



PROMOTIONS 2022



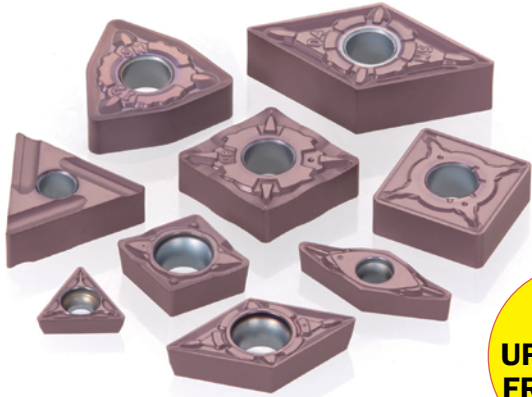
713-682-1889
800-442-0042

sales@basstool.com
www.basstool.com

VALID TILL 6/30/2022

TURNING INSERTS

PAGE: 2



SAVE
UP TO 55%
FROM LIST

MODULAR SYSTEMS

PAGE: 3



FREE
HEADS

INTERNAL MACHINING

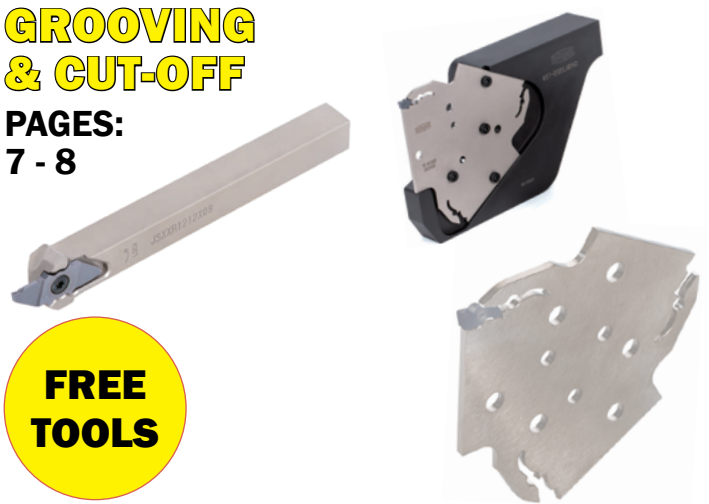
PAGES:
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FREE
HOLDERS

GROOVING & CUT-OFF

PAGES:
7 - 8



FREE
TOOLS

MILLING

PAGES:
9 - 16



FREE
CUTTERS

DRILLING

PAGES:
17 - 20



FREE
DRILL
BODIES



AH6225

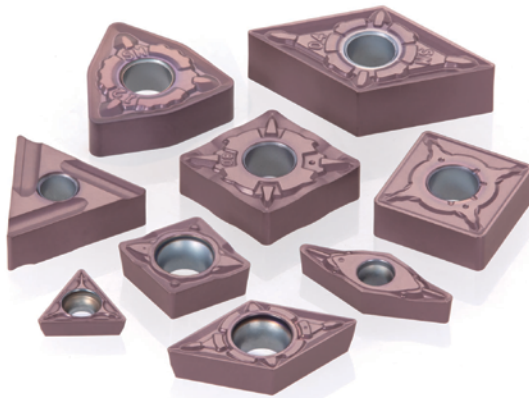
- A NEW GENERATION OF PVD GRADE FOR **STAINLESS STEEL**
- SUPERIOR WEAR RESISTANCE
- ELIMINATES BUILT UP EDGE

BUY 50 inserts
AND
GET

20%
additional
discount!

