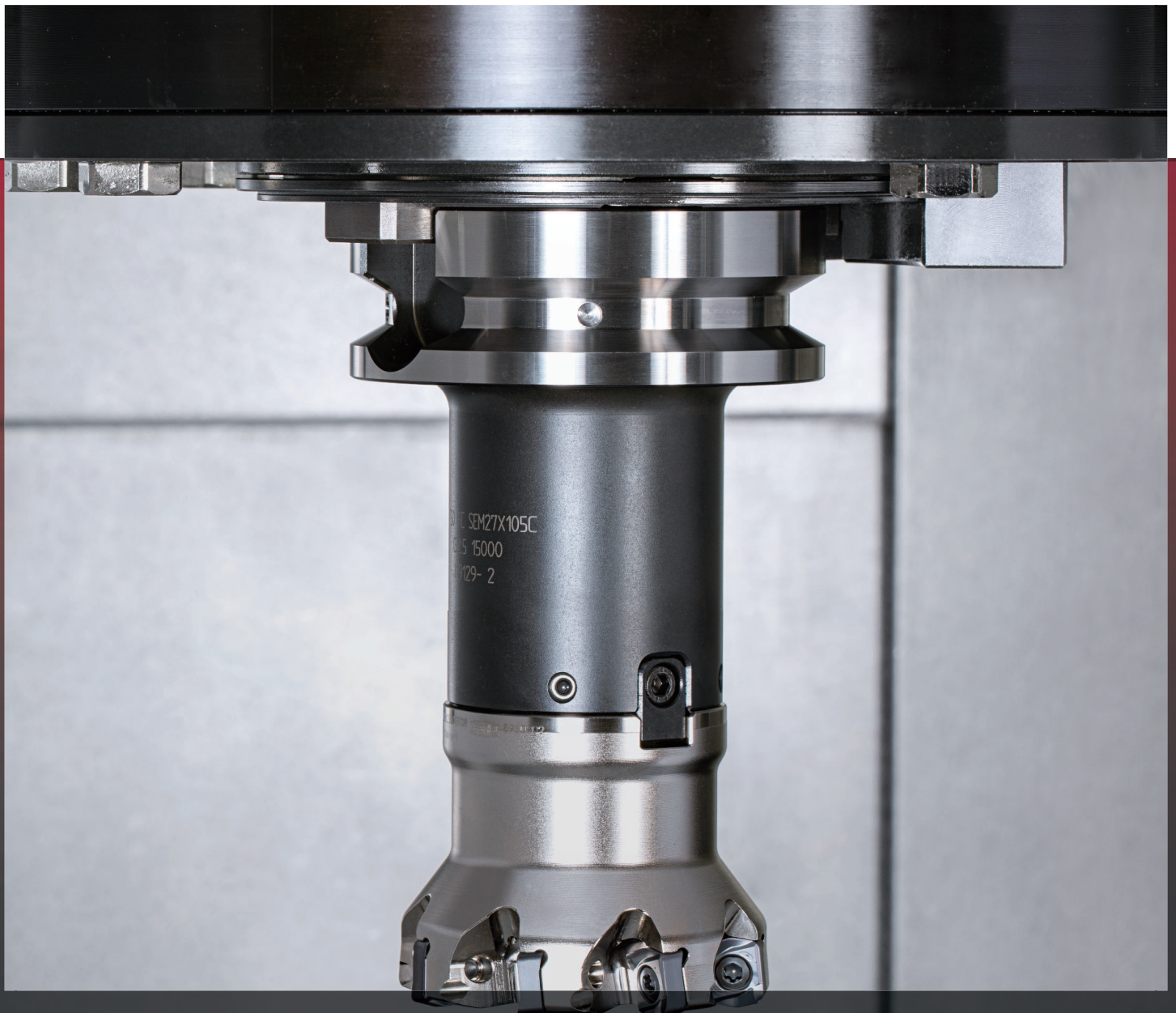


Tooling system

TUNGHOLD

Tungaloy Report No. 389S4-US

Expansion of the FC series tool holders with a dual-contact system

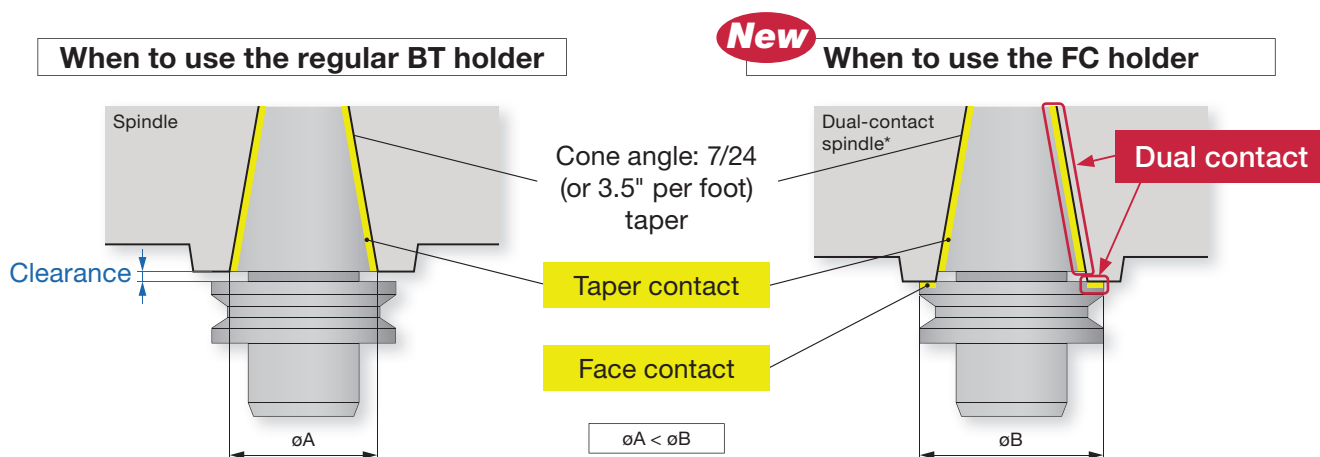




High rigidity holders with a dual-contact system for improved stability

■ Features

- A dual-contact system for increased holder rigidity
- High precision and repeatability when using ATC for tool loadings
- Minimized axial deflections of the tool caused by centrifugal forces or increased temperatures during high speed tool rotation
