470	30	ER32	60	2-20	18
800002471	40	ER25	60	2-16	14
800002472	40	ER32	70	2-20	18
800002314	40	ER32	130	2-20	18
800002315	40	ER40	70	2-26	24
800002316	50	ER32	70	2-20	18
800002317	50	ER32	130	2-20	18
800002318	50	ER40	80	2-26	24
800002319	50	ER40	130	2-26	24

7626 PL

JUEGO PARCIAL KIT PARTIEL

CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS INCLUIDAS N. OF PINCES INCLUS
800002324	30	ER32	60	3-20	8
800002325	40	ER32	70	3-20	8
800002326	50	ER32	70	3-20	8

7626-S PL

KIT PARZIALE - LINEA SLIM KIT PARTIEL - SLIM LINE

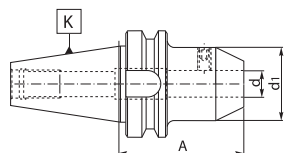
CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS INCLUIDAS N. OF PINCES INCLUS
800002320	40	ER16	100	2-10	8
800002321	40	ER16	150	2-10	8
800002322	50	ER16	100	2-10	8
800002323	50	ER16	150	2-10	8

HUSILLOS PORTAFRESAS TIPO WELDON

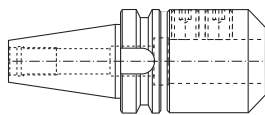
MANDRINS PORTE-FRAISE WELDON TYPE

MAS 403-BT

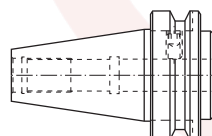
7624



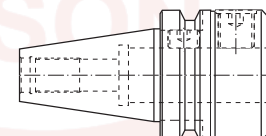
1



2



3



4

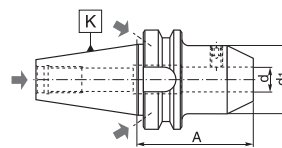
CODE	K (7:24)	A	d	d1	DRAWING
800002001	30	50	6	25	1
800002002	30	50	8	28	1
800002003	30	50	10	35	1
800002004	30	50	12	42	1
800002005	30	63	16	48	1
800002006	30	63	20	52	1
800002007	40	35	6	25	1
800002008	40	50	6	25	1
800002009	40	35	8	28	3
800002010	40	50	8	28	1
800002011	40	37	10	35	3
800002012	40	63	10	35	1
800002013	40	37	12	42	3
800002014	40	63	12	42	1
800002015	40	37	14	44	3
800002016	40	63	14	44	1
800002017	40	37	16	48	3
800002018	40	63	16	48	1
800002020	40	37	20	50	3
800002021	40	63	20	50	1
800002022	40	60	25	63	4
800002023	40	90	25	63	2
800002024	40	65	32	72	4
800002025	40	100	32	72	2
800002026	50	63	6	25	1
800002027	50	63	8	28	1
800002028	50	63	10	35	1
800002029	50	80	12	42	1
800002030	50	80	14	44	1
800002031	50	80	16	48	1
800002032	50	40	20	52	3
800002033	50	80	20	52	1
800002034	50	60	25	63	4
800002035	50	100	25	63	2
800002036	50	70	32	72	4
800002037	50	105	32	72	2
800002038	50	120	40	90	2
800002039	50	130	50	100	2

HUSILLOS PORTAFRESAS TIPO WELDON

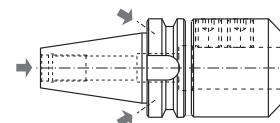
MANDRINS PORTE-FRAISE WELDON TYPE

MAS 403-BT

7624 AD+B



1



2

CODE	K (7:24)	d	d1	A	DRAWING
800002040	40	6	25	50	1
800002041	40	6	25	100	1
800002042	40	6	25	130	1
800002043	40	6	25	160	1
800002044	40	6	25	200	1
800002045	40	8	28	50	1
800002046	40	8	28	100	1
800002047	40	8	28	130	1
800002048	40	8	28	160	1
800002049	40	8	28	200	1
800002050	40	10	35	60	1
800002051	40	10	35	100	1
800002052	40	10	35	130	1
800002053	40	10	35	160	1
800002054	40	10	35	200	1
800002055	40	12	42	60	1
800002056	40	12	42	100	1
800002057	40	12	42	130	1
800002058	40	12	42	160	1
800002059	40	12	42	200	1
800002060	40	14	44	60	1
800002061	40	14	44	100	1
800002062	40	14	44	130	1
800002063	40	14	44	160	1
800002064	40	14	44	200	1
800002065	40	16	48	63	1
800002066	40	16	48	100	1
800002067	40	16	48	130	1
800002068	40	16	48	160	1
800002069	40	16	48	200	1
800002070	40	18	49.5	63	1
800002071	40	18	49.5	100	1
800002072	40	18	49.5	130	1
800002073	40	18	49.5	160	1
800002074	40	18	49.5	200	1
800002075	40	20	49.5	63	1
800002076	40	20	49.5	100	1
800002077	40	20	49.5	130	1
800002078	40	20	49.5	160	1
800002079	40	20	49.5	200	1
800002080	40	25	63	100	2
800002081	40	25	63	130	2
800002082	40	25	63	160	2
800002083	40	25	63	200	2
800002084	40	32	72	100	2
800002085	40	32	72	130	2
800002086	40	32	72	160	2
800002087	40	32	72	200	2
800002088	50	6	25	63	1
800002089	50	6	25	100	1
800002090	50	6	25	130	1
800002091	50	6	25	160	1
800002092	50	6	25	200	1
800002093	50	8	28	63	1

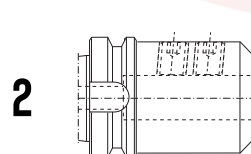
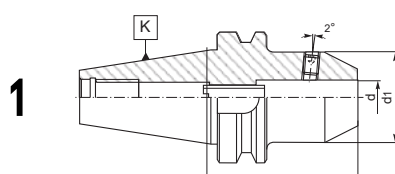
CODE	K (7:24)	d	d1	A	DRAWING
800002094	50	8	28	100	1
800002095	50	8	28	130	1
800002096	50	8	28	160	1
800002097	50	8	28	200	1
800002098	50	10	35	70	1
800002099	50	10	35	100	1
800002100	50	10	35	130	1
800002101	50	10	35	160	1
800002102	50	10	35	200	1
800002103	50	12	42	80	1
800002104	50	12	42	100	1
800002105	50	12	42	130	1
800002106	50	12	42	160	1
800002107	50	12	42	200	1
800002108	50	14	44	80	1
800002109	50	14	44	100	1
800002110	50	14	44	130	1
800002111	50	14	44	160	1
800002112	50	14	44	200	1
800002113	50	16	48	80	1
800002114	50	16	48	100	1
800002115	50	16	48	130	1
800002116	50	16	48	160	1
800002117	50	16	48	200	1
800002118	50	18	50	80	1
800002119	50	18	50	100	1
800002120	50	18	50	130	1
800002121	50	18	50	160	1
800002122	50	18	50	200	1
800002123	50	20	52	80	1
800002124	50	20	52	100	1
800002125	50	20	52	130	1
800002126	50	20	52	160	1
800002127	50	20	52	200	1
800002128	50	25	65	100	2
800002129	50	25	65	130	2
800002130	50	25	65	160	2
800002131	50	25	65	200	2
800002132	50	32	72	105	2
800002133	50	50	72	130	2
800002134	50	32	72	160	2
800002135	50	32	72	200	2
800002136	50	40	90	120	2
800002137	50	40	90	160	2
800002138	50	40	90	200	2

HUSILLOS PORTAFRESAS TIPO WHISTLE-NOTCH

WHISTLE-NOTCH TYPE MANDRINS PORTE-FRAISE

MAS 403-BT

7624 AD+B



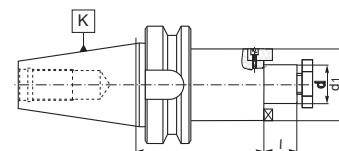
CODE	K (7:24)	A	d	d1	DRAWING
800002369	40	50	6	25	1
800002370	40	50	8	28	1
800002371	40	63	10	35	1
800002372	40	63	12	42	1
800002373	40	63	14	44	1
800002374	40	63	16	48	1
800002375	40	63	18	50	1
800002376	40	63	20	52	1
800002377	40	90	25	65	2
800002378	40	100	32	72	2
800002379	50	63	6	25	1
800002380	50	63	8	28	1
800002381	50	65	10	35	1
800002382	50	80	12	42	1
800002383	50	80	14	44	1
800002384	50	80	16	48	1
800002385	50	80	18	50	1
800002386	50	80	20	52	1
800002387	50	100	25	65	2
800002388	50	105	32	72	2
800002389	50	120	40	90	2

HUSILLOS PORTAFRESAS DE AGUJERO LISO

MANDRINS PORTE-FRAISES ALÉSAGE LISSE

MAS 403-BT

7388



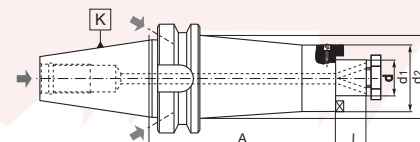
CODE	K (7:24)	A	d	d1	l
800001612	30	43	16	32	17
800001613	30	43	22	40	19
800001614	30	43	27	48	21
800001615	30	45	32	58	24
800001616	40	52	16	32	17
800001617	40	120	16	32	17
800001618	40	52	22	40	19
800001619	40	120	22	40	19
800001620	40	52	27	48	21
800001621	40	120	27	48	21
800001622	40	52	32	58	24
800001623	40	120	32	58	24
800001624	40	60	40	80	17
800001625	50	65	16	32	17
800001626	50	110	16	32	17
800001627	50	65	22	40	19
800001628	50	110	22	40	19
800001629	50	65	27	48	21
800001630	50	110	27	48	21
800001631	50	65	32	58	24
800001632	50	110	32	58	24
800001633	50	78	40	70	27
800001634	50	110	40	70	27
800001635	50	78	50	90	30

HUSILLOS PORTAFRESAS DE AGUJERO LISO

MANDRINS PORTE-FRAISES ALÉSAGE LISSE

MAS 403-BT

7388 AD+B



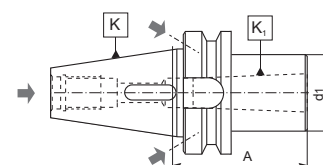
CODE	K (7:24)	d	d1	d2	A	l
800001636	40	16	38	-	45	17
800001637	40	16	38	50	100	17
800001638	40	16	38	50	130	17
800001639	40	16	38	50	160	17
800001640	40	22	48	-	45	19
800001641	40	22	48	-	100	19
800001642	40	22	48	-	130	19
800001643	40	22	48	-	160	19
800001644	40	27	58	-	50	21
800001645	40	27	58	-	100	21
800001646	40	27	58	-	130	21
800001647	40	27	58	-	160	21
800001648	40	32	66	-	55	24
800001649	40	32	66	-	100	24
800001650	40	32	66	-	130	24
800001651	40	32	66	-	160	24
800001652	40	40	80	-	60	27
800001653	40	40	80	-	100	27
800001654	40	40	80	-	130	27
800001655	40	40	80	-	160	27
800001656	50	16	38	-	55	17
800001657	50	16	38	50	100	17
800001658	50	16	38	50	130	17
800001659	50	16	38	50	160	17
800001660	50	16	38	50	200	17
800001661	50	22	48	-	55	19
800001662	50	22	48	62	100	19
800001663	50	22	48	62	130	19
800001664	50	22	48	62	160	19
800001665	50	22	58	62	200	19
800001666	50	27	58	-	60	21
800001667	50	27	58	76	100	21
800001668	50	27	58	76	130	21
800001669	50	27	58	76	160	21
800001670	50	27	58	76	200	21
800001671	50	32	66	-	65	24
800001672	50	32	66	80	100	24
800001673	50	32	66	80	130	24
800001674	50	32	66	80	160	24
800001675	50	40	66	80	200	24
800001676	50	40	80	-	70	27
800001677	50	40	80	-	100	27
800001678	50	40	80	-	130	27
800001679	50	40	80	-	160	27
800001680	50	40	80	-	200	27
800001681	50	50	90	-	70	30
800001682	50	50	90	-	100	30
800001683	50	50	90	-	130	30
800001684	50	50	90	-	160	30
800001685	50	50	90	-	200	30

ADAPTADORES COMBINADOS CON CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO

ADAPTATEURS COMBINÉS AVEC CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

MAS 403-BT

1661 AD+B

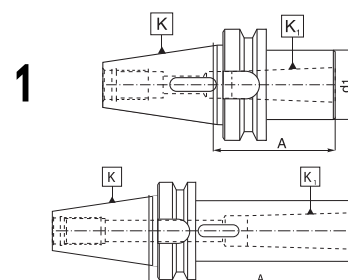


CODE	K (7:24)	K1 CM	A	d1
800000147	40	2	50	32
800000148	40	3 *	70	40
800000149	40	4 *	95	48
800000150	50	2	60	32
800000151	50	3	65	40
800000152	50	4	95	48
800000153	50	5 *	120	63

* SÓLO PARA HERRAMIENTAS CON CONO MORSE Y ESIPIGA DIN 228-B

* UNIQUEMENT POUR LES OUTILS À CÔNE MORSE ET À TENON DIN 288-B

1661 AD+B



CODE	K (7:24)	K1 CM	A	d1	DRAWING
800000126	30	1	50	25	1
800000127	30	2 *	60	32	1
800000128	30	3 *	79	40	1
800000129	40	1	50	25	1
800000131	40	2	50	32	1
800000133	40	3 *	70	40	1
800000135	40	4 *	95	48	1
800000130	40	1	120	25	2
800000132	40	2	120	32	2
800000134	40	3 *	135	40	2
800000136	40	4 *	165	48	2
800000137	50	1	45	25	1
800000139	50	2	60	32	1
800000141	50	3	65	40	1
800000143	50	4	95	48	1
800000145	50	5 *	105	63	1
800000138	50	1	120	25	2
800000140	50	2	135	32	2
800000142	50	3	155	40	2
800000144	50	4	180	48	2
800000146	50	5 *	215	63	2

* SÓLO PARA HERRAMIENTAS CON CONO MORSE Y ESIPIGA DIN 228-B

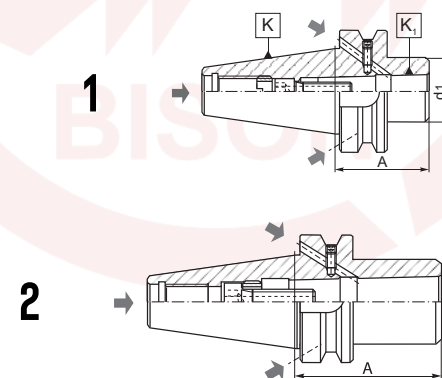
* UNIQUEMENT POUR LES OUTILS À CÔNE MORSE ET À TENON DIN 288-B

ADAPTADORES DE CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO

ADAPTATEURS À CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

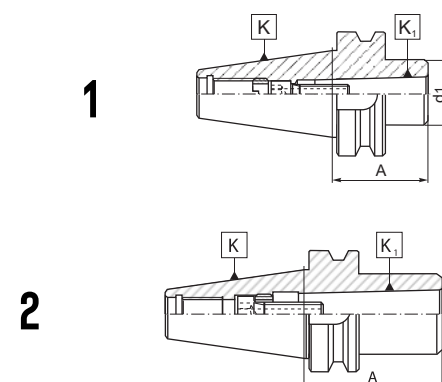
MAS 403-BT

1694 AD+B



CODE	K (7:24)	K1 CM	A	d1	DRAWING
800000259	40	2	50	32	1
800000260	40	3	70	40	2
800000261	40	4	95	48	2
800000262	50	2	60	32	1
800000263	50	3	65	40	1
800000264	50	4	95	48	1
800000265	50	5	120	63	2

1694



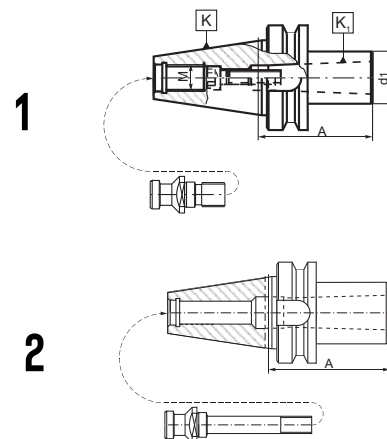
CODE	K (7:24)	K1 CM	A	d1	DRAWING
800000247	30	1	50	25	1
800000248	30	2	62	32	2
800000249	30	3	82	40	2
800000250	40	1	50	25	1
800000251	40	2	50	32	1
800000252	40	3	70	40	2
800000253	40	4	95	48	2
800000254	50	1	45	25	1
800000255	50	2	60	32	1
800000256	50	3	65	40	1
800000257	50	4	90	48	1
800000258	50	5	120	63	2

ADAPTADORES DE CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO

ADAPTATEURS À CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

MAS 403-BT

1663



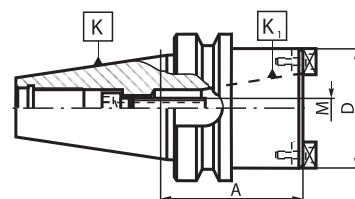
CODE	K (7:24)	K ₁ CM	A	d1	M	DRAWING
800000154	30	1	45	25	M12	1
800000155	30	2	60	32	-	2
800000156	40	1	45	25	M16	1
800000157	40	2	60	32	M16	1
800000158	40	3	75	40	-	2
800000159	40	4	85	48	-	2
800000160	50	1	45	25	M24	1
800000161	50	2	45	32	M24	1
800000162	50	3	60	40	M24	1
800000163	50	4	75	48	M24	1
800000164	50	5	75	63	-	2

CASQUILLO REDUCTOR PARA ACOPLAMIENTOS CÓNICOS

RÉDUCTEUR POUR RACCORDS CONIQUES

MAS 403-BT

1660



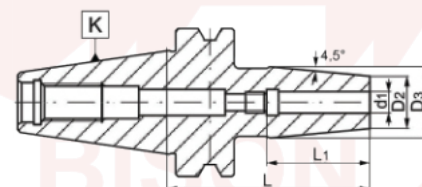
CODE	K (7:24)	K ₁ (7:24)	A	D	M
800000125	50	40	80	88	M16

PORTA-HERRAMIENTAS TERMICOS

PORTE-OUTILS THERMIQUES

MAS 403-BT

7632



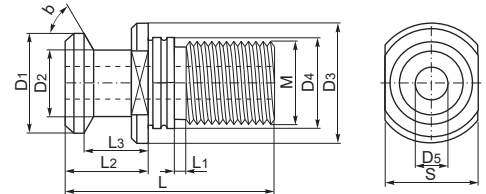
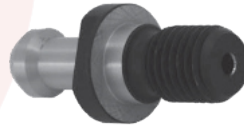
CODE	K (7:24)	d1	L	L1	D2	D3
800006402	40	3	80	36	14	22
800006403	40	3	120	36	14	22
800006404	40	3	160	36	14	22
800006405	40	4	80	36	14	22
800006406	40	4	120	36	14	22
800006407	40	4	160	36	14	22
800006408	40	5	80	36	16	27
800006409	40	5	120	36	16	27
800006410	40	5	160	36	16	27
800006411	40	6	90	36	21	27
800006412	40	6	120	36	21	27
800006413	40	6	160	36	21	27
800006414	40	8	90	36	21	27
800006415	40	8	120	36	21	27
800006416	40	8	160	36	21	27
800006417	40	10	90	42	24	32
800006418	40	10	120	42	24	32
800006419	40	10	160	42	24	32
800006420	40	12	90	47	24	32
800006421	40	12	120	47	24	32
800006422	40	12	160	47	24	32
800006423	40	14	90	47	27	34
800006424	40	14	120	47	27	34
800006425	40	14	160	47	27	34
800006426	40	16	90	50	27	34
800006427	40	16	120	50	27	34
800006428	40	16	160	50	27	34
800006429	40	18	90	50	27	42
800006430	40	18	120	50	33	42
800006431	40	18	160	52	33	42
800006432	40	20	90	52	33	42
800006433	40	20	120	52	33	42
800006434	40	20	160	52	33	42
800006435	40	25	100	58	44	53
800006436	40	25	120	58	44	53
800006437	40	25	160	58	44	53
800006438	40	32	100	58	44	53
800006439	50	6	100	36	21	27
800006440	50	8	100	36	21	27
800006441	50	10	100	42	24	32
800006442	50	12	100	47	24	32
800006443	50	14	100	47	27	34
800006444	50	16	100	50	27	34
800006445	50	18	100	50	33	42
800006456	50	20	100	52	33	42
800006447	50	25	100	58	44	53
800006448	50	32	100	58	44	53

TIRANTES CON AGUJERO

TIRANTS AVEC TROU

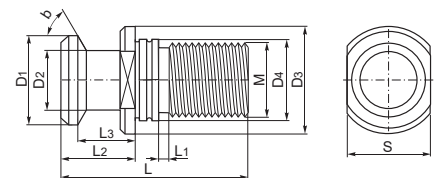
MAS 403-BT

9833 A



CODE	TAGLIA TAILLE	L	b	M	L ₁	L ₂	L ₃	D ₁	D ₂	D ₃	D ₄	D ₅	S
800003007	40	60	45°	M16	4	35	28	15	10	23	17	4	19
800003008	40	60	60°	M16	4	35	28	15	10	23	17	4	19
800003009	40	60	90°	M16	4	35	28	15	10	23	17	4	19
800003010	50	85	45°	M24	8	45	35	23	17	38	25	6	30
800003011	50	85	60°	M24	8	45	35	23	17	38	25	6	30
800003012	50	85	90°	M24	8	45	35	23	17	38	25	6	30

9833 B



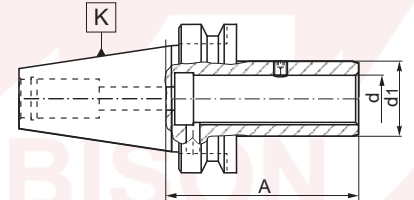
CODE	TAGLIA TAILLE	L	b	M	L ₁	L ₂	L ₃	D ₁	D ₂	D ₃	D ₄	S
800003508	30	43	45°	M12	2	23	18	11	7	16.5	12.5	13
800003509	30	43	60°	M12	2	23	18	11	7	16.5	12.5	13
800003013	40	60	45°	M16	4	35	28	15	10	23	17	19
800003014	40	60	60°	M16	4	35	28	15	10	23	17	19
800003015	40	60	90°	M16	4	35	28	15	10	23	17	19
800003016	40	120	45°	M12	64	35	28	15	10	23	17	19
800003017	40	120	60°	M12	64	35	28	15	10	23	17	19
800003018	40	120	90°	M12	64	35	28	15	10	23	17	19
800003019	40	125	45°	M16	69	35	28	15	10	23	17	19
800003020	40	125	60°	M16	69	35	28	15	10	23	17	19
800003021	40	125	90°	M16	69	35	28	15	10	23	17	19
800003022	50	85	45°	M24	8	45	35	23	17	38	25	30
800003023	50	85	60°	M24	8	45	35	23	17	38	25	30
800003024	50	85	90°	M24	8	45	35	23	17	38	25	30
800003025	50	125	45°	M24	48	45	35	23	17	38	25	30
800003026	50	125	60°	M24	48	45	35	23	17	38	25	30
800003027	50	125	90°	M24	48	45	35	23	17	38	25	30

ADAPTADORES PARA SOPORTES AJUSTABLES

SUPPORTS D'ADAPTATEURS RÉGLABLES

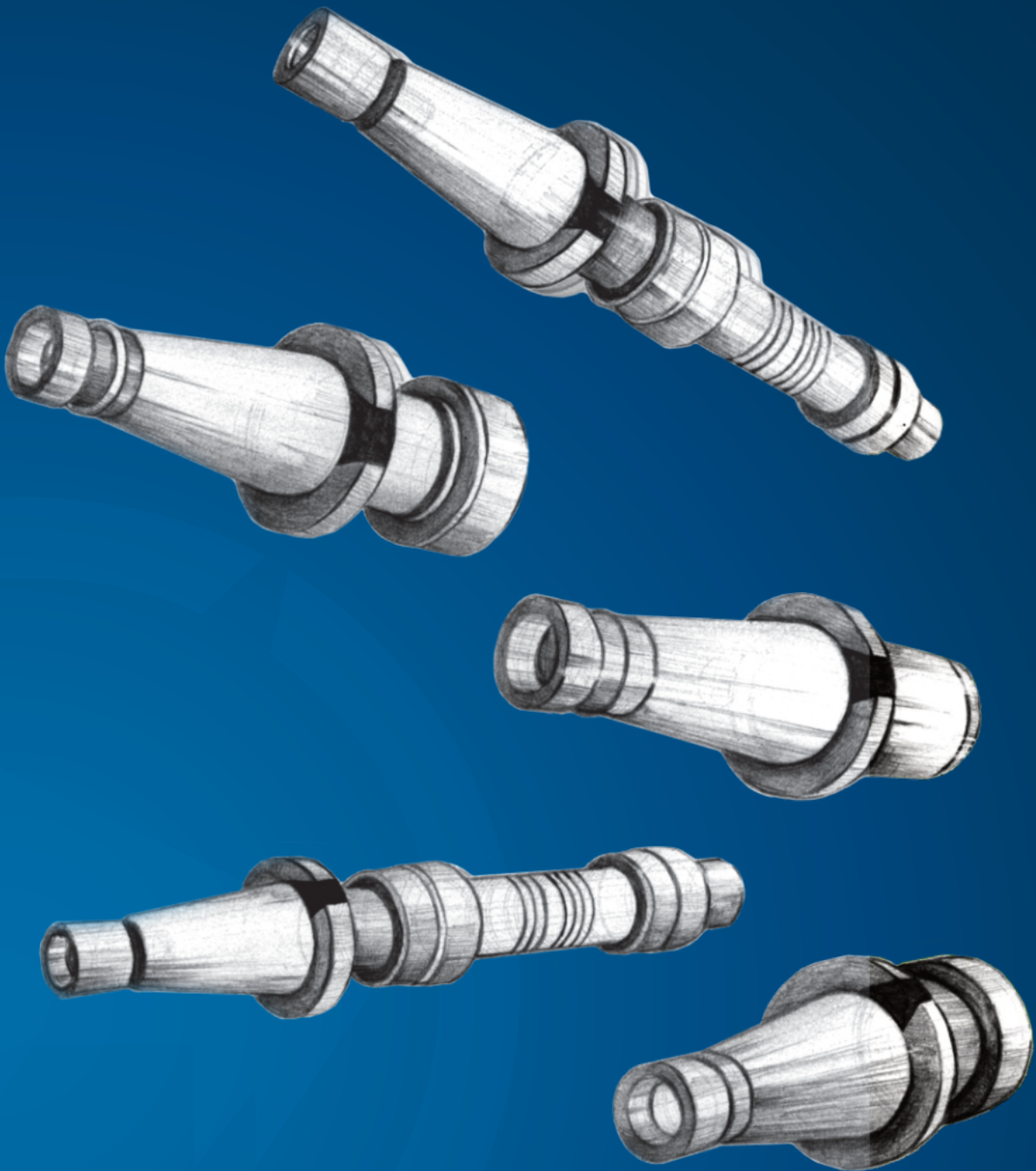
MAS 403-BT

9833 B



CODE	K (7:24)	d	d1	A
800000075	40	16	25	75
800000076	40	20	32	80
800000077	40	28	40	100
800000078	40	36	50	115
800000079	50	16	25	85
800000080	50	20	32	85
800000081	50	28	40	100
800000082	50	36	50	100
800000083	50	48	67	105