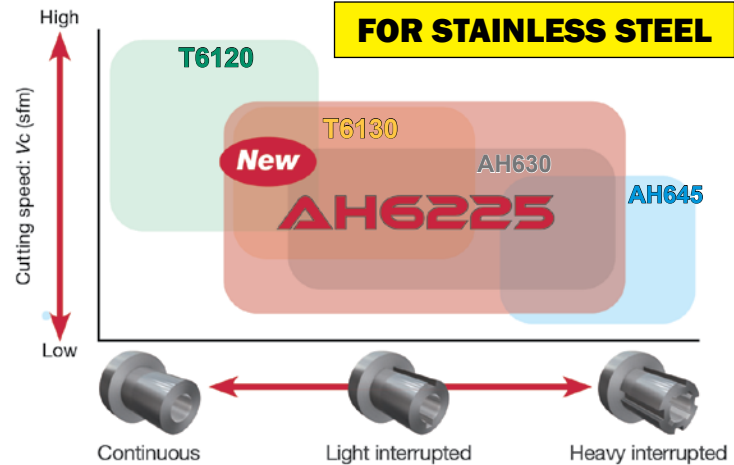
Promo code: TG129

**SAVE
UP TO
55%
FROM LIST**



INSERTS INCLUDED IN THE PROMO:	Negative type CNMG..., DNMG..., SNMG..., TNMG..., VNMG..., WNMG	Positive type CCMT..., CPMT..., DCMT..., SCMT..., TCMT..., TPMT..., VBMT..., VCMT...

AH6225 is our new versatile solution for all your challenges in **STAINLESS STEEL** machining!



STEEL TURNING

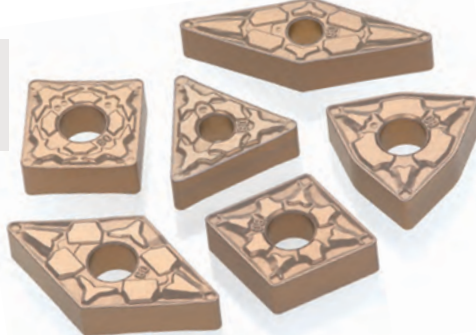
PS & PM T9200

PS AND PM CHIPBREAKERS FOR LIGHT CUTTING DEPTHS OR HIGH FEED RATES
TURNING INSERTS FOR STEEL IN GRADES T9215 & T9225

BUY 50 inserts
AND
GET

20%
additional
discount!

Promo code: TG132



**SAVE
UP TO 55%
FROM LIST**

STANDARD CUTTING CONDITIONS

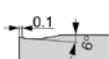
ISO	Operation	Chip breaker	Grade	Depth of cut ap (in)	Feed f (ipr)	Cutting speed: vc (sfm)		
						Low carbon steel, alloy steel	Medium carbon steel, alloy steel	High carbon steel, alloy steel
P	Finishing	PS	T9215	0.012 - 0.059	0.004 - 0.016	492 - 1312	492 - 1312	394 - 984
			T9225	0.012 - 0.059	0.004 - 0.016	394 - 984	394 - 984	328 - 820
	Medium cutting	PM	T9215	0.020 - 0.217	0.006 - 0.020	492 - 1312	492 - 1312	394 - 984
			T9225	0.020 - 0.217	0.006 - 0.020	394 - 984	394 - 984	328 - 820

CARBIDE GRADES APPLICATIONS

		T9215	AH8015
P	Steel	◆◆	◆◆✘
M	Stainless	◆◆	
K	Cast iron	◆◆	

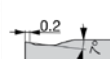
- Continuous cutting
- ◆ Light interrupted cutting
- ✘ Heavy interrupted cutting

PS



Unique geometry to provide better crater wear resistance and chip control during turning at light cutting depths.

PM



Versatile geometry with optimized cutting edge design to provide superior chip control in wide range of applications.



MODUM^{INI}TURN

MODULAR SYSTEM FOR SWISS MACHINES

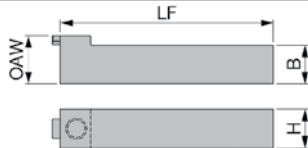
- Modularity and productivity with a wide selection of turning, grooving and threading heads.
- Substantially reduced setup time for maximum machine utilization.
- By feeding in the Y-axis direction, downward-facing chipbreaker directs the chip flow down and away from the cutting point.
- Positioning accuracy for the same insert: ±5 μm (±0.0002").
- ModuMiniTurn offers precision internal coolant delivery, which improves chip control and tool life.