- Assures stable cutting performance during machining with long overhang or heavy cutting
- Increased tool life of the cutting tools and machine spindles

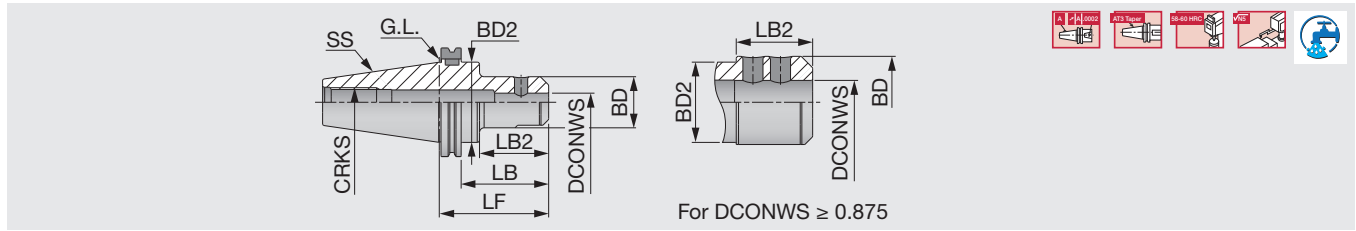


*Note: FC series tool holders can also be used with the spindles designed for conventional BT taper connection. In this case, the holder will be supported with the taper contact only, leaving a clearance between the face contacts.