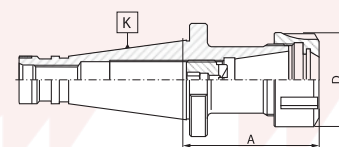
DIN 2080



HUSILLOS PORTAPINCES PARA PINZAS ER MANDRINS À PINCES POUR PINCES ER

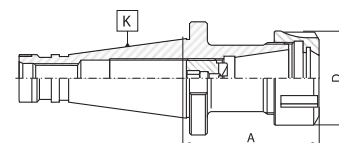
DIN 2080

7616



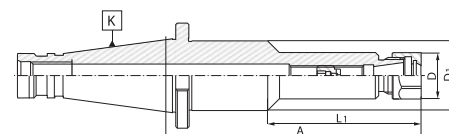
CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	D
800001754	30	ER16	25	2-10	32
800001755	30	ER32	32	2-20	50
800001756	40	ER25	40	2-16	42
800001757	40	ER32	50	2-20	50
800001758	40	ER32	25	2-20	50
800001759	40	ER40	32	2-26	63
800001760	50	ER32	40	2-20	50
800001761	50	ER32	50	2-20	50
800001762	50	ER40	67	2-26	63
800001763	50	ER40	50	2-26	63

7616 QC
CAMBIO RÁPIDO
CHANGEMENT RAPIDE



CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	D
800001754	30	ER16	25	2-10	32
800001755	30	ER32	32	2-20	50
800001756	40	ER25	40	2-16	42
800001757	40	ER32	50	2-20	50
800001758	40	ER32	25	2-20	50
800001759	40	ER40	32	2-26	63
800001760	50	ER32	40	2-20	50
800001761	50	ER32	50	2-20	50
800001762	50	ER40	67	2-26	63
800001763	50	ER40	50	2-26	63

7616-S
LINEA SLIM
SLIM LINE



CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	L ₁	D	D ₁
800001764	40	ER16	100	2-10	-	28	-
800001765	40	ER16	150	2-20	85	28	40
800001766	50	ER16	100	2-16	-	28	-
800001767	50	ER16	150	2-20	85	28	40

HUSILLOS PORTAPINCES PARA PINZAS ER - KIT

MANDRINS À PINCES ER - KIT

DIN 2080



7616 KPL

JUEGO COMPLETO KIT COMPLET

CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS INCLUIDAS N. OF PINCES INCLUS
800001768	30	ER16	50	2-10	8
800001769	30	ER32	50	2-20	18
800001770	40	ER25	60	2-16	14
800001771	40	ER32	60	2-20	18
800001772	40	ER32	130	2-20	18
800001773	40	ER40	60	2-26	24
800001774	50	ER32	70	2-20	18
800001775	50	ER32	130	2-20	18
800001776	50	ER40	70	2-26	24

7616 PL

JUEGO PARCIAL KIT PARTIEL

CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS INCLUIDAS N. OF PINCES INCLUS
800001781	30	ER32	50	3-20	8
800001782	40	ER32	60	3-20	8
800001783	50	ER32	70	3-20	8

7616-S PL

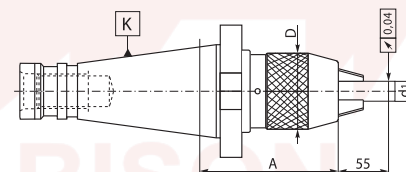
JUEGO PARCIAL - LINEA SLIM KIT PARTIEL - SLIM LINE

CODE	K (7:24)	TALLA PINZAS TAILLE DES PINCES	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS INCLUIDAS N. OF PINCES INCLUS
800001777	40	ER16	100	2-10	8
800001778	40	ER16	150	2-10	8
800001779	50	ER16	100	2-10	8
800001780	50	ER16	150	2-10	8

PORTABROCAS DE SUJECIÓN RÁPIDA MANDRINS DE PERÇAGE À SERRAGE RAPIDE

DIN 2080

7657

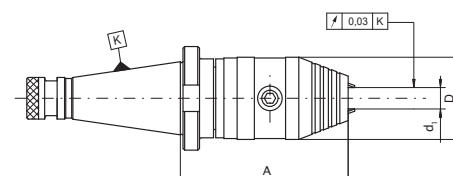


CODE	K (7:24)	d1	A	D
800002398	40	1-13	88	50
800002399	40	3-16	99	57
800002400	50	1-13	85	50
800002401	50	3-16	89	57

PORTABROCAS POR ROTACIÓN EN SENTIDO HORARIO Y ANTIHORARIO MANDRINS DE PERÇAGE DANS LE SENS HORAIRE ET ANTIHORAIRE

DIN 2080

7657



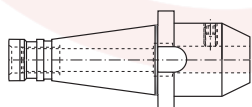
CODE	K (7:24)	d1	FORZA DI SERRAGGIO CLAMPING FORCE	A	D
800006593	40	1-13	40 Nm	102	50
800006594	40	3-16	45 Nm	102	50
800006595	50	1-13	40 Nm	99	50
800006596	50	3-16	45 Nm	99	50

HUSILLOS PORTAFRESAS TIPO WELDON

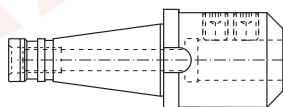
MANDRINS PORTE-FRAISE WELDON-TYPE

DIN 2080

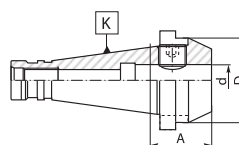
7620



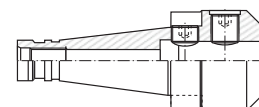
1



2



3



4

CODE	K (7:24)	d	A	D	DRAWING
800001910	30	6	40	25	1
800001911	30	8	40	28	1
800001912	30	10	40	35	1
800001913	30	12	40	42	1
800001914	30	16	50	48	1
800001915	30	20	63	52	1
800001916	30	25	68	63	2
800001917	40	6	25	25	3
800001918	40	6	50	25	1
800001919	40	8	25	28	3
800001920	40	8	50	28	1
800001921	40	10	27	35	3
800001922	40	10	50	35	1
800001923	40	12	29	42	3
800001924	40	12	50	42	1
800001925	40	14	30	44	3
800001926	40	14	50	44	1
800001927	40	16	31	44	3
800001928	40	16	63	48	1
800001929	40	18	63	50	1
800001930	40	20	35	52	3
800001931	40	20	63	52	1
800001932	40	25	60	65	4
800001933	40	25	80	63	2
800001934	40	32	70	72	2
800001935	40	32	80	72	2
800001936	40	32	100	72	2
800001937	50	6	63	25	1
800001938	50	6	130	25	1

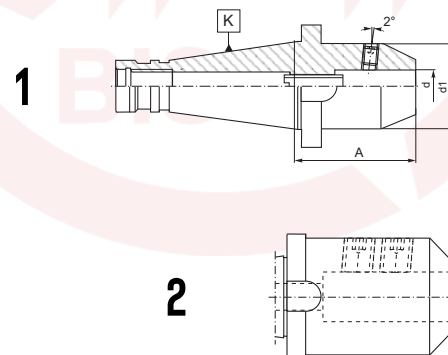
CODE	K (7:24)	d	A	D	DRAWING
800001939	50	8	63	28	1
800001940	50	8	130	28	1
800001941	50	10	63	35	1
800001942	50	10	130	35	1
800001943	50	12	63	42	1
800001944	50	12	130	42	1
800001945	50	14	63	44	1
800001946	50	16	63	48	1
800001947	50	16	130	48	1
800001948	50	16	160	48	1
800001949	50	16	200	48	1
800001950	50	18	63	50	1
800001951	50	20	36	52	3
800001952	50	20	63	52	1
800001953	50	20	130	52	1
800001954	50	25	60	65	4
800001955	50	25	80	65	2
800001956	50	25	130	65	2
800001957	50	25	160	65	2
800001958	50	32	70	70	4
800001959	50	32	81	70	2
800001960	50	32	100	70	2
800001961	50	32	130	72	2
800001962	50	32	160	72	2
800001963	50	40	91	90	2
800001964	50	40	100	90	2
800001965	50	50	110	97	2
800001966	50	63	115	97	2

HUSILLOS PORTAFRESAS TIPO WHISTLE-NOTCH

WHISTLE-NOTCH TYPE MANDRINS PORTE-FRAISE

DIN 2080

7627



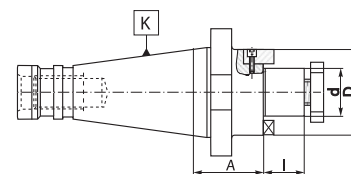
CODE	K (7:24)	d	d1	A	DRAWING
800002327	40	6	25	50	1
800002328	40	8	28	50	1
800002329	40	10	35	50	1
800002330	40	12	42	50	1
800002331	40	14	44	50	1
800002332	40	16	48	63	1
800002333	40	18	50	63	1
800002334	40	20	52	63	1
800002335	40	25	65	80	2
800002336	40	32	72	80	2
800002337	50	6	25	63	1
800002338	50	8	28	63	1
800002339	50	10	35	63	1
800002340	50	12	42	63	1
800002341	50	14	44	63	1
800002342	50	16	48	63	1
800002343	50	18	50	63	1
800002344	50	20	52	63	1
800002345	50	25	65	80	2
800002346	50	32	72	80	2
800002347	50	40	90	90	2

HUSILLOS PORTAFRESAS DE AGUJERO LISO

MANDRINS PORTE-FRAISES ALÉSAGE LISSE

DIN 2080

7311

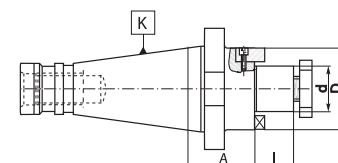


CODE	K (7:24)	d	A	I	D
800001385	30	16	35	17	32
800001386	30	22	35	19	40
800001387	30	27	35	21	48
800001388	30	32	35	24	58
800001389	40	16	37	17	32
800001390	40	16	90	17	32
800001391	40	22	37	19	40
800001392	40	22	90	19	40
800001393	40	27	37	21	48
800001394	40	27	90	21	48
800001395	40	32	37	24	58
800001396	40	32	90	24	58
800001397	40	40	37	27	70
800001398	40	40	90	27	70
800001399	50	22	40	19	40
800001400	50	22	100	19	40
800001401	50	27	40	21	48
800001402	50	27	100	21	48
800001403	50	32	40	24	58
800001404	50	32	100	24	58
800001405	50	40	40	27	70
800001406	50	40	100	27	70
800001407	50	50	40	30	90
800001408	50	50	100	30	90

7311 QC

CAMBIO RAPIDO

CHANGEMENT RAPIDE



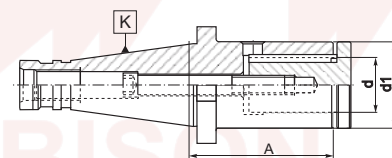
CODE	K (7:24)	d	A	I	D
800001409	30	16	45	17	32
800001410	30	22	45	19	40
800001411	30	27	45	21	48
800001412	30	32	45	24	58
800001413	40	16	50	17	32
800001414	40	16	90	17	32
800001415	40	22	50	19	40
800001416	40	22	90	19	40
800001417	40	27	50	21	48
800001418	40	27	90	21	48
800001419	40	32	50	24	58
800001420	40	32	90	24	58
800001421	40	40	50	27	70
800001422	40	40	90	27	70

HUSILLOS PORTAFRESAS PARA FRESAS DE DISCO

PORTE-FRAISES POUR FRAISES À DISQUE

DIN 2080

7314



CODE	K (7:24)	d	d1	A
800001423	40	16	29	70
800001424	40	16	29	100
800001425	40	22	36	70
800001426	40	22	36	100
800001427	40	27	42	70
800001428	40	27	42	100
800001429	40	32	50	70
800001430	40	32	50	100
800001431	40	40	58	70
800001432	40	40	58	100
800001433	50	27	42	75
800001434	50	27	42	105
800001435	50	32	50	75
800001436	50	32	50	105
800001437	50	40	58	75
800001438	50	40	58	105

HUSILLOS PORTAFRESAS COMBINADOS

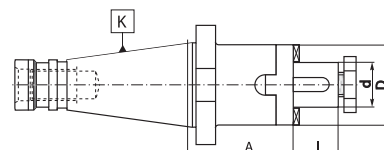
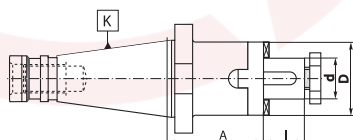
MANDRINS PORTE-FRAISES COMBINÉE

DIN 2080

7332



7332 QC

CAMBIO RAPIDO
CHANGEMENT RAPIDE


CODE	K (7:24)	d	A	I	D
800001439	30	16	35	17	32
800001440	30	16	50	17	32
800001441	30	16	73	17	32
800001442	30	22	35	19	40
800001443	30	22	50	19	40
800001444	30	22	73	19	40
800001445	30	27	35	21	48
800001446	30	27	50	21	48
800001447	30	27	73	21	48
800001448	30	32	50	24	58
800001449	40	16	37	17	32
800001450	40	16	52	17	32
800001451	40	16	75	17	32
800001452	40	22	37	19	40
800001453	40	22	52	19	40
800001454	40	22	75	19	40
800001455	40	27	37	21	48
800001456	40	27	52	21	48
800001457	40	27	75	21	48
800001458	40	32	41	24	58
800001459	40	32	52	24	58
800001460	40	32	75	24	58
800001461	40	40	45	27	70
800001462	40	40	52	27	70
800001463	40	40	75	27	70
800001464	50	16	55	17	32
800001465	50	16	78	17	32
800001466	50	22	55	19	40
800001467	50	22	78	19	40
800001468	50	27	55	21	48
800001469	50	27	78	21	48
800001470	50	32	55	24	58
800001471	50	32	78	24	58
800001472	50	40	55	27	70
800001473	50	40	78	27	70
800001474	50	50	55	30	90
800001475	50	50	78	30	90

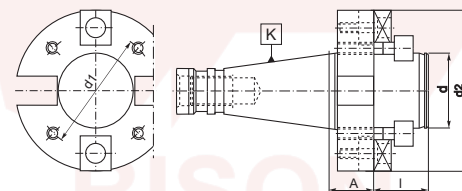
CODE	K (7:24)	d	A	I	D
800001476	30	16	52	17	32
800001477	30	22	52	19	40
800001478	30	27	54	21	48
800001479	30	32	58	24	58
800001480	40	16	52	17	32
800001481	40	22	52	19	40
800001482	40	27	54	21	48
800001483	40	32	58	24	58
800001484	40	40	60	27	70

HUSILLOS PORTAFRESAS PARA FRESAS DE DISCO

PORTE-FRAISES POUR FRAISES À DISQUE

DIN 2080

2824



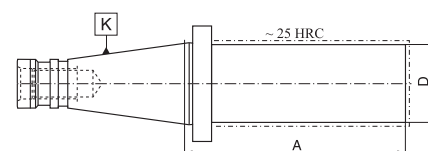
CODE	K (7:24)	d	d1	d2	A	I
800000590	40	40	66	89	30	30
800000591	40	50	101	129	30	40
800000592	40	60	101	129	30	40
800000593	50	40	66	89	30	30
800000594	50	50	101	129	30	40
800000595	50	60	101	129	30	40

PORTA-HERRAMIENTAS SEMI ACABADOS

ÉBAUCHES DE BARRE D'ALÉSAGE

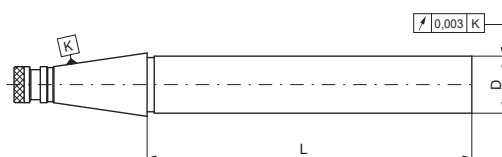
DIN 2080

2190



CODE	K (7:24)	D	A
800000551	40	40	280
800000554	40	63	280
800000556	50	50	330
800000558	50	80	330

2850



MANDRIL DE INSPECCIÓN

ARBRES DE COMMANDE

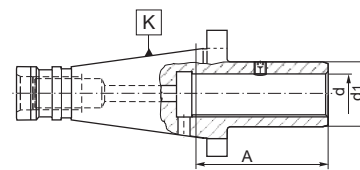
DIN 2080

CODE	K (7:24)	D	L
800006690	40	40	300
800006691	50	50	300

PORTAADAPTADORES REGULABLES SUPPORTS D'ADAPTATEURS RÉGLABLES

DIN 2080

1616

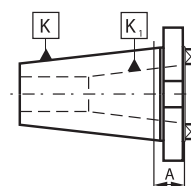


CODE	K (7:24)	d	d1	A
800000084	40	16	25	60
800000085	40	20	32	60
800000086	40	28	40	100
800000087	40	36	50	120
800000088	50	16	25	60
800000089	50	20	32	60
800000090	50	28	40	100
800000091	50	36	50	100
800000092	50	48	67	100

REDUCTORES PARA ACOPLAMIENTOS CÓNICOS ADAPTATEURS DE RÉDUCTION POUR CÔNES

DIN 2080

1650

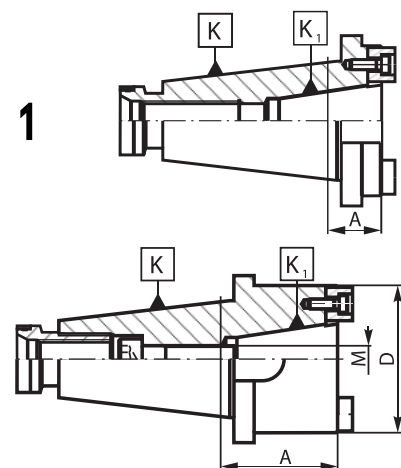


CODE	K (7:24)	K ₁ (7:24)	A
800000093	40	30	13
800000094	50	30	15.9
800000095	50	40	15.9

REDUCTORES PARA ACOPLAMIENTOS CÓNICOS ADAPTATEURS DE RÉDUCTION POUR CÔNES

DIN 2080

1699

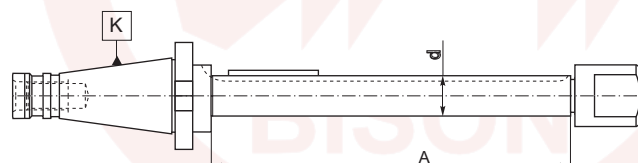


CODE	K (7:24)	K ₁ CM	A	D	M	DISEGNO DRAWING
800000285	50	40	27	88	M16	1
800000286	50	40	65	88	M16	2

MANDRILES DE FRESADORA LARGOS LONGS ARBRES POUR FRAISEUSES

DIN 2080

7175



CODE	K (7:24)	d	A
800000914	30	16	200
800000915	30	16	250
800000916	30	16	315
800000917	30	22	200
800000918	30	22	250
800000919	30	22	315
800000920	30	22	400
800000921	30	27	200
800000922	30	27	250
800000923	30	27	315
800000924	30	27	400
800000925	40	16	200
800000926	40	16	250
800000927	40	16	315
800000928	40	16	400
800000929	40	22	200
800000930	40	22	250
800000931	40	22	315
800000932	40	22	400
800000933	40	22	500
800000934	40	27	200
800000935	40	27	250
800000936	40	27	315
800000937	40	27	400
800000938	40	27	500
800000939	40	27	630
800000940	40	32	160
800000941	40	32	250
800000942	40	32	315
800000943	40	32	400
800000944	40	32	500
800000945	40	32	630
800000946	40	40	315
800000947	40	40	400
800000948	40	40	500

CODE	K (7:24)	d	A
800000949	40	40	630
800000950	50	22	200
800000951	50	22	250
800000952	50	22	315
800000953	50	22	400
800000954	50	22	500
800000955	50	22	630
800000956	50	27	315
800000957	50	27	400
800000958	50	27	500
800000959	50	27	630
800000960	50	27	800
800000961	50	32	315
800000962	50	32	400
800000963	50	32	500
800000964	50	32	630
800000965	50	32	800
800000966	50	32	900
800003425	50	32	1000
800000968	50	40	400
800000969	50	40	500
800000970	50	40	630
800000971	50	40	800
800000972	50	40	900
800000967	50	40	1000
800000974	50	50	400
800000975	50	50	500
800000976	50	50	630
800000977	50	50	800
800000978	50	50	900
800000973	50	50	1000
800000979	50	60	630
800000980	50	60	800
800000981	50	60	900
800000982	50	60	1000

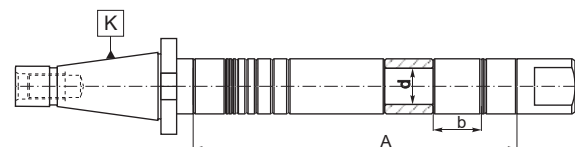
MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7178

BISON



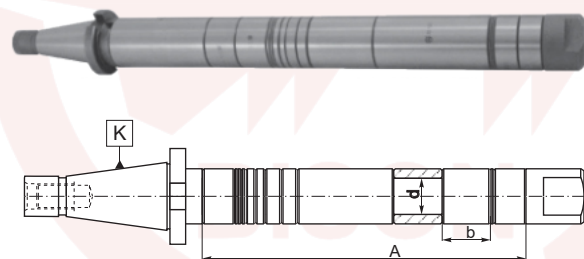
CODE	K (7:24)	d	A	B RINGS (PARA MANDRIL) B RINGS (POUR ARBRE)								
				1	2	3	6	10	20	30	60	100
800000983	30	16	200	2	3	4	2	4	2	3	-	-
800000984	30	16	250	2	3	4	2	4	3	4	-	-
800000985	30	16	315	1	4	2	2	4	5	5	-	-
800000986	30	22	200	1	3	1	2	2	2	2	1	-
800000987	30	22	250	1	3	1	2	1	2	2	2	-
800000988	30	22	315	1	4	2	2	2	3	3	2	-
800000989	30	22	400	1	3	1	2	3	4	3	3	-
800000990	30	27	200	1	3	1	2	2	2	2	1	-
800000991	30	27	250	1	3	1	2	1	2	2	2	-
800000992	30	27	315	1	4	2	2	2	3	3	2	-
800000993	30	27	400	1	3	1	2	1	3	3	2	1
800000994	40	16	200	2	3	4	2	4	2	3	-	-
800000995	40	16	250	2	3	4	2	4	3	4	-	-
800000996	40	16	315	1	4	2	2	4	5	5	-	-
800000997	40	16	400	1	5	3	2	4	6	7	-	-
800000998	40	22	200	1	3	1	2	2	2	2	1	-
800000999	40	22	250	1	3	1	2	1	2	2	2	-
800001000	40	22	315	1	4	2	2	2	3	3	2	-
800001001	40	22	400	1	3	1	2	3	4	3	3	-
800001002	40	22	500	2	3	2	3	3	4	4	4	-
800001003	40	27	200	1	3	1	2	2	2	2	1	-
800001004	40	27	250	1	3	1	2	1	2	2	2	-
800001005	40	27	315	1	4	2	2	2	3	3	2	-
800001006	40	27	400	1	3	1	2	1	3	3	2	1
800001007	40	27	500	2	3	2	3	2	2	3	2	2
800001008	40	27	630	2	3	2	3	2	2	2	3	3
800001009	40	32	160	2	3	4	2	3	2	2	-	-
800001010	40	32	250	1	3	1	2	1	2	2	2	-
800001011	40	32	315	1	4	2	2	2	3	3	2	-
800001012	40	32	400	1	3	1	2	1	3	3	2	1
800001013	40	32	500	2	3	2	3	2	2	3	2	2
800001014	40	32	630	2	3	2	3	2	2	2	3	3
800001015	40	40	315	1	4	2	2	2	3	3	2	-
800001016	40	40	400	1	3	1	2	1	3	3	2	1
800001017	40	40	500	2	3	2	3	2	2	3	2	2

MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7178



CODE	K (7:24)	d	A	B RINGS (PARA MANDRIL) B RINGS (POUR ARBRE)								
				1	2	3	6	10	20	30	60	100
800001018	40	40	630	2	3	2	3	2	2	2	3	3
800001019	50	22	200	1	3	1	2	2	2	2	1	-
800001020	50	22	250	1	3	1	2	1	2	2	2	-
800001021	50	22	315	1	4	2	2	2	3	3	2	-
800001022	50	22	400	1	3	1	2	3	4	3	3	-
800001023	50	22	500	2	3	2	3	3	4	4	4	-
800001024	50	22	630	2	3	2	3	3	4	4	4	-
800001025	50	27	315	1	4	2	2	2	3	3	2	-
800001026	50	27	400	1	3	1	2	1	3	3	2	1
800001027	50	27	500	2	3	2	3	2	2	3	2	2
800001028	50	27	630	2	3	2	3	2	2	2	3	3
800001029	50	27	800	4	4	4	3	4	3	4	4	3
800001030	50	32	315	1	4	2	2	2	3	3	2	-
800001031	50	32	400	1	3	1	2	1	3	3	2	1
800001032	50	32	500	2	3	2	3	2	2	3	2	2
800001033	50	32	630	2	3	2	3	2	2	2	3	3
800001034	50	32	800	4	4	4	3	4	3	4	4	3
800001035	50	32	900	4	4	4	3	4	3	4	4	4
800001036	50	32	1000	4	4	4	3	4	3	4	4	5
800001037	50	40	400	1	3	1	2	1	3	3	2	1
800001038	50	40	500	2	3	2	3	2	2	3	2	2
800001039	50	40	630	2	3	2	3	2	2	2	3	3
800001040	50	40	800	4	4	4	3	4	3	4	4	3
800001041	50	40	900	4	4	4	3	4	3	4	4	4
800001042	50	40	1000	4	4	4	3	4	3	4	4	5
800001043	50	50	400	1	3	1	2	1	3	3	2	1
800001044	50	50	500	2	3	2	3	2	2	3	2	2
800001045	50	50	630	2	3	2	3	2	2	2	3	3
800001046	50	50	800	4	4	4	3	4	3	4	4	3
800001047	50	50	900	4	4	4	3	4	3	4	4	4
800001048	50	50	1000	4	4	4	3	4	3	4	4	5
800001049	50	60	630	2	3	2	3	2	2	2	3	3
800001050	50	60	800	4	4	4	3	4	3	4	4	3
800001051	50	60	900	4	4	4	3	4	3	4	4	4
800001052	50	60	1000	4	4	4	3	4	3	4	4	5

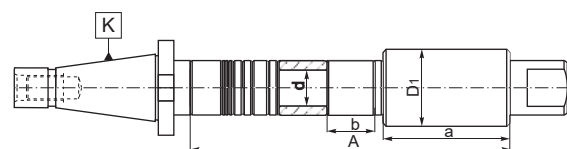
MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7181

BISON



CODE	K (7:24)	d	A	B RINGS (PARA MANDRIL) B RINGS (POUR ARBRE)									d x D1 x a *
				1	2	3	6	10	20	30	60	100	
800001053	30	16	200	1	3	3	1	2	2	2	-	-	16X42X60
800001054	30	16	250	1	3	3	1	4	2	3	-	-	16X42X60
800001055	30	16	315	3	3	4	1	5	3	4	-	-	16X42X60
800001056	30	22	200	1	3	3	1	2	2	2	-	-	22X42X60
800001057	30	22	250	1	3	3	1	1	2	2	1	-	22X42X60
800001058	30	22	315	1	4	2	2	2	3	3	1	-	22X42X60
800001059	30	22	400	1	3	3	1	2	3	2	3	-	22X42X60
800001060	30	27	200	1	1	1	1	2	2	2	-	-	27X48X70
800001061	30	27	250	1	1	1	1	1	2	2	1	-	27X48X70
800001062	30	27	315	1	2	2	1	2	3	3	1	-	27X48X70
800001063	30	27	400	1	1	1	1	2	1	2	2	1	27X48X70
800001064	40	16	200	2	1	2	2	2	1	2	-	-	16X56X80
800001065	40	16	250	1	3	3	1	4	1	3	-	-	16X56X80
800001066	40	16	315	3	3	4	1	5	2	4	-	-	16X56X80
800001067	40	16	400	2	3	4	2	5	3	6	-	-	16X56X80
800001068	40	22	200	1	3	3	1	2	1	2	-	-	22X56X80
800001069	40	22	250	1	3	3	1	1	1	2	1	-	22X56X80
800001070	40	22	315	1	4	2	2	2	2	3	1	-	22X56X80
800001071	40	22	400	1	3	3	1	2	2	2	3	-	22X56X80
800001072	40	22	500	1	3	3	1	3	2	3	4	-	22X56X80
800001073	40	27	250	1	3	3	1	2	2	1	1	-	27X56X80
800001074	40	27	315	2	2	3	2	1	1	2	2	-	27X56X80
800001075	40	27	400	2	1	2	2	2	3	2	1	-	27X56X80
800001076	40	27	500	2	1	2	2	2	3	2	1	1	27X56X80
800001077	40	27	630	2	3	4	2	2	3	2	3	2	27X56X80
800001078	40	32	250	1	3	3	1	2	2	1	1	2	32X56X80
800001079	40	32	315	2	2	3	2	1	1	2	2	-	32X56X80
800001080	40	32	400	2	1	2	2	2	3	2	1	1	32X56X80
800001081	40	32	500	2	1	2	2	2	3	2	1	2	32X56X80
800001082	40	32	630	2	3	4	2	2	3	2	3	2	32X56X80
800001083	40	40	315	2	2	3	2	1	1	2	2	-	40X56X80
800001084	40	40	400	2	1	2	2	2	3	2	1	1	40X56X80
800001085	40	40	500	2	1	2	2	2	3	2	1	2	40X56X80
800001086	40	40	630	2	3	4	2	2	3	2	3	2	40X56X80

* CASQUILLO CÓNICO

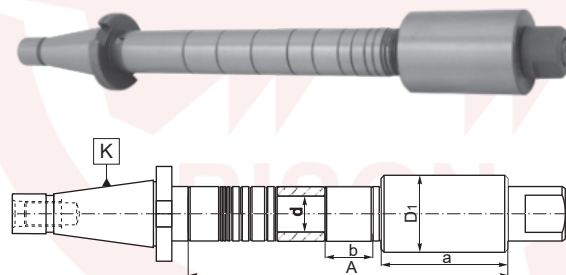
* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7181



CODE	K (7:24)	d	A	B RINGS (PARA MANDRIL) B RINGS (POUR ARBRE)									d x D1 x a *
				1	2	3	6	10	20	30	60	100	
800001087	50	22	200	1	3	1	2	1	2	1	-	-	22X70X100
800001088	50	22	250	1	3	1	2	1	3	2	-	-	22X70X100
800001089	50	22	315	1	4	2	2	1	3	2	1	-	22X70X100
800001090	50	22	400	1	3	1	2	1	3	1	3	-	22X70X100
800001091	50	22	500	2	3	4	2	4	3	3	3	-	22X70X100
800001092	50	22	630	2	3	4	2	4	2	4	5	-	22X70X100
800001093	50	27	315	2	2	3	2	2	1	1	2	-	27X70X100
800001094	50	27	400	2	1	2	2	4	3	2	2	-	27X70X100
800001095	50	27	500	2	1	2	2	3	4	3	3	-	27X70X100
800001096	50	27	630	2	3	4	2	2	2	2	3	2	27X70X100
800001097	50	27	800	2	1	2	2	3	3	3	5	2	27X70X100
800001098	50	32	315	2	2	3	2	2	1	1	2	-	32X70X100
800001099	50	32	400	2	1	2	2	4	3	2	2	-	32X70X100
800001100	50	32	500	2	1	2	2	3	4	3	3	-	32X70X100
800001101	50	32	630	2	3	4	2	2	2	2	3	2	32X70X100
800001102	50	32	800	2	1	2	2	3	3	3	5	2	32X70X100
800001103	50	32	900	2	1	2	2	3	3	3	5	3	32X70X100
800001104	50	32	1000	2	1	2	2	3	3	3	5	4	32X70X100
800001105	50	40	400	2	1	2	2	4	2	2	2	-	40X85X120
800001106	50	40	500	2	1	2	2	3	3	3	3	-	40X85X120
800001107	50	40	630	2	3	4	2	-	2	2	3	2	40X85X120
800001108	50	40	800	2	1	2	2	3	2	3	5	2	40X85X120
800001109	50	40	900	2	1	2	2	3	2	3	5	3	40X85X120
800001110	50	40	1000	2	1	2	2	3	2	3	5	4	40X85X120
800001111	50	50	400	2	1	2	2	4	2	2	2	-	50X85X120
800001112	50	50	500	2	1	2	2	3	3	3	3	-	50X85X120
800001113	50	50	630	2	3	4	2	2	1	2	3	2	50X85X120
800001114	50	50	800	2	1	2	2	3	2	3	5	2	50X85X120
800001115	50	50	900	2	1	2	2	3	2	3	5	3	50X85X120
800001116	50	50	1000	2	1	2	2	3	2	3	5	4	50X85X120
800001117	50	60	630	2	3	2	3	2	3	2	2	2	60X110X120
800001118	50	60	800	4	4	4	3	3	3	3	4	2	60X110X120
800001119	50	60	900	4	4	4	3	3	3	3	4	3	60X110X120
800001120	50	60	1000	4	4	4	3	3	3	3	4	4	60X110X120

* CASQUILLO CÓNICO

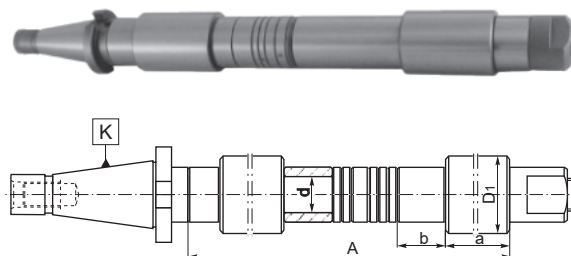
* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS LONGS ARBRES POUR FRAISEUSES

DIN 2080

7184

BISON



CODE	K (7:24)	d	A	B RINGS (PARA MANDRIL) B RINGS (POUR ARBRE)									d x D1 x a *
				1	2	3	6	10	20	30	60	100	
800001121	30	16	315	2	2	2	2	2	3	3	-	-	16X42X60
800001122	30	22	315	2	2	2	2	2	3	3	-	-	22X42X60
800001123	30	22	400	2	1	3	1	3	4	3	1	-	22X42X60
800001124	30	27	315	2	2	1	3	2	2	3	-	-	27X48X70
800001125	30	27	400	2	1	2	2	3	3	3	1	-	27X48X70
800001126	40	16	315	2	2	1	3	3	3	2	-	-	16X48X70
800001127	40	16	400	2	3	2	3	3	4	4	-	-	16X48X70
800001128	40	22	315	2	2	1	3	1	3	2	-	-	22X56X80
800001129	40	22	400	2	1	2	2	2	4	2	1	-	22X56X80
800001130	40	22	500	2	1	2	2	2	3	2	3	-	22X56X80
800003426	40	27	315	2	2	1	3	3	2	2	-	-	27X56X80
800001131	40	27	400	2	1	2	2	4	3	2	1	-	27X56X80
800001132	40	27	500	2	3	2	3	4	3	3	2	-	27X56X80
800001133	40	27	630	4	4	4	3	2	2	3	3	1	27X56X80
800001134	40	32	315	2	2	1	3	3	2	2	-	-	32X56X80
800001135	40	32	400	2	1	2	2	4	3	2	1	-	32X56X80
800001136	40	32	500	2	3	2	3	4	3	3	2	-	32X56X80
800001137	40	32	630	4	4	4	3	2	2	3	3	1	32X56X80
800001138	40	40	315	2	2	1	3	2	2	1	-	-	40X70X100
800001139	40	40	400	2	1	2	2	2	2	2	1	-	40X70X100
800001140	40	40	500	2	3	2	3	2	2	3	2	-	40X70X100
800001141	40	40	630	4	4	4	3	2	3	3	2	1	40X70X100
800001142	50	22	315	2	2	3	2	2	2	1	-	-	22X70X100
800001143	50	22	400	2	1	2	2	3	3	3	-	-	22X70X100
800001144	50	22	500	2	1	2	2	4	3	2	2	-	22X70X100
800001145	50	22	630	2	1	2	2	4	2	3	4	-	22X70X100
800001146	50	27	315	2	2	3	2	2	2	1	-	-	27X70X100

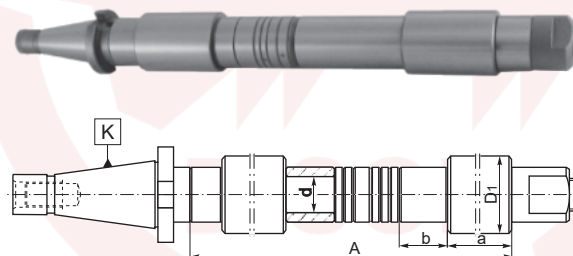
* CASQUILLO CÓNICO

* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS LONGS ARBRES POUR FRAISEUSES

DIN 2080

7184



CODE	K (7:24)	d	A	B RINGS (PARA MANDRIL) B RINGS (POUR ARBRE)									d x D1 x a *
				1	2	3	6	10	20	30	60	100	
800001147	50	27	400	2	1	2	2	3	3	3	-	-	27X70X100
800001148	50	27	500	2	1	2	2	4	3	2	2	-	27X70X100
800001149	50	27	630	4	4	4	3	4	2	3	2	1	27X70X100
800001150	50	27	800	4	4	4	3	2	2	4	3	2	27X70X100
800001151	50	32	315	2	2	3	2	2	2	1	-	-	32X70X100
800001152	50	32	400	2	1	2	2	3	3	3	-	-	32X70X100
800001153	50	32	500	2	1	2	2	4	3	2	2	-	32X70X100
800001154	50	32	630	4	4	4	3	4	2	3	2	1	32X70X100
800001155	50	32	800	4	4	4	3	2	2	4	3	2	32X70X100
800001156	50	32	900	4	4	4	3	2	2	4	3	3	32X70X100
800001157	50	32	1000	4	4	4	3	2	2	4	3	4	32X70X100
800001158	50	40	400	2	1	2	2	2	3	2	-	-	40X85X120
800001159	50	40	500	2	1	2	2	3	3	1	2	-	40X85X120
800001160	50	40	630	4	4	4	3	3	2	2	2	1	40X85X120
800001161	50	40	800	4	4	4	3	1	2	3	3	2	40X85X120
800001162	50	40	900	4	4	4	3	1	2	3	3	3	40X85X120
800001163	50	40	1000	4	4	4	3	1	2	3	3	4	40X85X120
800001164	50	50	400	2	1	2	2	2	3	2	-	-	50X85X120
800001165	50	50	500	2	1	2	2	3	3	1	2	-	50X85X120
800001166	50	50	630	4	4	4	3	3	2	2	2	1	50X85X120
800001167	50	50	800	4	4	4	3	1	2	3	3	2	50X85X120
800001168	50	50	900	4	4	4	3	1	2	3	3	3	50X85X120
800001169	50	50	1000	4	4	4	3	1	2	3	3	4	50X85X120
800001170	50	63	630	4	4	4	3	1	1	2	2	1	63X110X140
800001171	50	63	800	4	4	4	3	2	1	2	3	2	63X110X140
800001172	50	63	900	4	4	4	3	2	1	2	3	3	63X110X140
800001173	50	63	1000	4	4	4	3	2	1	2	3	4	63X110X140

* CASQUILLO CÓNICO

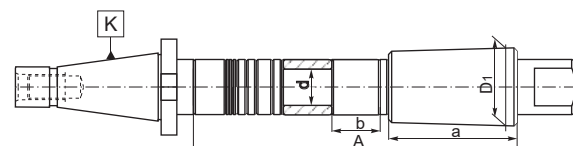
* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7186



CODE	K (7:24)	d	A	B RINGS (PER ALBERO)									d x D1 x a *
				B RINGS (PER ARBOR)									
				1	2	3	6	10	20	30	60	100	
800001174	40	22	200	1	3	3	1	2	1	2	-	-	22X47X80
800001175	40	22	250	1	3	3	1	1	1	2	1	-	22X47X80
800001176	40	22	315	1	4	2	2	2	2	3	1	-	22X47X80
800001177	40	22	400	1	3	3	1	2	2	2	3	-	22X47X80
800001178	40	22	500	1	3	3	1	3	2	3	4	-	22X47X80
800001179	40	27	250	1	3	3	1	2	2	1	1	-	27X47X80
800001180	40	27	315	2	2	3	2	1	1	2	2	-	27X47X80
800001181	40	27	400	2	1	2	2	2	3	2	1	1	27X47X80
800001182	40	27	500	2	1	2	2	2	3	2	1	2	27X47X80
800001183	40	27	630	2	3	4	2	2	3	2	3	2	27X47X80
800001184	40	32	250	1	3	3	1	2	2	1	1	-	32X47X80
800001185	40	32	315	2	2	3	2	1	1	2	2	-	32X47X80
800001186	40	32	400	2	1	2	2	2	3	2	1	1	32X47X80
800001187	40	32	500	2	1	2	2	2	3	2	1	2	32X47X80
800001188	40	32	630	2	3	4	2	2	3	2	3	2	32X47X80
800001189	50	22	200	1	3	1	2	1	2	1	-	-	22X70X100
800001190	50	22	250	1	3	1	2	1	3	2	-	-	22X70X100
800001191	50	22	315	1	4	2	2	1	3	2	1	-	22X70X100
800001192	50	22	400	1	3	1	2	1	3	1	3	-	22X70X100
800001193	50	22	500	2	3	4	2	4	3	3	3	-	22X70X100
800001194	50	22	630	2	3	4	2	4	2	4	5	-	22X70X100
800001195	50	27	315	2	2	3	2	2	1	1	2	-	27X70X100
800001196	50	27	400	2	1	2	2	4	3	2	2	-	27X70X100
800001197	50	27	500	2	1	2	2	3	4	3	3	-	27X70X100
800001198	50	27	630	2	3	4	2	2	2	2	3	2	27X70X100

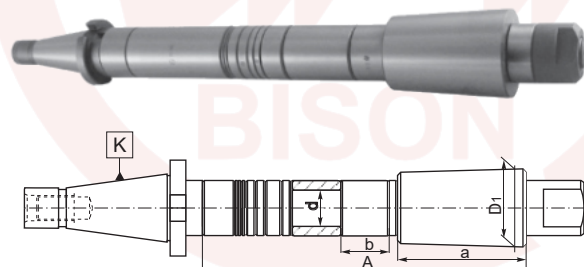
* CASQUILLO CÓNICO

* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS LONGS ARBRES POUR FRAISEUSES

DIN 2080

7186



CODE	K (7:24)	d	A	B RINGS (PER ALBERO) B RINGS (PER ARBOR)									d x D1 x a *
				1	2	3	6	10	20	30	60	100	
800001199	50	27	800	2	1	2	2	3	3	3	5	2	27X70X100
800001200	50	32	315	2	2	3	2	2	1	1	2	-	32X70X100
800001201	50	32	400	2	1	2	2	4	3	2	2	-	32X70X100
800001202	50	32	500	2	1	2	2	3	4	3	3	-	32X70X100
800001203	50	32	630	2	3	4	2	2	2	2	3	2	32X70X100
800001204	50	32	800	2	1	2	2	3	3	3	5	2	32X70X100
800001205	50	32	900	2	1	2	2	3	3	3	5	3	32X70X100
800001206	50	32	1000	2	1	2	2	3	3	3	5	4	32X70X100
800001207	50	40	400	2	1	2	2	4	3	2	2	-	40X70X100
800001208	50	40	500	2	1	2	2	3	4	3	3	-	40X70X100
800001209	50	40	630	2	3	4	2	2	2	2	3	2	40X70X100
800001210	50	40	800	2	1	2	2	3	3	3	5	2	40X70X100
800001211	50	40	900	2	1	2	2	3	3	3	5	3	40X70X100
800001212	50	40	1000	2	1	2	2	3	3	3	5	4	40X70X100
800001213	50	50	400	2	1	2	2	4	3	2	2	-	50X86X100
800001214	50	50	500	2	1	2	2	3	4	3	3	-	50X86X100
800003427	50	50	630	2	3	4	2	2	2	2	3	2	50X86X100
800003428	50	50	800	2	1	2	2	3	3	3	5	2	50X86X100
800003429	50	50	900	2	1	2	2	2	3	3	5	3	50X86X100
800003430	50	50	1000	2	1	2	2	2	3	3	5	4	50X86X100
800003431	50	60	630	2	3	4	2	2	2	2	3	2	63X86X100
800003432	50	60	800	2	1	2	2	3	3	3	5	2	63X86X100
800003433	50	60	900	2	1	2	2	3	3	3	5	3	63X86X100
800003434	50	60	1000	2	1	2	2	3	3	3	5	4	63X86X100

* CASQUILLO CÓNICO

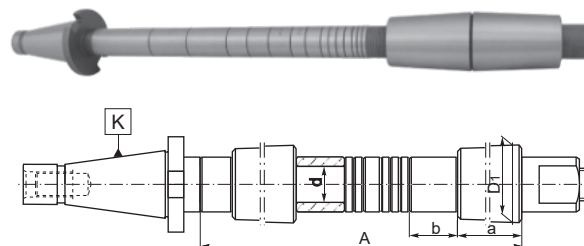
* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7188



CODE	K (7:24)	d	A	B RINGS (PER ALBERO)									d x D1 x a *
				B RINGS (PER ARBOR)									
				1	2	3	6	10	20	30	60	100	
800001215	40	22	315	2	2	1	3	1	3	2	-	-	22X47X80
800001216	40	22	400	2	1	2	2	2	4	2	1	-	22X47X80
800001217	40	22	500	2	1	2	2	2	3	2	3	-	22X47X80
800001218	40	27	315	2	2	1	3	3	2	2	-	-	22X47X80
800001219	40	27	400	2	1	2	2	4	3	2	1	-	22X47X80
800001220	40	27	500	2	3	2	3	4	3	3	2	-	22X47X80
800001221	40	27	630	4	4	4	3	2	2	3	3	1	22X47X80
800001222	40	32	315	2	2	1	3	3	2	2	-	-	32X47X80
800001223	40	32	400	2	1	2	2	4	3	3	2	-	32X47X80
800001224	40	32	500	2	3	2	3	4	3	3	2	-	32X47X80
800001225	40	32	630	4	4	4	3	2	2	3	3	1	32X47X80
800001226	50	22	315	2	2	3	2	2	2	1	-	-	22X70X100
800001227	50	22	400	2	1	2	2	3	3	3	-	-	22X70X100
800001228	50	22	500	2	1	2	2	4	3	2	2	-	22X70X100
800001229	50	22	630	2	1	2	2	4	2	3	4	-	22X70X100
800001230	50	27	315	2	2	3	2	2	2	1	-	-	22X70X100
800001231	50	27	400	2	1	2	2	3	3	3	-	-	22X70X100
800001232	50	27	500	2	1	2	2	4	3	2	2	-	22X70X100
800001233	50	27	630	4	4	4	3	4	2	3	2	1	22X70X100
800001234	50	27	800	4	4	4	3	2	2	4	3	2	22X70X100
800001235	50	32	315	2	2	3	2	2	2	1	-	-	32X70X100
800001236	50	32	400	2	1	2	2	3	3	3	-	-	32X70X100

* CASQUILLO CÓNICO

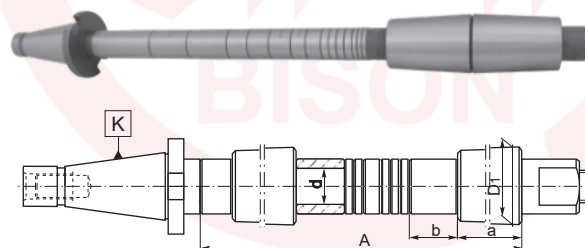
* DOUILLE CYLINDRIQUE

MANDRILES DE FRESADORA LARGOS

LONGS ARBRES POUR FRAISEUSES

DIN 2080

7188



CODE	K (7:24)	d	A	B RINGS (PER ALBERO)									d x D1 x a *
				B RINGS (PER ARBOR)									
				1	2	3	6	10	20	30	60	100	
800001237	50	32	500	2	1	2	2	4	3	2	2	-	32X70X100
800001238	50	32	630	4	4	4	3	4	2	3	2	1	32X70X100
800001239	50	32	800	4	4	4	3	2	2	4	3	2	32X70X100
800001240	50	32	900	4	4	4	3	2	2	4	3	3	32X70X100
800001241	50	32	1000	4	4	4	3	2	2	4	3	4	32X70X100
800001242	50	40	400	2	1	2	2	3	3	3	-	-	40X70X100
800001243	50	40	500	2	1	2	2	4	3	2	2	-	40X70X100
800001244	50	40	630	4	4	4	3	4	2	3	2	1	40X70X100
800001245	50	40	800	4	4	4	3	2	2	4	3	2	40X70X100
800001246	50	40	900	4	4	4	3	2	2	4	3	3	40X70X100
800001247	50	40	1000	4	4	4	3	2	2	4	3	4	40X70X100
800001248	50	50	400	2	1	2	2	3	3	3	-	-	50X86X100
800001249	50	50	500	2	1	2	2	4	3	2	2	-	50X86X100
800001250	50	50	630	4	4	4	3	4	2	3	2	1	50X86X100
800001251	50	50	800	4	4	4	3	2	2	4	3	2	50X86X100
800001252	50	50	900	4	4	4	3	2	2	4	3	3	50X86X100
800001253	50	50	1000	4	4	4	3	2	2	4	3	4	50X86X100
800001254	50	60	630	4	4	4	3	4	2	3	2	1	60X86X100
800001255	50	60	800	4	4	4	3	2	2	4	3	2	60X86X100
800001256	50	60	900	4	4	4	3	2	2	4	3	3	60X86X100
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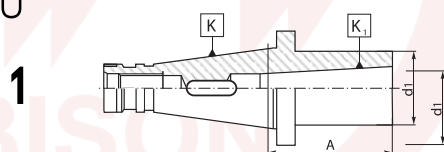
* INSERTO CILINDRICO