BUY 20 inserts* GET 1 head FREE
-OR- **GET 1 CHP head at 50% discount**
Promo code: TG136

* ONLY INSERTS SHOWN ON THE RIGHT

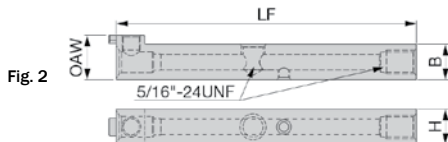
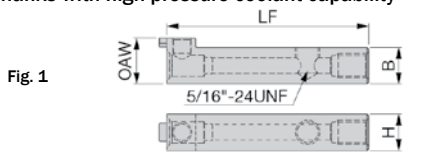


SHANKS



PART#: (Inch)	H	B	LF	OAW
QC-08F	0.500	0.500	2.559	0.591
QC-08X	0.500	0.500	3.937	0.591
PART#: (Metric)	H	B	LF	OAW
QC-1212F	12	12	65	15
QC-1212X	12	12	100	15

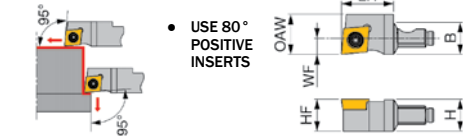
Shanks with high pressure coolant capability



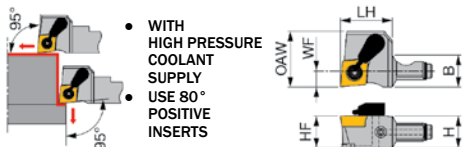
PART#: (Inch)	H	B	LF	OAW	Fig.
QC-08F-CHP	0.500	0.500	2.559	0.591	1
QC-08X-CHP ⁽¹⁾	0.500	0.500	3.937	0.591	2
PART#: (Metric)	H	B	LF	OAW	Fig.
QC-1212F-CHP	12	12	65	15	1
QC-1212X-CHP ⁽¹⁾	12	12	100	15	2

(1) Compatible to the direct internal coolant supply system without the use of external coolant hose. Through-coolant shank

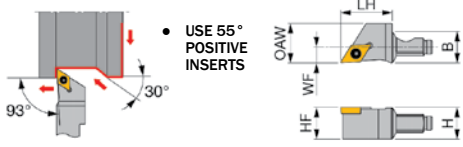
MODULAR HEADS



PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSCL2CR09	0.472	0.472	0.768	0.472	0.236	0.591	CC**32.5
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSCL2CR09	12	12	19.5	12	6	15	CC**09T3...



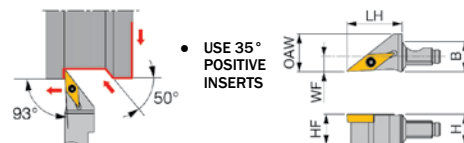
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSCL2CR09-CHP	0.472	0.472	0.768	0.472	0.236	0.827	CC**32.5
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSCL2CR09-CHP	12	12	19.5	12	6	21	CC**09T3...



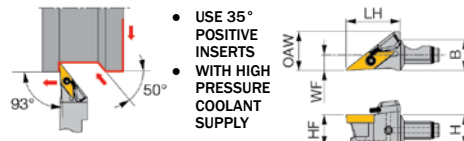
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2CR07	0.472	0.472	0.768	0.472	0.236	0.591	DC**21.5...
QC12-JSDJ2CR11	0.472	0.472	0.768	0.472	0.236	0.591	DC**32.5...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2CR07	12	12	19.5	12	6	15	DC**0702...
QC12-JSDJ2CR11	12	12	19.5	12	6	15	DC**11T3...



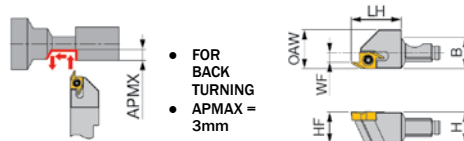
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2CR07-CHP	0.472	0.472	0.768	0.472	0.236	0.709	DC**21.5
QC12-JSDJ2CR11-CHP	0.472	0.472	0.768	0.472	0.236	0.827	DC**32.5
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2CR07-CHP	12	12	19.5	12	6	18	DC**0702...
QC12-JSDJ2CR11-CHP	12	12	19.5	12	6	21	DC**11T3...



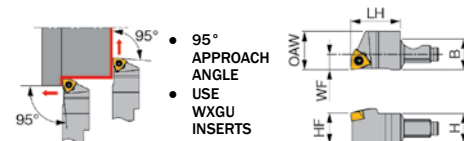
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2BR11	0.472	0.472	0.866	0.472	0.236	0.591	VB**22...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2BR11	12	12	22	12	6	15	VB**1103...



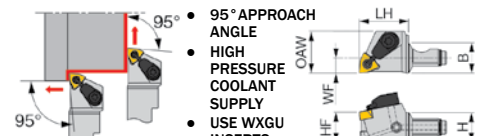
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2BR11-CHP	0.472	0.472	0.827	0.472	0.236	0.591	VB**22...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2BR11-CHP	12	12	21	12	6	15	VB**1103...