CAT-FC-EM

DIN1835 Form B endmill holders with Caterpillar face contact AD tapered shanks

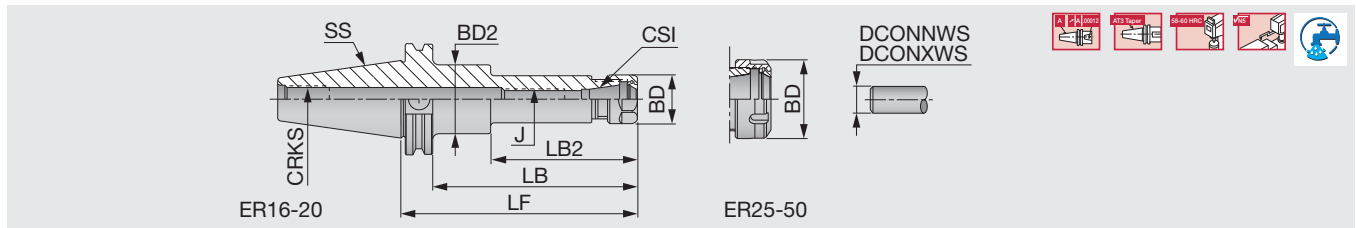


Inch	SS	DCONWS	BD	BD2	LF	LB	LB2	CRKS
CAT40FCEM3/8X2.500	40	0.375	1.248	1.752	2.500	1.750	1.120	5/8-11
CAT40FCEM1/2X2.625	40	0.500	1.380	1.752	2.625	1.875	1.245	5/8-11
CAT40FCEM5/8X1.750	40	0.625	1.500	1.500	1.750	1.000	-	5/8-11
CAT40FCEM3/4X1.750	40	0.750	1.750	1.750	1.750	1.000	-	5/8-11
CAT40FCEM1X1.750	40	1.000	2.000	2.000	1.750	1.000	-	5/8-11
CAT40FCEM1-1/4X2.000	40	1.250	2.250	2.250	2.000	1.250	-	5/8-11
CAT50FCEM1/2X4.625	50	0.500	1.380	2.752	4.625	3.875	3.246	1-8
CAT50FCEM5/8X3.750	50	0.625	1.650	2.752	3.750	3.000	2.370	1-8
CAT50FCEM3/4X3.750	50	0.750	1.752	2.752	3.750	3.000	2.370	1-8
CAT50FCEM1X4.000	50	1.000	2.358	2.752	4.000	3.250	2.620	1-8
CAT50FCEM1-1/4X4.000	50	1.250	2.500	2.752	4.000	3.250	2.620	1-8
CAT50FCEM1-1/2X4.000	50	1.500	2.990	2.752	4.000	3.250	2.620	1-8

Applicable for 7 MPa coolant.

CAT-FC-ER

ER collet chuck holders with Caterpillar face contact AD tapered shanks

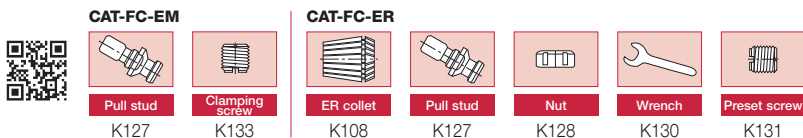


Inch	SS	CSI	BD	BD2	LF	LB	LB2	J	CRKS
CAT40FCER16X2.750	40	ER16	1.102	1.752	2.750	2.000	1.370	M12	5/8-11
CAT40FCER16X3.937	40	ER16	1.102	1.752	3.937	3.187	2.560	M12	5/8-11
CAT40FCER32X2.562	40	ER32	1.968	1.752	2.562	1.812	-	M22	5/8-11
CAT40FCER32X4.000	40	ER32	1.968	1.752	4.000	3.250	-	M22	5/8-11
CAT40FCER40X3.359	40	ER40	2.480	1.752	3.359	2.609	-	M28	5/8-11
CAT50FCER16X3.937	50	ER16	1.102	2.752	3.937	3.187	2.560	M12	1-8
CAT50FCER16X5.906	50	ER16	1.102	2.752	5.906	5.156	3.490	M12	1-8
CAT50FCER32X4.000	50	ER32	1.968	2.752	4.000	3.250	2.620	M22	1-8
CAT50FCER32X6.000	50	ER32	1.968	2.752	6.000	5.250	4.620	M22	1-8
CAT50FCER40X4.000	50	ER40	2.480	2.752	4.000	3.250	2.700	M28	1-8

Balanced to G2.5 max.n: 20,000 min⁻¹
Applicable for 10 MPa coolant.

