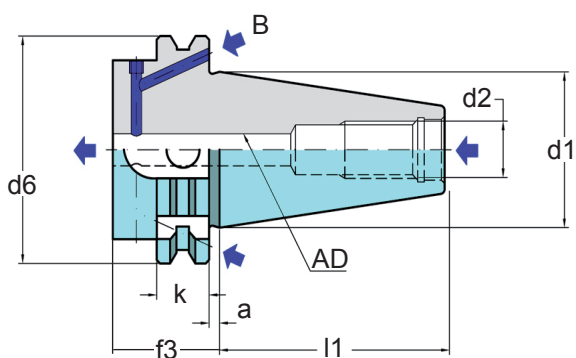
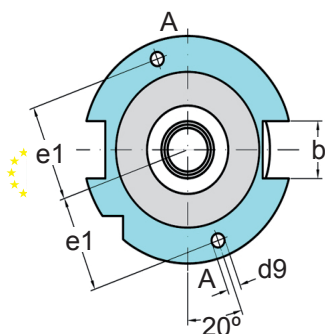




PROGRAMA

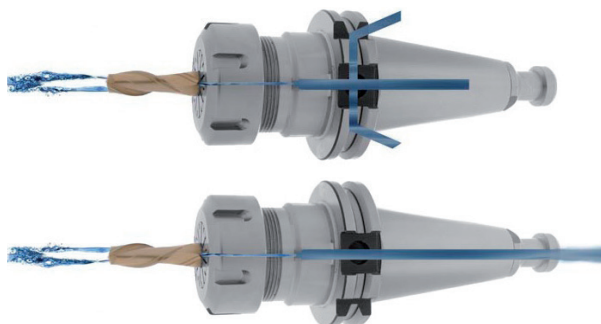
						
PAG. 4-5	PAG. 6	PAG. 7	PAG. 8	PAG. 8	PAG. 9	PAG. 9
						
PAG. 10	PAG. 11-14	PAG. 15	PAG. 16-17	PAG. 18	PAG. 19-24	PAG. 25
						
PAG. 26	PAG. 26	PAG. 27-28	PAG. 29-31	PAG. 32-34	PAG. 35	PAG. 36
						
PAG. 37	PAG. 38	PAG. 39	PAG. 39-40	PAG. 41	PAG. 42-46	PAG. 46
						
PAG. 47-49	PAG. 49	PAG. 50	PAG. 51	PAG. 52-53	PAG. 54	PAG. 55
						
PAG. 55	PAG. 56	PAG. 56	PAG. 57-59	PAG. 57-59	PAG. 60	PAG. 61



CONO TAPER	FORMA FORM	d1	d2	d6	l1	a	k	f3	b	d9	e1
TC30	AD	31.75	M12	50	47.8	3.2	15.9	35	16.1	-	-
TCB40	AD+B	44.45	M16	63.55	68.40	3.2	15.9	35	16.1	4	27
TCB45	AD+B	57.15	M20	82.55	82.7	3.2	15.9	35	19.3	5	35
TCB50	AD+B	69.85	M24	97.50	101.75	3.2	15.9	35	25.7	6	42

Forma
AD+B = TCB

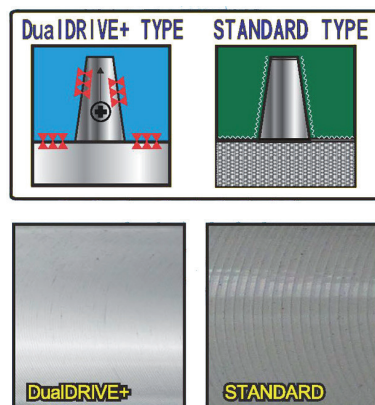
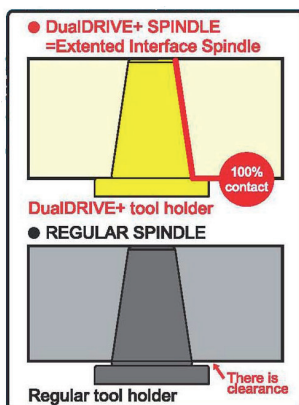
Forma
AD = TC



DOBLE
CONTACTO

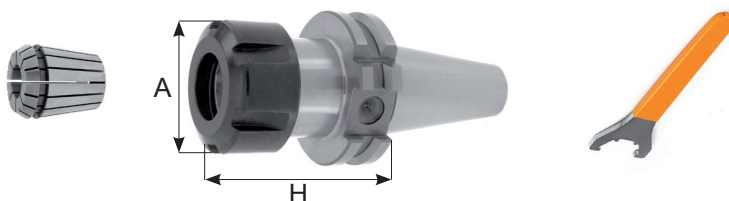


CONO TAPER	FORMA FORM
SDAT40	AD
SDAT50	AD



DIN/69871

Porta pinzas ER tuerca STANDARD
Collet chucks ER STANDARD nut



TC30

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TC30.H63.ERC16	1	1 ÷ 10	12.000	AD	63	28
TC30.H100.ERC16					100	
TC30.H63.ERC20	1	1 ÷ 14	12.000	AD	63	34
TC30.H63.ERC25	1	1 ÷ 20	12.000	AD	63	42
TC30.H90.ERC25					90	
TC30.H63.ERC32	1	2 ÷ 22	12.000	AD	63	50
TC30.H100.ERC32					100	

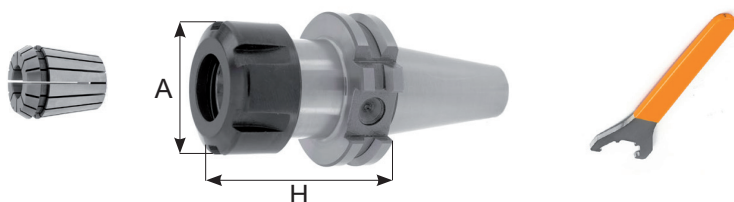
TC40

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TCB40.H70.ERC16	1	1 ÷ 10	12.000	AD+B	70	28
TCB40.H100.ERC16					100	
TCB40.H120.ERC16					120	
TCB40.H150.ERC16					150	
TCB40.H200.ERC16					200	
TCB40.H70.ERC20	1	1 ÷ 14	12.000	AD+B	70	34
TCB40.H100.ERC20					100	
TCB40.H120.ERC20					120	
TCB40.H150.ERC20					150	
TCB40.H70.ERC25	1	1 ÷ 20	12.000	AD+B	70	42
TCB40.H100.ERC25					100	
TCB40.H130.ERC25					130	
TCB40.H160.ERC25					160	
TCB40.H200.ERC25					200	
TCB40.H70.ERC32	1	2 ÷ 22	12.000	AD+B	70	50
TCB40.H100.ERC32					100	
TCB40.H130.ERC32					130	
TCB40.H160.ERC32					160	
TCB40.H200.ERC32					200	
TCB40.H70.ERC40	1	3 ÷ 30	12.000	AD+B	70	63
TCB40.H100.ERC40					100	
TCB40.H130.ERC40					130	
TCB40.H150.ERC40					150	
TCB40.H200.ERC40					200	
TCB40.H85.ERC50	1	6 ÷ 34	12.000	AD	85	78
TC40.H120.ERC50					120	



DIN/69871

Porta pinzas ER tuerca STANDARD
Collet chucks ER STANDARD nut



TC45

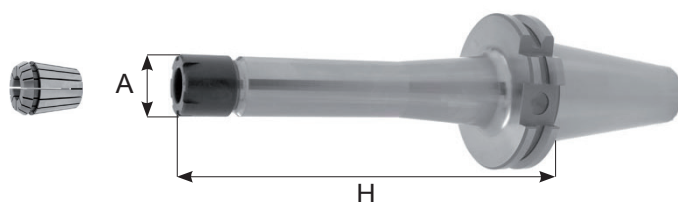
REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TCB45.H80.ERC32	1	2 ÷ 22	12.000	AD+B	80	50
TCB45.H100.ERC32					100	
TCB45.H80.ERC40	1	6 ÷ 34	12.000	AD+B	80	63

TC50

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TCB50.H100.ERC16	1	1 ÷ 10	12.000	AD+B	100	28
TCB50.H160.ERC16					160	
TCB50.H200.ERC16					200	
TCB50.H100.ERC20	1	1 ÷ 14	12.000	AD+B	100	34
TCB50.H160.ERC20					160	
TCB50.H80.ERC25	1	1 ÷ 20	12.000	AD+B	80	42
TCB50.H100.ERC25					100	
TCB50.H130.ERC25					130	
TCB50.H160.ERC25					160	
TCB50.H200.ERC25					200	
TCB50.H80.ERC32	1	2 ÷ 22	12.000	AD+B	80	50
TCB50.H100.ERC32					100	
TCB50.H130.ERC32					130	
TCB50.H160.ERC32					160	
TCB50.H200.ERC32					200	
TCB50.H250.ERC32					250	
TCB50.H80.ERC40	1	3 ÷ 30	12.000	AD+B	80	63
TCB50.H100.ERC40					100	
TCB50.H130.ERC40					130	
TCB50.H160.ERC40					160	
TCB50.H200.ERC40					200	
TCB50.H100.ERC50	1	6 ÷ 34	12.000	AD+B	100	78
TCB50.H130.ERC50					130	
TCB50.H160.ERC50					160	

DIN/69871

Porta pinzas ER tuerca MINI
Collet chucks ER MINI nut



TC40

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TCB40.H100.ERC11M	1	1 ÷ 7	12.000	AD+B	100	16
TCB40.H125.ERC11M					125	
TCB40.H150.ERC11M					150	
TCB40.H70.ERC16M	1	1 ÷ 10	12.000	AD+B	70	22
TCB40.H100.ERC16M					100	
TCB40.H125.ERC16M					125	
TCB40.H150.ERC16M					150	
TCB40.H100.ERC20M	1	1 ÷ 14	12.000	AD+B	100	28
TCB40.H135.ERC20M					135	
TCB40.H150.ERC20M					150	
TCB40.H100.ERC25M	1	1 ÷ 20	12.000	AD+B	100	35
TCB40.H150.ERC25M					150	
TCB40.H200.ERC25M					200	

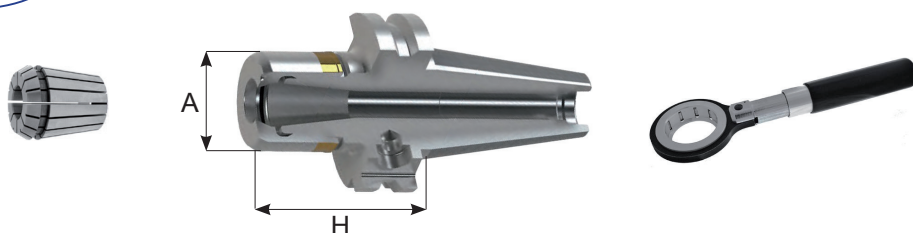
TC50

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TCB50.H130.ERC16M	1	1 ÷ 10	12.000	AD+B	130	22
TCB50.H160.ERC16M					160	
TCB50.H200.ERC16M					200	
TCB50.H130.ERC20M	1	1 ÷ 14	12.000	AD+B	130	28
TCB50.H130.ERC25M	1	1 ÷ 20	12.000	AD+B	130	35
TCB50.H160.ERC25M					160	



DIN/69871

Porta pinzas ER - ALTA VELOCIDAD
Collet chucks ER - HIGH SPEED



TC30

REFERENCIA	FAM	CAP	EQUIL	FORMA	H	A
TC30.H50.ERC16MNF	3	1 ÷ 7	G2.5	AD	50	16
TC30.H100.ERC16MNF					100	
TC30.H70.ERC25NF	3	1 ÷ 10	G2.5	AD	50	28

TC40

REFERENCIA	FAM	CAP	EQUIL	FORMA	H	A
TC40.H100.ERC11MNF	3	1 ÷ 7	G2.5	AD	100	16
TC40.H70.ERC16NF	3	1 ÷ 10	G2.5	AD	70	28
TC40.H100.ERC16NF					100	
TC40.H160.ERC16NF					160	
TC40.H70.ERC25NF	3	1 ÷ 20	G2.5	AD	70	40
TC40.H100.ERC25NF					100	
TC40.H160.ERC25NF					160	
TC40.H70.ERC32NF	3	2 ÷ 22	G2.5	AD	70	50
TC40.H100.ERC32NF					100	
TC40.H160.ERC32NF					160	

Tuerca MR - ALTA VELOCIDAD
MR Nut - HIGH SPEED



LLave MR - ALTA VELOCIDAD
Wrench MR - HIGH SPEED



REFERENCIA	FAM	TUERCA	A	REFERENCIA	FAM	LLAVE
MR11MNF	3	MINI	16	CH-MR2-25Nm	3	DINAMOMETRICA
MR16MNF	3	MINI	24	CH-MR20-200Nm		DINAMOMETRICA
MR16NF	3	STANDARD	28	CH-MR-230		MANGO / 230mm
MR25NF	3	STANDARD	40	CH-MR11MNF	3	MINI
MR32NF	3	STANDARD	50	CH-MR16MNF		MINI
				CH-MR16NF		STANDARD
				CH-MR25NF		STANDARD
				CH-MR32NF		STANDARD

DIN/69871

Porta pinzas Extra Corto Shorty Collet chucks

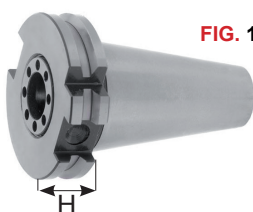


FIG. 1

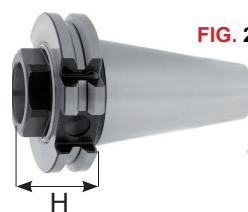


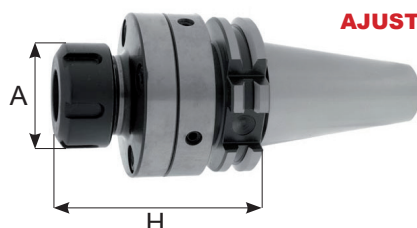
FIG. 2

TC40 / TC50

REFERENCIA	FAM	CAP	RPM	FORMA	H
TC40.H21.ERC25A	1	1 ÷ 20	12.000	AD	21
TC40.H21.ERC32A		2 ÷ 22		AD	21
TC50.H21.ERC32A		2 ÷ 22		AD	21
TCB40.H40.ERC32A		2 ÷ 22		AD+B	40
TCB40.H47.ERC32AEX		2 ÷ 22		AD+B	47
TCB50.H40.ERC32A		2 ÷ 22		AD+B	40
TCB50.H47.ERC32AEX		2 ÷ 22		AD+B	47

DIN/69871

Porta pinzas Radial Regulable Radial adjustable collet chucks



AJUSTE 0.01mm



TC40 / TC50

REFERENCIA	FAM	CAP	FORMA	A	H
TCB40.H96.ERC25RG	1	1 ÷ 20	AD + B	42	96
TCB40.H97.ERC32RG	1	2 ÷ 22	AD + B	50	97
TCB40.H133.ERC40RG	1	3 ÷ 30	AD + B	63	133
TCB50.H97.ERC32RG	1	2 ÷ 22	AD + B	50	97

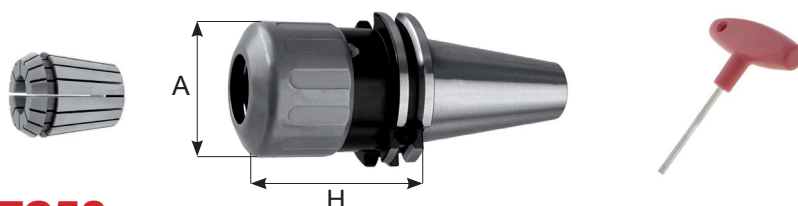
Permite la alineación de la herramienta y la pieza a mecanizar, con la tolerancia de 0.01mm