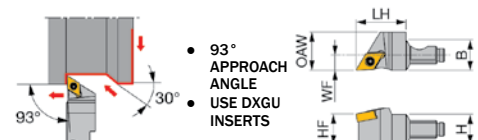
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSEGR10	0.472	0.472	0.768	0.472	0.138	0.591	J10ER...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSEGR10	12	12	19.5	12	3.5	15	J10ER...



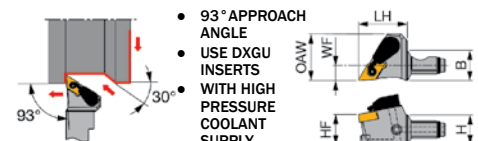
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSWL2XR04	0.472	0.472	0.768	0.472	0.236	0.591	WXGU022**L...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSWL2XR04	12	12	19.5	12	6	15	WXGU0403**L...



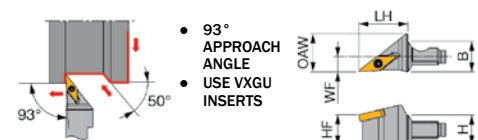
PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSWL2XR04-CHP	0.472	0.472	0.768	0.472	0.236	0.650	WXGU22**L...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSWL2XR04-CHP	12	12	19.5	12	6	16.5	WXGU0403**L...



PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2XR07	0.472	0.472	0.768	0.472	0.236	0.591	DXGU22**L...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2XR07	12	12	19.5	12	6	15	DXGU0703**L...



PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2XR07-CHP	0.472	0.472	0.768	0.472	0.236	0.724	DXGU22**L...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSDJ2XR07-CHP	12	12	19.5	12	6	18.4	DXGU0703**L...



PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2XR09	0.472	0.472	0.768	0.472	0.236	0.591	VXGU73.5**L...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2XR09	12	12	19.5	12	6	15	VXGU09T2**L...



PART#: (Inch)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2XR09-CHP	0.472	0.472	0.827	0.472	0.236	0.591	VXGU73.5**L...
PART#: (Metric)	H	B	LH	HF	WF	OAW	Insert
QC12-JSVJ2XR09-CHP	12	12	21	12	6	15	VXGU09T2**L...



MODUM^{INI}TURN

MODULAR SYSTEM FOR SWISS MACHINES

QC12-JSCL2CR-Y

Y-axis turning modular head with 95° approach angle



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSCL2CR09-Y	0.472	0.472	0.768	0	0.236	0.780	0.732	0.012	CC*T32.50.5...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSCL2CR09-Y	12	12	19.5	0	6	19.8	18.6	0.3	CC**09T3...

QC12-JSCL2CR-Y-CHP

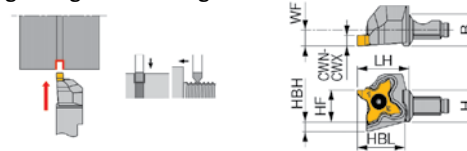
Y-axis turning modular head with 95° approach angle with high pressure coolant capability



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSCL2CR09-Y-CHP	0.472	0.472	0.768	0	0.236	0.780	0.732	0.012	CC*T32.50.5...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSCL2CR09-Y-CHP	12	12	19.5	0	6	19.8	18.6	0.3	CC**09T3...

HOLDERS USING RIGHT-HAND INSERTS TC*18R... QC12-STCR

Modular head for external grooving and threading

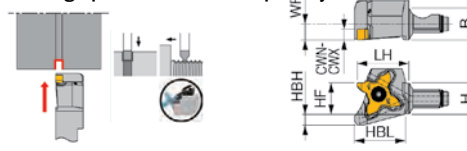


PART#: (Inch)	CWN	CWX	H	B	LH	HF	HBH	HBL	WF	Insert
QC12-STCR18	0.013	0.118	0.472	0.472	0.768	0.472	0.154	0.705	0.236	TC*18R
PART#: (Metric)	CWN	CWX	H	B	LH	HF	HBH	HBL	WF	Insert
QC12-STCR18	0.33	3	12	12	19.5	12	3.9	17.9	9	TC*18R

The right hand insert (R) is used for the right hand toolholder (R).