* DOUILLE CYLINDRIQUE

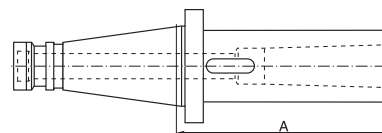
ADAPTADORES COMBINADOS CON CONO DE HERRAMIENTA CON AGUJERO ROSCADO O ESPIGA

ADAPTATEURS COMBINÉS À CÔNE MORSE POUR OUTILS À FILETAGE OU À TENON DE BARRE D'ATTELAGE

DIN 2080



2



1679



CODE	K (7:24)	K1 CM	A	d1	DISEGNO DRAWING
800000177	30	1	50	25	1
800000178	30	2*	50	32	1
800000179	30	3*	72	40	1
800000180	40	1	50	25	1
800000181	40	1	92	25	2
800000182	40	2	50	32	1
800000183	40	2	109	32	2
800000184	40	3*	65	40	1
800000185	40	3*	129	40	2
800000186	40	4*	95	48	1
800000187	40	4*	152	48	2
800000188	50	1	45	25	1
800000189	50	1	96	25	2
800000190	50	2	60	32	1
800000191	50	2	113	32	2
800000192	50	3	65	40	1
800000193	50	3	133	40	2
800000194	50	4	70	48	1
800000195	50	4	163	48	2
800000196	50	5*	105	63	1
800000197	50	5*	193	63	2

1679 QC

CAMBIO RAPIDO

CHANGEMENT RAPIDE



CODE	K (7:24)	K1 CM	A	d1	DISEGNO DRAWING
800000198	30	1	50	25	1
800000199	30	2*	50	32	1
800000200	30	3*	72	40	1
800000201	40	1	50	25	1
800000202	40	1	92	25	2
800000203	40	2	50	32	1
800000204	40	2	109	32	2
800000205	40	3*	65	40	1
800000206	40	3*	129	40	2
800000207	40	4*	95	48	1
800000208	40	4*	160	48	2

ADAPTADORES DE CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO

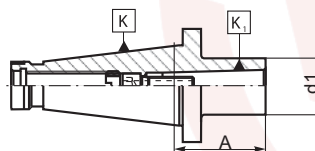
ADAPTATEURS À CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

DIN 2080

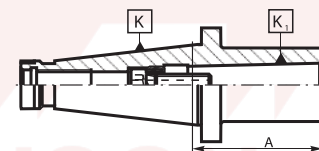
1676



1

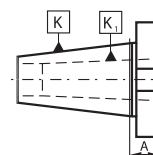
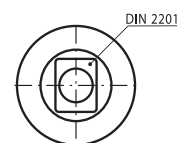


2



CODE	K (7:24)	K1 CM	A	d1	DISEGNO DRAWING
800000165	30	1	50	25	1
800000166	30	2	50	32	2
800000167	30	3	78	40	2
800000168	40	1	50	24	1
800000169	40	2	50	32	1
800000170	40	3	65	40	2
800000171	40	4	95	48	2
800000172	50	1	45	25	1
800000173	50	2	60	32	1
800000174	50	3	65	40	1
800000175	50	4	65	48	1
800000176	50	5	120	63	2

1653

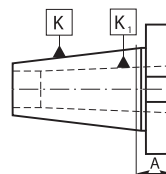


CODE	K (7:24)	K1 CM	A
800000096	40	3	38
800000097	40	4	61
800000098	50	3	16
800000099	50	4	22
800000100	50	5	51

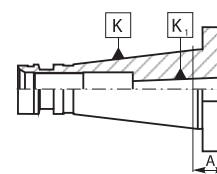
1655



1



2



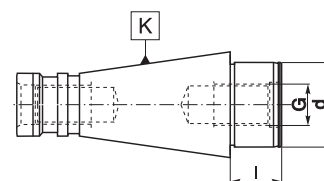
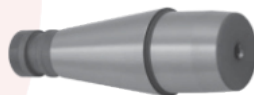
CODE	K (7:24)	K1 CM	A	DISEGNO DRAWING
800000101	30	2	18	1
800000102	30	3	72	1
800000103	40	1	14	2
800000104	40	2	14	1
800000105	40	3	14	1
800000106	40	4	43	1
800000107	40	4	67	1
800000108	50	1	17	2
800000109	50	2	21	1
800000110	50	3	21	1
800000111	50	4	21	1
800000112	50	5	65	1

HUSILLOS PORTAFRESAS DE CENTRADO

PORTE-FICHES DE CENTRAGE

DIN 2080

7350



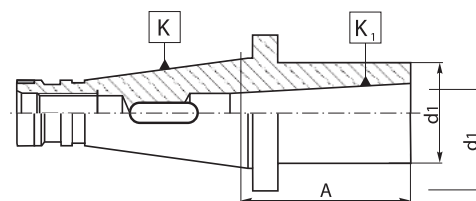
CODE	K (7:24)	d	l	G
800001485	40	40	30	M20
800001486	40	40	40	-
800001487	40	50	29	M24
800001488	50	40	30	M20
800001489	50	50	30	M24
800001490	50	50	40	-
800001491	50	60	40	M30
800001492	50	60	48	-
800001493	60	60	40	-
800001494	60	60	48	-

ADAPTADORES DE CONO MORSE PARA HERRAMIENTAS DE ESPIGA

ADAPTATEURS DE CÔNE MORSE POUR OUTILS À TENON

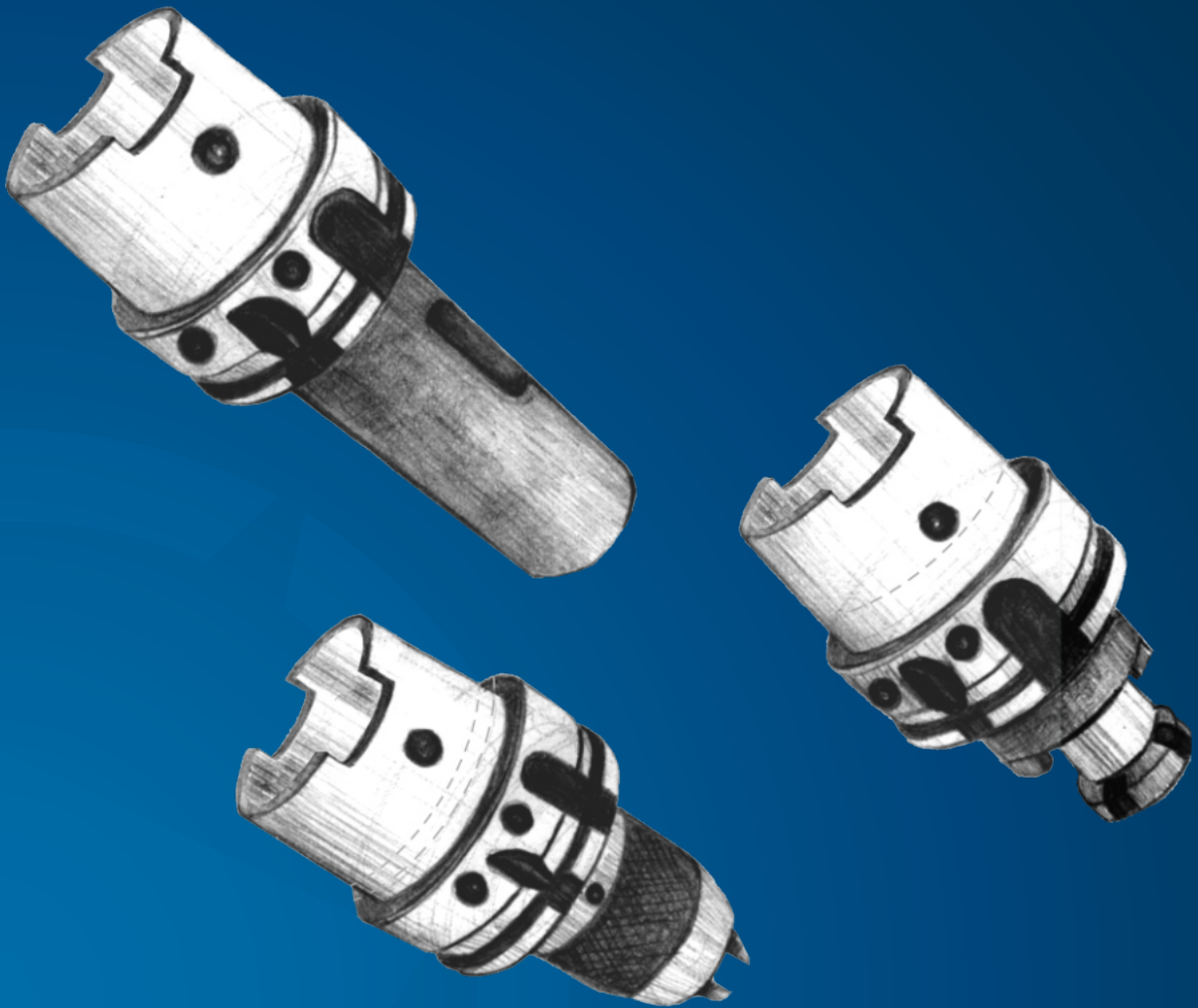
DIN 2080

1657



CODE	K (7:24)	K1 CM	A	d1
800000113	30	1	50	25
800000114	30	2	57	32
800000115	30	3	72	40
800000116	40	1	50	25
800000117	40	2	50	32
800000118	40	3	65	40
800000119	40	4	95	48
800000120	40	5	170	63
800000121	50	2	23	32
800000122	50	3	33	40
800000123	50	4	53	48
800000124	50	5	86	63

HSK-A (DIN 69893-A)



HUSILLOS PORTAFRESAS TIPO WELDON

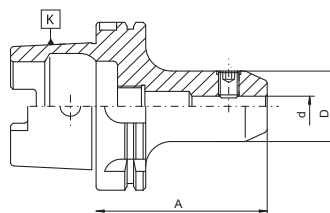
MANDRINS PORTE-FRAISE WELDON TYPE

HSK-A - DIN 69893-A

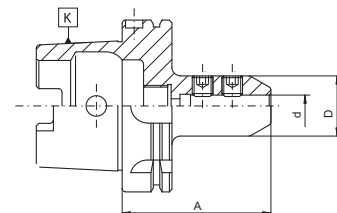
7885



1



2



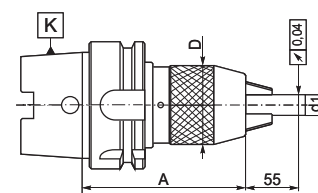
CODE	K HSK-A	d	A	D	DISEGNO DRAWING
800002719	63	6	65	25	1
800003456	63	6	120	25	1
800003457	63	6	160	25	1
800002720	63	8	65	28	1
800003458	63	8	120	28	1
800003459	63	8	160	28	1
800002721	63	10	65	35	1
800003460	63	10	120	35	1
800003461	63	10	160	35	1
800002722	63	12	80	42	1
800003462	63	12	120	42	1
800003463	63	14	80	44	1
800003464	63	14	120	44	1
800002723	63	16	80	48	1
800003465	63	16	120	48	1
800003466	63	18	80	50	1
800002724	63	20	80	52	1
800002725	63	25	110	63	2
800002726	63	32	110	72	2
800006288	100	6	80	25	1
800006289	100	8	80	28	1
800006290	100	10	80	35	1
800006291	100	12	80	42	1
800006292	100	14	80	44	1
800006293	100	16	100	48	1
800006294	100	18	100	50	1
800006295	100	20	100	52	1
800006296	100	25	100	63	2
800006297	100	32	100	72	2
800006298	100	40	100	80	2

PORTABROCAS DE SUJECIÓN RÁPIDA

MANDRIN DE PERÇAGE À SERRAGE RAPIDE

HSK-A - DIN 69893-A

5391



CODE	K HSK-A	d1	A	D
800000902	63	1-13	150	50
800000903	63	3-16	157	57

HUSILLOS PORTAFRESAS TIPO WHISTLE-NOTCH

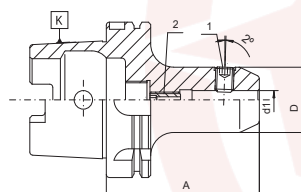
WHISTLE-NOTCH TYPE MANDRINS PORTE-FRAISE

HSK-A - DIN 69893-A

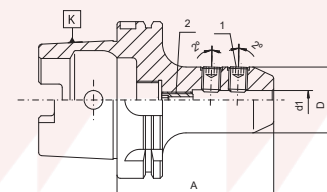
7886



1



2



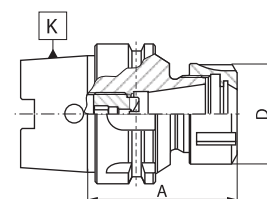
CODE	K HSK-A	d	A	D	DISEGNO DRAWING
800006299	100	6	90	25	1
800006300	100	8	90	28	1
800006301	100	10	90	35	1
800006302	100	12	100	42	1
800006303	100	14	100	44	1
800006304	100	16	100	48	1
800006305	100	18	100	50	1
800006306	100	20	110	52	1
800006307	100	25	120	65	2
800006308	100	32	120	72	2
800006309	100	40	120	80	2

HUSILLOS PORTAPINCES PARA PINZAS ER

MANDRINS À PINCES ER

HSK-A - DIN 69893-A

7887

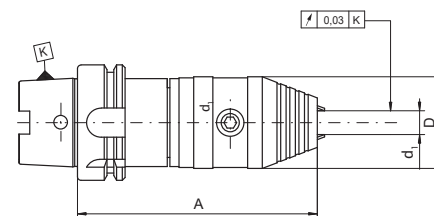


CODE	K HSK-A	TALLA TAILLE	A	CAMPO DI SERRAGGIO GAMME DE SERRAGE	D
800003467	63	ER11	63	2-7	19
800003468	63	ER11	100	2-7	19
800003469	63	ER16	90	2-10	32
800003470	63	ER16	100	2-10	32
800003471	63	ER16	120	2-10	32
800003472	63	ER16	160	2-10	32
800002727	63	ER25	80	2-16	42
800003473	63	ER25	160	2-16	42
800002728	63	ER32	100	2-20	50
800003474	63	ER32	160	2-20	50
800002729	63	ER40	120	2-26	63
800006285	100	ER25	100	2-16	42
800006286	100	ER32	100	2-20	50
800006287	100	ER40	100	2-26	63

PORTABROCAS DE ROTACIÓN HORARIA Y ANTIHORARIA MANDRINS DE PERÇAGE DANS LE SENS HORAIRE ET ANTIHORAIRE

HSK-A - DIN 69893-A

5392

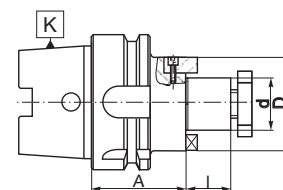


CODE	K HSK-A	d1	A	H	D
800006581	63	1-13	40 Nm	163	1
800006582	63	3-16	45 Nm	163	1
800006583	100	1-13	40 Nm	170	1
800006584	100	3-16	45 Nm	170	1

HUSILLOS PORTAFRESAS DE AGUJERO LISO MANDRINS PORTE-FRAISES ALÉSAGE LISSE

HSK-A - DIN 69893-A

7888

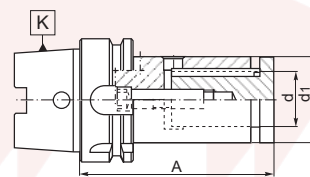


CODE	K HSK-A	d	A	L	D
800002730	63	16	45	17	32
800003400	63	16	80	17	32
800003401	63	16	145	17	32
800002731	63	22	50	19	40
800003402	63	22	80	19	40
800003403	63	22	150	19	40
800002732	63	27	60	21	48
800003404	63	27	155	21	48
800002733	63	32	60	24	58
800002734	63	40	60	27	70
800006325	100	22	50	19	40
800006326	100	27	50	21	48
800006327	100	32	50	24	58
800006328	100	40	60	27	70
800006329	100	50	70	30	90

ADAPTADOR PORTAFRESAS PARA FRESA DE DISCO Y NIVELADORA PORTE-FRAISES POUR FRAISES À DISQUE

HSK-A - DIN 69893-A

7872

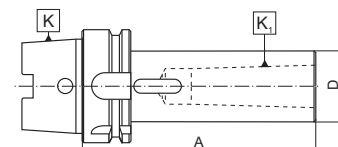


CODE	K HSK-A	d	d1	A
800003396	63	16	29	125
800003397	63	22	36	125
800003398	63	27	42	125
800003399	63	32	50	125

ADAPTADOR DE CONO MORSE PARA HERRAMIENTAS DE ESPIGA ADAPTATEUR DE CÔNE MORSE POUR OUTILS À TENON

HSK-A - DIN 69893-A

7890



CODE	K HSK-A	K1CM	A	D
800002735	63	1	100	25
800002736	63	2	120	32
800002737	63	3	140	40
800002738	63	4	160	48
800006310	100	1	110	25
800006311	100	2	120	32
800006312	100	3	150	40
800006313	100	4	170	48
800006314	100	5	200	63

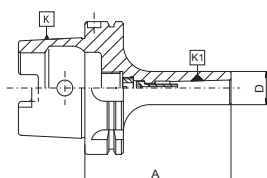
ADAPTADOR DE CONO MORSE PARA HERRAMIENTAS CON AGUJERO ROSCADO ADAPTATEURS À CÔNE MORSE POUR OUTILS AVEC TROU FILETÉ

HSK-A - DIN 69893-A

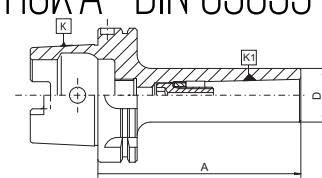
7892



1



2

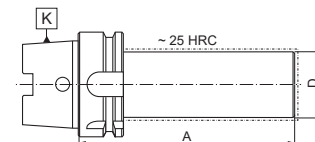


CODE	K HSK-A	K1CM	A	D	DISEGNO DRAWING
800006315	100	1	110	25	1
800006316	100	2	120	32	1
800006317	100	3	150	40	2
800006318	100	4	170	48	2
800006319	100	5	200	63	2

PORTA-HERRAMIENTAS SEMI ACABADOS ÉBAUCHES DE BARRE D'ALÉSAGE

HSK-A - DIN 69893-A

7891

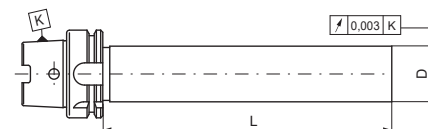


CODE	K HSK-A	D	A
800002739	63	63	125
800003405	63	80	250
800006330	100	97	250

MANDRIL DE INSPECCIÓN ARBRES DE COMMANDE

HSK-A - DIN 69893-A

2856

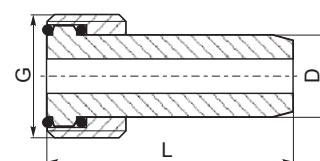


CODE	K HSK-A	D	A
800006696	63	40	300
800006697	100	50	300

MANGUERAS REFRIGERANTES TUBES DE REFROIDISSEMENT

HSK-A - DIN 69893-A

1313



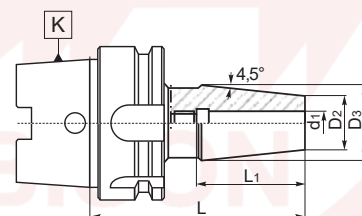
CODE	K HSK-A	G	L	D
800003721	63	M24 x 1.5	36.5	12
800006824	100	M24 x 1.5	44	16

PORTA-HERRAMIENTAS TERMICOS

PORTE-OUTILS THERMIQUES

HSK-A - DIN 69893-A

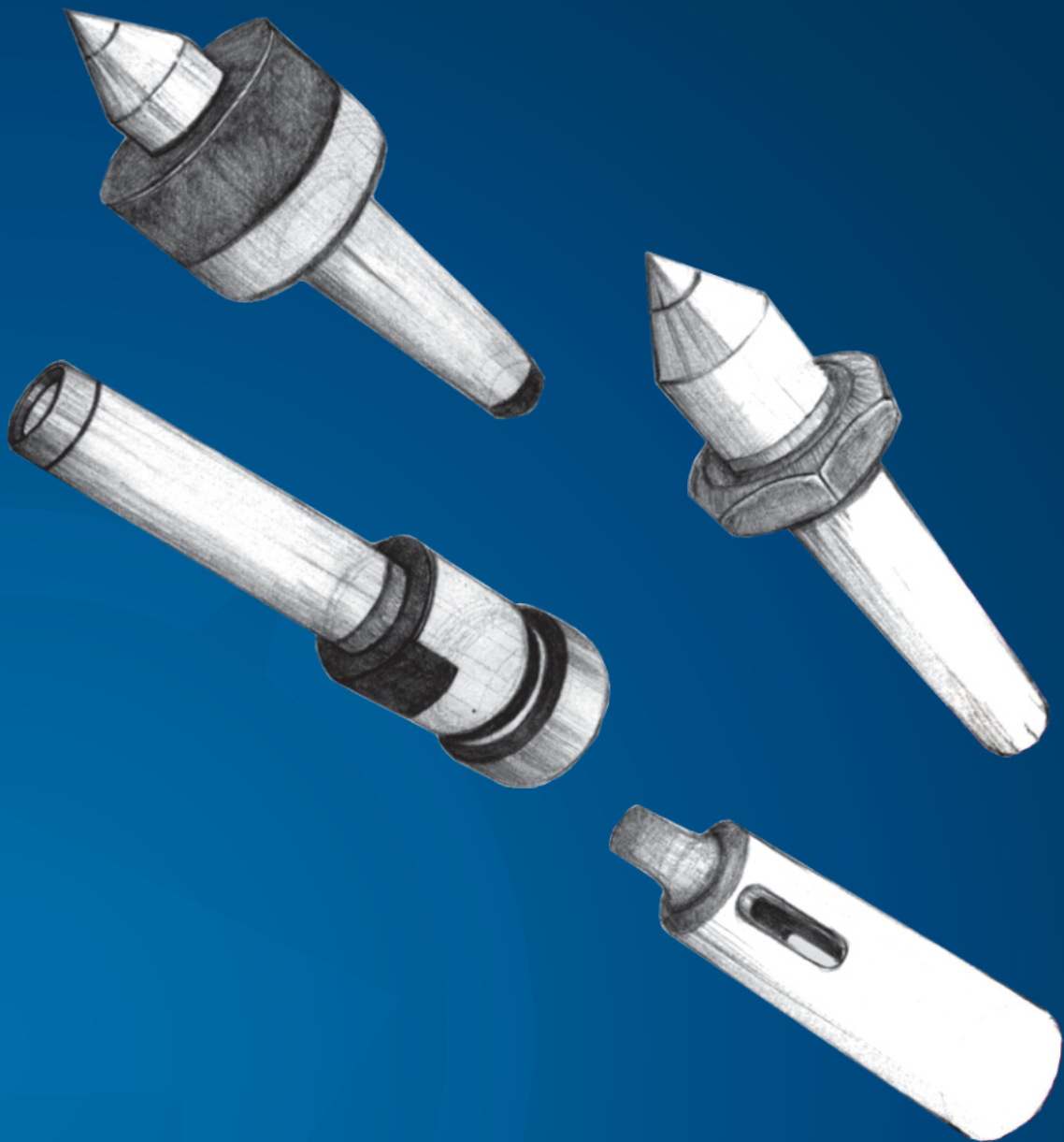
7634



CODE	K HSK-A	d1	L	L1	D2	D3
800006449	63	3	80	36	14	22
800006450	63	3	120	36	14	22
800006451	63	3	160	36	14	22
800006452	63	4	80	36	14	22
800006453	63	4	120	36	14	22
800006454	63	4	160	36	14	22
800006455	63	5	80	36	16	22
800006456	63	5	120	36	16	22
800006457	63	5	160	36	16	22
800006458	63	6	80	36	21	27
800006459	63	6	120	36	21	27
800006460	63	6	160	36	21	27
800006461	63	8	80	36	21	27
800006462	63	8	120	36	21	27
800006463	63	8	160	36	21	27
800006464	63	10	85	42	24	32
800006465	63	10	120	42	24	32
800006466	63	10	160	42	24	32
800006467	63	12	90	47	24	32
800006468	63	12	120	47	24	32
800006469	63	12	160	47	24	32
800006470	63	14	90	47	27	34
800006471	63	14	120	47	27	34
800006472	63	14	160	47	27	34
800006473	63	16	95	50	27	34
800006474	63	16	120	50	27	34
800006475	63	16	160	50	27	34
800006476	63	18	95	50	33	42
800006477	63	18	120	50	33	42
800006478	63	18	160	50	33	42
800006479	63	20	100	52	33	42
800006480	63	20	120	52	33	42
800006481	63	20	160	52	33	42

CODE	K HSK-A	d1	L	L1	D2	D3
800006482	63	25	115	58	44	53
800006483	63	25	120	58	44	53
800006484	63	25	160	58	44	53
800006485	63	32	115	58	44	53
800006486	100	6	85	36	21	27
800006487	100	6	120	36	21	27
800006488	100	6	160	36	21	27
800006489	100	8	85	36	21	27
800006490	100	8	120	36	21	27
800006491	100	8	160	36	21	27
800006492	100	10	90	42	24	32
800006493	100	10	120	42	24	32
800006494	100	10	160	42	24	32
800006495	100	12	95	47	24	32
800006496	100	12	120	47	24	32
800006497	100	12	160	47	24	32
800006498	100	14	95	47	27	34
800006499	100	14	120	47	27	34
800006500	100	14	160	47	27	34
800006501	100	16	100	50	27	34
800006502	100	16	120	50	27	34
800006503	100	16	160	50	27	34
800006504	100	18	100	50	33	42
800006505	100	18	120	50	33	42
800006506	100	18	160	50	33	42
800006507	100	20	105	52	33	42
800006508	100	20	120	52	33	42
800006509	100	20	160	52	33	42
800006510	100	25	115	58	44	53
800006511	100	25	160	58	44	53
800006512	100	32	120	58	44	53
800006513	100	32	160	58	44	53

DIN 228

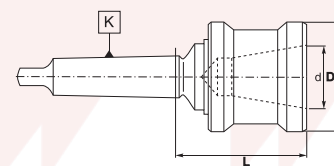


PORTA-HERRAMIENTAS CAMBIO RAPIDO

PORTE-OUTILS À CHANGEMENT RAPIDE

DIN 228

1721



CODE	TALLA TAILLE	K CM	d	D	L
800000287	2-40	2	40	65	82.5
800000288	3-40	3	40	65	81
800000289	4-40	4	40	65	80
800000290	4-51	4	51.5	83	102
800000291	5-51	5	51.5	83	98.5