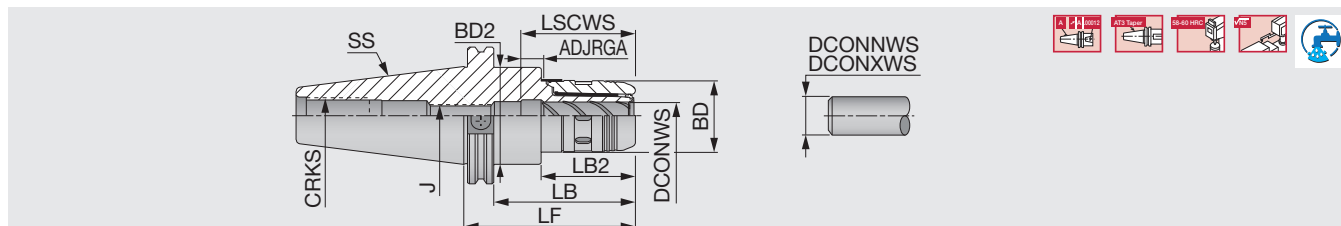
Option: Wrench for ER collet

For the reference page below (K***), please see the Tungaloy General Catalog, ver. 2021-2022. Or scan the QR code.



CAT-FC-TUNGMAX

Power chuck holders with Caterpillar face contact AD tapered shanks



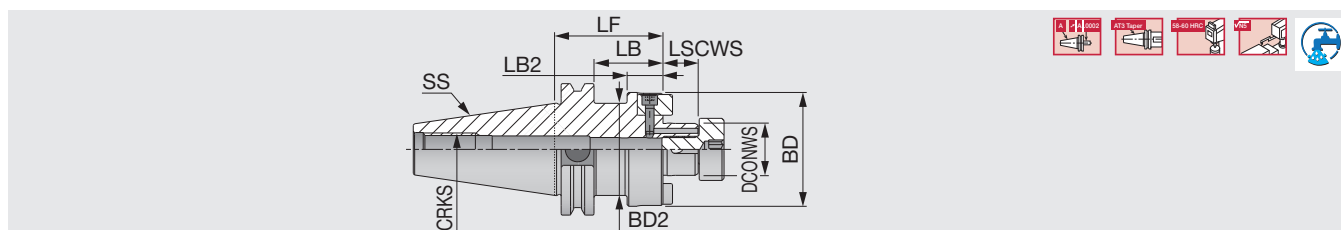
Inch	SS	DCONWS	DCONNWS	DCONXWS	BD	BD2	LF	LB	LB2	ADJRGGA	LSCWS	J	CRKS
CAT40FCMAXIN3/4X3.75	40	0.725	0.250	0.725	2.000	1.752	3.750	3.000	2.370	0.530	2.720	M16	5/8-11
CAT40FCMAXIN1-1/4X4.16	40	1.250	0.250	1.250	2.716	1.752	4.160	3.410	2.780	0.470	3.230	M16	5/8-11
CAT50FCMAXIN3/4X4.13	50	0.725	0.250	0.725	2.000	2.752	4.130	3.380	2.750	0.530	2.720	M16	1-8
CAT50FCMAXIN1-1/4X4.05	50	1.250	0.250	1.250	2.716	2.752	4.050	3.300	-	0.550	3.310	M20	1-8

Applicable for 10 MPa coolant.

Option: Wrench for TungMax collet

CAT-FC-SEM-C

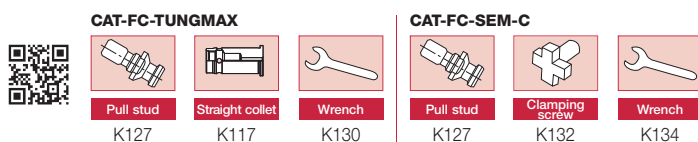
Shell mill holders with coolant holes and Caterpillar face contact AD tapered shanks