QC12-STCR-CHP

Modular head for external grooving and threading, with high pressure coolant capability

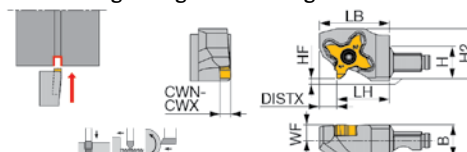


PART#: (Inch)	CWN	CWX	H	B	LH	HF	HBH	HBL	WF	Insert
QC12-STCR18-CHP	0.113	0.118	0.472	0.472	0.768	0.472	0.165	0.760	0.236	TC*18R
PART#: (Metric)	CWN	CWX	H	B	LH	HF	HBH	HBL	WF	Insert
QC12-STCR18-CHP	0.33	3	12	12	19.5	12	4.2	19.3	6	TC*18R

The right hand insert (R) is used for the right hand toolholder (R). Through coolant head

QC12-STCR-Y

Y-axis turning modular head for external grooving and threading

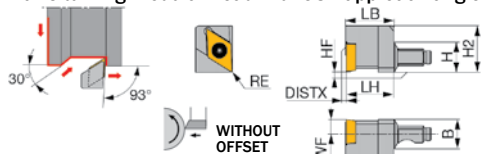


PART#: (Inch)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCR18-Y	0.113	0.118	0.472	0.472	0.768	0	0.236	1.024	0.732	0.256	TC*18R
PART#: (Metric)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCR18-Y	0.33	3	12	12	19.5	0	6	26	18.6	6.5	TC*18R

The right hand insert (R) is used for the right hand toolholder (R).

QC12-JSDJ2CR-Y

Y-axis turning modular head with 93° approach angle



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2CR11-Y	0.472	0.472	0.768	0	0.236	0.780	0.732	0.012	DC*T32.50.5...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2CR11-Y	12	12	19.5	0	6	19.8	18.7	0.3	DC**11T3...

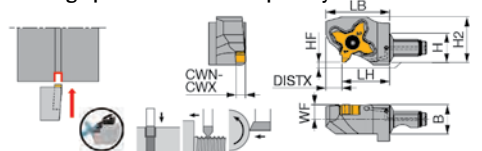
QC12-JSDJ2CR-Y-CHP

Y-axis turning modular head with 93° approach angle with high pressure coolant capability



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2CR11-Y-CHP	0.472	0.472	0.768	0	0.236	0.780	0.736	0.012	DC*T32.50.5...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2CR11-Y-CHP	12	12	19.5	0	6	19.8	18.7	0.3	DC**11T3...

QC12-STCR-Y-CHP Y-axis turning modular head for external grooving and threading with high pressure coolant capability

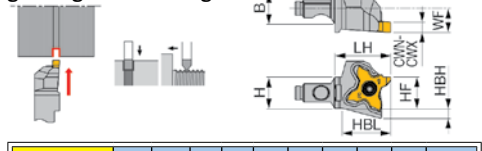


PART#: (Inch)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCR18-Y-CHP	0.113	0.118	0.472	0.472	0.768	0	0.236	1.024	0.732	0.256	TC*18R
PART#: (Metric)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCR18-Y-CHP	0.33	3	12	12	19.5	0	6	26	18.6	6.5	TC*18R

The right hand insert (R) is used for the right hand toolholder (R). Through coolant head

HOLDERS USING LEFT-HAND INSERTS TC*18L... QC12-STCL

Modular head for external grooving and threading

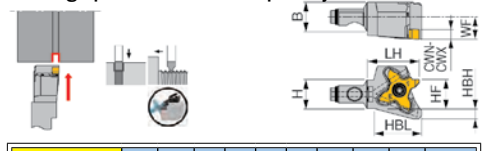


PART#: (Inch)	CWN	CWX	H	B	LH	HF	HBH	HBL	WF	Insert
QC12-STCL18	0.013	0.118	0.472	0.472	0.827	0.472	0.154	0.720	0.354	TC*18L
PART#: (Metric)	CWN	CWX	H	B	LH	HF	HBH	HBL	WF	Insert
QC12-STCL18	0.33	3	12	12	21	12	3.9	18.3	9	TC*18L

The left hand insert (L) is used for the left hand toolholder (L).