By using the chuck RG, the runout of the cutting tool can be adjusted to 0.01mm



DIN/69871

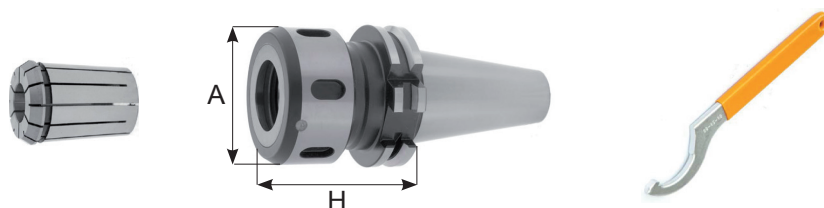
Porta pinzas Gran Apriete Mecánico pinza ER
Mechanical collet chucks ER with high tightening torque



TC40 / TC50

REFERENCIA	FAM	CAP	RPM	FORMA	PINZA	H	A
TC40.H80.MTT54	13	2 ÷ 22	15.000	AD	ER32	80	54
TC50.H110.MTT54	13	2 ÷ 22	15.000	AD	ER32	110	54
TC50.H120.MTT65		3 ÷ 30	15.000	AD	ER40	120	65

Porta pinzas para pinza EOC DIN/6388 B
Collet chucks EOC DIN/6388 B

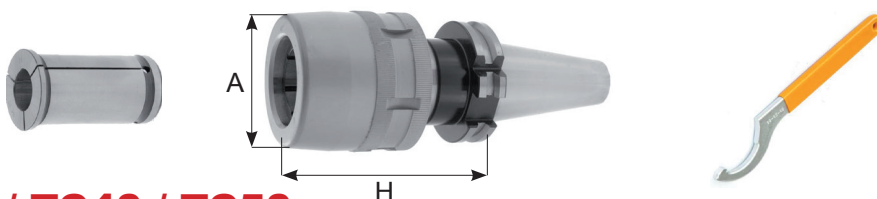


TC30 / TC40 / TC50

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
TC30.H60.EOC16	1	2 ÷ 16	12.000	AD	60	43
TC30.H80.EOC25		2 ÷ 25			80	60
TCB40.H70.EOC16	1	2 ÷ 16	12.000	AD+B	70	43
TCB40.H100.EOC16					100	43
TCB40.H70.EOC25	1	2 ÷ 25	12.000	AD+B	70	60
TCB40.H100.EOC25					100	60
TCB40.H90.EOC32	1	3 ÷ 32	12.000	AD+B	90	72
TCB50.H70.EOC16	1	2 ÷ 16	12.000	AD+B	70	43
TCB50.H70.EOC25	1	2 ÷ 25	12.000	AD+B	70	60
TCB50.H100.EOC25					100	60
TCB50.H80.EOC32	1	3 ÷ 32	12.000	AD+B	80	72

DIN/69871

Porta pinzas Gran Apriete Mecánico pinza cilíndrica
Power milling chucks



TC30 / TC40 / TC50

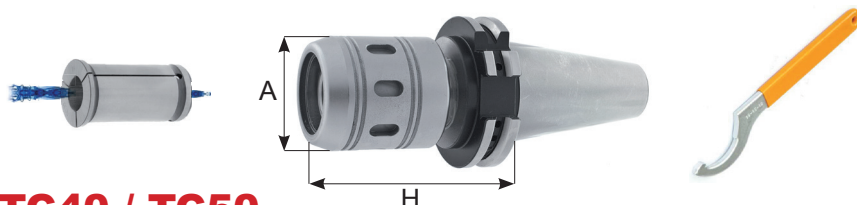
REFERENCIA	FAM	CAP	FORMA	H	A
TC30.H100.MC20	18	3 ÷ 16	AD	100	56.5
TC40.H135.MC20	18	3 ÷ 16	AD	135	56.5
TC40.H105.MC32		3 ÷ 25		105	71
TC50.H105.MC20	18	3 ÷ 16	AD	105	56.5
TC50.H135.MC32		3 ÷ 25		135	71

Estuche porta pinzas Gran Apriete Mecánico
Straight shank collet chuck kit

REFERENCIA	FAM	Capacidad
BX.TC40.MC20	1	Pinza 3SR20
BX.TC50.MC20		6 . 8 . 10 . 12 . 16
BX.TC40.MC32	1	Pinza 3SR32
BX.TC50.MC32		6 . 8 . 10 . 12 . 16 . 20 . 25



Porta pinzas Gran Apriete Mecánico pinza cilíndrica paso refrigerante
Sealed collets Power milling chuck



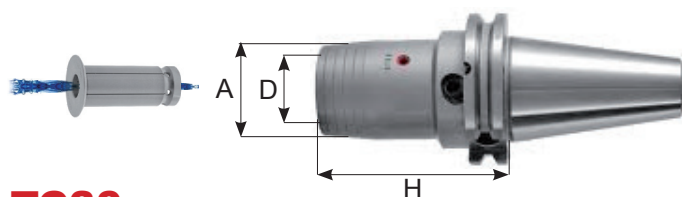
**Refrigeración
Interna
Coolant flow**

TC40 / TC50

REFERENCIA	FAM	CAP	FORMA	H	A
TCB40.H75.MCP20	1	3 ÷ 16	AD+B	75	46
TCB40.H95.MCP32	1	4 ÷ 25	AD+B	95	62
TCB50.H85.MCP20	1	3 ÷ 16	AD+B	85	46
TCB50.H85.MCP32	1	4 ÷ 25	AD+B	85	62

DIN/69871

Porta pinzas Hidraulico paso refrigerante
Sealed collets Hydraulic Collet chucks



Refrigeración
Interna
Coolant flow

TC30

REFERENCIA	FAM	D	FORMA	H	A
TCB30.H60.HD6	4	6	AD+B	60	45
TCB30.H64.HD8		8		64	45
TCB30.H64.HD10		10		64	45
TCB30.H72.HD12		12		72	45
TCB30.H72.HD14		14		72	45
TCB30.H72.HD16		16		72	45
TCB30.H72.HD18		18		72	45
TCB30.H90.HD20		20		90	42
TCB30.H105.HD25		25		105	45
TCB30.H135.HD25		25		135	45

TC40

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H68.HD6	4	6	AD+B	68	26
TCB40.H110.HD6				110	
TCB40.H150.HD6				150	
TCB40.H68.HD8	4	8	AD+B	68	28
TCB40.H110.HD8				110	
TCB40.H150.HD8				150	
TCB40.H72.HD10	4	10	AD+B	72	30
TCB40.H110.HD10				110	
TCB40.H150.HD10				150	
TCB40.H77.HD12	4	12	AD+B	77	32
TCB40.H110.HD12				110	
TCB40.H150.HD12				150	
TCB40.H77.HD14	4	14	AD+B	77	34
TCB40.H110.HD14				110	
TCB40.H150.HD14				150	
TCB40.H80.HD16	4	16	AD+B	80	38
TCB40.H110.HD16				110	
TCB40.H150.HD16				150	
TCB40.H80.HD18	4	18	AD+B	80	40
TCB40.H110.HD18				110	
TCB40.H150.HD18				150	



DIN/69871

Porta pinzas Hidraulico paso refrigerante
Sealed collets Hydraulic Collet chucks



Refrigeración
Interna
Coolant flow

TC40

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H82.HD20	4	20	AD+B	82	42
TCB40.H110.HD20				110	
TCB40.H150.HD20				150	
TCB40.H180.HD20				180	
TCB40.H117.HD25	4	25	AD+B	117	50
TCB40.H150.HD25				150	
TCB40.H210.HD25				210	
TCB40.H117.HD32	4	32	AD+B	117	60

TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB50.H68.HD6	4	6	AD+B	68	26
TCB50.H110.HD6				110	
TCB50.H150.HD6				150	
TCB50.H200.HD6				200	
TCB50.H68.HD8	4	8	AD+B	68	28
TCB50.H110.HD8				110	
TCB50.H150.HD8				150	
TCB50.H200.HD8				200	
TCB50.H72.HD10	4	10	AD+B	72	30
TCB50.H110.HD10				110	
TCB50.H150.HD10				150	
TCB50.H200.HD10				200	
TCB50.H77.HD12	4	12	AD+B	77	32
TCB50.H110.HD12				110	
TCB50.H150.HD12				150	
TCB50.H200.HD12				200	
TCB50.H77.HD14	4	14	AD+B	77	34
TCB50.H110.HD14				110	
TCB50.H150.HD14				150	
TCB50.H200.HD14				200	
TCB50.H80.HD16	4	16	AD+B	80	38
TCB50.H110.HD16				110	
TCB50.H150.HD16				150	
TCB50.H200.HD16				200	

DIN/69871

Porta pinzas Hidraulico paso refrigerante
Sealed collets Hydraulic Collet chucks



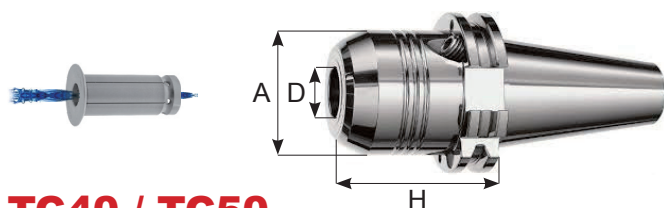
**Refrigeración
Interna
Coolant flow**

TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB50.H80.HD18	4	18	AD+B	80	40
TCB50.H110.HD18				110	
TCB50.H150.HD18				150	
TCB50.H200.HD18				200	
TCB50.H82.HD20	4	20	AD+B	82	42
TCB50.H110.HD20				110	
TCB50.H150.HD20				150	
TCB50.H160.HD20				160	
TCB50.H180.HD20				180	
TCB50.H200.HD20				200	
TCB50.H87.HD25	4	25	AD+B	87	50
TCB50.H110.HD25				110	
TCB50.H150.HD25				150	
TCB50.H160.HD25				160	
TCB50.H200.HD25				200	
TCB50.H210.HD25				210	
TCB50.H91.HD30	4	30	AD+B	91	70
TCB50.H91.HD32	4	32	AD+B	91	60
TCB50.H110.HD32				110	
TCB50.H150.HD32				150	
TCB50.H200.HD32				200	
TCB50.H120.HD40	4	40	AD+B	120	70
TCB50.H150.HD40	4	50	AD+B	150	78
TCB50.H120.HD50				120	



Porta pinzas Hidraulico serie corta reforzado con paso refrigerante
Hydraulic chucks short desing



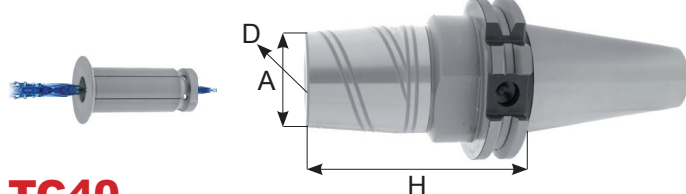
Refrigeración
Interna
Coolant flow

TC40 / TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H30.HD20	4	20	AD+B	30	49.5
TCB40.H64.5.HD20				64.5	49.5
TCB40.H80.5.HD6	4	6	AD+B	80.5	49.5
TCB40.H80.5.HD8		8			
TCB40.H80.5.HD10		10			
TCB40.H80.5.HD12		12			
TCB40.H80.5.HD14		14			
TCB40.H80.5.HD16		16			
TCB40.H80.5.HD20		20			
TCB40.H80.5.HD25		25			66
TCB40.H80.5.HD32		32			80
TCB50.H25.HD32	4	32	AD+B	25	72
TCB50.H81.HD32				81	80

DIN/69871

Porta pinzas Hidraulico
Hydraulic expansion chucks



Refrigeración
Interna
Coolant flow

TC40

REFERENCIA	FAM	D	RPM	FORMA	H	A
TCB40.H60.D20HYE	1	20	20.000	AD+B	60	50
TCB40.H85.D20HYE		20		AD+B	85	42
TCB40.H95.D32HYE		32		AD+B	95	56

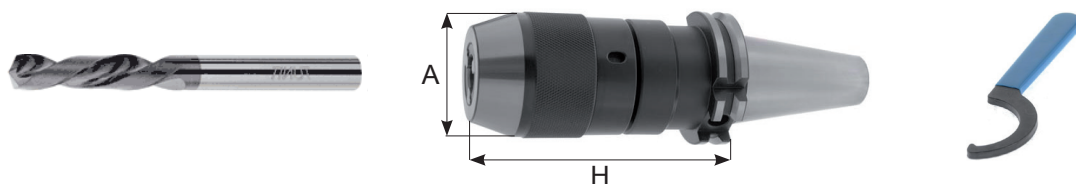
Pinzas Hidraulicas
Collets for hydraulic



PAG. 1 - 46

DIN/69871

Mandrino Porta brocas con llave de gancho
Drill chuck with hook wrench



TC30

REFERENCIA	FAM	CAP	H	A
TC30.H80.DCK8	1	1 ÷ 8	80	36

7

TC40

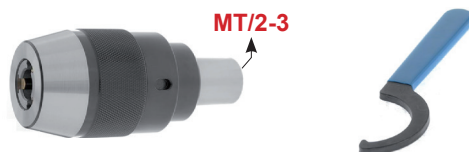
REFERENCIA	FAM	CAP	H	A
TC40.H75.DCK8	1	1 ÷ 8	75	36
TC40.H100.DCK13		1 ÷ 13	100	50
TC40.H115.DCK16		1 ÷ 16	115	58

TC50

REFERENCIA	FAM	CAP	H	A
TC50.H88.DCK13	1	1 ÷ 13	88	50
TC50.H90.DCK16		1 ÷ 16	90	58

DIN/69871

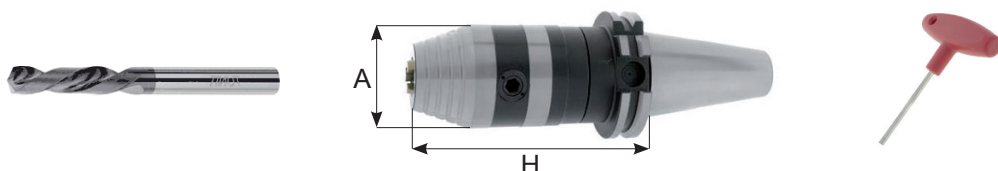
Recambio Porta brocas con llave de gancho
Replacement drill chuck with hook wrench heads



REFERENCIA	FAM	CAP
DCK8.MT2S	1	1 ÷ 8
DCK13.MT3S		1 ÷ 13
DCK16.MT3S		1 ÷ 16

DIN/69871

Porta brocas Gran apriete con llave hexagonal
Exagonal key look drill chucks titanium jaws



TC30

REFERENCIA	FAM	CAP	FORMA	H	A
TC30.H90.CP13	2	1 ÷ 13	AD	90	50

TC40

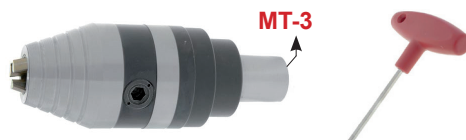
REFERENCIA	FAM	CAP	FORMA	H	A
TC40.H115.CP13	1	1 ÷ 13	AD	115	50
TC40.H120.CP16		1 ÷ 16	AD	120	50

TC50

REFERENCIA	FAM	CAP	FORMA	H	A
TC50.H103.CP13	1	1 ÷ 13	AD	103	50
TC50.H108.CP16		1 ÷ 16	AD	108	50

DIN/69871

Recambio Porta brocas Gran apriete
Replacement drill chuck heads

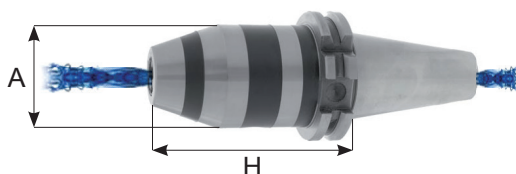


REFERENCIA	FAM	CAP
CP13.MT3	1	1 ÷ 13
CP16-MT3		1 ÷ 16



DIN/69871

Porta brocas Gran apriete llave hexagonal paso refrigerante
Exagonal key lock drill chucks with coolant through