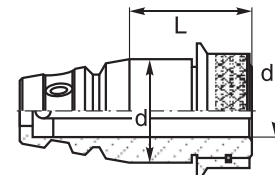
INSERTOS PARA PORTA-HERRAMIENTAS CAMBIO RAPIDO

CON REGULACIÓN AXIAL

INSERTS POUR PORTE-OUTILS À CHANGEMENT RAPIDE AVEC RÉGLAGE AXIAL

DIN 228

5217



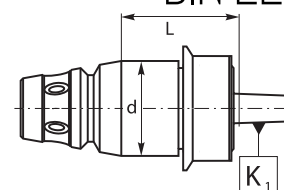
CODE	TALLA TAILLE	d	d ₁	L
800000738	40-20	40	20	54
800000739	51-28	51.5	28	55

ADAPTADORES DE CAMBIO RÁPIDO PARA PORTABROCAS

CHANGEMENT RAPIDE ADAPTERS POUR MANDRINS DE PERÇAGE

DIN 228

5366



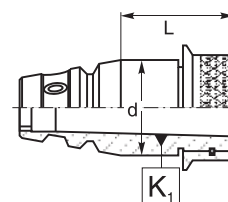
CODE	TALLA TAILLE	d	K ₁ DIN	L
800000844	40-B12	40	B12	32.5
800000845	40-B16	40	B16	34
800000846	51-B16	51.5	B16	39

INSERTOS PARA PORTA-HERRAMIENTAS CAMBIO RAPIDO CON CONO MORSE

CHANGEMENT RAPIDE ADAPTERS POUR MORSE TAPERS

DIN 228

5216



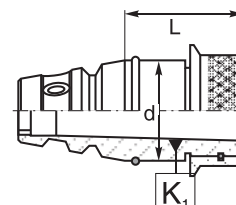
CODE	TALLA TAILLE	d	K ₁ CM	L
800000731	40-1	40	1	29
800000732	40-2	40	2	29
800000733	40-3	40	3	47
800000734	51-1	51.5	1	34
800000735	51-2	51.5	2	34
800000736	51-3	51.5	3	34
800000737	51-4	51.5	4	57

INSERTOS PARA PORTA-HERRAMIENTAS CAMBIO RAPIDO PARA ESCARIADORES

CHANGEMENT RAPIDE ADAPTERS POUR ALÉSOIRS

DIN 228

5219



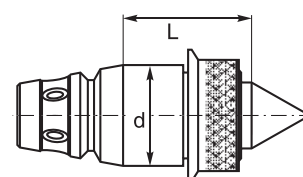
CODE	TALLA TAILLE	d	K ₁ CM	L
800000731	40-1	40	1	29
800000732	40-2	40	2	29
800000733	40-3	40	3	47

INSERTOS PARA PORTA-HERRAMIENTAS CAMBIO RAPIDO CON PUNTO

CHANGEMENT RAPIDE ADAPTERS AVEC CONTRE-POINTE

DIN 228

5367



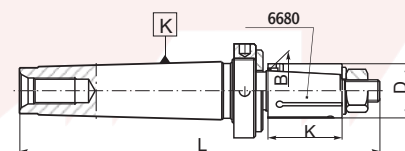
CODE	TALLA TAILLE	d	L
800000847	40-60	40	61
800000848	51-60	51.5	66

JUEGO DE EJES PARA MANDRILES CON PINZA DE RESORTE

JEU D'ARBRES DE BROCHE POUR MANDRINS À PINCES DE SERRAGE À RESSORT

DIN 228

6610



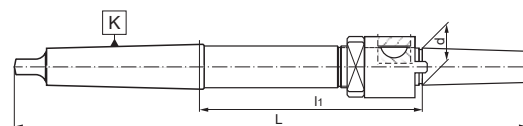
CODE	K CM	D	L	B	K
800000904	3	12-14	141	9.7	22
800000905	3	15-18	150	11.7	27
800000906	3	19-22	160	14.7	32
800000907	4	23-27	190	17.7	37
800000908	4	28-32	200	21.7	42
800000909	4	33-38	210	25.6	48
800000910	5	40-45	255	31.6	54
800000911	5	46-52	265	37.6	60
800000912	5	55-60	285	44.5	70
800000913	5	63-70	310	51.5	80

MANDRILES PORTA-ESCARIADORES

PORTE-OUTILS POUR ALÉSOIRS

DIN 228

5310



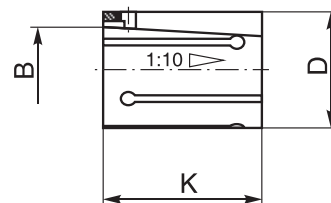
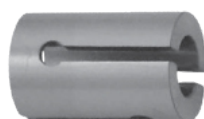
CODE	K CM	d	L	l ₁
800000743	2	10	220	105.8
800000744	3	13	250	111.9
800000745	3	16	261	117.9
800000746	3	19	270	121.1
800000747	3	22	278	122.1
800000748	4	19	298	125.6
800000749	4	22	312	132.6
800000750	4	27	325	137.6
800000751	4	32	345	148.9
800000752	5	27	359	139.6
800000753	5	32	376	147.9
800000754	5	40	396	157.9
800000755	5	50	416	167.9

ABRAZADERAS DE RESORTE PARA EJES TIPO 6610

PINCES À RESSORT POUR ARBRES TYPE 6610

DIN 228

6680



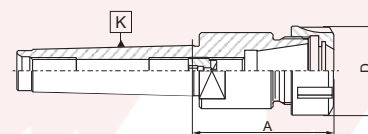
CODE	D	B	K
800003516	12	9.7	22
800003517	13	9.7	22
800003518	14	9.7	22
800003519	15	11.7	27
800003520	16	11.7	27
800003521	17	11.7	27
800003522	18	11.7	27
800003523	19	14.7	32
800003327	20	14.7	32
800003524	21	14.7	32
800003525	22	14.7	32
800003526	23	17.7	37
800003527	24	17.7	37
800003528	25	17.7	37
800003529	26	17.7	37
800003530	27	17.7	37
800003531	28	21.7	42
800003532	30	21.7	42
800003533	32	21.7	42
800003534	33	25.6	48
800003535	34	25.6	48
800003536	35	25.6	48
800003537	36	25.6	48
800003538	38	25.6	48
800003539	40	31.6	54
800003540	42	31.6	54
800003541	44	31.6	54
800003542	45	31.6	54
800003543	46	37.6	60
800003544	48	37.6	60
800003545	50	37.6	60
800003546	52	37.6	60
800003547	55	44.5	70
800003548	58	44.5	70
800003549	60	44.5	70
800003550	63	51.5	80
800003551	65	51.5	80
800003552	68	51.5	80
800003553	70	51.5	80

HUSILLOS PORTAPINCES PARA PINZAS ER

MANDRINS À PINCES ER

DIN 228

7711



CODE	K CM	TALLA TAILLE	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	D
800002402	2	ER16	43.5	2-10	32
800002403	2	ER20	47.5	2-13	35
800005134	2	ER25	57.0	2-16	42
800002404	2	ER32	65.5	2-20	50
800002405	3	ER16	43.5	2-10	32
800002406	3	ER20	45.5	2-13	35
800002407	3	ER25	68.0	2-16	42
800002408	3	ER32	73.5	2-20	50
800005135	3	ER40	85.0	2-26	63
800002409	4	ER25	54.5	2-16	42
800002410	4	ER32	84.0	2-20	50
800003780	4	ER40	80.0	2-26	63
800002411	5	ER32	65.5	2-20	50
800002412	5	ER40	67.5	2-26	63

7711-KPL SET

CODE	K CM	TALLA TAILLE	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS N. DE PINCES
800002413	2	ER16	43.5	2-10	8
800002414	2	ER20	47.5	2-13	11
800002415	2	ER32	65.5	2-20	18
800002416	3	ER16	43.5	2-10	8
800002417	3	ER20	45.5	2-13	11
800002418	3	ER25	68	2-16	14
800002419	3	ER32	73.5	2-20	18
800002420	4	ER25	54.5	2-16	14
800002421	4	ER32	84	2-20	18
800002422	5	ER32	65.5	2-20	18
800002423	5	ER40	67.5	2-26	24



PINZAS INCLUIDAS: Ø 4, 5, 6, 8, 10, 12, 16, 20
PINCES INCLUS:

7711-PL SMALL SET

CODE	K CM	TALLA TAILLE	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS N. DE PINCES
800002424	3	ER32	73.5	3-20	8
800002425	4	ER32	84	3-20	8
800002426	5	ER32	65.5	3-20	8

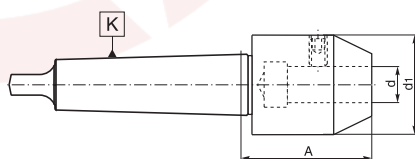
HUSILLOS PORTAFRESAS TIPO WELDON

MANDRINS PORTE-FRAISE WELDON TYPE

DIN 228



7720
CON ESPIGA
AVEC TENON



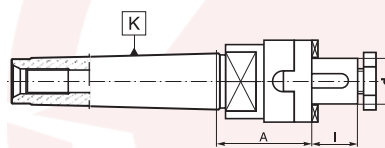
7720
CON ROSCA DE TRACCION
AVEC FILET DE TIMON

CODE		K CM	d	d1	A
7720	7721				
800002427	800002449	2	6	25	50.0
800002428	800002450	2	8	28	50.0
800002429	800002685	2	10	35	55.0
800002430	800002686	2	12	42	68.0
800002431	800002687	2	16	48	70.0
800002432	800002688	3	6	25	50.0
800002433	800002689	3	8	28	50.0
800002434	800002690	3	10	35	55.0
800003499	800002691	3	12	42	68.0
800002435	800002692	3	16	48	76.0
800002436	800002693	3	20	52	76.0
800002437	800002694	4	6	25	51.5
800002438	800002695	4	8	28	51.5
800002439	800002696	4	10	35	56.5
800002440	800002697	4	12	42	62.5
800002441	800002698	4	16	48	62.5
800002442	800002699	4	20	52	77.5
800002443	800002700	5	6	25	51.5
800002444	800002701	5	8	28	51.5
800002445	800002702	5	10	35	62.5
800002446	800002703	5	12	42	69.5
800002447	800002704	5	16	48	69.5
800002448	800002705	5	20	52	69.5

HUSILLOS PORTAFRESAS COMBINADOS MANDRINS PORTE-FRAISES COMBINÉE

DIN 228

7430

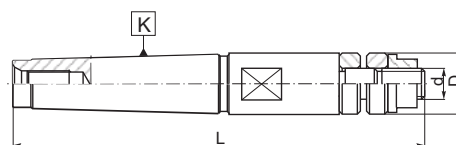


CODE	K CM	d	A	I
800001686	2	16	46	17
800001687	2	16	61	17
800001688	2	22	46	19
800001689	2	22	61	19
800001690	3	16	48	17
800001691	3	16	63	17
800001692	3	22	48	19
800001693	3	22	63	19
800001694	3	27	48	21
800001695	3	27	63	21
800001696	3	32	63	24
800001697	4	16	55	17
800001698	4	16	70	17
800001699	4	22	55	19
800001700	4	22	70	19
800001701	4	27	55	21
800001702	4	27	70	21
800001703	4	32	55	24
800001704	4	32	70	24
800001705	4	40	70	27
800001706	5	16	75	17
800001707	5	22	75	19
800001708	5	27	75	21
800001709	5	32	75	24
800001710	5	40	75	27
800001711	5	50	75	30

ÁRBOLES DE FRESADO PARA FRESAS DE DISCO PORTE-FRAISE ARBRES POUR FRAISES À DISQUE

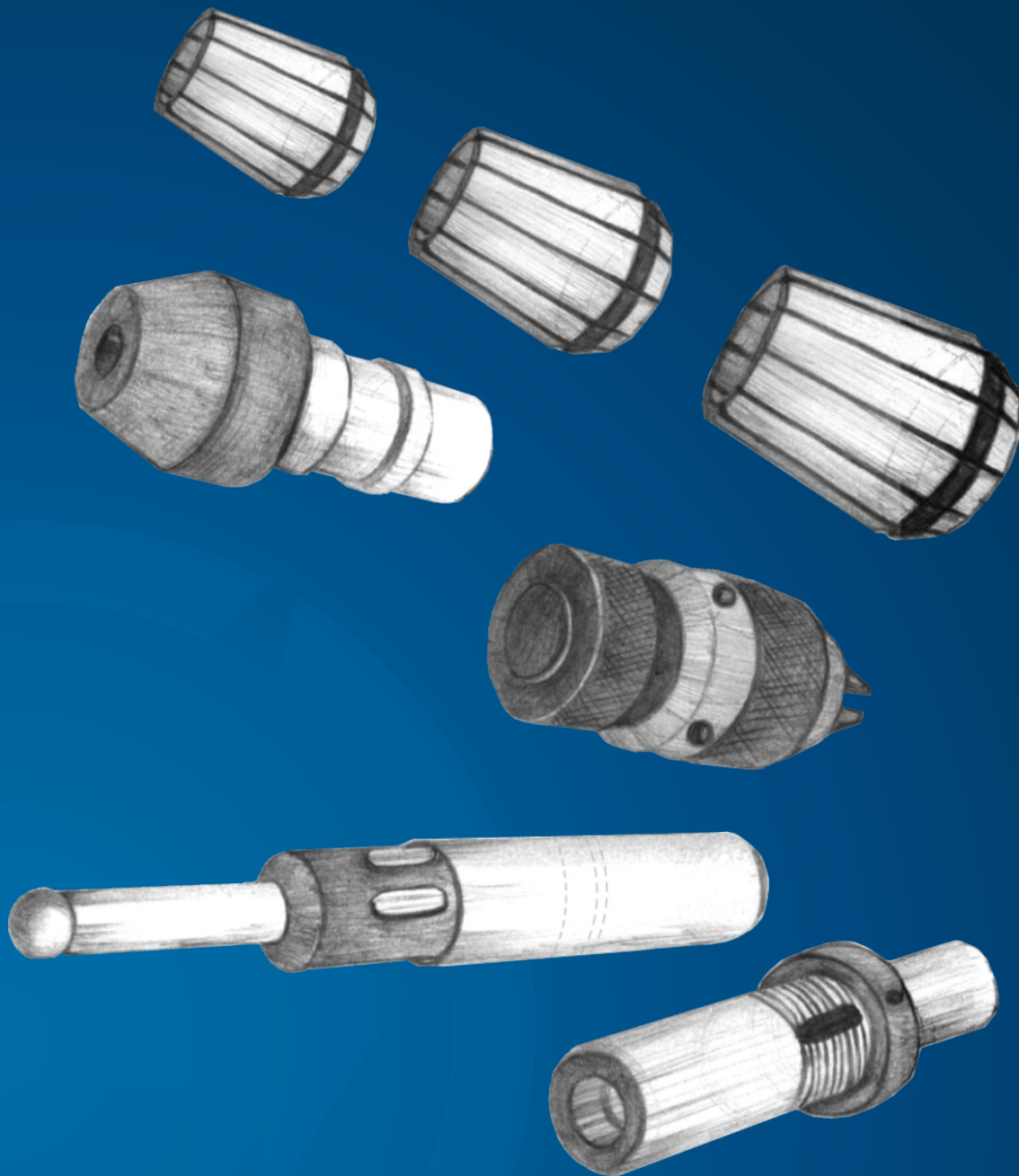
DIN 228

7450



CODE	K CM	d	D	L
800001712	2	5	10	105
800001713	2	8	15	125
800001714	2	10	20	135
800001715	3	13	25	165
800001716	3	16	32	180
800001717	4	22	40	215.5
800001718	4	27	50	220.5
800001719	4	32	63	225.5
800001720	4	40	80	235.5
800001721	5	50	100	282

HUSILLOS VARIOS DIVERSES BROCHES

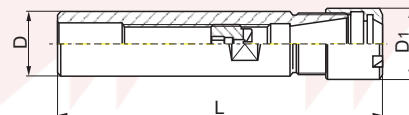


HUSILLOS PORTAPINZAS PARA PINZAS ER

MANDRINS À PINCES POUR PINCES ER

DIN 1835

7812



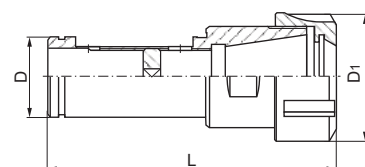
CODE	D	MISURA TAILLE	L	RANGO DE SUJECIÓN GAMME DE SERRAGE	D ₁
800002706	16	ER16	160	2-10	22
800002707	20	ER16	100	2-10	22
800002708	20	ER16	160	2-10	22

7812 PL



CODE	D	MISURA TAILLE	L	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS N. DE PINCES
800002709	16	ER16	160	2-10	8
800002710	20	ER16	100	2-10	8
800002711	20	ER16	160	2-10	8

7815



CODE	D	MISURA TAILLE	L	RANGO DE SUJECIÓN GAMME DE SERRAGE	D ₁
800002717	32	ER32	110	2-20	50
800002718	40	ER32	117	2-20	50

CASQUILLOS REDUCTORES PARA HUSILLOS PORTAFRESAS TIPO WELDON

REDUCTION ADAPTERS POUR MANDRINS PORTE-FRAISE WELDON TYPE

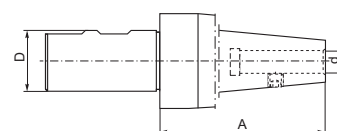
DIN 1835

BISON

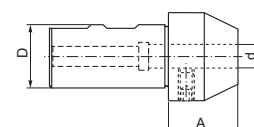
7622



1



2



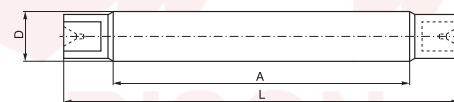
CODE	D	d	A	DISEGNO DRAWING
800001982	20	6	30	2
800001983	20	8	30	2
800001984	20	10	30	2
800001985	20	12	35	2
800001986	32	6	25	2
800001987	32	8	25	2
800001988	32	10	30	2
800001989	32	12	35	2
800001990	32	14	40	2
800001991	32	16	40	2
800001992	32	18	40	2
800001993	32	20	40	2
800001994	40	8	175	1
800001995	40	10	175	1
800001996	40	12	175	1
800001997	40	16	175	1
800001998	40	20	175	1
800001999	40	25	175	1
800002000	40	32	180	1

FIJACIONES PARA HUSILLOS DE TORNO

ATTACHMENTS POUR MANDRINS DE TOUR

DIN 1835

8500



CODE	D	A	L
800002757	3	36	55
800002758	3,2	45	65
800002759	3,5	45	65
800002760	4	45	65
800002761	4,5	50	70
800002762	5	50	70
800002763	6	50	70
800002764	7	65	85
800002765	8	65	85
800002766	9	71	95
800002767	10	71	95
800002768	11	87	115
800002769	12	87	115
800002770	13	87	115
800002771	14	87	115
800002772	15	96	130
800002773	16	96	130
800002774	17	96	130
800002775	18	96	130
800002776	19	124	160
800002777	20	124	160
800002778	21	124	160
800002779	22	124	160
800002780	23	130	170
800002781	24	130	170
800002782	25	130	170
800002783	26	130	170
800002784	27	137	185
800002785	28	137	185
800002786	30	137	185
800002787	32	170	220
800002788	34	170	220
800002789	35	178	230
800002790	36	178	230

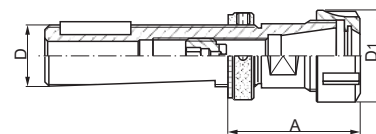
CODE	D	A	L
800002791	37	178	230
800002792	38	178	230
800002793	40	187	245
800002794	42	187	245
800002795	44	187	245
800002796	45	199	265
800002797	46	199	265
800002798	48	199	265
800002799	50	199	265
800002800	52	231	305
800002801	54	231	305
800002802	55	231	305
800002803	56	231	305
800002804	58	231	305
800002805	60	231	305
800002806	62	248	330
800002807	63	248	330
800002808	65	248	330
800002809	68	248	330
800002810	70	248	330
800002811	71	266	360
800002812	72	266	360
800002813	75	266	360
800002814	78	266	360
800002815	80	266	360
800002816	82	298	400
800002817	85	298	400
800002818	88	298	400
800002819	90	298	400
800002820	92	316	430
800002821	95	316	430
800002822	98	316	430
800002823	100	316	430

HUSILLOS PORTAPINCES PARA PINZAS ER

MANDRINS À PINCES POUR PINCES ER

DIN 6327

7813



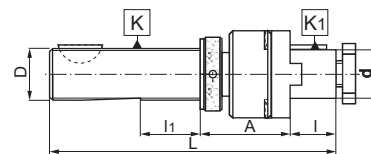
CODE	D	MISURA TAILLE	A	RANGO DE SUJECIÓN GAMME DE SERRAGE	D ₁
800002712	28	ER25	60	2-16	42
800002713	28	ER32	70	2-20	50
800002714	36	ER32	65	2-20	50
800002715	36	ER40	78	3-26	63
800002716	48	ER40	82	3-26	63

HUSILLOS PORTAPINCES PARA PINZAS ER

MANDRINS À PINCES POUR PINCES ER

DIN 6327

7510



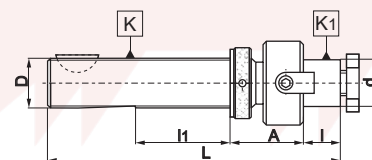
CODE	K D	K ₁ d	L	l ₁	A	I
800001722	20	16	133	20	50	17
800001723	20	22	138	20	50	19
800001724	28	16	140	30	50	17
800001725	28	22	145	30	50	19
800001726	28	27	155	30	50	21
800001727	28	32	155	30	50	24
800001728	36	16	165	36	50	17
800001729	36	22	170	36	50	19
800001730	36	27	175	36	50	21
800001731	36	32	180	36	50	24
800001732	48	16	190	47	50	17
800001733	48	22	195	47	50	19
800001734	48	27	200	47	50	21
800001735	48	32	205	47	50	24
800001736	48	40	210	47	50	27

HUSILLOS PORTAFRESAS DE AGUJERO LISO

MANDRINS PORTE-FRAISES À ALÉSAGE LISSE

DIN 6327

7520



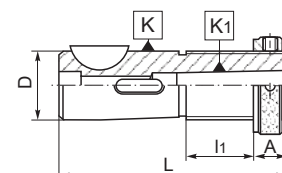
CODE	K D	K ₁ d	L	l ₁	A	I
800001737	28	16	140	30	36	17
800001738	28	22	142	30	36	19
800001739	28	27	144	30	36	21
800001740	28	32	149	30	38	24
800001741	36	16	163	36	38	17
800001742	36	22	165	36	38	19
800001743	36	27	167	36	38	21
800001744	36	32	172	36	40	24
800001745	48	16	189	47	42	17
800001746	48	22	191	47	42	19
800001747	48	27	193	47	42	21
800001748	48	32	198	47	44	24
800001749	48	40	202	47	45	27

INSERTOS AJUSTABLES PARA HERRAMIENTAS DE CONO MORSE

INSERTS RÉGLABLES POUR OUTILS À CÔNE MORSE

DIN 6327

1830

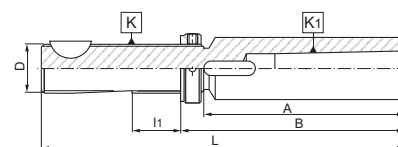


CODE	K D	K ₁ CM	L	l ₁	A
800000485	16	1	85	28	12
800000486	20	1	88	28	12
800000487	28	1	95	30	12
800000488	28	2	95	30	12
800000489	36	1	118	36	14
800000490	36	2	118	36	14
800000491	36	3	118	36	14
800000492	48	1	144	47	18
800000493	48	2	144	47	18
800000494	48	3	144	47	18
800000495	48	4	144	47	18

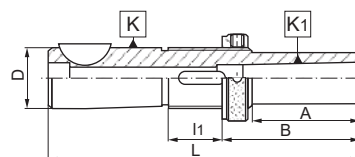
INSERTOS AJUSTABLES PARA HERRAMIENTAS DE CONO MORSE

INSERTS RÉGLABLES POUR OUTILS À CÔNE MORSE

DIN 6327

1831

CODE	K D	K ₁ CM	L	A	l ₁	B
800000496	16	1	164	79	28	91
800000497	16	2	179	94	30	106
800000498	20	2	182	94	30	106
800000499	28	3	212	117	36	129
800000500	36	4	264	146	36	160

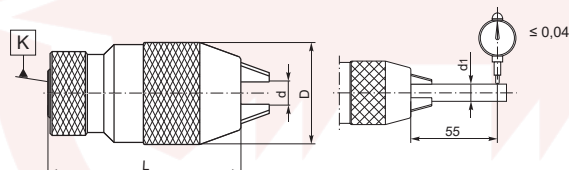
1833

CODE	K D	K ₁ CM	L	A	l ₁	B
800000501	16	1	25	110	28	37
800000502	16	1	50	135	28	62
800000503	16	1	75	135	28	87
800000504	16	1	100	185	28	112
800000505	20	1	25	135	28	37
800000506	20	1	50	138	28	62
800000507	20	1	75	163	28	87
800000508	20	1	100	188	28	112
800000509	28	1	25	120	30	37
800000510	28	1	50	145	30	62
800000511	28	1	75	170	30	87
800000512	28	1	100	195	30	87
800000513	28	2	25	120	30	37
800000514	28	2	50	145	30	62
800000515	28	2	75	170	30	87
800000516	28	2	100	195	30	112
800000517	36	2	30	148	36	44
800000518	36	2	60	178	36	74
800000519	36	2	90	208	36	104
800000520	36	2	120	238	36	134
800000521	36	3	30	148	36	44
800000522	36	3	60	178	36	74
800000523	36	3	90	208	36	104
800000524	36	3	120	238	36	134
800000525	48	3	40	184	47	58
800000526	48	3	80	224	47	98
800000527	48	3	120	264	47	138
800000528	48	3	160	304	47	178
800000529	48	4	40	184	47	58
800000530	48	4	80	224	47	98
800000531	48	4	120	264	47	138
800000532	48	4	160	304	47	178