QC12-STCL-CHP

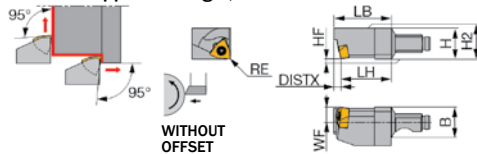
Modular head for external grooving and threading, with high pressure coolant capability



PART#: (Inch)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCL18-CHP	0.013	0.118	0.472	0.472	0.827	0.472	0.165	0.760	0.354	TC*18L	
PART#: (Metric)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCL18-CHP	0.33	3	12	12	21	12	4.2	19.3	9	TC*18L	

The left hand insert (L) is used for the left hand toolholder (L). Through coolant head

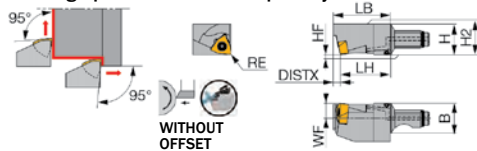
QC12-JSDJ2CR-Y Y-axis turning modular head with 95° approach angle, for WXGU inserts



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSWL2XR04-Y	0.472	0.472	0.768	0	0.236	0.878	0.472	0.110	WXGU220.5L...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSWL2XR04-Y	12	12	19.5	0	6	22.3	12	2.8	WXGU0403**L...

Use right-hand toolholders (R) with left-hand inserts (L).

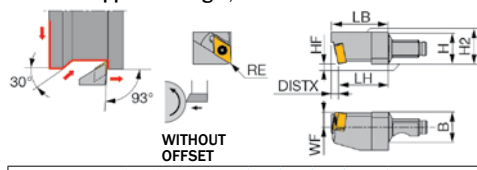
QC12-JSWL2XR-Y-CHP Y-axis turning modular head with 95° approach angle, for WXGU inserts, with high pressure coolant capability



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSWL2XR04-Y-CHP	0.472	0.472	0.768	0	0.236	0.878	0.472	0.110	WXGU220.5L...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSWL2XR04-Y-CHP	12	12	19.5	0	6	22.3	12	2.8	WXGU0403**L...

Use right-hand toolholders (R) with left-hand inserts (L). Through coolant head.

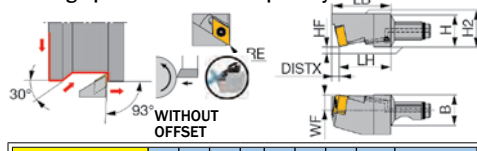
QC12-JSDJ2XR-Y Y-axis turning modular head with 93° approach angle, for DX*U inserts



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2XR07-Y	0.472	0.472	0.768	0	0.236	0.878	0.492	0.110	DX*U220.5L...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2XR07-Y	12	12	19.5	0	6	22.3	12.5	2.8	DX*U0703**L...

Use right-hand toolholders (R) with left-hand inserts (L).

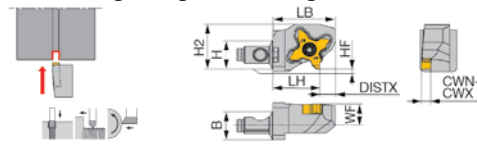
QC12-JSDJ2XR-Y-CHP Y-axis turning modular head with 93° approach angle, for DX*U inserts, with high pressure coolant capability



PART#: (Inch)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2XR07-Y-CHP	0.472	0.472	0.768	0	0.236	0.878	0.492	0.110	DX*U220.5L...
PART#: (Metric)	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-JSDJ2XR07-Y-CHP	12	12	19.5	0	6	22.3	12.5	2.8	DX*U0703**L...

Use right-hand toolholders (R) with left-hand inserts (L). Through coolant head

Y-axis turning modular heads using L.H. inserts for external grooving and threading



QC12-STCL-Y : without high pressure coolant hole

PART#: (Inch)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCL18-Y	0.013	0.118	0.472	0.472	0.768	0	0.354	1.024	0.732	0.256	TC*18L
PART#: (Metric)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCL18-Y	0.33	3	12	12	19.5	0	9	26	18.6	6.5	TC*18L

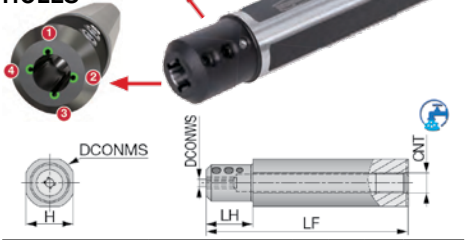
QC12-STCL-Y-CHP : with high pressure coolant hole