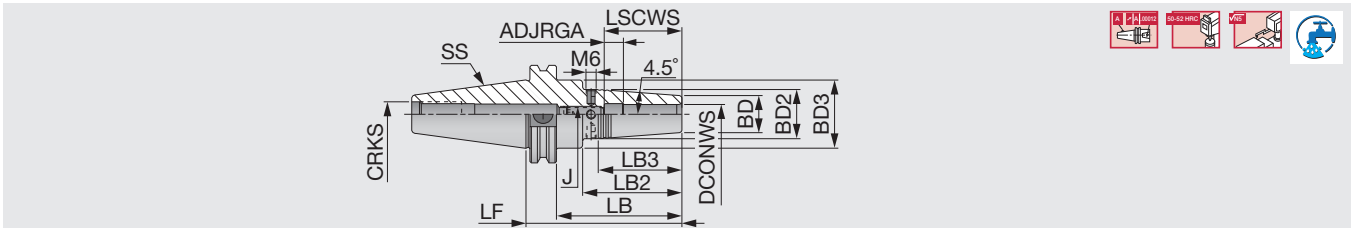
Inch	SS	DCONWS	BD	BD_2	LF	LB	LSCWS	LB2	CRKS
CAT40FCSEM1/2X2.000C	40	0.500	1.378	1.752	2.000	1.250	0.570	0.622	5/8-11
CAT40FCSEM3/4X1.375C	40	0.750	1.752	1.752	1.375	0.625	0.670	-	5/8-11
CAT40FCSEM1X2.062C	40	1.000	2.165	1.752	2.062	1.312	0.670	0.685	5/8-11
CAT40FCSEM1-1/4X2.125C	40	1.250	2.752	1.752	2.125	1.375	0.670	0.748	5/8-11
CAT40FCSEM1-1/2X2.406C	40	1.500	3.071	1.752	2.406	1.656	0.937	1.027	5/8-11
CAT50FCSEM1/2X3.500C	50	0.500	1.378	2.752	3.500	2.750	0.570	2.122	1-8
CAT50FCSEM3/4X3.500C	50	0.750	1.771	2.752	3.500	2.750	0.670	2.122	1-8
CAT50FCSEM1X2.000C	50	1.000	2.165	2.752	2.000	1.250	0.670	0.622	1-8
CAT50FCSEM1-1/4X3.500C	50	1.250	2.752	2.752	3.500	2.750	0.670	-	1-8
CAT50FCSEM1-1/2X2.500C	50	1.500	3.071	2.752	2.500	1.750	0.937	1.122	1-8

Balanced to G2.5 max.n: 20,000 min⁻¹
Applicable for 7 MPa coolant.

For the reference page below (K***), please see the Tungaloy General Catalog, ver. 2021-2022. Or scan the QR code.



Thermal shrinking holders with Caterpillar face contact AD tapered shanks, for carbide, HSS and steel shanks



Inch	SS	DCONWS	BD	BD3	BD2	LF	LB	LB3	LB2	ADJRGGA	LSCWS	J	CRKS
CAT40FCSRKIN1/4X3.50 ⁽¹⁾	40	0.250	0.827	1.752	1.063	3.500	2.750	1.500	2.120	0.457	1.417	M5	5/8-11
CAT40FCSRKIN3/8X3.75 ⁽¹⁾	40	0.375	0.945	1.752	1.260	3.750	3.000	2.000	2.370	0.453	1.653	M8	5/8-11
CAT40FCSRKIN1/2X3.75 ⁽¹⁾	40	0.500	0.945	1.752	1.260	3.750	3.000	2.000	2.370	0.450	1.850	M10	5/8-11
CAT40FCSRKIN5/8X3.75 ⁽¹⁾	40	0.625	1.063	1.752	1.338	3.750	3.000	1.752	2.370	0.448	1.968	M12	5/8-11
CAT40FCSRKIN3/4X3.00 ⁽¹⁾	40	0.750	1.299	1.752	1.550	3.000	2.250	-	1.620	0.457	2.047	M16	5/8-11
CAT40FCSRKIN1X4.000 ⁽¹⁾	40	1.000	1.732	1.752	2.087	4.000	3.250	2.252	2.620	0.453	2.283	M16	5/8-11
CAT50FCSRKIN1/2X3.75 ⁽²⁾	50	0.500	0.945	2.752	1.260	3.750	3.000	2.000	2.370	0.450	1.850	M10	1-8
CAT50FCSRKIN5/8X3.75 ⁽²⁾	50	0.625	1.063	2.752	1.338	3.750	3.000	1.752	2.370	0.458	1.968	M12	1-8
CAT50FCSRKIN3/4X4.00 ⁽²⁾	50	0.750	1.299	2.752	1.653	4.000	3.250	2.252	2.620	0.457	2.047	M16	1-8
CAT50FCSRKIN1X4.000 ⁽²⁾	50	1.000	1.732	2.752	2.087	4.000	3.250	2.252	2.620	0.453	2.283	M16	1-8
CAT50FCSRKIN1-1/4X4.0 ⁽²⁾	50	1.250	1.732	2.752	2.087	4.000	3.250	2.252	2.620	0.457	2.047	M16	1-8

Please use an induction heating unit for SRKIN holder.