PORTABROCAS DE SUJECIÓN RÁPIDA PARA USO INDUSTRIAL Y CNC

MANDRINS DE PERÇAGE SANS CLÉ À USAGE INDUSTRIEL ET CNC

5133

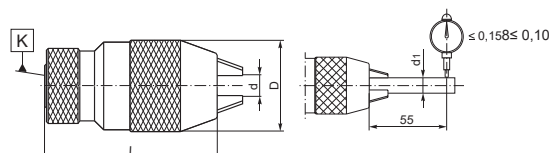


PRECISION		STANDARD		d max	K	RANGO DE SUJECIÓN GAMME DE SERRAGE	D	L	d1
ECCENTRICITÀ ECCENTRICITY	CODE	ECCENTRICITÀ ECCENTRICITY	CODE						
0.4	800000693	0.15	800000694	10	B12	0.5-10	43	84	6; 10
0.4	800000699	0.15	800000700	10	J2	0.5-10	43	84	6; 11
0.4	800000701	0.15	800000702	10	J33	0.5-10	43	84	6; 12
0.4	800000695	0.15	800000696	13	B12	1-13	50	95	6; 13
0.4	800000697	0.15	800000698	13	B16	1-13	50	95	6; 14
0.4	800000703	0.15	800000704	13	J2	1-13	50	95	6; 15
0.4	800000705	0.15	800000706	13	J6	1-13	50	95	6; 16
0.4	800000707	0.15	800000708	13	J33	1-13	50	95	6; 17
0.4	800000709	0.15	800000710	16	B16	3-16	58	103	6; 16
0.4	800000711	0.15	800000712	16	B18	3-16	58	109	6; 17
0.4	800000713	0.15	800000714	16	J6	3-16	58	103	6; 18
0.4	800000715	0.15	800000716	16	J3	3-16	58	109	6; 19

PORTABROCAS DE SUJECIÓN RÁPIDA PARA USO INDUSTRIAL

MANDRINS DE PERÇAGE SANS CLÉ À USAGE INDUSTRIEL

5134

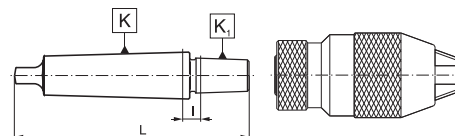


CODE	d max	K	RANGO DE SUJECIÓN GAMME DE SERRAGE	D	L	d1
800000720	10	B12	0.5-10	40	85,5	6; 10
800000721	10	B16	0.5-10	40	85,5	6; 10
800000722	10	1/2"-20	0.5-10	40	94,5	6; 10
800000723	13	B12	1-13	43	84,5	6; 13
800000724	13	B16	1-13	43	84,5	6; 13
800000725	13	3/8"-24	1-13	43	93,5	6; 13
800000726	13	1/2"-20	1-13	43	93,5	6; 13
800000727	16	B16	3-16	50	94,5	6; 16
800000728	16	B18	3-16	50	100,5	6; 16
800000729	16	1/2" 20	3-16	50	103,5	6; 16
800000730	16	5/8"-16	3-16	50	103,5	6; 16

BROCAS DE SUJECCIÓN DIN 238 CON ESPIGA

ADAPTATEURS DE MANDRINS DE PERÇAGE POUR DIN 238 CONIQUE AVEC TANG

5361



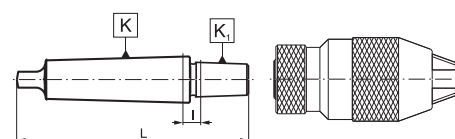
CODE	K CM	K ₁ DIN	L	I
800000773	1	B10	86.0	6.0
800000774	1	B12	89.0	5.0
800000775	1	B16	99.0	8.0
800000776	1	B18	107.0	8.0
800003435	1	B18V	97.0	8.0
800000777	2	B10	105.0	12.0
800000778	2	B12	106.0	9.0
800000779	2	B16	112.0	8.0
800000780	2	B18	119.0	7.0
800003436	2	B18V	108.5	6.5
800000781	2	B22	130.0	9.5
800000782	3	B10	121.0	9.0
800000783	3	B12	127.0	11.0
800000784	3	B16	134.0	11.0
800000785	3	B18	140.0	9.0

CODE	K CM	K ₁ DIN	L	I
800003437	3	B18V	132.0	11.0
800000786	3	B22	147.0	17.5
800000787	3	B24	157.0	17.5
800000788	4	B12	152.5	13.0
800000789	4	B16	158.0	11.5
800000790	4	B18	166.5	12.0
800003438	4	B18V	159.0	14.5
800000791	4	B22	176.0	13.0
800000792	4	B24	186.0	13.0
800000793	5	B12	186.5	15.0
800000794	5	B16	193.0	14.5
800000795	5	B18	200.5	14.0
800003439	5	B18V	191.0	14.5
800000796	5	B22	208.5	13.5
800000797	5	B24	221.0	16.0

BROCAS DE SUJECCIÓN JACOBS CON ESPIGA

ADAPTATEURS DE MANDRINS DE PERÇAGE POUR JACOBS CONIQUE AVEC TANG

5362



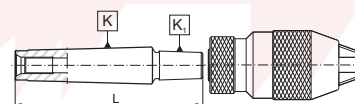
CODE	K CM	K ₁ Jacobs	L	I
800000798	1	J0	80.5	7.4
800000799	1	J1	83.8	5.1
800000800	1	J2	90.5	6.3
800000801	1	J3	100.5	7.5
800000802	1	J33	95.0	7.6
800000803	1	J6	95.0	7.6
800000804	2	J0	95.5	9.5
800000805	2	J1	102.5	9.8
800000806	2	J2	106.0	8.8
800000807	2	J3	112.5	6.5
800000808	2	J33	107.0	6.6
800000809	2	J4	128.5	11.4
800000810	2	J6	107.0	6.6
800000817	3	J1	120.5	9.8
800000811	3	J2	127.0	10.8
800000812	3	J3	131.5	6.5

CODE	K CM	K ₁ Jacobs	L	I
800000813	3	J33	126.0	6.6
800000814	3	J4	146.0	10.0
800000815	3	J5	153.0	11.4
800000816	3	J6	129.0	9.6
800000818	4	J2	151.5	11.8
800000819	4	J3	160.5	12.0
800000820	4	J33	155.0	12.0
800000821	4	J4	170.0	10.4
800000822	4	J5	175.5	10.4
800000823	4	J6	155.0	12.0
800000824	5	J3	193.5	12.5
800000825	5	J33	189.5	14.6
800000826	5	J4	203.5	11.4
800000827	5	J5	209.5	12.4
800000828	5	J6	187.0	12.1

BROCAS DE SUJECIÓN DIN 238 CON AGUJERO

ADAPTATEURS DE MANDRIN DE PERCEUSE POUR DIN 238 CONIQUE AVEC FILETAGE DE BARRE DE TRACTION

5363



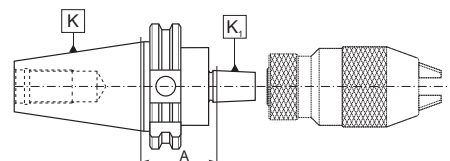
CODE	K CM	K ₁ DIN	L
800000829	2	B12	95
800000830	2	B16	101
800000831	3	B16	121
800000832	4	B16	143

BROCAS DE SUJECIÓN JACOBS

ADAPTATEURS DE MANDRINS DE PERÇAGE POUR JACOBS

DIN 69871

5374-J



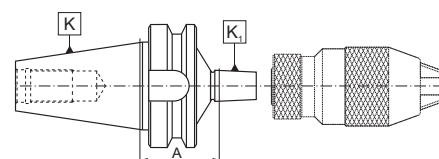
CODE	K 7:24	K ₁ Jacobs	A
800003387	40	J33	95
800003388	40	J6	101
800003389	50	J33	121
800003390	50	J6	143

BROCAS DE SUJECIÓN JACOBS

ADAPTATEURS DE MANDRINS DE PERÇAGE POUR JACOBS

MAS-BT

5373-J

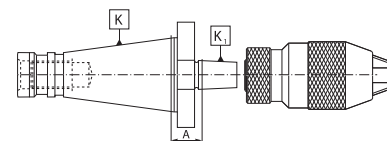


CODE	K 7:24	K ₁ Jacobs	A
800003391	30	J6	30
800003392	40	J33	42
800003393	40	J6	42
800003394	50	J33	45
800003395	50	J6	45

BROCAS DE SUJECCIÓN JACOBS

ADAPTATEURS DE MANDRINS DE PERÇAGE POUR JACOBS

DIN 2080

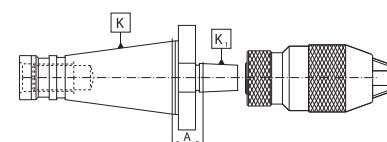
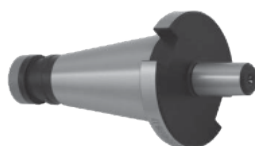
5370-J

CODE	K 7:24	K ₁ Jacobs	A
800003406	30	J0	12
800003407	30	J1	12
800003408	30	J2	12
800003409	30	J3	12
800003410	30	J33	12
800003411	30	J6	12
800003412	40	J2	14
800003414	40	J3	14
800003413	40	J33	14
800003415	40	J6	14
800003416	50	J3	18
800003417	50	J33	18
800003418	50	J4	18
800003419	50	J5	18
800003420	50	J6	18

BROCAS DE SUJECCIÓN DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS

DIN 2080

5370-B

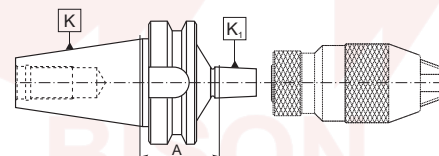
CODE	K 7:24	K ₁ DIN	A
800000849	30	B10	15
800000850	30	B12	15
800000851	30	B16	15
800000852	30	B18	15
800000853	30	B22	15
800000854	40	B12	17
800000855	40	B12	90
800000856	40	B16	17
800000857	40	B16	90
800000858	40	B18	17
800000859	40	B18	90
800000860	40	B22	17
800000861	40	B24	17
800000862	50	B16	20
800000863	50	B16	90
800000864	50	B18	20
800000865	50	B18	90
800000866	50	B22	20
800000867	50	B24	20

BROCAS DE SUJECCIÓN JACOBS

ADAPTATEURS DE MANDRINS DE PERÇAGE JACOBS

MAS-BT

5373-J



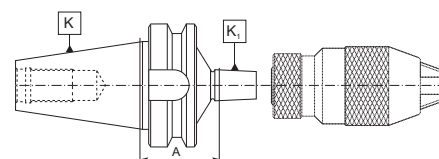
CODE	K 7:24	K ₁ Jacobs	A
800003391	30	J6	30
800003392	40	J33	42
800003393	40	J6	42
800003394	50	J33	45
800003395	50	J6	45

BROCAS DE SUJECCIÓN DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS

MAS-BT

5373-B

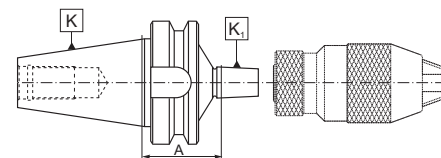


CODE	K 7:24	K ₁ DIN	A
800000868	30	B12	30
800000869	30	B16	30
800000870	40	B12	40
800000871	40	B12	90
800000872	40	B16	42
800000873	40	B16	90
800000874	40	B18	42
800000875	40	B18	90
800000876	50	B16	45
800000877	50	B16	90
800000878	50	B18	45
800000879	50	B18	90

BROCAS DE SUJECIÓN JACOBS

ADAPTATEURS DE MANDRINS DE PERÇAGE JACOBS

DIN 69871

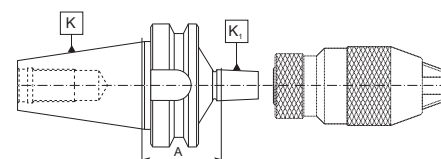
5374-J

CODE	K 7:24	K ₁ Jacobs	A
800003387	40	J33	40
800003388	40	J6	40
800003389	50	J33	40
800003390	50	J6	40

BROCAS DE SUJECIÓN DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS

DIN 69871

5374-B

CODE	K 7:24	K ₁ DIN	A
800000880	30	B12	25
800000881	30	B16	25
800000882	40	B12	40
800000883	40	B12	90
800000884	40	B16	40
800000885	40	B16	90
800000886	40	B18	40
800000887	40	B18	90
800000888	50	B16	40
800000889	50	B16	90
800000890	50	B18	40
800000891	50	B18	90

BROCAS DE SUJECCIÓN CON CONO CILINDRICO DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS

5348



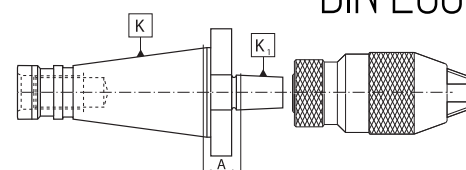
CODE	D	I	K ₁ DIN	L
800000756	8	35	B10	55.5
800000757	10	48	B12	72.5
800000758	10	50	B10	69.5
800000759	10	50	B12	74.5
800000760	10	50	B16	83.5
800000761	12	50	B16	83.5
800000762	12	60	B16	93.5
800000763	16	50	B16	81.0
800000764	16	70	B16	101.0
800000765	16	70	B18	110.0
800000766	20	30	B16	63.0
800000767	20	60	B12	87.0
800000768	20	60	B16	93.0
800000769	20	60	B18	100.0
800000770	25	75	B16	109.0
800000771	30	70	B16	106.0
800000772	30	70	B18	112.0

BROCAS DE SUJECCIÓN CAMBIO RAPIDO DIN 238 O JACOBS

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 OU JACOB TAPERS

DIN 2080

5370 QC

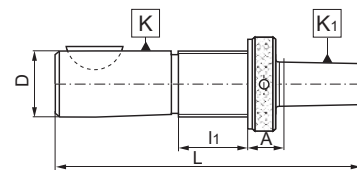


CODE	K 7:24	K ₁ Jacobs	A
800003421	30	J33	21
800003423	30	J6	21
800003422	40	J33	23
800003424	40	J6	23

ACOPLAMIENTOS AJUSTABLES PER PORTABROCAS DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS REGLABLES

5365



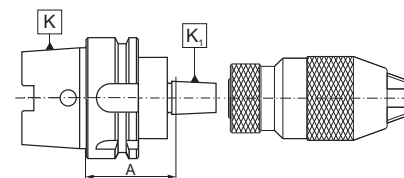
CODE	K D	K ₁ DIN	L	l ₁	A
800000833	20	B12	110	28	4.5
800000834	20	B16	117	28	5.0
800000835	28	B12	118	30	4.5
800000836	28	B16	124	30	5.0
800000837	28	B18	132	30	5.0
800000838	36	B16	147	36	5.0
800000839	36	B18	155	36	5.0
800000840	36	B22	163	36	4.5
800000841	48	B16	173	47	5.0
800000842	48	B18	181	47	5.0
800000843	48	B22	189	47	4.5

BROCAS DE SUJECIÓN DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS

HSK-A DIN 69893-A

5390-B



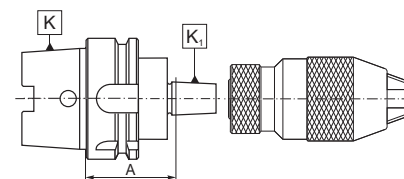
CODE	K HSK-A	K ₁ DIN	A
800000892	63	B12	45
800000893	63	B16	45
800000894	63	B18	45

BROCAS DE SUJECIÓN DIN 238

ADAPTATEURS DE MANDRINS DE PERÇAGE DIN 238 TAPERS

HSK-A DIN 69893-A

5390-J



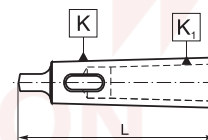
CODE	K HSK-A	K ₁ Jacobs	A
800000895	63	J1	45
800000896	63	J2	45
800000897	63	J3	45
800000898	63	J33	45
800000899	63	J4	45
800000900	63	J5	45

REDUCTORS PARA CONO MORSE

REDUCTEURS POUR MORSE TAPERS

TOTALMENTE TEMPLADO Y RECTIFICADO
COMPLÈTEMENT RECTIFIÉ ET TREMPÉ

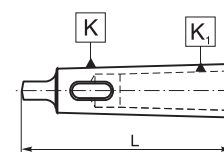
1751



CODE	K CM	K ₁ CM	L
800000292	1	0	85
800000293	2	1	92
800000294	3	1	99
800000295	3	2	112
800000296	4	1	124
800000297	4	2	124
800000298	4	3	140
800000299	5	1	156
800000300	5	2	156
800000301	5	3	156
800000302	5	4	174
800000303	6	2	218
800000304	6	3	218
800000305	6	4	218
800000306	6	5	218

SUPERFICIE ENDURECIDA, TOTALMENTE RECTIFICADA
SURFACE TREMPÉE, ENTIÈREMENT RECTIFIÉE

1752

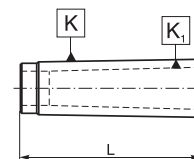


CODE	K CM	K ₁ CM	L
800000308	2	1	92
800000309	3	1	99
800000310	3	2	112
800000311	4	1	124
800000312	4	2	124
800000313	4	3	140
800000314	5	1	156
800000315	5	2	156
800000316	5	3	156
800000317	5	4	174
800000318	6	2	218
800000319	6	3	218
800000320	6	4	218
800000321	6	5	218

REDUCTORES PARA HERRAMIENTAS CONICAS

DOUILLES DE RÉDUCTION POUR OUTILS À QUEUE CONIQUE MORSE

1770

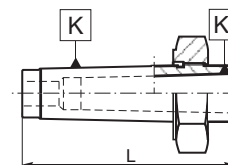


CODE	K CM	K ₁ CM	L
800000450	2	1	50
800000451	3	1	55
800000452	3	2	65
800000453	4	2	70
800000454	4	3	75
800000455	5	2	80
800000456	5	3	90
800000457	5	4	100
800000458	6	3	110
800000459	6	4	120
800000460	6	5	130
CODE	K (METRICO) K (METRIC)	K ₁ CM	L
800000461	80	5	135
800000462	80	6	170
800003999	100	5	180
800000463	100	6	180

REDUCTORES CON ANILLO DE EXTRACCION PARA HERRAMIENTAS DE CONO MORSE CON AGUJERO ROSCADO

AVEC ÉCROU DE TIRAGE POUR OUTILS À CÔNE MORSE AVEC FILETAGE DE BARRE DE TRACTION

1774

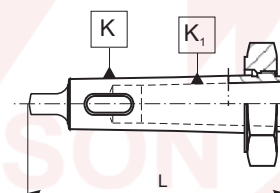


CODE	K CM	K ₁ CM	L
800000464	3	2	80
800000465	4	2	86
800000466	4	3	91
800000467	5	2	102
800000468	5	3	112
800000469	5	4	122
800000470	6	3	137
800000471	6	4	147
800000472	6	5	157

REDUCTORES DE CONO MORSE CON ANILLO DE EXTRACCIÓN

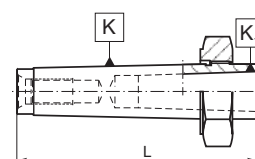
REDUCTEURS POUR CÔNES MORSE AVEC ÉCROU DE SERRAGE

1754



CODE	K CM	K ₁ CM	L
800000322	2	1	92.0
800000323	3	1	119.0
800000324	3	2	119.0
800000325	4	1	146.5
800000326	4	2	146.5
800000327	4	3	146.5
800000328	5	2	178.0
800000329	5	3	178.0
800000330	5	4	178.0
800000331	6	3	245.0
800000332	6	4	245.0
800000333	6	5	245.0

1775



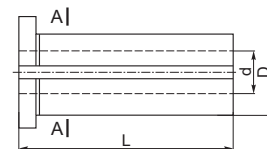
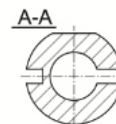
CODE	K CM	K ₁ CM	L
800000473	2	1	100.0
800000474	3	1	112.0
800000475	3	2	125.0
800000476	4	1	135.5
800000477	4	2	147.0
800000478	4	3	165.0
800000479	5	2	160.0
800000480	5	3	167.0
800000481	5	4	171.5
800000482	6	3	217.0
800000483	6	4	217.0
800000484	6	5	217.0

REDUCTORES PARA PORTA-HERRAMIENTAS VDI

REDUCTEURS POUR VDI PORTE-OUTILS

1226

BISON

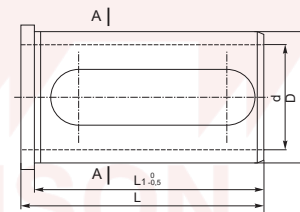
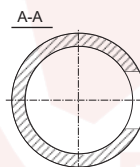


CODE	D	d	L
800000010	20	8	50
800000016	20	10	50
800000018	20	12	50
800000011	20	8	60
800000017	20	10	60
800000019	20	12	60
800000012	25	8	50
800000020	25	10	50
800000022	25	12	50
800000025	25	16	50
800000015	25	8	60
800000021	25	10	60
800000023	25	12	60
800000026	25	16	60
800000024	25	12	75
800000027	25	16	75
800000037	32	8	60
800000028	32	10	60
800000029	32	12	60
800000031	32	16	60
800000033	32	20	60
800000035	32	25	60
800000030	32	12	75
800000032	32	16	75
800000034	32	20	75
800000036	32	25	75
800000038	40	10	75
800000039	40	12	75
800000040	40	16	75
800000041	40	20	75
800000042	40	25	75
800000043	40	32	75
800000044	40	8	75
800000045	50	12	75
800000046	50	16	75
800000047	50	20	75
800000048	50	25	75
800000049	50	32	75
800000050	50	40	75

REDUCTORES PARA PORTA-HERRAMIENTAS VDI

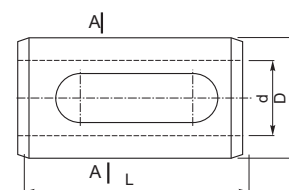
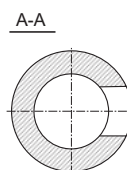
REDUCTEURS POUR VDI PORTE-OUTILS

1247



CODE	D	d	L	L1
800003725	32	10	64	60
800003726	32	12	64	60
800003727	32	16	64	60
800003728	32	20	64	60
800003729	32	25	64	60
800003730	40	10	74	70
800003731	40	12	74	70
800003732	40	16	74	70
800003733	40	20	74	70
800003734	40	25	74	70
800003735	40	32	74	70

1248

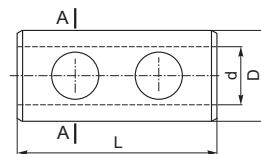
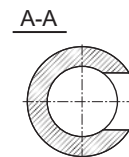


CODE	D	d	L
800000051	32	12	60
800000052	32	16	60
800000053	32	20	60
800000054	32	25	60

REDUCTORES PARA PORTA-HERRAMIENTAS VDI

REDUCTEURS POUR VDI PORTE-OUTILS

1249

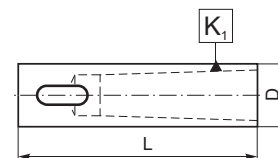


CODE	D	d	L
800000055	20	8	48
800000056	20	10	48
800000057	20	12	48
800000058	20	16	48
800000059	25	5	55
800000060	25	8	55
800000061	25	10	55
800000062	25	12	55
800000063	25	16	55
800000064	25	18	55
800000065	25	20	55

REDUCTORES CILINDRICOS PARA HERRAMIENTAS CONICOS

DOUILLES DE RÉDUCTION CYLINDRIQUE POUR PORTE-OUTILS À CÔNE MORSE

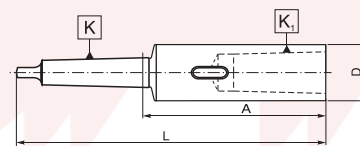
1875



CODE	K CM	K ₁ CM	L
800003500	20	1	75
800000533	25	1	75
800000545	25	1	89
800000534	25	2	75
800000546	25	2	100
800000547	32	1	89
800003501	32	1	100
800000535	32	2	100
800000536	32	3	100
800000540	32	3	120
800000548	40	1	89
800003502	40	1	100
800000537	40	2	100
800000538	40	3	100
800000541	40	3	120
800000539	40	4	120
800000542	40	4	152
800000549	50	2	100
800000543	50	3	120
800000544	50	4	152

PROLONGADORES DE HERRAMIENTAS DE CONO MORSE EXTENSIONS D'OUTILS À CÔNE MORSE

1761

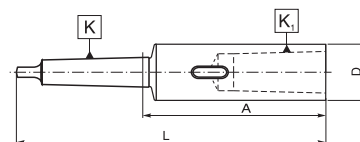


COMPLETAMENTE TEMPRATE E RETTIFICATE
COMPLETELY GROUND AND HARDENED

CODE	K CM	K ₁ CM	L	A	D
800000334	1	1	145	83.0	20
800000335	1	2	160	98.0	30
800000336	1	3	183	121.0	36
800000337	2	1	160	85.0	20
800000338	2	2	175	100.0	30
800000339	2	3	196	121.0	36
800000340	2	4	221	146.0	48
800000341	3	1	175	81.0	20
800000342	3	2	194	100.0	30
800000343	3	3	215	121.0	36
800000344	3	4	240	146.0	48
800000345	3	5	275	181.0	63
800000346	4	1	200	82.5	20
800000347	4	2	215	97.5	30
800000348	4	3	240	122.5	36