Refrigeración
Interna
Coolant flow

TC40 / TC50

REFERENCIA	FAM	CAP	FORMA	H	A
TC40.H90.HD13	1	1 ÷ 13	AD	90	50
TC40.H95.HD16		1 ÷ 16	AD	95	50
TC50.H90.HD13		1 ÷ 13	AD	90	50
TC50.H95.HD16		1 ÷ 16	AD	95	50

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DIN/69871

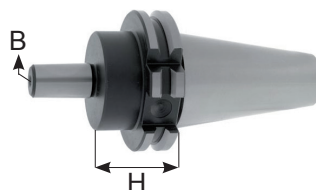
Recambio Porta brocas Gran apriete paso refrigerante
Replacement drill chuck heads



REFERENCIA	FAM	CAP
HD13	1	1 ÷ 13
HD16		1 ÷ 16

DIN/69871

Mandrino Porta brocas
Drill chuck Arbors

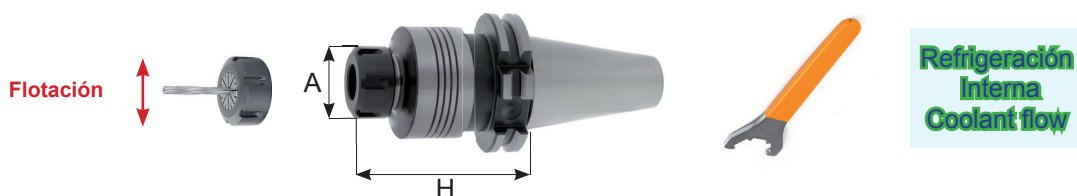


TC30 / TC40 / TC50

REFERENCIA	FAM	DIN	B	H
TC30.H25.B12	1	DIN/238	B12	25
TC30.H25.B16		DIN/238	B16	25
TC40.H40.B12	1	DIN/238	B12	40
TC40.H40.B16		DIN/238	B16	40
TC40.H40.B18		DIN/238	B18	40
TC50.H40.B16	1	DIN/238	B16	40
TC50.H40.B18		DIN/238	B18	40

DIN/69871

Porta Escariador flotante con paso refrigerante
Floating reamer holder with coolant flow



TC30 / TC40 / TC50

REFERENCIA	FAM	CAP	PINZA	FORMA	FLOT	H	A
TC30.16.RM16	6	1 ÷ 10	ER16	AD	± 1 mm	79	32
TC30.16.RM20		1 ÷ 16	ER20			85	35
TC30.20.RM16		1 ÷ 10	ER16			79	32
TC30.20.RM20		1 ÷ 16	ER20			85	35
TC40.16.RM16	6	1 ÷ 14	ER16	AD	± 1 mm	79	32
TC40.16.RM25		1 ÷ 20	ER25			88	42
TC40.20.RM16		1 ÷ 14	ER16			79	32
TC40.20.RM25		1 ÷ 20	ER25			88	42
TC40.25.RM20		1 ÷ 16	ER20			88	35
TC40.25.RM32		2 ÷ 22	ER32			93	50
TC40.25.RM40		3 ÷ 30	ER40			99	63
TC40.32.RM32		2 ÷ 22	ER32			93	50
TC40.32.RM40		3 ÷ 30	ER40			99	63
TC50.16.RM16	6	1 ÷ 14	ER16	AD	± 1 mm	79	32
TC50.16.RM25		1 ÷ 20	ER25			88	42
TC50.20.RM16		1 ÷ 14	ER16			79	32
TC50.20.RM25		1 ÷ 20	ER25			88	42
TC50.25.RM16		1 ÷ 14	ER16			88	32
TC50.25.RM32		2 ÷ 22	ER32			93	50
TC50.25.RM40		3 ÷ 30	ER40			99	63
TC50.32.RM32		2 ÷ 22	ER32			93	50
TC50.32.RM40		3 ÷ 30	ER40			99	63

El escariador oscila radialmente con un sistema flotante y autocentrante regulable.

Garantiza un perfecto alineamiento del mecanizado. También en alta velocidad.

Esta taladrado para permitir el paso de la refrigeración a través de la pinza o escariador

The holder is designed with full floating and selfcentering movement.

The alignment of the reamer with a previously drilled hole is granted also to the high speeds.

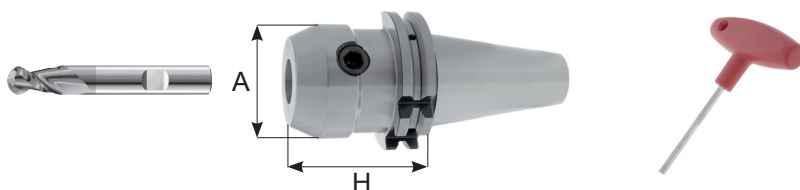
The floating of the reamer is easy adjustable.

The holder is full drilled for coolant or air supply y through the collet slots or the reamer holes.



DIN/69871

Porta fresas weldon DIN 1835-B
End mill holders for DIN 1835-B



TC30

REFERENCIA	FAM	D	FORMA	H	A
TC30.H50.WE6	1	6	AD	50	25
TC30.H50.WE8	1	8	AD	50	28
TC30.H50.WE10	1	10	AD	50	35
TC30.H50.WE12	1	12	AD	50	42
TC30.H63.WE14	1	14	AD	63	44
TC30.H63.WE16	1	16	AD	63	48
TC30.H63.WE18	1	18	AD	63	50
TC30.H70.WE20	1	20	AD	70	52
TC30.H100.WE20	1	20	AD	100	65

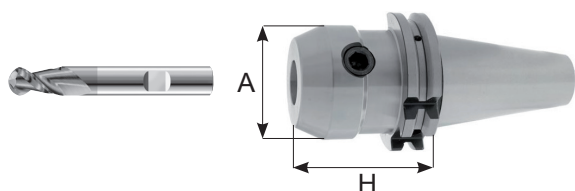
TC40

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H50.WE6	1	6	AD+B	50	25
TCB40.H100.WE6				100	
TCB40.H130.WE6				130	
TCB40.H160.WE6				160	
TCB40.H200.WE6				200	
TCB40.H50.WE8	1	8	AD+B	50	28
TCB40.H100.WE8				100	
TCB40.H130.WE8				130	
TCB40.H160.WE8				160	
TCB40.H200.WE8				200	
TCB40.H50.WE10	1	10	AD+B	63	35
TCB40.H100.WE10				100	
TCB40.H130.WE10				130	
TCB40.H160.WE10				160	
TCB40.H200.WE10				200	



DIN/69871

Porta fresas weldon DIN 1835-B
End mill holders for DIN 1835-B shanks



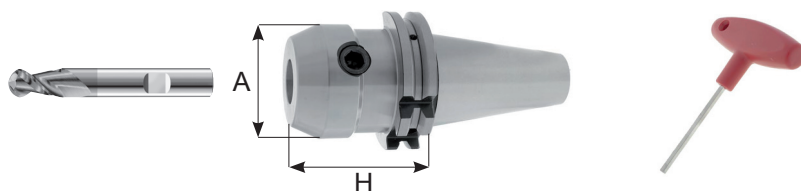
TC40

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H50.WE12	1	12	AD+B	50	42
TCB40.H100.WE12				100	
TCB40.H130.WE12				130	
TCB40.H160.WE12				160	
TCB40.H200.WE12				200	
TCB40.H50.WE14	1	14	AD+B	50	44
TCB40.H100.WE14				100	
TCB40.H130.WE14				130	
TCB40.H160.WE14				160	
TCB40.H200.WE14				200	
TCB40.H63.WE16	1	16	AD+B	63	48
TCB40.H100.WE16				100	
TCB40.H130.WE16				130	
TCB40.H160.WE16				160	
TCB40.H200.WE16				200	
TCB40.H63.WE18	1	18	AD+B	63	50
TCB40.H100.WE18				100	
TCB40.H130.WE18				130	
TCB40.H160.WE18				160	
TCB40.H200.WE18				200	
TCB40.H63.WE20	1	20	AD+B	63	52
TCB40.H100.WE20				100	
TCB40.H130.WE20				130	
TCB40.H160.WE20				160	
TCB40.H200.WE20				200	
TCB40.H100.WE25	1	25	AD+B	100	65
TCB40.H130.WE25				130	
TCB40.H160.WE25				160	
TCB40.H100.WE32	1	32	AD+B	100	72
TCB40.H130.WE32				130	
TCB40.H160.WE32				160	
TCB40.H120.WE40	1	40	AD+B	120	80



DIN/69871

Porta fresas weldon DIN 1835-B
End mill holders for DIN 1835-B shanks

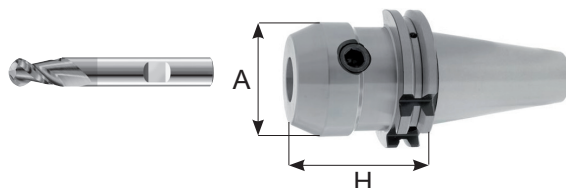


TCB50

REFERENCIA		D	FORMA	H	A
TCB50.H63.WE6	1	6	AD+B	63	25
TCB50.H100.WE6				100	
TCB50.H130.WE6				130	
TCB50.H160.WE6				160	
TCB50.H200.WE6				200	
TCB50.H63.WE8	1	8	AD+B	63	28
TCB50.H100.WE8				100	
TCB50.H130.WE8				130	
TCB50.H160.WE8				160	
TCB50.H200.WE8				200	
TCB50.H63.WE10	1	10	AD+B	63	35
TCB50.H100.WE10				100	
TCB50.H130.WE10				130	
TCB50.H160.WE10				160	
TCB50.H200.WE10				200	
TCB50.H63.WE12	1	12	AD+B	63	42
TCB50.H100.WE12				100	
TCB50.H130.WE12				130	
TCB50.H160.WE12				160	
TCB50.H200.WE12				200	
TCB50.H63.WE14	1	14	AD+B	63	44
TCB50.H100.WE14				100	
TCB50.H130.WE14				130	
TCB50.H160.WE14				160	
TCB50.H200.WE14				200	
TCB50.H63.WE16	1	16	AD+B	63	48
TCB50.H100.WE16				100	
TCB50.H130.WE16				130	
TCB50.H160.WE16				160	
TCB50.H200.WE16				200	

DIN/69871

Porta fresas weldon DIN 1835-B
End mill holders for DIN 1835-B shanks



TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB50.H63.WE18	1	18	AD+B	63	50
TCB50.H100.WE18				100	
TCB50.H130.WE18				130	
TCB50.H160.WE18				160	
TCB50.H200.WE18				200	
TCB50.H63.WE20	1	20	AD+B	63	52
TCB50.H100.WE20				100	
TCB50.H130.WE20				130	
TCB50.H160.WE20				160	
TCB50.H200.WE20				200	
TCB50.H250.WE20				250	
TCB50.H80.WE25	1	25	AD+B	80	65
TCB50.H100.WE25				100	
TCB50.H130.WE25				130	
TCB50.H160.WE25				160	
TCB50.H200.WE25				200	
TCB50.H250.WE25				250	
TCB50.H100.WE32	1	32	AD+B	100	72
TCB50.H130.WE32				130	
TCB50.H160.WE32				160	
TCB50.H200.WE32				200	
TCB50.H250.WE32				250	
TCB50.H112.WE40	1	40	AD+B	112	80
TCB50.H130.WE40				130	
TCB50.H160.WE40				160	
TCB50.H200.WE40				200	
TCB50.H130.WE50	1	50	AD+B	130	100

Forma
AD+B = TCB

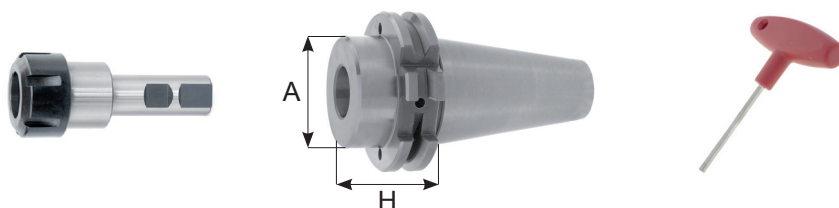


Forma
AD = TC



DIN/69871

Porta fresas weldon extra corto DIN 1835-B
Short type end mill holders for DIN 1835-B shanks



TC30

REFERENCIA	FAM	D	FORMA	H	A
TC30.H35.WE16	1	16	AD	35	25
TC30.H35.WE20		20		35	28

TC40

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H35.WE12	1	12	AD+B	35	44
TCB40.H35.WE14		14		35	44
TCB40.H35.WE16		16		35	44
TCB40.H35.WE18		18		35	44
TCB40.H35.WE20		20		35	44
TCB40.H35.WE25		25		35	44
TCB40.H60.WE25		25		60	49
TCB40.H40.WE32		32		40	44
TCB40.H70.WE32		32		70	72

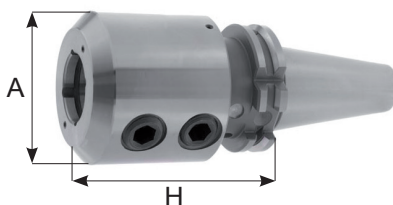
TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB50.H35.WE16	1	16	AD+B	35	70
TCB50.H35.WE18		18		35	70
TCB50.H35.WE20		20		35	70
TCB50.H35.WE25		25		35	70
TCB50.H35.WE32		32		35	70
TCB50.H35.WE40		40		35	70



DIN/69871

Porta fresas weldon con canal de refrigeración
End mill holders with coolant channels



TC40

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H50.WE6C	1	6	AD+B	50	25
TCB40.H50.WE8C		8		50	28
TCB40.H50.WE10C		10		50	35
TCB40.H50.WE12C		12		50	42
TCB40.H50.WE14C		14		50	44
TCB40.H63.WE16C		16		63	48
TCB40.H63.WE18C		18		63	50
TCB40.H63.WE20C		20		63	52
TCB40.H100.WE25C		25		100	65
TCB40.H100.WE32C		32		100	72
TCB40.H120.WE40C		40		120	80

TC50

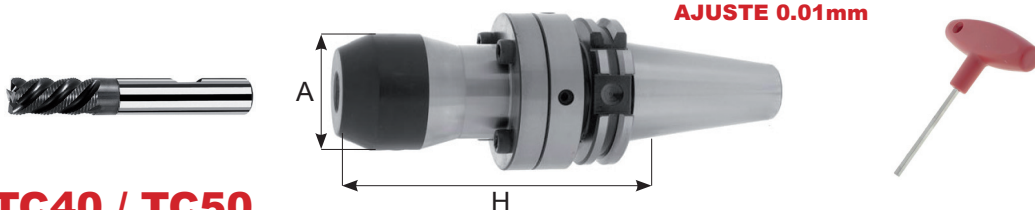
REFERENCIA	FAM	D	FORMA	H	A
TCB50.H63.WE6C	1	6	AD+B	63	25
TCB50.H63.WE8C		8		63	28
TCB50.H63.WE10C		10		63	35
TCB50.H63.WE12C		12		63	42
TCB50.H63.WE14C		14		63	44
TCB50.H63.WE16C		16		63	48
TCB50.H63.WE18C		18		63	50
TCB50.H63.WE20C		20		63	52
TCB50.H80.WE25C		25		80	65
TCB50.H100.WE32C		32		100	72
TCB50.H100.WE40C		40		100	80



DIN/69871

Porta fresas weldon Regulación Radial
Radial adjustable en mill holders

AJUSTE 0.01mm



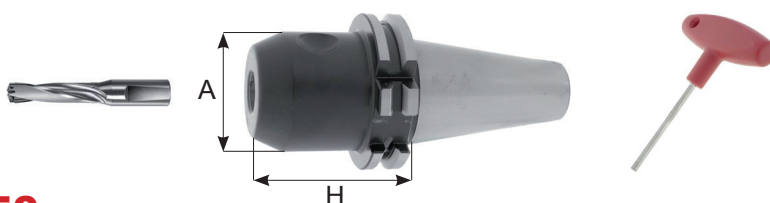
TC40 / TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H100.WE6RG	1	6	AD+B	100	25
TCB40.H100.WE8RG		8		100	28
TCB40.H100.WE10RG		10		100	35
TCB40.H110.WE12RG		12		110	40
TCB40.H110.WE14RG		14		110	40
TCB40.H130.WE16RG		16		130	48
TCB40.H130.WE18RG		18		130	48
TCB40.H135.WE20RG		20		135	52
TCB50.H110.WE12RG	1	12	AD+B	110	40
TCB50.H110.WE14RG		14		110	40
TCB50.H130.WE16RG		16		130	48
TCB50.H130.WE18RG		18		130	48
TCB50.H135.WE20RG		20		135	52