(1) Balanced to G2.5 max.n: 25,000 min⁻¹

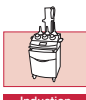
(2) Balanced to G2.5 max.n: 20,000 min⁻¹

Applicable for 10 MPa coolant.

For the reference page below (K***), please see the Tungaloy General Catalog, ver. 2021-2022. Or scan the QR code.



Pull stud
K127



Induction heating unit
K125



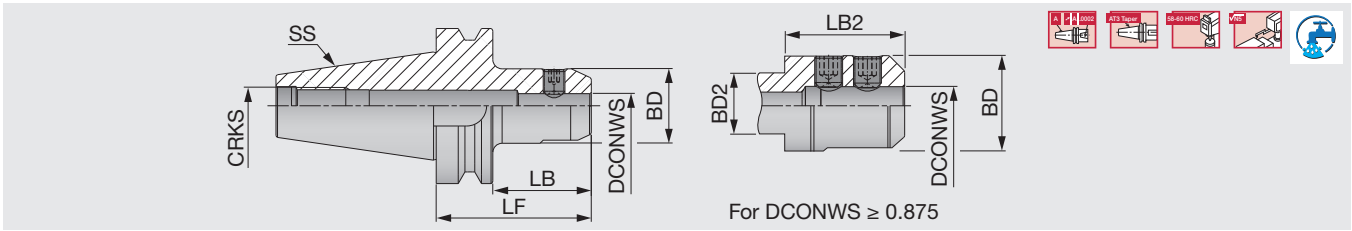
Heating unit
K125



Preset screw
K133

BT-FC-EM

DIN1835 Form B endmill holders with BT MAS-403 face contact AD tapered shanks



Inch	SS	DCONWS	BD	BD2	LF	LB	LB2	CRKS
BT30FCEM1/2X2.350	30	0.500	1.752	-	2.350	1.483	-	M12
BT30FCEM5/8X2.350	30	0.625	1.752	-	2.350	1.483	-	M12
BT30FCEM3/4X2.350	30	0.750	1.752	-	2.350	1.483	-	M12
BT30FCEM1X4.000	30	1.000	2.560	1.784	4.000	3.134	2.740	M12

Applicable for 10 MPa coolant.

For the reference page below (K***), please see the Tungaloy General Catalog, ver. 2020-2021. Or scan the QR code.



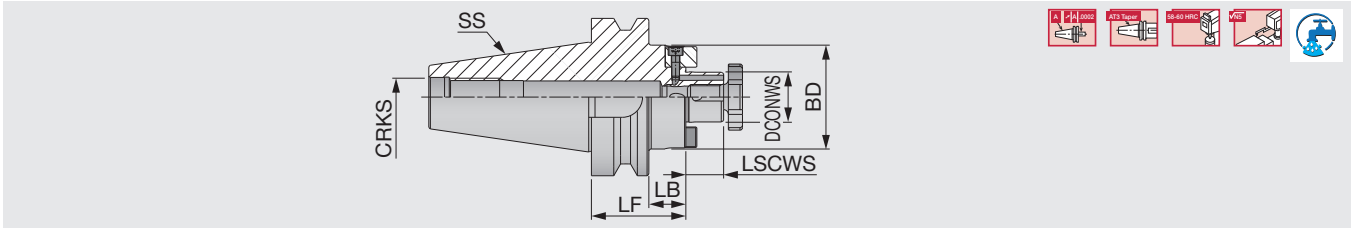
Pull stud
K148



Clamping screw
K155

BT-FC-SEM-C

Shell mill holders with coolant holes and BT MAS-403 face contact AD tapered shanks



Inch	SS	DCONWS	BD	LF	LB	LSCWS	CRKS
BT30FCSEM1/2X2.000C	30	0.500	1.378	2.000	1.134	0.570	M12
BT30FCSEM3/4X2.000C	30	0.750	1.771	2.000	1.134	0.670	M12
BT30FCSEM1.0X2.000C	30	1.000	2.165	2.000	1.134	0.670	M12

Balanced to G2.5 max.n: 20,000 min⁻¹
Applicable for 10 MPa coolant.

Option: Wrench for lock screw

For the reference page below (K***), please see the Tungaloy General Catalog, ver. 2020-2021. Or scan the QR code.



K148



K154



K156

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