CODE	K CM	K ₁ CM	L	A	D
800000349	4	4	265	147.5	48
800000350	4	5	300	182.5	63
800000351	4	6	361	243.5	82
800000352	5	1	232	82.5	20
800000353	5	2	247	97.5	30
800000354	5	3	268	118.5	36
800000355	5	4	300	150.5	48
800000356	5	5	335	185.5	63
800000357	5	6	396	246.5	82
800000358	6	1	294	84.0	20
800000359	6	2	309	99.0	30
800000360	6	3	330	120.0	36
800000361	6	4	355	145.0	48
800000362	6	5	390	180.0	63
800000363	6	6	451	241.0	82

1762



TOTALMENTE RECTIFICADO, CON SUPERFICIE ENDURECIDA
ENTIÈREMENT RECTIFIÉ, AVEC SURFACE TREMPÉE

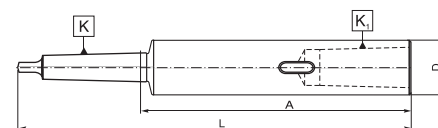
CODE	K CM	K ₁ CM	L	A	D
800000364	1	1	145	83.0	20
800000365	1	2	160	98.0	30
800000366	1	3	183	121.0	36
800000367	2	1	160	85.0	20
800000368	2	2	175	100.0	30
800000369	2	3	196	121.0	36
800000370	2	4	221	146.0	48
800000371	3	1	175	81.0	20
800000372	3	2	194	100.0	30
800000373	3	3	215	121.0	36
800000374	3	4	240	146.0	48
800000375	3	5	275	181.0	63
800000376	4	1	200	82.5	20
800000377	4	2	215	97.5	30
800000378	4	3	240	122.5	36

CODE	K CM	K ₁ CM	L	A	D
800000379	4	4	265	147.5	48
800000380	4	5	300	182.5	63
800000381	4	6	361	243.5	82
800000382	5	1	232	82.5	20
800000383	5	2	247	97.5	30
800000384	5	3	268	118.5	36
800000385	5	4	300	150.5	48
800000386	5	5	335	185.5	63
800000387	5	6	396	246.5	82
800000388	6	1	294	84.0	20
800000389	6	2	309	99.0	30
800000390	6	3	330	120.0	36
800000391	6	4	355	145.0	48
800000392	6	5	390	180.0	63
800000393	6	6	451	241.0	82

PROLUNGHE PER UTENSILI A CONO MORSE

EXTENSION SLEEVES POUR MORSE TAPER TOOLS

1764

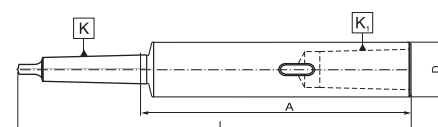


TOTALMENTE TEMPLADO Y RECTIFICADO
ENTIÈREMENT RECTIFIÉ ET TREMPÉE

CODE	K CM	K ₁ CM	L	A	D
800000394	1	1	200	138.0	20
800000395	1	1	250	188.0	20
800000396	1	1	300	238.0	20
800000397	1	1	350	288.0	20
800000398	1	1	400	338.0	20
800000399	1	1	450	388.0	20
800000400	1	1	500	438.0	20
800000401	2	2	200	125.0	25
800000402	2	2	250	175.0	25
800000403	2	2	300	225.0	25
800000404	2	2	350	275.0	25
800000405	2	2	400	325.0	25
800000406	2	2	450	375.0	25
800000407	2	2	500	425.0	25

CODE	K CM	K ₁ CM	L	A	D
800000408	2	2	600	525.0	25
800000409	3	3	250	156.0	32
800000410	3	3	300	206.0	32
800000411	3	3	350	256.0	32
800000412	3	3	400	306.0	32
800000413	3	3	450	356.0	32
800000414	3	3	500	406.0	32
800000415	3	3	600	506.0	32
800000416	4	4	300	182.5	40
800000417	4	4	350	232.5	40
800000418	4	4	400	282.5	40
800000419	4	4	450	332.5	40
800000420	4	4	500	382.5	40
800000421	4	4	600	482.5	40

1765



TOTALMENTE RECTIFICADO, CON SUPERFICIE ENDURECIDA
ENTIÈREMENT RECTIFIÉ, AVEC SURFACE TREMPÉE

CODE	K CM	K ₁ CM	L	A	D
800000422	1	1	200	138.0	20
800000423	1	1	250	188.0	20
800000424	1	1	300	238.0	20
800000425	1	1	350	288.0	20
800000426	1	1	400	338.0	20
800000427	1	1	450	388.0	20
800000428	1	1	500	438.0	20
800000429	2	2	200	125.0	25
800000430	2	2	250	175.0	25
800000431	2	2	300	225.0	25
800000432	2	2	350	275.0	25
800000433	2	2	400	325.0	25
800000434	2	2	450	375.0	25
800000435	2	2	500	425.0	25

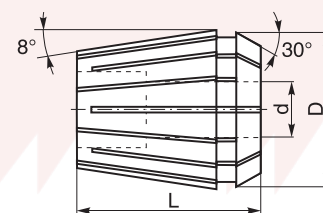
CODE	K CM	K ₁ CM	L	A	D
800000436	2	2	600	525.0	25
800000437	3	3	250	156.0	32
800000438	3	3	300	206.0	32
800000439	3	3	350	256.0	32
800000440	3	3	400	306.0	32
800000441	3	3	450	356.0	32
800000442	3	3	500	406.0	32
800000443	3	3	600	506.0	32
800000444	4	4	300	182.5	40
800000445	4	4	350	232.5	40
800000446	4	4	400	282.5	40
800000447	4	4	450	332.5	40
800000448	4	4	500	382.5	40
800000449	4	4	600	482.5	40

PINZAS ER

PINGES ER

DIN 6499

7618



CODE	PINZAS PINGES	RANGO DE SUJECIÓN GAMME DE SERRAGE	D	L
800001829	ER16	3-2,5	17	27,5
800006967	ER16	3,5-3	17	27,5
800001830	ER16	4-3,5	17	27,5
800006968	ER16	4,5-4	17	27,5
800001831	ER16	5-4,5	17	27,5
800006969	ER16	5,5-5	17	27,5
800001832	ER16	6-5,5	17	27,5
800001833	ER16	7-6	17	27,5
800001834	ER16	8-7	17	27,5
800001835	ER16	9-8	17	27,5
800001836	ER16	10-9	17	27,5
800001837	ER20	3-2,5	21	31,5
800006970	ER20	3,5-3	21	31,5
800001838	ER20	4-3,5	21	31,5
800006971	ER20	4,5-4	21	31,5
800001839	ER20	5-4,5	21	31,5
800006972	ER20	5,5-5	21	31,5
800001840	ER20	6-5,5	21	31,5
800001841	ER20	7-6	21	31,5
800001842	ER20	8-7	21	31,5
800001843	ER20	9-8	21	31,5
800001844	ER20	10-9	21	31,5
800001845	ER20	11-10	21	31,5
800001846	ER20	12-11	21	31,5
800001847	ER20	13-12	21	31,5
800001849	ER25	3-2,5	26	34,0
800006973	ER25	3,5-3	26	34,0
800001850	ER25	4-3,5	26	34,0
800006974	ER25	4,5-4	26	34,0
800001851	ER25	5-4,5	26	34,0
800006975	ER25	5,5-5	26	34,0
800001852	ER25	6-5,5	26	34,0
800001853	ER25	7-6	26	34,0
800001854	ER25	8-7	26	34,0
800001855	ER25	9-8	26	34,0
800001856	ER25	10-9	26	34,0
800001857	ER25	11-10	26	34,0
800001858	ER25	12-11	26	34,0
800001859	ER25	13-12	26	34,0
800001860	ER25	14-13	26	34,0
800001861	ER25	15-14	26	34,0
800001862	ER25	16-15	26	34,0
800001863	ER32	3-2,5	33	40,0
800006976	ER32	3,5-3	33	40,0
800001864	ER32	4-3,5	33	40,0

CODE	PINZAS PINGES	RANGO DE SUJECIÓN GAMME DE SERRAGE	D	L
800006977	ER32	4,5-4	33	40,0
800001865	ER32	5-4,5	33	40,0
800006978	ER32	5,5-5	33	40,0
800001866	ER32	6-5,5	33	40,0
800001867	ER32	7-6	33	40,0
800001868	ER32	8-7	33	40,0
800001869	ER32	9-8	33	40,0
800001870	ER32	10-9	33	40,0
800001871	ER32	11-10	33	40,0
800001872	ER32	12-11	33	40,0
800001873	ER32	13-12	33	40,0
800001874	ER32	14-13	33	40,0
800001875	ER32	15-14	33	40,0
800001876	ER32	16-15	33	40,0
800001877	ER32	17-16	33	40,0
800001878	ER32	18-17	33	40,0
800001879	ER32	19-18	33	40,0
800001880	ER32	20-19	33	40,0
800001881	ER40	3-2,5	41	46,0
800006979	ER40	3,5-3	41	46,0
800001882	ER40	4-3,5	41	46,0
800006980	ER40	4,5-4	41	46,0
800001883	ER40	5-4,5	41	46,0
800006981	ER40	5,5-5	41	46,0
800001884	ER40	6-5,5	41	46,0
800001885	ER40	7-6	41	46,0
800001886	ER40	8-7	41	46,0
800001887	ER40	9-8	41	46,0
800001888	ER40	10-9	41	46,0
800001889	ER40	11-10	41	46,0
800001890	ER40	12-11	41	46,0
800001891	ER40	13-12	41	46,0
800001892	ER40	14-13	41	46,0
800001893	ER40	15-14	41	46,0
800001894	ER40	16-15	41	46,0
800001895	ER40	17-16	41	46,0
800001896	ER40	18-17	41	46,0
800001897	ER40	19-18	41	46,0
800001898	ER40	20-19	41	46,0
800001899	ER40	21-20	41	46,0
800001900	ER40	22-21	41	46,0
800001901	ER40	23-22	41	46,0
800001902	ER40	24-23	41	46,0
800001903	ER40	25-24	41	46,0
800001904	ER40	26-25	41	46,0

JUEGOS DE PINZAS ER

PINCES ER - SET

DIN 6499

7618 - KPL

BISON



CODE	PINZAS PINCES	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS N. DE PINCES
800001905	ER16	2-10	8
800001906	ER20	2-13	11
800001907	ER25	2-16	14
800001908	ER32	2-20	18
800001909	ER40	2-26	24

7600 - KPL

*JUEGO COMPLETO
KIT COMPLET*

7600 - PL

*SET PEQUEÑO
PETIT SET*

7600 - S PL

*SET PEQUEÑO - DESIGN SLIM
PETIT SET - DESIGN SLIM*



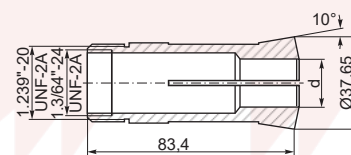
CODE	TALLA TAILLE	7:24	PINZAS PER SET PINCES PER SET	N. DE PINZAS N. DE PINCES	RANGO DE SUJECIÓN GAMME DE SERRAGE	TALLA PORTA-HERRAMIENTAS PORTE-OUTIL TAILLE
800003707	30-16-8-80KPL	30	16-3, 4, 5, 6, 7, 8, 9, 10	8	2-10	80
800003708	30/40-32-8-80PL	30, 40	32-6, 8, 10, 12, 14, 16, 18, 20	8	5-20	80
800003709	30/40-32-8-80PL	30, 40	32-4, 5, 6, 8, 10, 12, 16, 20	8	3-20	80
800003710	30/40-32-18-80KPL	30, 40	32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	18	2-20	80
800003711	40-16-8-150S	40	16-3, 4, 5, 6, 7, 8, 9, 10	8	2-10	150
800003712	40-25-14-60KPL	40	25-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	14	2-16	60
800003713	40-32-10-70PL	40	32-3, 4, 6, 8, 10, 12, 14, 16, 18, 20	10	2-20	70
800003714	40-32-18-80-130KPL	40	32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	18	2-20	80-130
800003715	40-40-24-80KPL	40	40-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	24	2-26	80
800003716	50-16-8-150S PL	50	16-3, 4, 5, 6, 7, 8, 9, 10	8	2-10	150
800006825	50-32-8-70PL	50	32-4, 5, 6, 8, 10, 12, 16, 20	8	3-20	70
800003717	50-32-18-130KPL	50	"32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20"	18	2-20	130
800003718	50-40-24-130KPL	50	"40-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26"	24	2-26	130

PINZAS SC

SC PINCES

385E

3000



CODE	TALLA TAILLE	d
800000604	SC-3	3
800000605	SC-3.5	3.5
800000606	SC-4	4
800000607	SC-4.5	4.5
800000608	SC-5	5
800000609	SC-5.5	5.5
800000610	SC-6	6
800000611	SC-6.5	6.5
800000612	SC-7	7
800000613	SC-7.5	7.5
800000614	SC-8	8
800000615	SC-8.5	8.5
800000616	SC-9	9
800000617	SC-9.5	9.5
800000618	SC-10	10
800000619	SC-10.5	10.5
800000620	SC-11	11
800000621	SC-11.5	11.5
800000622	SC-12	12
800000623	SC-12.5	12.5
800000624	SC-13	13
800000625	SC-13.5	13.5
800000626	SC-14	14
800000627	SC-14.5	14.5

CODE	TALLA TAILLE	d
800000628	SC-15	15
800000629	SC-15.5	15.5
800000630	SC-16	16
800000631	SC-16.5	16.5
800000632	SC-17	17
800000633	SC-17.5	17.5
800000634	SC-18	18
800000635	SC-18.5	18.5
800000636	SC-19	19
800000637	SC-19.5	19.5
800000638	SC-20	20
800000639	SC-20.5	20.5
800000640	SC-21	21
800000641	SC-21.5	21.5
800000642	SC-22	22
800000643	SC-22.5	22.5
800000644	SC-23	23
800000645	SC-23.5	23.5
800000646	SC-24	24
800000647	SC-24.5	24.5
800000648	SC-25	25
800005510	SC-25.5	25.5
800003724	SC-26	26

JUEGO DE PINZAS SC

SC PINCES - SET

385E

3000 - KPL



CODE	TALLA TAILLE	RANGO DE SUJECIÓN GAMME DE SERRAGE	N. DE PINZAS N. DE PINCES
800000649	SC	3-26	24
800000650	SC	3-25	45

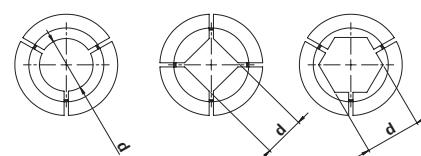
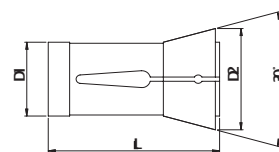
PINZAS 173E

173E PINCES

DIN 6343

3010 - 173E

BISON



CODE	TYPE	D ₁	D ₂	L	d	FORO HOLE
800006017	173E-4-EG	48	60	94	4	○
800006074	173E-5-EG	48	60	94	5	○
800006075	173E-6-EG	48	60	94	6	○
800006076	173E-7-EG	48	60	94	7	○
800006007	173E-8-EG	48	60	94	8	○
800006008	173E-9-EG	48	60	94	9	○
800006077	173E-9-EO	48	60	94	9	○
800006045	173E-10-EO	48	60	94	10	○
800006078	173E-11-EO	48	60	94	11	○
800006009	173E-12-EO	48	60	94	12	○
800006079	173E-13-EO	48	60	94	13	○
800006025	173E-14-EO	48	60	94	14	○
800006046	173E-15-EO	48	60	94	15	○
800006080	173E-16-EO	48	60	94	16	○
800006081	173E-17-EO	48	60	94	17	○
800006034	173E-18-EO	48	60	94	18	○
800006082	173E-19-EO	48	60	94	19	○
800006026	173E-20-EO	48	60	94	20	○
800006083	173E-21-EO	48	60	94	21	○
800006084	173E-22-EO	48	60	94	22	○
800006085	173E-23-EO	48	60	94	23	○
800006086	173E-24-EO	48	60	94	24	○
800006027	173E-25-EO	48	60	94	25	○
800006087	173E-26-EO	48	60	94	26	○
800006088	173E-27-EO	48	60	94	27	○
800006089	173E-28-EO	48	60	94	28	○
800006090	173E-29-EO	48	60	94	29	○
800006091	173E-30-EO	48	60	94	30	○
800006092	173E-31-EO	48	60	94	31	○
800006035	173E-32-EO	48	60	94	32	○
800006093	173E-33-EO	48	60	94	33	○
800006094	173E-34-EO	48	60	94	34	○
800006095	173E-35-EO	48	60	94	35	○
800006096	173E-36-EO	48	60	94	36	○
800006097	173E-37-EO	48	60	94	37	○
800006098	173E-38-EO	48	60	94	38	○
800006099	173E-39-EO	48	60	94	39	○
800006100	173E-40-EO	48	60	94	40	○
800006020	173E-41-EO	48	60	94	41	○
800006041	173E-42-EO	48	60	94	42	○

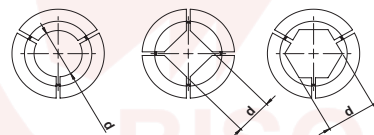
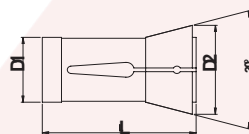
CODE	TYPE	D ₁	D ₂	L	d	FORO HOLE
800006120	173E-4-K	48	60	94	4	□
800006121	173E-5-K	48	60	94	5	□
800006048	173E-6-K	48	60	94	6	□
800006122	173E-7-K	48	60	94	7	□
800006123	173E-8-K	48	60	94	8	□
800006124	173E-9-K	48	60	94	9	□
800006125	173E-10-K	48	60	94	10	□
800006126	173E-11-K	48	60	94	11	□
800006272	173E-12-K	48	60	94	12	□
800006127	173E-13-K	48	60	94	13	□
800006128	173E-14-K	48	60	94	14	□
800006129	173E-16-K	48	60	94	16	□
800006130	173E-18-K	48	60	94	18	□
800006131	173E-20-K	48	60	94	20	□
800006132	173E-22-K	48	60	94	22	□
800006133	173E-24-K	48	60	94	24	□
800006134	173E-25-K	48	60	94	25	□
800006135	173E-28-K	48	60	94	28	□
800006136	173E-30-K	48	60	94	30	□
800006101	173E-4-S	48	60	94	4	
800006102	173E-5-S	48	60	94	5	
800006103	173E-6-S	48	60	94	6	
800006104	173E-7-S	48	60	94	7	
800006105	173E-8-S	48	60	94	8	
800006106	173E-9-S	48	60	94	9	
800006107	173E-10-S	48	60	94	10	
800006108	173E-11-S	48	60	94	11	
800006109	173E-12-S	48	60	94	12	
800006110	173E-13-S	48	60	94	13	
800006111	173E-14-S	48	60	94	14	
800006112	173E-15-S	48	60	94	15	
800006113	173E-16-S	48	60	94	16	
800006114	173E-17-S	48	60	94	17	
800006115	173E-19-S	48	60	94	19	
800006116	173E-22-S	48	60	94	22	
800006117	173E-24-S	48	60	94	24	
800006118	173E-27-S	48	60	94	27	
800006047	173E-30-S	48	60	94	30	
800006119	173E-32-S	48	60	94	32	
800006021	173E-36-S	48	60	94	36	

PINZAS 185E

185E PINCES

DIN 6343

3010 - 185E



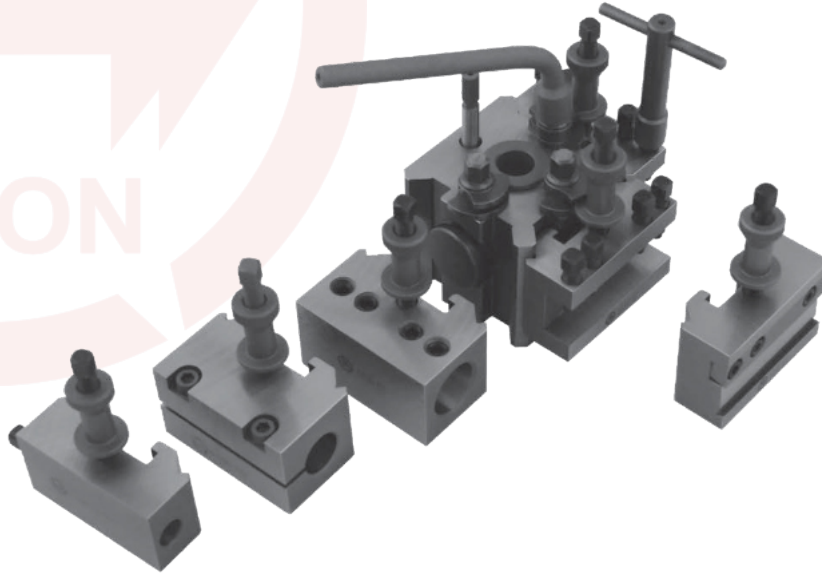
CODE	TYPE	D ₁	D ₂	L	d	FORO HOLE
800006138	185E-4-EG	66	84	110	4	○
800006139	185E-5-EG	66	84	110	5	○
800006013	185E-6-EG	66	84	110	6	○
800006140	185E-7-EG	66	84	110	7	○
800006037	185E-8-EG	66	84	110	8	○
800006141	185E-9-EG	66	84	110	9	○
800006142	185E-9-EO	66	84	110	9	○
800006029	185E-10-EO	66	84	110	10	○
800006143	185E-11-EO	66	84	110	11	○
800006014	185E-12-EO	66	84	110	12	○
800006144	185E-13-EO	66	84	110	13	○
800006015	185E-14-EO	66	84	110	14	○
800006016	185E-15-EO	66	84	110	15	○
800006145	185E-16-EO	66	84	110	16	○
800006146	185E-17-EO	66	84	110	17	○
800006147	185E-18-EO	66	84	110	18	○
800006148	185E-19-EO	66	84	110	19	○
800006149	185E-20-EO	66	84	110	20	○
800006030	185E-21-EO	66	84	110	21	○
800006150	185E-22-EO	66	84	110	22	○
800006151	185E-23-EO	66	84	110	23	○
800006152	185E-24-EO	66	84	110	24	○
800006153	185E-25-EO	66	84	110	25	○
800006154	185E-26-EO	66	84	110	26	○
800006155	185E-27-EO	66	84	110	27	○
800006049	185E-28-EO	66	84	110	28	○
800006156	185E-29-EO	66	84	110	29	○
800006157	185E-30-EO	66	84	110	30	○
800006158	185E-31-EO	66	84	110	31	○
800006031	185E-32-EO	66	84	110	32	○
800006159	185E-33-EO	66	84	110	33	○
800006160	185E-34-EO	66	84	110	34	○
800006161	185E-35-EO	66	84	110	35	○
800006032	185E-36-EO	66	84	110	36	○
800006162	185E-37-EO	66	84	110	37	○
800006163	185E-38-EO	66	84	110	38	○
800006164	185E-39-EO	66	84	110	39	○
800006036	185E-40-EO	66	84	110	40	○
800006165	185E-41-EO	66	84	110	41	○
800006050	185E-42-EO	66	84	110	42	○
800006166	185E-43-EO	66	84	110	43	○
800006167	185E-44-EO	66	84	110	44	○
800006168	185E-45-EO	66	84	110	45	○
800006169	185E-46-EO	66	84	110	46	○
800006170	185E-47-EO	66	84	110	47	○
800006171	185E-48-EO	66	84	110	48	○
800006172	185E-49-EO	66	84	110	49	○
800006173	185E-50-EO	66	84	110	50	○
800006174	185E-51-EO	66	84	110	51	○
800006175	185E-52-EO	66	84	110	52	○
800006176	185E-53-EO	66	84	110	53	○
800006177	185E-54-EO	66	84	110	54	○
800006178	185E-55-EO	66	84	110	55	○

CODE	TYPE	D ₁	D ₂	L	d	FORO HOLE
800006179	185E-56-EO	66	84	110	56	○
800006180	185E-57-EO	66	84	110	57	○
800006181	185E-58-EO	66	84	110	58	○
800006182	185E-59-EO	66	84	110	59	○
800006183	185E-60-EO	66	84	110	60	○
800006208	185E-4-K	66	84	110	4	□
800006209	185E-5-K	66	84	110	5	□
800006210	185E-6-K	66	84	110	6	□
800006211	185E-7-K	66	84	110	7	□
800006212	185E-8-K	66	84	110	8	□
800006213	185E-9-K	66	84	110	9	□
800006214	185E-10-K	66	84	110	10	□
800006215	185E-11-K	66	84	110	11	□
800006216	185E-12-K	66	84	110	12	□
800006217	185E-13-K	66	84	110	13	□
800006218	185E-14-K	66	84	110	14	□
800006219	185E-16-K	66	84	110	16	□
800006220	185E-18-K	66	84	110	18	□
800006221	185E-20-K	66	84	110	20	□
800006222	185E-22-K	66	84	110	22	□
800006223	185E-24-K	66	84	110	24	□
800006224	185E-25-K	66	84	110	25	□
800006225	185E-28-K	66	84	110	28	□
800006226	185E-30-K	66	84	110	30	□
800006227	185E-32-K	66	84	110	32	□
800006228	185E-36-K	66	84	110	36	□
800006229	185E-40-K	66	84	110	40	□
800006184	185E-4-S	66	84	110	4	□
800006185	185E-5-S	66	84	110	5	□
800006186	185E-6-S	66	84	110	6	□
800006187	185E-7-S	66	84	110	7	□
800006188	185E-8-S	66	84	110	8	□
800006189	185E-9-S	66	84	110	9	□
800006190	185E-10-S	66	84	110	10	□
800006191	185E-11-S	66	84	110	11	□
800006192	185E-12-S	66	84	110	12	□
800006193	185E-13-S	66	84	110	13	□
800006194	185E-14-S	66	84	110	14	□
800006195	185E-15-S	66	84	110	15	□
800006196	185E-16-S	66	84	110	16	□
800006197	185E-17-S	66	84	110	17	□
800006198	185E-19-S	66	84	110	19	□
800006199	185E-22-S	66	84	110	22	□
800006200	185E-24-S	66	84	110	24	□
800006012	185E-27-S	66	84	110	27	□
800006201	185E-30-S	66	84	110	30	□
800006202	185E-32-S	66	84	110	32	□
800006203	185E-36-S	66	84	110	36	□
800006204	185E-38-S	66	84	110	38	□
800006205	185E-41-S	66	84	110	41	□
800006206	185E-46-S	66	84	110	46	□
800006207	185E-50-S	66	84	110	50	□