DIN/69871

Porta fresas weldon Whistle-Notch
Whistle-Notch end mill holders

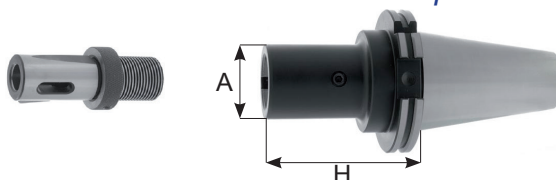


TC40 / TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H50.WHN6	1	6	AD+B	50	25
TCB40.H50.WHN8		8		50	28
TCB40.H50.WHN10		10		50	35
TCB40.H50.WHN12		12		50	42
TCB40.H50.WHN14		14		50	44
TCB40.H63.WHN16		16		63	48
TCB40.H63.WHN18		18		63	50
TCB40.H63.WHN20		20		63	52
TCB40.H100.WHN25		25		100	65
TCB40.H100.WHN32		32		100	72
TC50.H63.WHN6	1	6	AD	63	25
TC50.H63.WHN8		8		63	28
TC50.H63.WHN10		10		63	35
TC50.H63.WHN12		12		63	42
TC50.H63.WHN14		14		63	44
TC50.H63.WHN16		16		63	48
TC50.H63.WHN18		18		63	50
TC50.H63.WHN20		20		63	52
TC50.H80.WHN25		25		80	65
TC50.H100.WHN32		32		100	72
TC50.H112.WHN40		40		112	80

DIN/69871

Porta herramientas para mango Roscado DIN/6327
Automotive shank adapters DIN/6327

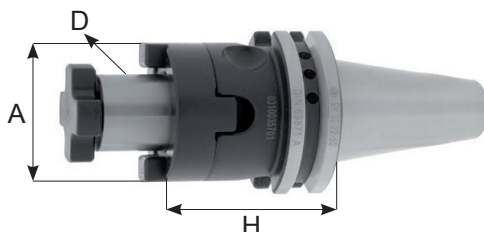


TC40 / TC50

REFERENCIA		TR	H	A
TC40.H70.TR20	2	20	70	32
TC40.H70.TR28		28	70	40
TC40.H120.TR36		36	120	50
TC50.H100.TR20	1	20	100	40
TC50.H100.TR36		36	100	50
TC50.H105.TR48		48	105	67

DIN/69871

Porta Fresas Combinado
Combi shell end mill holders



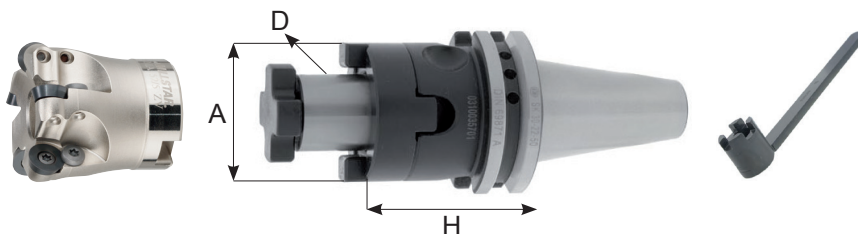
TC30 TC40

REFERENCIA	FAM	D	FORMA	H	A
TC30.H50.D13C	1	13	AD	50	28
TC30.H50.D16C		16		50	32
TC30.H50.D22C		22		50	40
TC30.H55.D27C		27		55	48
TC30.H60.D32C		32		60	58
TC40.H100.D13C	1	13	AD	100	28
TC40.H55.D16C	1	16	AD	55	32
TC40.H100.D16C				100	
TC40.H130.D16C				130	
TC40.H160.D16C				160	
TC40.H200.D16C				200	
TC40.H55.D22C	1	22	AD	55	40
TC40.H100.D22C				100	
TC40.H130.D22C				130	
TC40.H160.D22C				160	
TC40.H200.D22C				200	
TC40.H55.D27C	1	27	AD	55	48
TC40.H100.D27C				100	
TC40.H130.D27C				130	
TC40.H160.D27C				160	
TC40.H200.D27C				200	
TC40.H60.D32C	1	32	AD	60	58
TC40.H100.D32C				100	
TC40.H130.D32C				130	
TC40.H160.D32C				160	
TC40.H200.D32C				200	
TC40.H60.D40C	1	40	AD	60	70
TC40.H100.D40C				100	
TC40.H130.D40C				130	
TC40.H160.D40C				160	
TC40.H200.D40C				200	



DIN/69871

Porta Fresas Combinado
Combi shell end mill holders



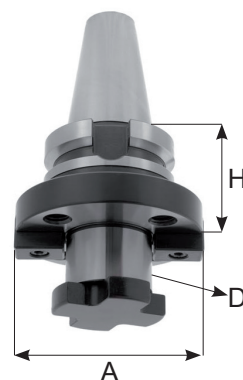
TC50

REFERENCIA	FAM	D	FORMA	H	A
TC50.H55.D16C	1	16	AD	55	32
TC50.H100.D16C				100	
TC50.H130.D16C				130	
TC50.H160.D16C				160	
TC50.H55.D22C	1	22	AD	55	40
TC50.H100.D22C				100	
TC50.H130.D22C				130	
TC50.H160.D22C				160	
TC50.H55.D27C	1	27	AD	55	48
TC50.H100.D27C				100	
TC50.H130.D27C				130	
TC50.H160.D27C				160	
TC50.H55.D32C	1	32	AD	55	58
TC50.H100.D32C				100	
TC50.H130.D32C				130	
TC50.H160.D32C				160	
TC50.H55.D40C	1	40	AD	55	70
TC50.H100.D40C				100	
TC50.H130.D40C				130	
TC50.H160.D40C				160	
TC50.H70.D50C	1	50	AD	70	90

Porta Fresas Fijo Gran diámetro
Face mill holders

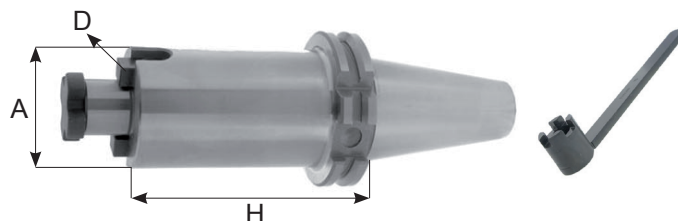
TC40 / TC50

REFERENCIA	FAM	D	FORMA	H	A
TC40.H50.D40FM	1	40	AD	50	88
TC50.H70.D40FM		40	AD	70	88
TC50.H70.D60FM		60	AD	70	129
TCB40.H50.D40FM	1	40	AD+B	50	88
TCB40.H100.D40FM		40	AD+B	100	88
TCB50.H50.D40FM		40	AD+B	50	88
TCB50.H70.D60FM		60	AD+B	70	129



DIN/69871

Porta Fresas Fijo con canal de lubricación
Shell end mill holders with coolant channels



TC40

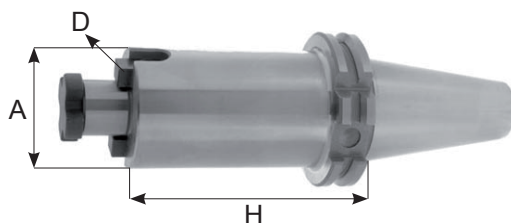
REFERENCIA	FAM	D	FORMA	H
TCB40.H35.D16SP	1	16	AD+B	35
TCB40.H50.D16S				50
TCB40.H100.D16S				100
TCB40.H130.D16S				130
TCB40.H160.D16S				160
TCB40.H200.D16S				200
TCB40.H35.D22SP	1	22	AD+B	35
TCB40.H45.D22S				45
TCB40.H100.D22S				100
TCB40.H130.D22S				130
TCB40.H160.D22S				160
TCB40.H200.D22S				200
TCB40.H35.D27SP	1	27	AD+B	35
TCB40.H50.D27S				50
TCB40.H100.D27S				100
TCB40.H130.D27S				130
TCB40.H160.D27S				160
TCB40.H200.D27S				200
TCB40.H50.D32SP	1	32	AD+B	50
TCB40.H55.D32S				55
TCB40.H100.D32S				100
TCB40.H130.D32S				130
TCB40.H160.D32S				160
TCB40.H200.D32S				200
TCB40.H50.D40SPFM *	1	40	AD+B	50
TCB40.H60.D40S				60
TCB40.H100.D40S				100
TCB40.H130.D40S				130
TCB40.H160.D40S				160
TCB40.H200.D40S				200

* Con cuatro taladros adicionales según norma DIN/2079



DIN/69871

Porta Fresas Fijo con canal de lubricación
Shell end mill holders with coolant channels



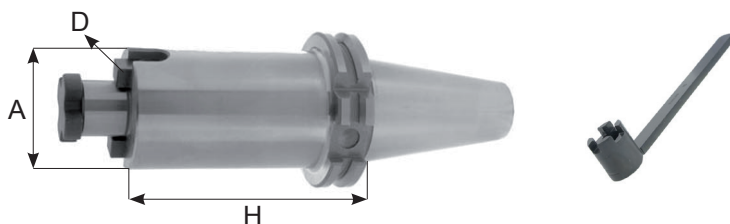
TCB50

REFERENCIA	FAM	D	FORMA	H
TCB50.H35.D16SP	1	16	AD+B	35
TCB50.H45.D16S				45
TCB50.H100.D16S				100
TCB50.H130.D16S				130
TCB50.H160.D16S				160
TCB50.H200.D16S				200
TCB50.H250.D16S				250
TCB50.H300.D16S				300
TCB50.H350.D16S				350
TCB50.H35.D22SP	1	22	AD+B	35
TCB50.H45.D22S				45
TCB50.H100.D22S				100
TCB50.H130.D22S				130
TCB50.H160.D22S				160
TCB50.H200.D22S				200
TCB50.H250.D22S				250
TCB50.H300.D22S				300
TCB50.H350.D22S				350
TCB50.H35.D27SP	1	27	AD+B	35
TCB50.H45.D27S				45
TCB50.H100.D27S				100
TCB50.H130.D27S				130
TCB50.H160.D27S				160
TCB50.H200.D27S				200
TCB50.H250.D27S				250
TCB50.H300.D27S				300
TCB50.H350.D27S				350
TCB50.H35.D32SP	1	32	AD+B	35
TCB50.H50.D32S				50
TCB50.H100.D32S				100
TCB50.H130.D32S				130
TCB50.H160.D32S				160
TCB50.H200.D32S				200
TCB50.H250.D32S				250
TCB50.H300.D32S				300
TCB50.H350.D32S				350

DIN/69871



Porta Fresas Fijo con canal de lubricación
Shell end mill holders with coolant channels



TC50

REFERENCIA	FAM	D	FORMA	H
TCB50.H35.D40SP	1	40	AD+B	35
TCB50.H50.D40SFM *				50
TCB50.H100.D40S				100
TCB50.H130.D40S				130
TCB50.H160.D40S				160
TCB50.H200.D40S				200

* Con cuatro taladros adicionales según norma DIN/2079



DIN/69871

Porta fresas Fijo Antivibratorio conicidad DIN/138
Antivibratory shell mill adaptors DIN/138



TC40

ANTIVIBRATORIO

REFERENCIA	FAM	D	FORMA	H	A	B
TC40.H150.D16AV	13	16	AD	150	38	50
TC40.H200.D16AV				200		
TC40.H250.D16AV				250		
TC40.H300.D16AV				300		
TC40.H150.D22AV	13	22	AD	150	44	50
TC40.H200.D22AV				200		
TC40.H250.D22AV				250		
TC40.H300.D22AV				300		

TC50

REFERENCIA	FAM	D	FORMA	H	A	B
TC50.H150.D16AV	13	16	AD	150	38	80
TC50.H200.D16AV				200		
TC50.H250.D16AV				250		
TC50.H300.D16AV				300		
TC50.H400.D16AV				400		
TC50.H200.D22AV	13	22	AD	200	48	80
TC50.H250.D22AV				250		
TC50.H300.D22AV				300		
TC50.H400.D22AV				400		
TC50.H500.D22AV				500		
TC50.H200.D27AV	13	27	AD	200	60	80
TC50.H250.D27AV				250		
TC50.H300.D27AV				300		
TC50.H400.D27AV				400		
TC50.H500.D27AV				500		

Especial para moldistas y troquelistas, reduce las vibraciones en un 60% comparandolo con un porta standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

DIN/69871

Porta fresas Fijo Antivibratorio DIN/138
Antivibratory shell mill adaptors DIN/138



TC40

ANTIVIBRATORIO

REFERENCIA	FAM	D	H	A
TC40.H150.D16AV-38	13	16	150	38
TC40.H200.D16AV-38			200	
TC40.H250.D16AV-38			250	
TC40.H300.D16AV-38			300	
TC40.H150.D22AV-48	13	22	150	48
TC40.H200.D22AV-48			200	
TC40.H250.D22AV-48			250	
TC40.H300.D22AV-48			300	
TC40.H150.D27AV-54	13	27	150	54
TC40.H200.D27AV-54			200	
TC40.H250.D27AV-54			250	
TC40.H300.D27AV-54			300	

TC50

REFERENCIA	FAM	D	H	A
TC50.H150.D16AV-38	13	16	150	38
TC50.H200.D16AV-38			200	
TC50.H250.D16AV-38			250	
TC50.H300.D16AV-38			300	
TC50.H400.D16AV-38			400	
TC50.H200.D22AV-48	13	22	200	48
TC50.H250.D22AV-48			250	
TC50.H300.D22AV-48			300	
TC50.H400.D22AV-48			400	
TC50.H500.D22AV-48			500	
TC50.H200.D22AV-60	13	22	200	60
TC50.H250.D22AV-60			250	
TC50.H300.D22AV-60			300	
TC50.H400.D22AV-60			400	
TC50.H500.D22AV-60			500	

Especial para moldistas y troquelistas, reduce las vibraciones en un 60% comparandolo con un porta standard.

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DIN/69871

Porta fresas Fijo Antivibratorio DIN/138
Antivibratory shell mill adaptors DIN/138



TC50

ANTIVIBRATORIO

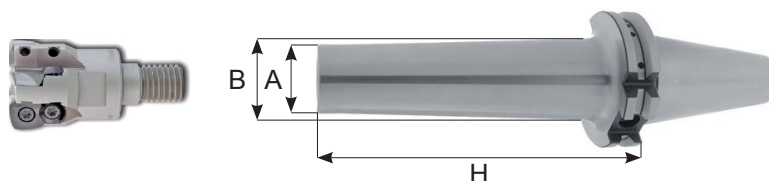
REFERENCIA	FAM	D	H	A
TC50.H200.D27AV-60	13	27	200	60
TC50.H250.D27AV-60			250	
TC50.H300.D27AV-60			300	
TC50.H400.D27AV-60			400	
TC50.H500.D27AV-60			500	
TC50.H200.D32AV-76	13	32	200	76
TC50.H250.D32AV-76			250	
TC50.H300.D32AV-76			300	
TC50.H400.D32AV-76			400	
TC50.H500.D32AV-76			500	

Especial para moldistas y troquelistas, reduce las vibraciones en un 60% comparandolo con un porta standard.
Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.



DIN/69871

Porta herramientas para fresa rosca
Tool holder for screwed milling cutters



TC40

REFERENCIA	FAM	M	FORMA	H	A	B	* Nm
TCB40.H55.M8CPY	1	M8	AD+B	55	13	15	25
TCB40.H75.M8CPY				75		23	
TCB40.H95.M8CPY				95		23	
TCB40.H110.M8CPY				110		25	
TCB40.H55.M10CPY	1	M10	AD+B	55	18	20	40
TCB40.H75.M10CPY				75		25	
TCB40.H95.M10CPY				95		28	
TCB40.H115.M10CPY				115		28	
TCB40.H145.M10CPY				145		34	
TCB40.H55.M12CPY	1	M12	AD+B	55	21	24	60
TCB40.H75.M12CPY				75		24	
TCB40.H95.M12CPY				95		31	
TCB40.H115.M12CPY				115		31	
TCB40.H145.M12CPY				145		38	
TCB40.H175.M12CPY				175		42	
TCB40.H55.M16CPY	1	M16	AD+B	55	29	34	80
TCB40.H75.M16CPY				75		34	
TCB40.H95.M16CPY				95		34	
TCB40.H115.M16CPY				115		39	
TCB40.H145.M16CPY				145		39	
TCB40.H175.M16CPY				175		39	

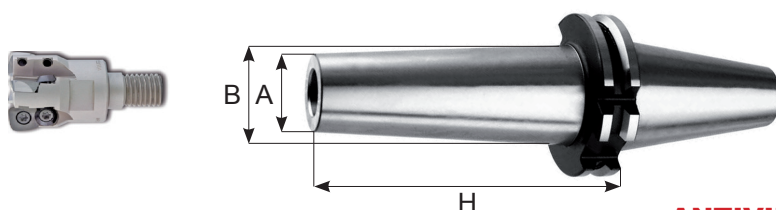
TC50

REFERENCIA	FAM	M	FORMA	H	A	B	* Nm
TCB50.H85.M10CPY	1	M10	AD+B	85	18	28	40
TCB50.H135.M10CPY				135		28	
TCB50.H185.M10CPY				185		32	
TCB50.H85.M12CPY	1	M12	AD+B	85	21	32	60
TCB50.H135.M12CPY				135		32	
TCB50.H185.M12CPY				185		40	
TCB50.H85.M16CPY	1	M16	AD+B	85	29	34	80
TCB50.H135.M16CPY				135		36	
TCB50.H185.M16CPY				185		42.5	

* Nm = Fuerza de Apriete Aconsejada / Recommended Tightening Torque

DIN/69871

Porta herramientas para fresa roscada Antivibratorio
Antivibratory for frontal end mills support screwed shanks



TC40

ANTIVIBRATORIO

REFERENCIA	FAM	M	FORMA	H	A	B
TC40.H200.M10AV	13	M10	AD	200	18	35
TC40.H250.M10AV				250		40
TC40.H300.M10AV				300		45
TC40.H200.M12AV	13	M12	AD	200	21	38
TC40.H250.M12AV				250		43
TC40.H300.M12AV				300		44
TC40.H200.M16AV	13	M16	AD	200	29	43
TC40.H250.M16AV				250		44
TC40.H300.M16AV				300		47

TC50

REFERENCIA	FAM	M	FORMA	H	A	B
TC50.H250.M12AV	13	M12	AD	250	21	42
TC50.H300.M12AV				300		47
TC50.H400.M12AV				400		57
TC50.H250.M16AV	13	M16	AD	250	29	50
TC50.H300.M16AV				300		55
TC50.H400.M16AV				400		65
TC50.H500.M16AV				500		76

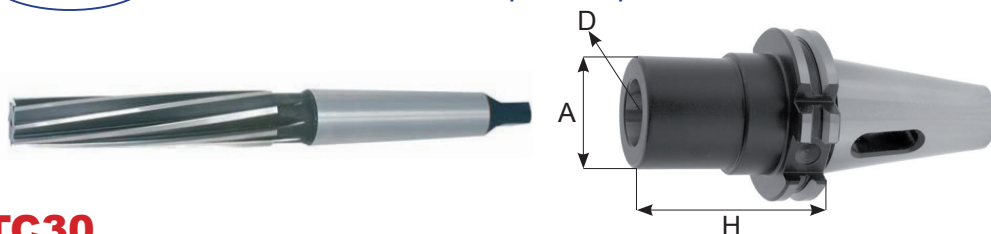
Especial para moldistas y troquelistas, reduce las vibraciones en un 60% comparandolo con un porta standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.



DIN/69871

Reductor Cono morse DIN/228-B
Morse taper adapters DIN/228-B



TC30

REFERENCIA	FAM	D	FORMA	H	A
TC30.H50.CM1P	1	CM1	AD	50	25
TC30.H60.CM2P		CM2		60	32
TC30.H80.CM3P		CM3		80	40

TC40

REFERENCIA	FAM	D	FORMA	H	A
TC40.H50.CM1P	1	CM1	AD	50	25
TC40.H50.CM2P		CM2		50	32
TC40.H70.CM3P		CM3		70	40
TC40.H95.CM4P		CM4		95	48

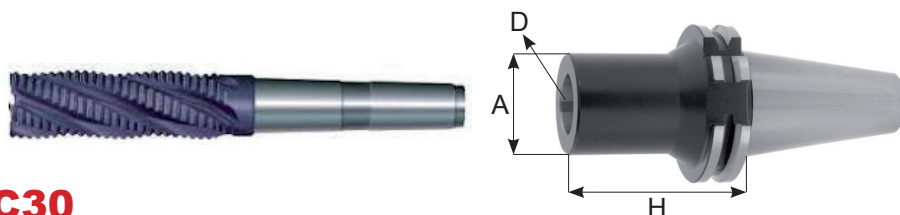
TC50

REFERENCIA	FAM	D	FORMA	H	A
TC50.H45.CM1P	1	CM1	AD	45	25
TC50.H120.CM1P		CM1		120	25
TC50.H60.CM2P		CM2		60	32
TC50.H135.CM2P		CM2		135	32
TC50.H65.CM3P		CM3		65	40
TC50.H155.CM3P		CM3		155	40
TC50.H95.CM4P		CM4		95	48
TC50.H180.CM4P		CM4		180	48
TC50.H105.CM5P		CM5		105	63
TC50.H215.CM5P		CM5		215	63

TC40 / TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H50.CM2P	1	CM2	AD+B	50	32
TCB40.H70.CM3P		CM3		70	40
TCB40.H95.CM4P		CM4		95	48
TCB50.H60.CM2P	1	CM2	AD+B	60	32
TCB50.H65.CM3P		CM3		65	40
TCB50.H95.CM4P		CM4		95	48
TCB50.H105.CM5P		CM5		105	63

Reductor Cono morse DIN/228-A con tornillo tirante
Reducing adaptors morse taper shank and drawbar thread DIN/228-A



TC30

REFERENCIA	FAM	D	FORMA	H	A
TC30.H50.CM1FV	2	CM1	AD	50	25
TC30.H60.CM2FV		CM2		60	32
TC30.H80.CM3FV		CM3		80	40

TC40

REFERENCIA	FAM	D	FORMA	H	A
TC40.H50.CM1F	2	CM1	AD	50	25
TC40.H50.CM2F	1	CM2		50	32
TC40.H70.CM3F		CM3		70	40
TC40.H95.CM4F		CM4		95	48

TC50

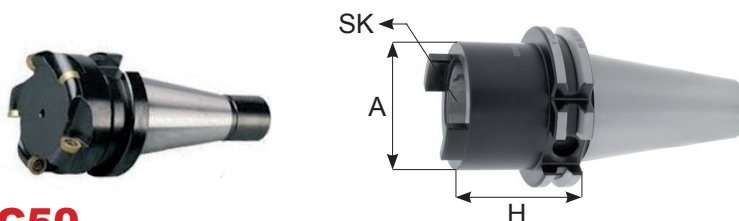
REFERENCIA	FAM	D	FORMA	H	A
TC50.H50.CM1FV	2	CM1	AD	50	25
TC50.H60.CM2FV	1	CM2		60	32
TC50.100.CM2FV		CM2		100	32
TC50.H170.CM2FV		CM2		170	32
TC50.H65.CM3FV		CM3		65	40
TC50.H100.CM3FV		CM3		100	40
TC50.H120.CM3FV		CM3		120	40
TC50.H95.CM4FV		CM4		95	48
TC50.H170.CM4FV		CM4		170	48
TC50.H219.CM4FV		CM4		219	48
TC50.H120.CM5FV		CM5		120	63

TC40 / TC50

REFERENCIA	FAM	D	FORMA	H	A
TCB40.H70.CM3FV	1	CM3	AD+B	70	40
TCB40.H95.CM4FV		CM4		95	48
TCB50.H65.CM3FV	1	CM3	AD+B	65	40
TCB50.H95.CM4FV		CM4		95	48
TCB50.H100.CM5FV		CM5		100	63

DIN/69871

Reductor TC a ISO DIN/2080 - DIN/69871
Reducing adaptors TC a ISO DIN/2080 - DIN/69871

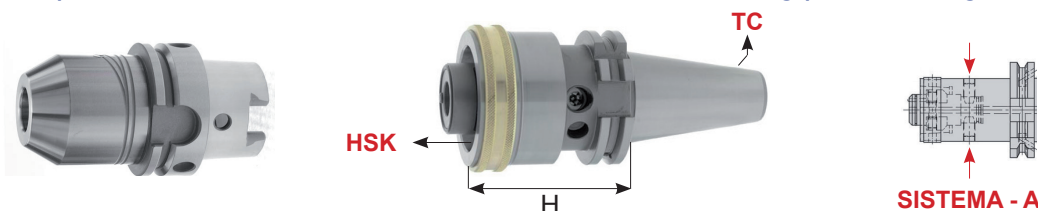


TC40 / TC50

REFERENCIA	FAM	ISO	FORMA	H	A
TC40.H50.SK30	1	SK30	AD	50	50
TC40.H100.SK40		SK40		100	68
TC50.H70.SK40	1	SK40	AD	70	68
TC50.H120.SK50		SK50		120	100

7

Cono reductor DIN/69871 a HSK - A/C con Pistón de tensar y junta
Adapters DIN/69871 shank to HSK - A/C with tensioning piston and gasket

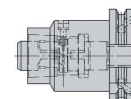
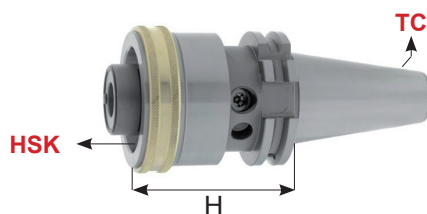


TC30 / TC40 / TC50

REFERENCIA	FAM	CONO	FORMA	REDUCTOR	H
TCB30A.H55.HSK32AC	4	TC30	AD+B	HSK32-A/C	55
TCB30A.H60.HSK40AC				HSK40-A/C	60
TCB40A.H55.HSK25AC	4	TC40	AD+B	HSK25-A/C	55
TCB40A.H55.HSK32AC	4			HSK32-A/C	55
TCB40A.H60.HSK40AC	1			HSK40-A/C	60
TCB40A.H65.HSK50AC	1			HSK50-A/C	65
TCB40A.H75.HSK63AC	1			HSK63-A/C	75
TCB40A.H105.HSK80AC	4			HSK80-A/C	105
TCB40A.H110.HSK100AC	4			HSK100-A/C	110
TCB50A.H55.HSK32AC	4	TC50	AD+B	HSK32-A/C	55
TCB50A.H60.HSK40AC	1			HSK40-A/C	60
TCB50A.H65.HSK50AC	1			HSK50-A/C	65
TCB50A.H75.HSK63AC	1			HSK63-A/C	75
TCB50A.H120.HSK63AC	4			HSK63-A/C	120
TCB50A.H150.HSK63AC	4			HSK63-A/C	150
TCB50A.H85.HSK80AC	1			HSK80-A/C	85
TCB50A.H100.HSK100AC	1			HSK100-A/C	100
TCB50A.H140.HSK125AC	4			HSK125-A/C	140
TCB50A.H160.HSK160AC	4			HSK160-A/C	160

DIN/69871

Cono reductor DIN/69871 a HSK - A/C/E/F con RACOR
Adapters DIN/69871 shank to HSK - A/C/E/F with cooling tube



SISTEMA - B

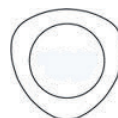
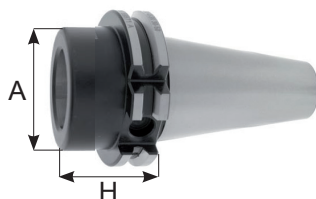
TC40 / TC50

REFERENCIA	FAM	CONO	FORMA	REDUCTOR	H
TCB40B.H45.HSK25	4	TC40	AD+B	HSK25-A/C/E/F	45
TCB40B.H55.HSK32				HSK32-A/C/E/F	55
TCB40B.H75.HSK40				HSK40-A/C/E/F	75
TCB40B.H95.HSK50				HSK50-A/C/E/F	95
TCB40B.H110.HSK63				HSK63-A/C/E/F	110
TCB40B.H150.HSK80				HSK80-A/C/E/F	150
TCB40B.H150.HSK100				HSK100-A/C/E/F	150
TCB50B.H75.HSK32	4	TC50	AD+B	HSK32-A/C/E/F	75
TCB50B.H75.HSK40				HSK40-A/C/E/F	75
TCB50B.H75.HSK50				HSK50-A/C/E/F	75
TCB50B.H75.HSK63				HSK63-A/C/E/F	75
TCB50B.H100.HSK80				HSK80-A/C/E/F	100
TCB50B.H150.HSK100				HSK100-A/C/E/F	150



DIN/69871

Cono Reductor de TC a PSC - ECA ISO 26623-1
Adapters from TC shank to PSC - ECA ISO 26623-1



PSC-ECA ISO 26623-1

TCB-C3

REFERENCIA	FAM	CONO	REDUCTOR	FORMA	H	A
TCB30.H30.C3	13	TC30	PSC-C3	AD+B	30	32
TCB30.H60.C3		TC30	PSC-C3		60	32
TCB40.H30.C3		TC40	PSC-C3		30	32
TCB40.H60.C3		TC40	PSC-C3		60	32
TCB50.H30.C3		TC50	PSC-C3		30	32
TCB50.H60.C3		TC50	PSC-C3		60	32

TCB-C4

REFERENCIA	FAM	CONO	REDUCTOR	FORMA	H	A
TCB40.H30.C4	13	TC40	PSC-C4	AD+B	30	40
TCB40.H60.C4		TC40	PSC-C4		60	40
TCB50.H30.C4		TC50	PSC-C4		30	40
TCB50.H60.C4		TC50	PSC-C4		60	40

TCB-C5

REFERENCIA	FAM	CONO	REDUCTOR	FORMA	H	A
TCB40.H30.C5	13	TC40	PSC-C5	AD+B	30	50
TCB40.H70.C5		TC40	PSC-C5		70	50
TCB50.H30.C5		TC50	PSC-C5		30	50
TCB50.H70.C5		TC50	PSC-C5		70	50

TCB-C6

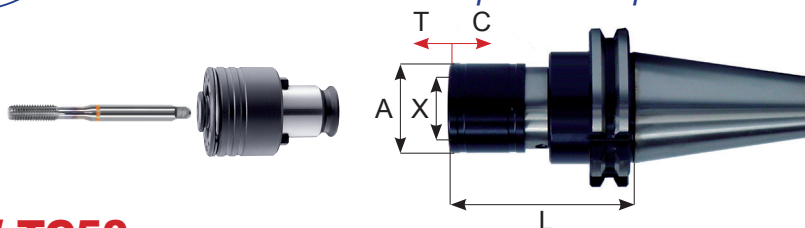
REFERENCIA	FAM	CONO	REDUCTOR	FORMA	H	A
TCB40.H85.C6	13	TC40	PSC-C6	AD+B	85	63
TCB50.H30.C6		TC50	PSC-C6		30	63
TCB50.H80.C6		TC50	PSC-C6		80	63