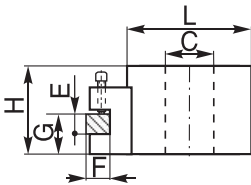
TORRETAS PORTA-HERRAMIENTAS CAMBIO RAPIDO

TOURELLES À CHANGEMENT RAPIDE

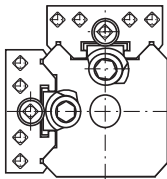
BISON



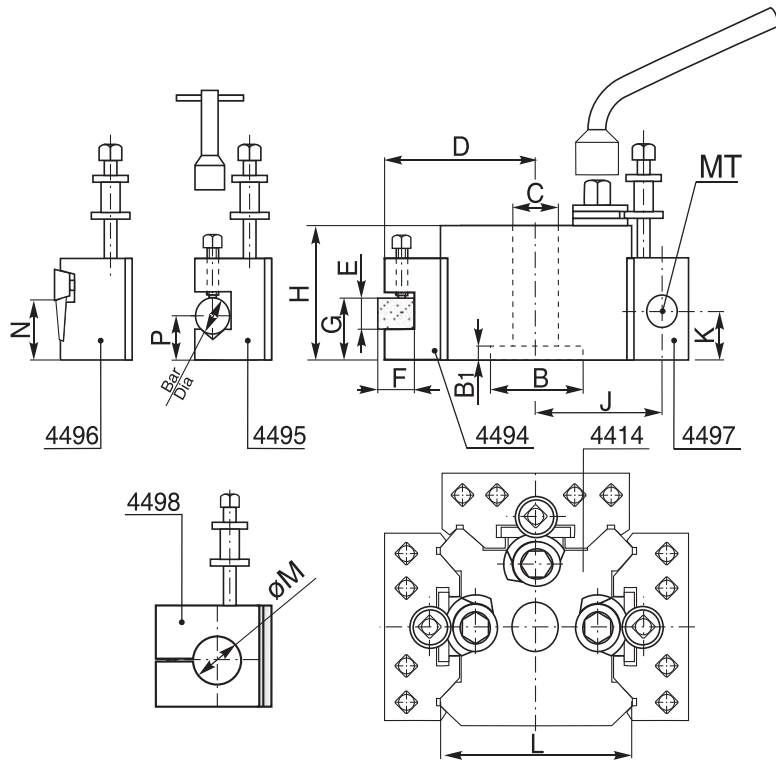
T.00.M



T.00.B



T.0



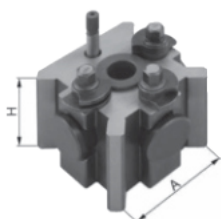
T.1
T.1X
T.2
T.2.T
T.3
T.3.HX

TAGLIA TAILLE	H	B	B1	C	D	E	F	G MAX	G MIN	BAR Ø	P MAX	P MIN	CM	J	K MAX	K MIN	L	N	M
T.00.M	37,0	—	—	11,2	50,0	12	11,0	27,0	17,0	11,0	22,5	12,5	—	—	—	—	58,0	16,0	—
T.00.B	42,0	—	—	16,0	50,0	12	11,0	32,0	17,0	11,0	27,5	12,5	—	—	—	—	58,0	16,0	—
T.0	51,0	22,22	12,5	19,0	62,0	16	13,0	36,5	20,5	16,0	32,0	16,0	1	52,5	28,5	16,0	73,0	27,0	19,0
T.1	63,5	31,75	8,5	19,0	62,0	20	13,0	46,0	30,0	16,0	44,5	25,5	1	52,5	41,0	22,0	73,0	27,0	19,0
T.1X	73,0	31,75	8,5	19,0	62,0	20	13,0	57,0	35,0	16,0	54,0	32,0	1&2	52,5	51,0	28,5	73,0	27,0	19,0
T.2	71,5	44,45	9,5	25,5	74,5	20	19,0	52,5	36,5	19,0	46,0	24,0	2	65,0	47,5	27,0	97,0	33,5	25,4
T.2.T	76,0	44,45	9,5	25,5	84,0	25	25,5	58,5	39,5	19,0	50,0	24,0	2	70,0	51,0	27,0	106,0	33,5	25,4
T.3	95,5	50,80	11,5	25,5	101,5	32	25,5	74,5	51,0	25,5	51,0	28,5	3	85,5	58,2	36,5	125,5	39,5	38,0
T.3.HX	108,0	50,80	11,5	25,5	101,5	32	25,5	84,0	62,0	25,5	65,0	41,0	3	85,5	58,2	36,5	125,5	39,5	38,0

TORRETAS PORTA-HERRAMIENTAS CAMBIO RAPIDO

TOURELLES À CHANGEMENT RAPIDE

4414

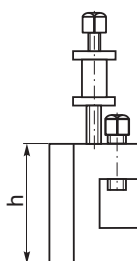


CODE	PARA TIPO POUR TYPE	A x H	RANGO DE SUJECIÓN GAMME DE SERRAGE
800000651	T.00.M	48 X 37	UP TO 89MM
800000652	T.00.B	48 X 42	UP TO 89MM
800000653	T.0	62 X 51	UP TO 114MM
800000654	T.1	62 X 63	114 - 127MM
800000655	T.1.X	62 X 73	114 - 127MM
800000656	T.2	82 X 71	127 - 203MM
800000657	T.2.T	82 X 76	127 - 203MM
800000658	T.3	100 X 92	203 - 292MM
800000659	T.3.HX	100 X 108	203 - 292MM

PORTAHERRAMIENTAS DE ASIENTO PLANO

PORTE-OUTIL POUR SIÈGE PLAT

4494



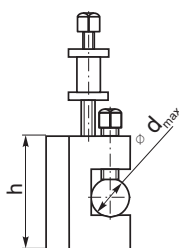
B = LENGTH

CODE	TALLA TAILLE	PARA TIPO POUR TYPE	B x h
800000660	48	T.00M, T.00B	58 x 27
800000663	62N	T.0	73 x 35
800000662	62	T.1, T.1X	73 x 44
800000665	82N	T.2	98,5 x 50
800000664	82	T.2T	98,5 x 57
800000666	100	T.3, T.3HX	124 x 70

PORTAHERRAMIENTAS CON ASIENTO PRISMÁTICO EN "V"

PORTE-OUTIL AVEC SIÈGE EN "V" PRISMATIQUE

4495



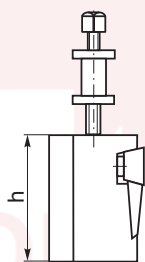
B = LENGTH

CODE	TALLA TAILLE	PARA TIPO POUR TYPE	Ø d _{max}	B x h
800000667	48	T.00M, T.00B	11,0	58 X 27
800000670	62N	T.0	16,0	73 X 35
800000669	62	T.1, T.1X	16,0	73 X 44
800000672	82N	T.2	19,0	98,5 X 50
800000671	82	T.2T	19,0	98,5 X 57
800000673	100	T.3, 3HX	25,5	124 X 70

PORTAHERRAMIENTAS PARA HOJA DE CORTE

PORTE-OUTIL POUR LA LAME DE COUPE

4496



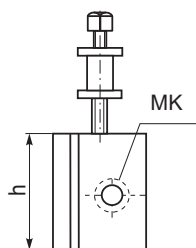
B = LENGTH

CODE	TALLA TAILLE	PARA TIPO POUR TYPE	B x h
800000674	48	T.00M, T.00B	58 x 32
800000676	62	T.0, T.1, T.1X	73 x 47,5
800000677	82	T.2, T.2T	98,5 x 57
800000678	100	T.3, T.3HX	124 x 70

PORTAHERRAMIENTAS CONO MORSE

PORTE-OUTILS CONE MORSE

4497

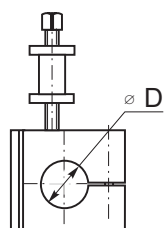


CODE	TALLA TAILLE	PARA TIPO POUR TYPE	CM
800000680	62/1N	T.0	1
800000679	62/1	T.1, T.1X	1
800000681	62/2	T.1, T.1X	2
800000682	82/2	T.2, T.2T	2
800000683	100/3	T.3, T.3HX	3

PORTAHERRAMIENTAS PARA CAMILLAS

PORTE-OUTILS POUR BRANCARDS

4498

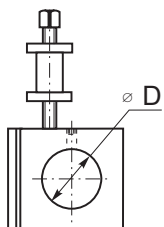


CODE	TALLA TAILLE	PARA TIPO POUR TYPE	Ø D
800000684	62	T.0, T.1, T.1X	19
800000685	82	T.2, T.2T	25,4
800000687	100	T.3, T.3HX	38

PORTAHERRAMIENTAS PARA CAMILLAS

PORTE-OUTILS POUR BRANCARDS

4499

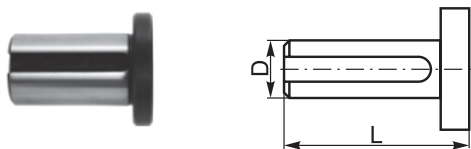


CODE	TALLA TAILLE	PARA TIPO POUR TYPE	Ø D
800000688	62	T.0, T.1, T.1X	25
800000689	82	T.2, T.2T	32
800000690	100	T.3, T.3HX	40

ACCESORIOS Y PIEZAS DE RECAMBIO

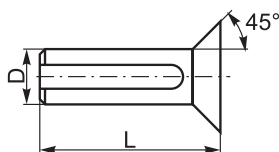
ACCESSOIRES ET PIÈCES DÉTACHÉES

CASQUILLO DE CIERRE DOUILLE DE VERROUILLAGE



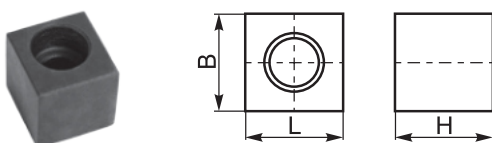
CODE	TYPE	L	D
800003121	U-6S10/0	52	16
800003122	U-6S11/0	82	16
800003123	U-6S12/0	52	22
800003124	U-6S13/0	82	22
800003125	U-6S14/0	52	27
800003126	U-6S15/0	82	27
800003127	U-6S16/0	52	32
800003128	U-6S17/0	82	32
800003129	U-6S18/0	52	40
800003130	U-6S19/0	82	40

CASQUILLO DE CIERRE DE 45° DOUILLE DE VERROUILLAGE À 45°



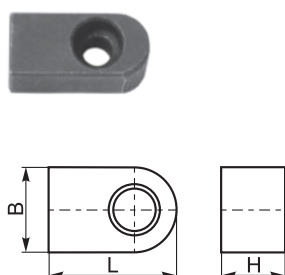
CODE	TYPE	L	D
800005699	U-6S10/1	52	16
800005700	U-6S11/1	82	16
800005701	U-6S12/1	52	22
800005702	U-6S13/1	82	22
800005703	U-6S14/1	52	27
800005704	U-6S15/1	82	27
800005705	U-6S16/1	52	32
800005706	U-6S17/1	82	32
800005707	U-6S18/1	52	40
800005708	U-6S19/1	82	40

ARRASTADOR ENTRAÎNEMENT CARRÉ



CODE	TYPE	B	L	H
800003119	U-6227/0	15,9	16,5	16

ARRASTADOR ENTRAÎNEMENT À TENON



CODE	TYPE	B	H	L
800003057	S-2111/0	12	9	24
800003058	S-2114/0	14	12	28
800003059	S-2117/0	8	7	17
800003060	S-2121/0	10	8	20,6
800003061	S-2124/0	16	12	32
800003110	U-5974/0	18	16	33
800003114	U-6064/0	15,9	16	20
800003115	U-6065/0	25,4	25	34,5
800003116	U-6066/0	25,4	25	29,5
800005683	W-1945/0	8	8	16,8
800005684	W-1946/0	10	10	20,4
800005685	W-1947/0	12	12	24,1
800005686	W-1948/0	14	14	27,8
800005687	W-1949/0	16	16	31,8
800006778	W-3649/0	14	12	22,8
800006779	W-3651/0	16	12	23,8

LLAVES Y TUERCAS PARA HUSILLOS DE PINZAS ER

CLÉS ET ÉCROUS POUR MANDRILS À PINCES ER

9833

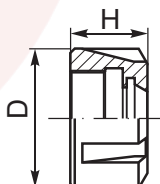
TUERCA ESTANDAR PARA PINZAS ER
ECROUS STANDARD POUR PINCES ER



CODE	TYPE	PARA TIPO POUR TYPE	D	H
800002977	9833-16	ER16	32	17,5
800002978	9833-20	ER20	35	19
800002979	9833-25	ER25	42	20
800002980	9833-32	ER32	50	22,5
800002981	9833-40	ER40	63	25,5

9833-ES

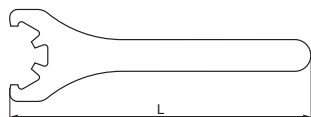
TUERCA EQUILIBRADA PARA PINZAS ER
ECROUS BALANCÉE POUR PINCES ER



CODE	TYPE	PARA TIPO POUR TYPE	D	H
800005308	9833-16 ES	ER16	32	17,5
800005309	9833-20 ES	ER20	35	19
800005310	9833-25 ES	ER25	42	20
800005311	9833-32 ES	ER32	50	22,5
800005312	9833-40 ES	ER40	63	25,5

KL 9833

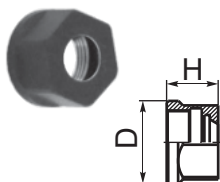
LLAVE PARA TUERCAS DE TIPO 9833
CLÉ POUR ECROU TYPE 9833



CODE	TYPE	PARA TIPO POUR TYPE	L
800003764	KL9833-ER16	ER16	150
800003328	KL9833-ER20	ER20	170
800003329	KL9833-ER25	ER25	190
800003341	KL9833-ER32	ER32	240
800003765	KL9833-ER40	ER40	270
800003766	KL9833-ERS0	ERS0	340

9833-D

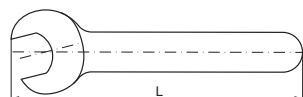
TUERCA HEXAGONAL PARA PINZAS ER
ECROU HEXAGONAL POUR PINCES ER



CODE	TYPE	PARA TIPO POUR TYPE	D	H
800003760	9833-11 D	ER11	19	11
800002982	9833-16 D	ER16	28	17,5
800003510	9833-20 D	ER20	34	20

KL 9833-D

LLAVE PARA TUERCA TIPO 9833-D
CLÉ POUR ECROU TYPE 9833-D



CODE	TYPE	PARA TIPO POUR TYPE	L
800003767	KL 9833-11 D	ER11	125
800003183	KL 9833-16 D	ER16	170
800003768	KL 9833-20 D	ER20	140

9833-S

TUERCA MINI PARA PINZAS ER
ECROU MIGNON POUR PINCES ER



CODE	TYPE	PARA TIPO POUR TYPE	D	H
800003757	9833-11 S	ER11	16	12
800002983	9833-16 S	ER16	22	18
800003758	9833-20 S	ER20	28	19
800003759	9833-25 S	ER25	35	20

KL 9833-S

LLAVE PARA TUERCA MINI TIPO 9833-S
CLÉ POUR ECROU MIGNON TYPE 9833-S

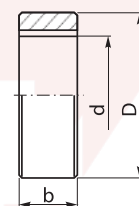


CODE	TYPE	PARA TIPO POUR TYPE	L
800003769	KL 9833-11 S	ER11	95
800003184	KL 9833-16 S	ER16	119
800003770	KL 9833-20 S	ER20	131
800003771	KL 9833-25 S	ER25	143

ANILLOS DISTANCIADORES PARA EJES DE FRESADO

BAGUES D'ÉCARTEMENT POUR PORTE-FRAISES

7285



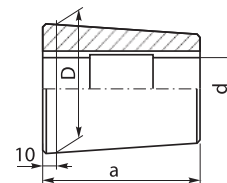
CODE	d	D	b
800001312	16	26	1
800001313	16	27	2
800001314	16	27	3
800001315	16	27	6
800001316	16	27	10
800001317	16	27	20
800001318	16	27	30
800001320	22	33	1
800001321	22	34	2
800001322	22	34	3
800001323	22	34	6
800001324	22	34	10
800001325	22	34	20
800001326	22	34	30
800001327	22	34	60
800001328	27	40	1
800001329	27	41	2
800001330	27	41	3
800001331	27	41	6
800001332	27	41	10
800001333	27	41	20
800001334	27	41	30
800001335	27	41	60
800001336	27	41	100
800001337	32	46	1
800001338	32	47	2
800001339	32	47	3
800001340	32	47	6
800001341	32	47	10
800001342	32	47	20

CODE	d	D	b
800001343	32	47	30
800001344	32	47	60
800001345	32	47	100
800001346	40	54	1
800001347	40	55	2
800001348	40	55	3
800001349	40	55	6
800001350	40	55	10
800001351	40	55	20
800001352	40	55	30
800001353	40	55	60
800001354	40	55	100
800001355	50	68	1
800001356	50	69	2
800001357	50	69	3
800001358	50	69	6
800001359	50	69	10
800001360	50	69	20
800001361	50	69	30
800001362	50	69	60
800001363	50	69	100
800001364	60	83	1
800001365	60	84	2
800001366	60	84	3
800001367	60	84	6
800001368	60	84	10
800001369	60	84	20
800001370	60	84	30
800001372	60	84	60
800001373	60	84	100

CASQUILLOS PARA EJES DE FRESADO

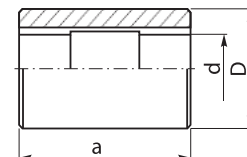
BAGUES POUR PORTE-FRAISES

7272
CONICA
CONICAL



CODE	d	D	a
800001258	16	47	80
800001259	22	47	80
800001260	22	70	100
800001261	27	47	80
800001262	27	70	100
800001263	32	47	80
800001264	32	70	100
800001265	40	70	100
800001266	40	86	100
800001267	50	70	100
800001268	50	86	100
800001269	60	86	100

7275
CILINDRICA
CYLINDRIQUE



CODE	d	D	a
800001270	16	42	60
800001271	16	48	70
800001273	16	56	80
800001274	22	42	60
800001275	22	48	70
800001278	22	56	80
800001279	22	70	100
800001281	27	42	60
800001283	27	48	70
800001285	27	56	80
800001286	27	70	100
800001288	27	85	120
800001290	32	48	70
800001292	32	56	80
800001293	32	70	100
800001295	32	85	120
800001297	40	56	80
800001298	40	70	100
800001300	40	85	120
800001303	50	70	100
800001305	50	85	120
800001301	50	110	140
800001306	60	110	140
800001308	80	110	140
800001311	100	140	160

ACCESORIOS Y PIEZAS DE RECAMBIO

ACCESSOIRES ET PIÈCES DÉTACHÉES

TUERCA DE EXTRACCIÓN

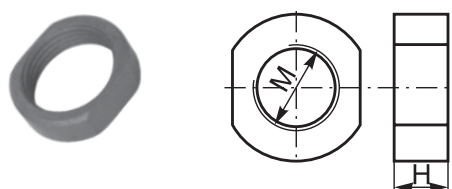
ÉCROU DE SERRAGE



CODE	TYPE	M	L
800003031	S-0772/0	M12 X 1.5	10,5
800003032	S-0774/0	M16 X 1.5	12
800003033	S-0776/0	M22 X 1.5	15,5
800003034	S-0778/0	M27 X 1.5	17,5
800003035	S-0780/0	M36 X 1.5	21
800003036	S-0782/0	M48 X 1.5	23
800003037	S-0784/0	M68 X 1.5	25,5

TUERCA PARA ESCARIADORES S310

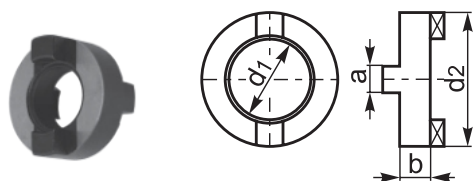
ÉCROU POUR S310 ALÉSIRS



CODE	TYPE	M	L
800003039	S-0881/0	M12 X 1	6
800003041	S-0884/0	M16 X 1.5	7
800003043	S-0887/0	M20 X 1	8
800003045	S-0891/0	M22 X 1	9
800003047	S-0894/0	M27 X 2	12
800003049	S-0897/0	M30 X 2	12
800003052	S-0901/0	M36 X 3	14
800003054	S-0905/0	M45 X 3	16
800003056	S-0909/0	M52 X 3	16

ANILLO CONDUCTOR

ANNEAU D'ENTRAÎNEMENT



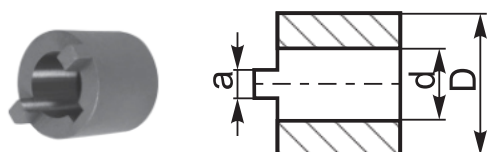
CODE	TYPE	d ₁	d ₂	a	b
800003084	U-1364/0	16	32	8	10
800003085	U-1365/0	22	40	10	12
800003086	U-1366/0	27	48	12	12
800003087	U-1367/0	32	58	14	14
800003088	U-1368/0	40	70	16	14
800003089	U-1369/0	50	90	18	16

ANILLO CONDUCTOR

PARA ESCARIADORES S310

ANNEAU D'ENTRAÎNEMENT

POUR S310 ALÉSIRS

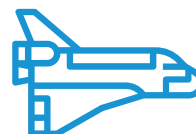


CODE	TYPE	a	d	D
800003038	S-0880/0	4	10	18
800003040	S-0883/0	4	13	21
800003042	S-0886/0	5	16	27
800003044	S-0890/0	6	19	32
800003046	S-0893/0	7	22	39
800003048	S-0896/0	8	27	46
800003051	S-0900/0	10	32	56
800003053	S-0904/0	12	40	65
800003055	S-0908/0	14	50	80

APPLICATION



AUTOMOTIVE



**AEROSPACE
INDUSTRY**



**MEDICAL
INDUSTRY**



**MECHANICAL
ENGINEERING**



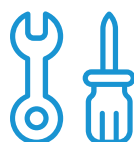
BISON



**STEEL
CONSTRUCTION**



RAILWAY



**TOOL & MOLD
PRODUCTION**

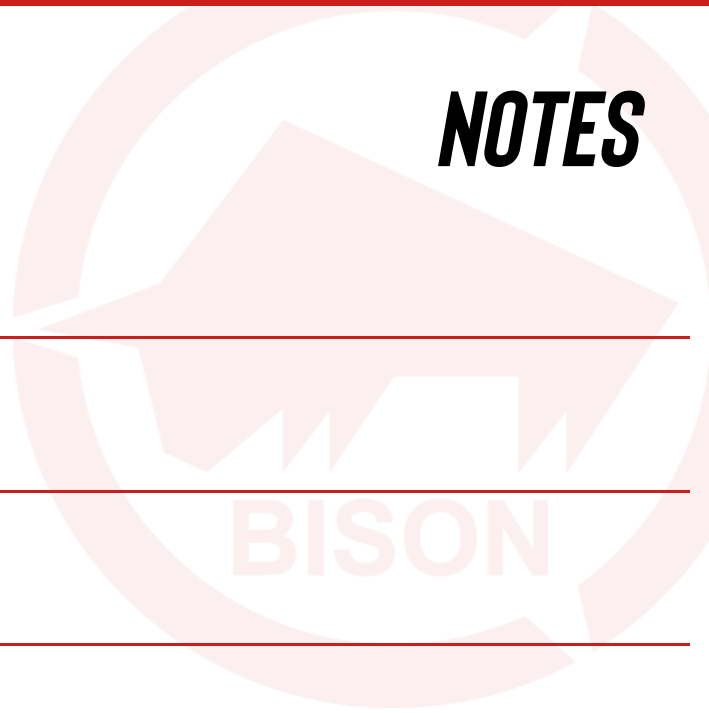


**POWER
GENERATION**

PARA OBTENER MÁS INFORMACIONES SOBRE LOS PRODUCTOS DE NUESTRA GAMA, Y OBTENER LOS DISEÑOS TÉCNICOS, LE PEDIMOS QUE SOLICITE EL CATÁLOGO COMPLETO A SU REFERENTE COMERCIAL BISON DE CONFIANZA.

POUR PLUS D'INFORMATIONS SUR LES PRODUITS DE NOTRE GAMME, ET OBTENIR LES DESSINS TECHNIQUES, VEILLEZ-VOUS DEMANDER LE CATALOGUE COMPLET À VOTRE RÉFÉRENT BISON DE CONFIANCE.

NOTES



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***ERRORES TIPOGRÁFICOS O DE IMPRENTA COMETIDOS POR LA SOCIEDAD DEL GRUPO BISON
ESTÁN SUJETOS A CORRECCIÓN SIN NINGUNA RESPONSABILIDAD POR PARTE DEL GRUPO***

***ERREURS TYPHOGRAPHIQUES OU D'IMPRESSION ÉMISES PAR SOCIÉTÉS DU GROUPE BISON
ILS FONT L'OBJET DE RECTIFICATION SANS AUCUNE RESPONSABILITÉ DE LA PART DU GROUP***

BISON ITALIA SRL

VIA DELLE ARTI 10

40023 - CASTEL GUELFO (BO)

ITALY

+39 0542-1890365

INFO@BISON-CHUCK.IT

WWW.BISONITALIA.COM

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MANDRINS MANUELS ET AUTOMATIQUES**
- 2. PUNTOS FIJOS Y GIRATORIOS
CONTRE-POINTES FIXES ET TOURNANTES**
- 3. MORDAZAS Y DISPOSITIVOS DE DIVISIÓN
ÉTAUX ET DIVISEURS**
- 4. HUSILLOS
ATTACHMENTS**

BISON