TCB-C8

REFERENCIA	FAM	CONO	REDUCTOR	FORMA	H	A
TCB50.H70.C8	13	TC50	PSC-C8	AD+B	70	80
TCB50.H120.C8		TC50	PSC-C8		120	80

DIN/69871

Roscador con compresión y tracción
Tension and compression tap holders-

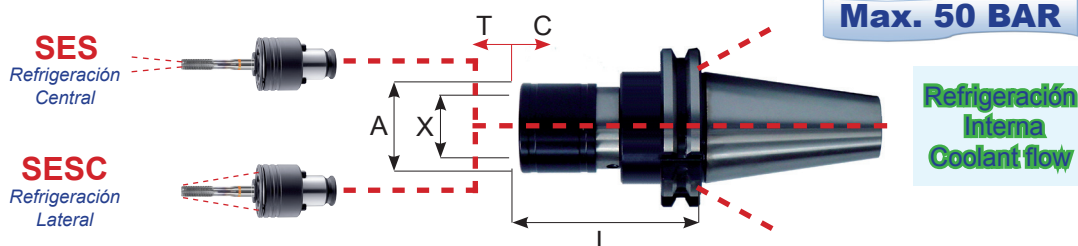


TC40 / TC50

REFERENCIA	CAP	X	A	L	C	T
TC40-THTC0-L94 TC50-THTC0-L104	M 1 ÷ M10	13	26	94 104	6.5	6.5
TC40-THTC1-L74 TC50-THTC1-L74	M 3 ÷ M12	19	36	59 74	7.5	7.5
TC40-THTC2-L98 TC50-THTC2-L98	M 8 ÷ M20	31	53	98 98	12.5	12.5
TC40-THTC3-L169 TC50-THTC3-L159	M14 ÷ M33	48	78	169 159	20	20
TC40-THTC4-L185 TC50-THTC4-L175	M22 ÷ M48	60	96	185 175	22.5	22.5

DIN/69871

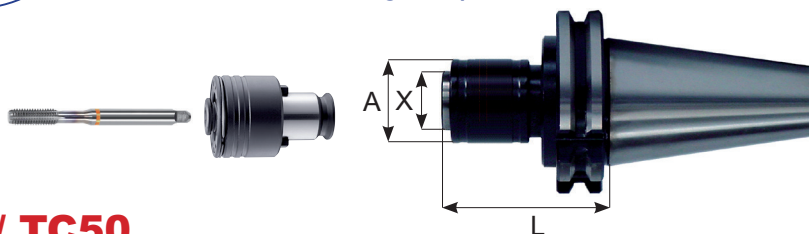
Roscador con compresión y tracción con paso refrigerante
Tension and compression tap holders with coolant thru



REFERENCIA	CAP	X	A	L	C	T
TC40-THTC1-L101C TC50-THTC1-L101C	M 3 ÷ M12	19	40	101 101	3	7
TC40-THTC2-L137C TC50-THTC2-L137C	M 8 ÷ M20	31	56	137 137	5	10
TC40-THTC3-L242C TC50-THTC3-L159C	M14 ÷ M33	48	75	242 202	13	18

DIN/69871

Roscador Rígido
Rigid tap holders



TC40 / TC50

REFERENCIA	CAP	X	A	L
TC40-TLR1-L72	M 3 ÷ M12	19	32	72
TC50-TLR1-L72				72
TC40-TLR2-L91	M 8 ÷ M20	31	50	91
TC50-TLR2-L91				91
TC40-TLR3-L128	M14 ÷ M33	48	72	128
TC50-TLR3-L118				118
TC50-TLR4-L141	M22 ÷ M48	60	95	141

DIN/69871

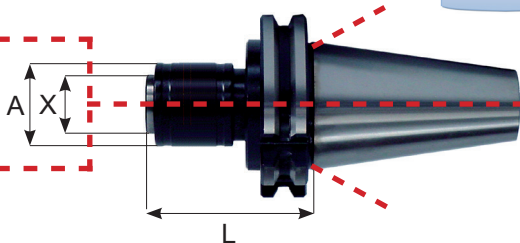
Roscador Rígido con paso refrigerante
Rigid tap holders with through coolant

SES
Refrigeración
Central

SESC
Refrigeración
Lateral

Max. 50 BAR

Refrigeración
Interna
Coolant flow

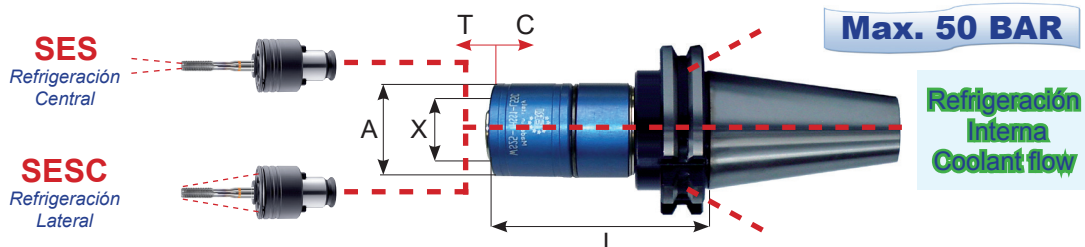


TC40 / TC50

REFERENCIA	CAP	X	A	L
TC40-TLR1-L73C	M 3 ÷ M12	19	32	73
TC50-TLR1-L73C				73
TC40-TLR2-L89C	M 8 ÷ M20	31	50	89
TC50-TLR2-L89C				89
TC40-TLR3-L128C	M14 ÷ M33	48	72	128
TC50-TLR3-L118C				118

DIN/69871

Roscador Synchro / compresión y tracción paso refrigerante
Synchro - Tension / Compression Tap Holders coolant thru



TC40

REFERENCIA	CAP	X	A	L	C	T
TC40-THSS1-L90C	M3 ÷ M12	19	36	90	0.5	0.5

DIN/69871

Roscador con compresión y tracción DIN/69871 - 360°
Tension and compression tap holders DIN/69871 - 360°

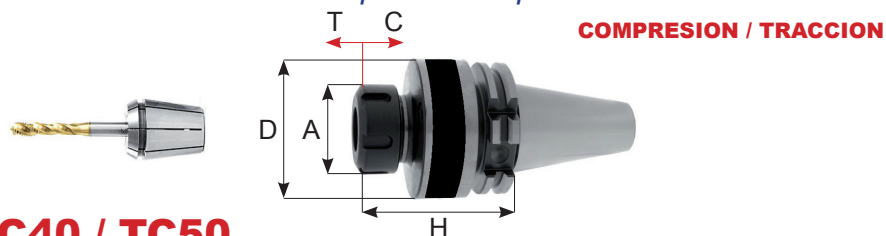


TC30 / TC40 / TC50

REFERENCIA	CAP	X	A	L	C	T
TC30-GCTC1-L65	M 3 ÷ M12	19	39	65	7.5	7.5
TC40-GCTC1-L80				80		
TC50-GCTC1-L80				80		
TC30-GCT1-L57.5				57.5	0	12.5
TC40-GCT1-L72.5				72.5		
TC50-GCT1-L72.5				72.5		
TC30-GCTC2-L103	M 8 ÷ M20	31	60	103	10	10
TC40-GCTC2-L103				103		
TC50-GCTC2-L103				103		
TC30-GCT2-L93				93	0	16.5
TC40-GCT2-L93				93		
TC50-GCT2-L93				93		
TC40-GCTC3-L134	M14 ÷ M33	48	86	134	17.5	17.5
TC50-GCTC3-L134				134		
TC40-GCT3-L116.5				116.5	0	35
TC50-GCT3-L116.5				116.5		

DIN/69871

Roscador con Compresión y Tracción pinza ER
Tension and compression tap holders collet ER



COMPRESION / TRACCION

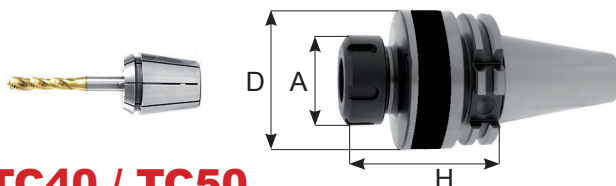
TC30 / TC40 / TC50

REFERENCIA	PINZA	H	A	D	C	T
TC30.H68.ER16T	ER16	68	32	29	2.5	5.5
TC30.H79.ER20T	ER20	79	35	44	3	9
TC30.H93.ER25T	ER25	93	42	44	3	9
TC40.H73.ER16T	ER16	73	32	29	2.5	5.5
TC40.H84.ER20T	ER20	84	35	44	3	9
TC40.H93.ER25T	ER25	93	42	58	3	9
TC40.H95.ER32T	ER32	95	50	58	4	12
TC50.H83.ER16T	ER16	83	32	29	2.5	5.5
TC50.H94.ER20T	ER20	94	35	44	3	9
TC50.H103.ER25T	ER25	103	42	44	3	9
TC50.H105.ER32T	ER32	105	50	48	4	12

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DIN/69871

Roscador solo Tracción pinza ER
Tension and compression tap holders collet ER



SOLO TRACCION

TC30 / TC40 / TC50

REFERENCIA	PINZA	H	A	D	T
TC30.H68.ER16T	ER16	68	32	29	8
TC30.H76.ER20T	ER20	76	35	44	12
TC30.H90.ER25T	ER25	90	42	44	12
TC40.H73.ER16T	ER16	73	32	29	8
TC40.H81.ER20T	ER20	81	35	44	12
TC40.H89.ER25T	ER25	89	42	58	16
TC40.H91.ER32T	ER32	91	50	58	16
TC50.H83.ER16T	ER16	83	32	29	8
TC50.H91.ER20T	ER20	91	35	44	12
TC50.H99.ER25T	ER25	99	42	58	16
TC50.H101.ER32T	ER32	101	50	48	16

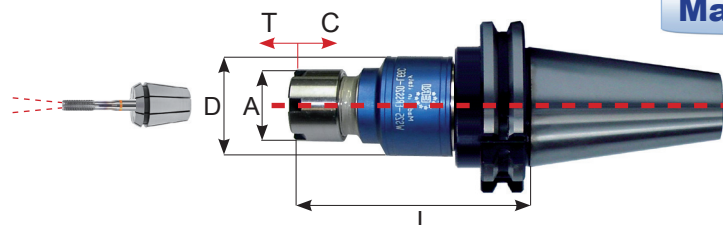
DIN/69871

Roscador Synchro - Compresión y Tracción pinza ER
Synchro - Tension / Compression Tap Hoders collet ER

Max. 50 BAR

ERXGM

Refrigeración
Central



Refrigeración
Interna
Coolant flow

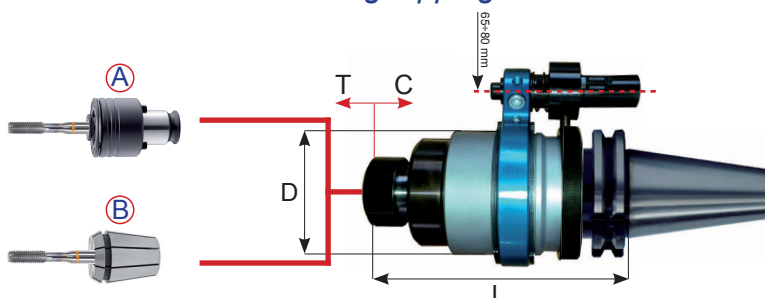
TC40

REFERENCIA	CAP	PINZA	A	D	L	C	T
TC40-ERSS20-L101C	4 ÷ 10	ER20	34	38	101	0.5	0.5

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DIN/69871

Roscador Reversible CNC
Reversing tapping attachment CNC



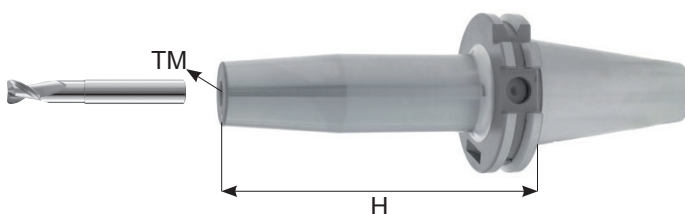
- Roscador autoreversible con mecanismo de engranajes para ciclos rápidos de roscado.
- Bajo desgaste de motor y ahorro de energía gracias al consumo uniforme.
- Compensación longitudinal a la compresión y a la tracción para evitar posibles diferencias de paso.
- Profundidades de rosca controladas.
- Pinza tipo ERXM de alta concentricidad o pinza tipo SES
- Para utilización de máquinas CNC utilizando el ciclo de mandrinado G85 (sin tiempo de reposo)
- Bloqueador de giro ajustable (65mm - 80mm)
- Protegido herméticamente a las impurezas.

TC40 / TC50

REFERENCIA		FAM	CONO	TIPO	CAP	D	L	C	T	Kg	RPM
TC40-NC1-L120	A	22	TC40	SES-1	M 3 ÷ M12	67	155	3.5	4	2.87	2500
TC40-NC2-L125	A			SES-2	M 8 ÷ M20	75	160			3.87	2000
TC50-NC1-L120	A	22	TC50	SES-1	M 3 ÷ M12	67	155	3.5	4	2.87	2500
TC50-NC2-L125	A			SES-2	M 8 ÷ M20	75	160			3.87	2000
TC40-ER20-L120	B	22	TC40	ER20	1 ÷ 14	67	155	3.5	4	2.87	2500
TC40-ER25-L125	B			ER25	1 ÷ 20	75	160			3.87	2000
TC40-ER32-L153	B			ER32	2 ÷ 22	90	198			6.08	1000
TC50-ER20-L120	B	22	TC50	ER20	1 ÷ 14	67	155	3.5	4	2.87	2500
TC50-ER25-L125	B			ER25	1 ÷ 20	75	160			3.87	2000
TC50-ER32-L153	B			ER32	2 ÷ 22	90	198			6.08	1000

DIN/69871

Porta herramientas Inducción Térmica
Shrink Fit holders



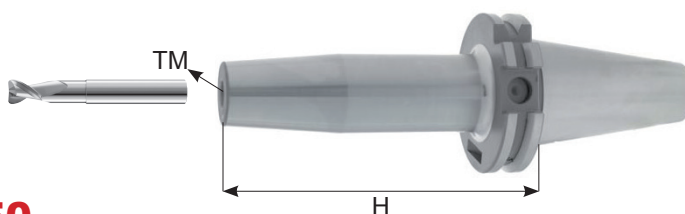
TC30

REFERENCIA	FAM	TM	FORMA	H
TC30.H80.TM3	3	TM3	AD	80
TC30.H120.TM3		TM3	AD	120
TC30.H80.TM4		TM4	AD	80
TC30.H120.TM4		TM4	AD	120
TC30.H80.TM5		TM5	AD	80
TC30.H120.TM5		TM5	AD	120
TC30.H80.TM6		TM6	AD	80
TC30.H71.TM6		TM6	AD	71
TC30.H120.TM6		TM6	AD	120
TC30.H80.TM8		TM8	AD	80
TC30.H71.TM8		TM8	AD	71
TC30.H120.TM8		TM8	AD	120
TC30.H80.TM10		TM10	AD	80
TC30.H71.TM10		TM10	AD	71
TC30.H120.TM10		TM10	AD	120
TC30.H80.TM12		TM12	AD	80
TC30.H71.TM12		TM12	AD	71
TC30.H120.TM12		TM12	AD	120
TC30.H80.TM14		TM14	AD	80
TC30.H80.TM16		TM16	AD	80
TC30.H71.TM16		TM16	AD	71
TC30.H120.TM16		TM16	AD	120
TC30.H80.TM18		TM18	AD	80
TC30.H80.TM20		TM20	AD	80



DIN/69871

Porta herramientas Inducción Térmica
Shrink Fit holders



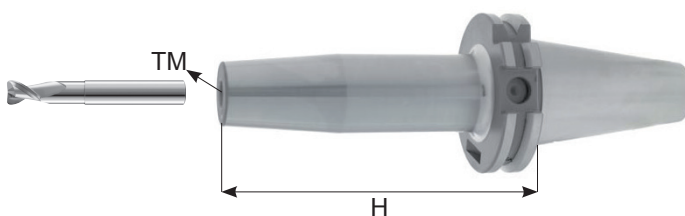
TC40 / TC50

REFERENCIA	FAM	TM	FORMA	H
TCB40.H80.TM3	1	TM3	AD+B	80
TCB40.H80.TM4		TM4	AD+B	80
TCB40.H80.TM5		TM5	AD+B	80
TCB40.H80.TM6		TM6	AD+B	80
TCB40.H120.TM6		TM6	AD+B	120
TCB40.H160.TM6		TM6	AD+B	160
TCB40.H80.TM8		TM8	AD+B	80
TCB40.H120.TM8		TM8	AD+B	120
TCB40.H160.TM8		TM8	AD+B	160
TCB40.H80.TM10		TM10	AD+B	80
TCB40.H120.TM10		TM10	AD+B	120
TCB40.H160.TM10		TM10	AD+B	160
TCB40.H80.TM12		TM12	AD+B	80
TCB40.H120.TM12		TM12	AD+B	120
TCB40.H160.TM12		TM12	AD+B	160
TCB40.H80.TM14		TM14	AD+B	80
TCB40.H80.TM16		TM16	AD+B	80
TCB40.H120.TM16		TM16	AD+B	120
TCB40.H160.TM16		TM16	AD+B	160
TCB40.H80.TM18		TM18	AD+B	80
TCB40.H80.TM20		TM20	AD+B	80
TCB40.H120.TM20		TM20	AD+B	120
TCB40.H160.TM20		TM20	AD+B	160
TCB40.H100.TM25		TM25	AD+B	100
TC50.H80.TM6	3	TM6	AD	80
TC50.H120.TM6		TM6	AD	120
TC50.H160.TM6		TM6	AD	160
TC50.H80.TM8		TM8	AD	80
TC50.H120.TM8		TM8	AD	120
TC50.H160.TM8		TM8	AD	160
TC50.H80.TM10		TM10	AD	80
TC50.H120.TM10		TM10	AD	120
TC50.H160.TM10		TM10	AD	160
TC50.H80.TM12		TM12	AD	80
TC50.H120.TM12		TM12	AD	120
TC50.H160.TM12		TM12	AD	160



DIN/69871

Porta herramientas Inducción Térmica
Shrink Fit holders



TC50

REFERENCIA	FAM	TM	FORMA	H
TC50.H80.TM14	3	TM14	AD	80
TC50.H120.TM14		TM14	AD	120
TC50.H160.TM14		TM14	AD	160
TC50.H80.TM16		TM16	AD	80
TC50.H120.TM16		TM16	AD	120
TC50.H160.TM16		TM16	AD	160
TC50.H80.TM18		TM18	AD	90
TC50.H120.TM18		TM18	AD	120
TC50.H160.TM18		TM18	AD	160
TC50.H80.TM20		TM20	AD	90
TC50.H120.TM20		TM20	AD	120
TC50.H160.TM20		TM20	AD	160
TC50.H90.TM25		TM25	AD	90
TC50.H160.TM25		TM25	AD	160
TC50.H90.TM32		TM32	AD	90
TC50.H160.TM32		TM32	AD	160

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DIN/69871

Barra de Desbaste DIN/69871
Machinable blank Arbors DIN/69871

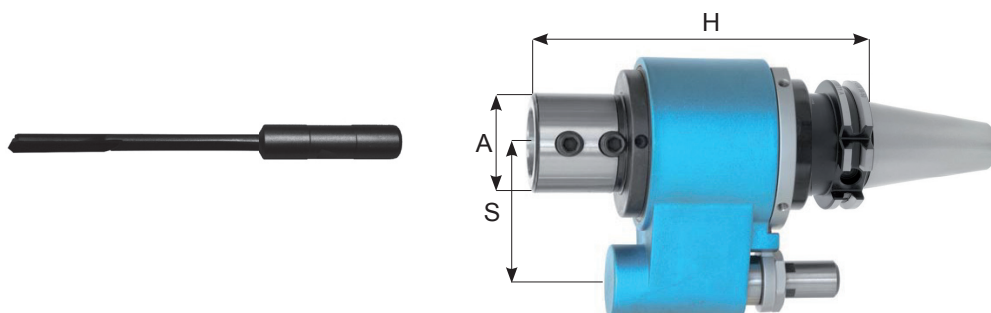


TC30 / TC40 / TC50

REFERENCIA	FAM	D	FORMA	H
TC30.H160.D40.5BL	4	40.5	AD	160
TC40.H250.D40BL	1	40	AD	250
TC40.H250.D63BL	1	63	AD	250
TC50.H315.D63BL	1	63	AD	315
TC50.H315.D97BL	1	97	AD	315

DIN/69871

Distribuidor rotante de refrigeración
Rotary coolant feeder

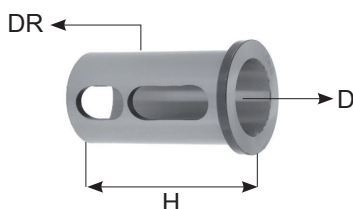


TC40 / TC50

REFERENCIA	FAM	S	FORMA	H	A
TC40-DR32	1	65	AD	165	49.5
TC50-DR40	1	80	AD	170	56

CARACTERISTICAS	S
Giro Máximo / Max rpm	3.500
Presión del refrigerante Coolant Pressure	Max 20 bar Min 2 bar

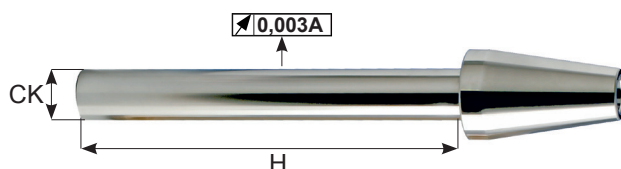
Pinza para Distribuidor rotante de refrigeración
Collet for Rotary coolant feeder



REFERENCIA	FAM	D	DR	H
E2-1.32-16	1	16	32	70
E2-1.32-20		20	32	70
E2-1.32-25		25	32	70
E2-1.40-16	1	16	40	80
E2-1.40-20		20	40	80
E2-1.40-25		25	40	80
E2-1.40-32		32	40	80

DIN/69871

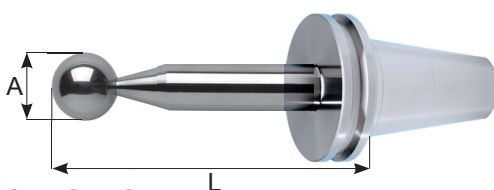
Barra de control con certificado DIN/69871
Test arbor with accuracy certificate DIN/69871



TC30 / TC40 / TC50

REFERENCIA	FAM	CK	FORMA	H
TC30.H200.CK32	1	32	AD	200
TC40.H300.CK40	1	40	AD	300
TC50.H320.CK40	3	40	AD	320
TC50.H300.CK50	1	50	AD	300

Mandrino de control para cono ISO 7/24 (5 Ejes)
Runout test arbors for 7/24 taper spindles (5 Axis)



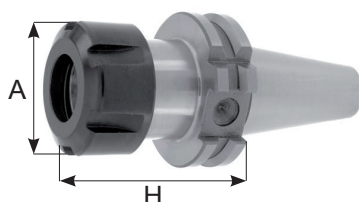
TC30 / TC40 / TC50

REFERENCIA	FAM	MODELO	NORMA	A	L
TC30.H200.B30	3	TC30	-	30	200
TC40.H150.B30		TC40	-	30	150
TC50.H150.B30		TC50	-	30	150



DIN/69871

Porta pinzas ER tuerca STANDARD Doble Contacto
Collet chucks ER STANDARD nut Dual Drive

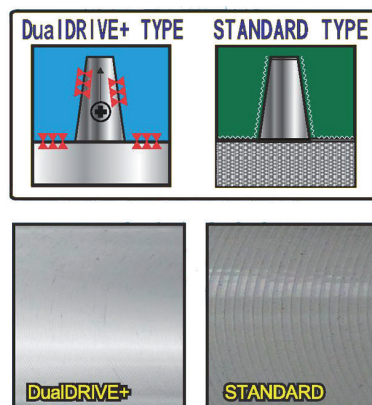
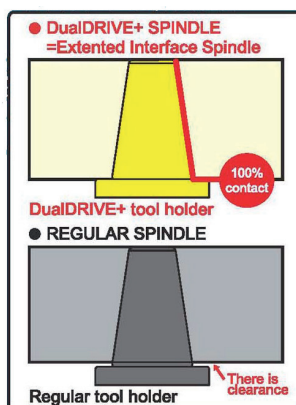
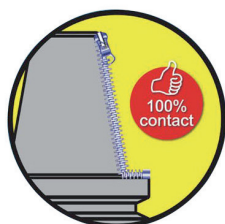


**DOBLE
CONTACTO**

SDAT40

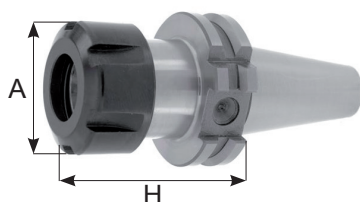
REFERENCIA	FAM	CAP	RPM	FORMA	H	A
SDAT40.H80.ERC11	18	1 ÷ 7	12.000	AD	80	19
SDAT40.H125.ERC11					125	
SDAT40.H70.ERC16	18	1 ÷ 10	12.000	AD	70	28
SDAT40.H100.ERC16					100	
SDAT40.H125.ERC16					125	
SDAT40.H150.ERC16					150	
SDAT40.H180.ERC16					180	
SDAT40.H70.ERC20	18	1 ÷ 14	12.000	AD	70	34
SDAT40.H100.ERC20					100	
SDAT40.H135.ERC20					135	
SDAT40.H160.ERC20					160	
SDAT40.H70.ERC25	18	1 ÷ 20	12.000	AD	70	42
SDAT40.H100.ERC25					100	
SDAT40.H150.ERC25					150	
SDAT40.H180.ERC25					180	
SDAT40.H70.ERC32	18	2 ÷ 22	12.000	AD	70	50
SDAT40.H100.ERC32					100	
SDAT40.H135.ERC32					135	
SDAT40.H150.ERC32					150	
SDAT40.H70.ERC40	18	3 ÷ 30	12.000	AD	70	63
SDAT40.H100.ERC40					100	
SDAT40.H135.ERC40					135	
SDAT40.H100.ERC50	18	6 ÷ 34	12.000	AD	100	78

**DOBLE
CONTACTO**



DIN/69871

Porta pinzas ER tuerca STANDARD Doble Contacto
Collet chucks ER STANDARD nut Dual Drive



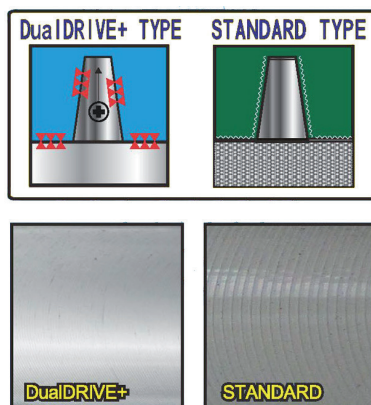
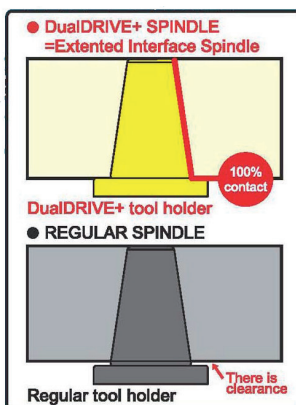
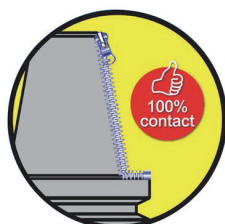
**DOBLE
CONTACTO**

SDAT50

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
SDAT50.H100.ERC16	18	1 ÷ 10	12.000	AD	100	28
SDAT50.H135.ERC16					135	
SDAT50.H160.ERC16					160	
SDAT50.H180.ERC16					180	
SDAT50.H100.ERC20	18	1 ÷ 14	12.000	AD	100	34
SDAT50.H135.ERC20					135	
SDAT50.H160.ERC20					160	
					180	
SDAT50.H70.ERC25	18	1 ÷ 20	12.000	AD	70	42
SDAT50.H100.ERC25					100	
SDAT50.H150.ERC25					150	
SDAT50.H200.ERC25					200	
SDAT50.H80.ERC32	18	2 ÷ 22	12.000	AD	80	50
SDAT50.H120.ERC32					120	
SDAT50.H160.ERC32					160	
SDAT50.H200.ERC32					200	
SDAT50.H80.ERC40	18	3 ÷ 30	12.000	AD	80	63
SDAT50.H120.ERC40					120	
SDAT50.H160.ERC40					160	
SDAT50.H200.ERC40					200	
SDAT50.H80.ERC50	18	6 ÷ 34	12.000	AD	80	78
SDAT50.H120.ERC50					120	
SDAT50.H160.ERC50					160	
SDAT50.H200.ERC50					200	

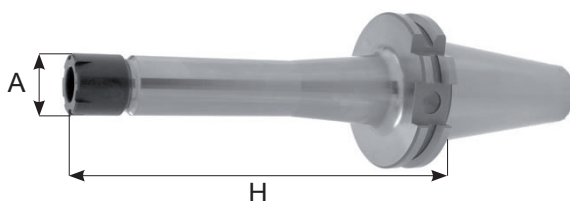
Programa: (Sobre pedido)

**DOBLE
CONTACTO**



DIN/69871

Porta pinzas ER tuerca MINI Doble Contacto
Collet chucks ER MINI nut Dual Drive



**DOBLE
CONTACTO**

SDAT40

REFERENCIA	FAM	CAP	RPM	FORMA	H	A
SDAT40.H70.ERC11M	18	1 ÷ 7	12.000	AD	70	16
SDAT40.H100.ERC11M					100	
SDAT40.H125.ERC11M					125	
SDAT40.H150.ERC11M					150	
SDAT40.H70.ERC16M	18	1 ÷ 10	12.000	AD	70	22
SDAT40.H100.ERC16M					100	
SDAT40.H125.ERC16M					125	
SDAT40.H150.ERC16M					150	
SDAT40.H70.ERC20M	18	1 ÷ 14	12.000	AD	70	28
SDAT40.H100.ERC20M					100	
SDAT40.H125.ERC20M					125	
SDAT40.H150.ERC20M					150	

SDAT50

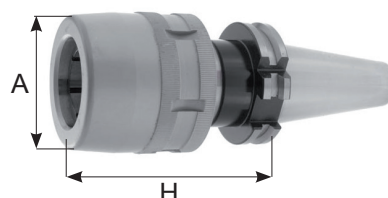
REFERENCIA	FAM	CAP	RPM	FORMA	H	A
SDAT50.H70.ERC11M	18	1 ÷ 7	12.000	AD	70	16
SDAT50.H90.ERC11M					90	
SDAT50.H105.ERC11M					105	
SDAT50.H135.ERC11M					135	
SDAT50.H165.ERC11M					165	
SDAT50.H70.ERC16M	18	1 ÷ 10	12.000	AD	70	22
SDAT50.H90.ERC16M					90	
SDAT50.H105.ERC16M					105	
SDAT50.H135.ERC16M					135	
SDAT50.H165.ERC16M					165	
SDAT50.H90.ERC20M	18	1 ÷ 14	12.000	AD	90	28
SDAT50.H105.ERC20M					105	
SDAT50.H135.ERC20M					135	
SDAT50.H165.ERC20M					165	

Programa: (Sobre pedido)



DIN/69871

Porta pinzas Gran Apriete Mecánico Doble Contacto
Power milling chucks Dual Drive



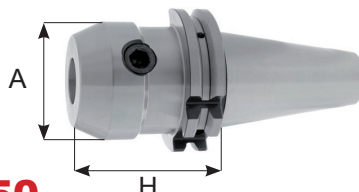
**DOBLE
CONTACTO**

SDAT40 / SDAT50

REFERENCIA	FAM	D	FORMA	H	A
SDAT40.H85.MLD20	18	20	AD	80	56.5
SDAT40.H135.MLD20				135	
SDAT40.H105.MLD32	18	32	AD	105	71
SDAT40.H135.MLD32				135	
SDAT50.H105.MLD20	18	20	AD	105	56.5
SDAT50.H150.MLD20				150	
SDAT50.H105.MLD32	18	32	AD	105	71
SDAT50.H135.MLD32				135	

DIN/69871

Porta fresas weldon DIN 1835-B Doble Contacto
End mill holders for DIN 1835-B shanks Dual Drive



**DOBLE
CONTACTO**

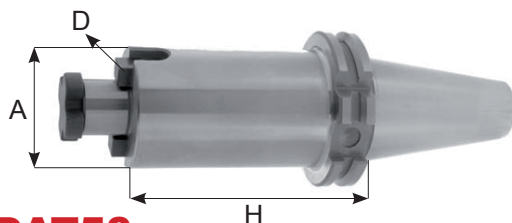
SDAT40 / SDAT50

REFERENCIA	FAM	D	FORMA	H	A
SDAT40.H50.WE6	18	6	AD	50	25
SDAT40.H50.WE8		8		50	28
SDAT40.H50.WE10		10		50	35
SDAT40.H50.WE12		12		50	42
SDAT40.H63.WE16		16		63	45
SDAT40.H63.WE20		20		63	52
SDAT40.H100.WE25		25		100	65
SDAT40.H100.WE32		32		100	72
SDAT50.H63.WE6	18	6	AD	63	25
SDAT50.H63.WE8		8		63	28
SDAT50.H63.WE10		10		63	35
SDAT50.H63.WE12		12		63	42
SDAT50.H63.WE16		16		63	48
SDAT50.H63.WE20		20		63	52
SDAT50.H80.WE25		25		80	65
SDAT50.H100.WE32		32		100	72
SDAT50.H100.WE40		40		100	90
SDAT50.H100.WE42		42		100	90
SDAT50.H125.WE50		50		125	100
SDAT50.H150.WE63		63		150	125

Programa: (Sobre pedido)

DIN/69871

Porta Fresas Fijo Doble Contacto
Shell end mill holders Dual Drive



**DOBLE
CONTACTO**

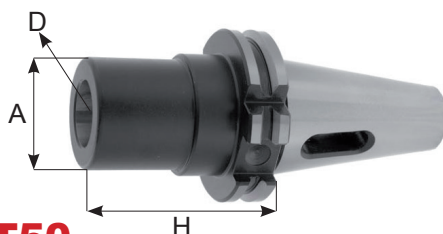
SDAT40 / SDAT50

REFERENCIA	FAM	D	FORMA	H	A
SDAT40.H35.D22S	18	22	AD	35	48
SDAT40.H60.D27S		27		60	58
SDAT40.H60.D32S		32		60	66
SDAT40.H60.D40S		40		60	80
SDAT50.H35.D22S	18	22	AD	35	48
SDAT50.H35.D27S		27		35	58
SDAT50.H35.D32S		32		35	66
SDAT50.H50.D40S		40		50	80
SDAT50.H50.D50S		50		60	95

Programa: (Sobre pedido)

DIN/69871

Reductor cono morse DIN/228-B Doble Contacto
Morse taper adapters DIN/228-B Dual Drive



**DOBLE
CONTACTO**

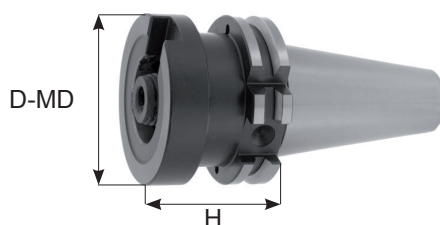
SDAT40 / SDAT50

REFERENCIA	FAM	D	FORMA	H	A
SDAT40.H50.CM1B	18	CM1	AD	50	25
SDAT40.H50.CM2B		CM2		50	32
SDAT40.H70.CM3B		CM3		70	40
SDAT40.H95.CM4B		CM4		95	48
SDAT50.H45.CM1B	18	CM1	AD	45	25
SDAT50.H60.CM2B		CM2		60	32
SDAT50.H65.CM3B		CM3		65	40
SDAT50.H95.CM4B		CM4		95	48
SDAT50.H105.CM5B		CM5		105	63

Programa: (Sobre pedido)

DIN/69871

Porta herramientas Modular sistema Varilock
Modular toll holders varilock system



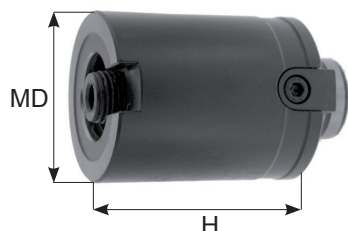
TC40 / TC50

REFERENCIA	D	FORMA	H
TCB40.H27.D50MD	50	AD+B	27
TCB40.H50.D50MD	50		50
TCB40.H27.D63MD	63		27
TCB40.H50.D63MD	63		50
TCB50.H27.D50MD	50	AD+B	27
TCB50.H50.D50MD	50		50
TCB50.H27.D63MD	63		27
TCB50.H50.D63MD	63		50
TCB50.H27.D80MD	80		27
TCB50.H50.D80MD	80		50

ADAPTADOR MODULAR

Adaptador Modular de extensión sistema Varilock
Modular extension adapters

MD50 / MD63 / MD80

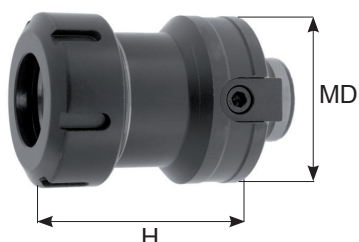


REFERENCIA	FAM	MD	H
MD50.H60.MD50	1	50	60
MD50.H80.MD50	20	50	80
MD50.H100.MD50	1	50	100
MD50.H150.MD50	11	50	150
MD63.H40.MD63	11	63	40
MD63.H80.MD63	1	63	80
MD63.H120.MD63	1	63	120
MD63.H160.MD63	11	63	160
MD80.H80.MD80	11	80	80
MD80.H100.MD80	20	80	100
MD80.H120.MD80	11	80	120
MD80.H140.MD80	20	80	140
MD80.H160.MD80	11	80	160

Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.

Porta pinzas Modular sistema Varilock
Modular collet chuck adapters

MD50 / MD63 / MD80



REFERENCIA	FAM	CAP	MD	H
MD50.H63.ERC20	20	1 ÷ 14	50	63
MD50.H63.ERC25	20	1 ÷ 20	50	63
MD50.H65.ERC32	1	2 ÷ 22	50	65
MD50.H80.ERC40	11	3 ÷ 30	50	80
MD63.H77.ERC32	1	2 ÷ 22	63	77
MD63.H80.ERC40	1	3 ÷ 30	63	80
MD80.H90.ERC40	20	3 ÷ 30	80	90

Porta fresas weldon Modular sistema Varilock
Modular end mill adapters

MD50 / MD63 / MD80

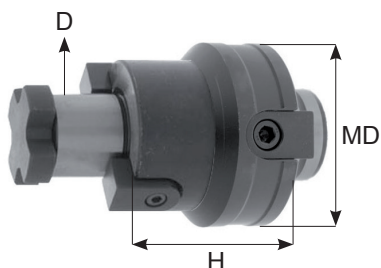


REFERENCIA	FAM	MD	H	WE
MD50.H50.WE6	1	50	50	6
MD50.H50.WE8			50	8
MD50.H50.WE10			50	10
MD50.H60.WE12			60	12
MD50.H60.WE14			60	14
MD50.H60.WE16			60	16
MD50.H60.WE18			60	18
MD50.H60.WE20			60	20
MD50.H80.WE25	20		80	25
MD63.H70.WE6	1	63	70	6
MD63.H70.WE8			70	8
MD63.H70.WE10			70	10
MD63.H70.WE12			70	12
MD63.H70.WE14			70	14
MD63.H70.WE16			70	16
MD63.H70.WE18			70	18
MD63.H70.WE20			70	20
MD63.H80.WE25			80	25
MD63.H80.WE32			80	32
MD63.H90.WE40	20		90	40
MD80.H70.WE16	20	80	70	16
MD80.H70.WE20			70	20
MD80.H80.WE25			80	25
MD80.H80.WE32			80	32
MD80.H90.WE40			90	40

Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.

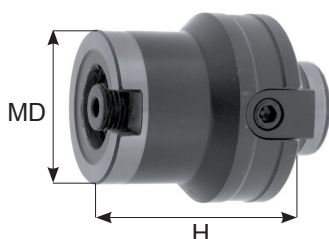
Porta Fresas Modular sistema Varilock
Shell end mill holders Modular Adapters

MD50 / MD63 / MD80



REFERENCIA	FAM	MD	H	D
MD50.H30.D16S	20	50	30	16
MD50.H20.D22S			20	22
MD50.H20.D27S			20	27
MD50.H25.D32S			25	32
MD63.H30.D22S	20	63	30	22
MD63.H30.D27S			30	27
MD63.H30.D32S			30	32
MD63.H30.D40S			30	40
MD80.H30.D27S	20	80	30	27
MD80.H30.D32S			30	32
MD80.H30.D40S			30	40

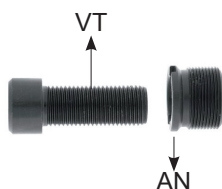
Reductor Modular sistema Varilock
Modular Adapters



MD63 / MD80

REFERENCIA	FAM	MD	H
MD63.H60.MD50	11	50	60
MD80.H80.MD63	11	63	80

Recambios
Spare part

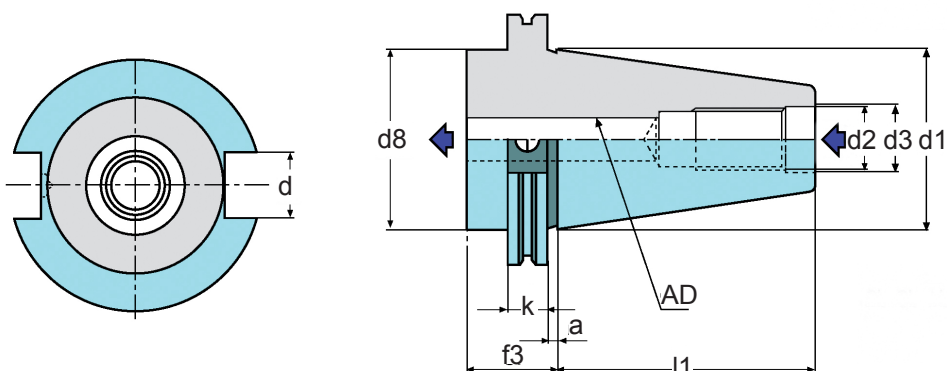


REFERENCIA	FAM
AN-MD 50	1
AN-MD 63-80	
VT-MD 50	1
VT-MD 63-80	



REFERENCIA	FAM	MD
DK-MD50	1	12x10x18.2
DK-MD63-80	1	16x13x24

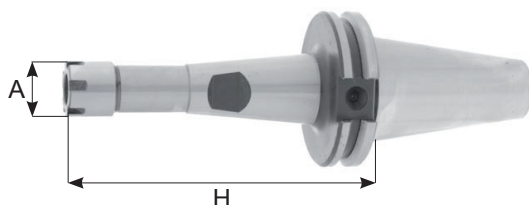
Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.



7

CONO TAPER	d1	d2	d3	d8	l1	a	k	f3	b
CAT40M	44.45	M16	17	44.45	68.4	3.2	15.9	35	16.1

Porta pinzas ER tuerca MINI
Mini collet chucks

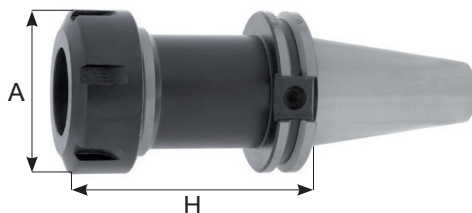


CAT40M

Apto para Máquina "MAZAK"

REFERENCIA	CAP	H	A
CAT40M.H100.ERC25M	1 ÷ 20	100	35
CAT40M.H150.ERC25M	1 ÷ 20	150	35

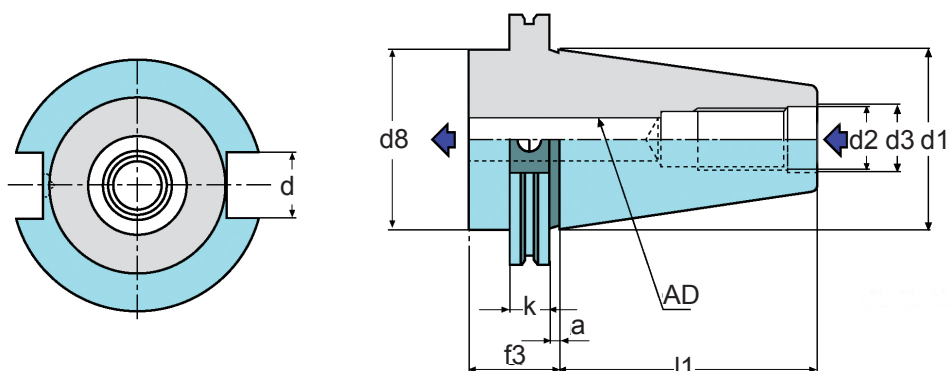
Porta pinzas ER tuerca STANDARD
Collet chucks ER STANDARD nut



CAT40M

Apto para Máquina "MAZAK"

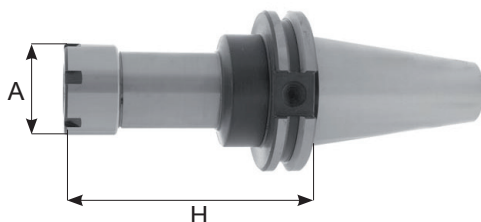
REFERENCIA	CAP	H	A
CAT40M.H70.ERC16	1 ÷ 10	70	28
CAT40M.H100.ERC16	1 ÷ 10	100	28
CAT40M.H70.ERC32	2 ÷ 22	70	50
CAT40M.H100.ERC32	2 ÷ 22	100	50
CAT40M.H80.ERC40	3 ÷ 30	80	63
CAT40M.H100.ERC40	3 ÷ 30	100	63



CONO TAPER	d1	d2	d3	d8	l1	a	k	f3	b
CAT 40 ANSI	1.750	5/8-11	.641	1.750	2.687	.125	.625	1.375	.645
CAT 50 ANSI	2.750	1"-8	1.031	2.750	4.000	.125	.625	1.375	1.020

Porta pinzas ER tuerca MINI en pulgadas
Mini collet chucks INCH

INCH- PULGADAS



Cota "H" en pulgadas / Projection "H" in INCH

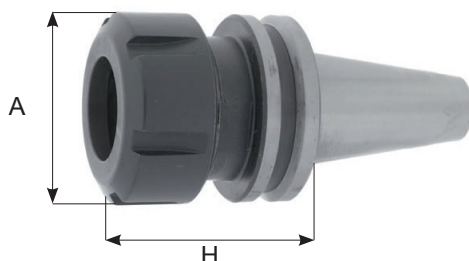
CAT40 ANSI

REFERENCIA

CAT40ANSI.H4.92.ERC16M

Porta pinzas ER tuerca STANDARD en pulgadas
STANDARD collet chucks INCH

INCH- PULGADAS



Cota "H" en pulgadas / Projection "H" in INCH

CAT40 / 50 ANSI

REFERENCIA

CAT40ANSI.H2.76.ERC16
CAT40ANSI.H4.00.ERC16
CAT40ANSI.H2.76.ERC32
CAT40ANSI.H4.00.ERC32
CAT40ANSI.H3.15.ERC40
CAT40ANSI.H4.00.ERC40

CAT50ANSI.H4.00.ERC32
CAT50ANSI.H4.00.ERC40