PART#: (Inch)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCL18-Y-CHP	0.013	0.118	0.472	0.472	0.768	0	0.354	1.024	0.732	0.256	TC*18L
PART#: (Metric)	CWN	CWX	H	B	LH	HF	WF	LB	H2	DISTX	Insert
QC12-STCL18-Y-CHP	0.33	3	12	12	19.5	0	9	26	18.6	6.5	TC*18L

Junglo TINY TURN MINIATURE CARBIDE BORING BARS

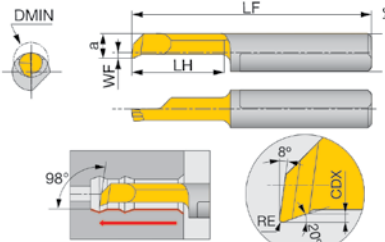
SLEEVES FOR INTERNAL COOLANT SUPPLY WITH 4 COOLANT HOLES

4 PERIPHERAL COOLING JETS



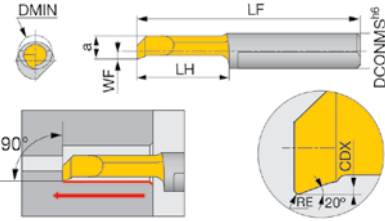
PART#:	DCONMS	DCONWS	LF	LH	H	CNT
JBBS12-4-L80C-4N	12	4	80	10	10.3	Rc1/16
JBBS127-4-L80C-4N	12.7	4	80	10	11.6	Rc1/16
JBBS14-4-L80C-4N	14	4	80	10	12	Rc1/8
JBBS159-4-L100C-4N	15.875	4	100	10	14.58	Rc1/8
JBBS159-7-L100C-4N	15.875	7	100	10	14.58	Rc1/8
JBBS16-4-L100C-4N	16	4	100	10	15	Rc1/8
JBBS16-7-L100C-4N	16	7	100	10	15	Rc1/8
JBBS19-4-L100C-4N	19.05	4	100	20	17.2	Rc1/8
JBBS19-7-L100C-4N	19.05	7	100	20	17.2	Rc1/8
JBBS20-4-L100C-4N	20	4	100	20	18	Rc1/8
JBBS20-7-L100C-4N	20	7	100	20	18	Rc1/8
JBBS22-4-L100C-4N	22	4	100	20	20	Rc1/8
JBBS22-7-L100C-4N	22	7	100	20	20	Rc1/8
JBBS25-4-L100C-4N	25	4	100	23	23	Rc1/8
JBBS25-7-L100C-4N	25	7	100	23	23	Rc1/8
JBBS25-4-L100C-4N	25.4	4	100	23	23.4	Rc1/8
JBBS25-7-L100C-4N	25.4	7	100	23	23.4	Rc1/8

Solid boring bar for boring, profiling and chamfering



PART#:	DMIN	DCONMS	WF	a	LF	LH	CDX	RE
TBTR04045005-D010	1	4	-1.1	0.9	21	4.5	0.1	0.05
TBTR04065005-D010	1	4	-1.1	0.9	23	6.5	0.1	0.05
TBTR04040005-D020	2	4	-0.3	1.7	20.5	4	0.1	0.05
TBTR04090005-D020	2	4	-0.3	1.7	25.5	9	0.1	0.05
TBTR04140005-D020	2	4	-0.3	1.7	30.5	14	0.1	0.05
TBTR/L04090010-D028	2.8	4	0.9	2.6	25.5	9	0.2	0.1
TBTR04150010-D028	2.8	4	0.9	2.6	31.5	15	0.2	0.1
TBTR04190010-D028	2.8	4	0.9	2.6	35.5	19	0.2	0.1
TBTR04090010-D040	4	4	1.5	3.5	25.5	9	0.3	0.1
TBTR04150010-D040	4	4	1.5	3.5	31.5	15	0.3	0.1
TBTR04190010-D040	4	4	1.5	3.5	35.5	19	0.3	0.1
TBTR04230010-D040	4	4	1.5	3.5	39.5	23	0.3	0.1
TBTR04270010-D040	4	4	1.5	3.5	43.5	27	0.3	0.1
TBTR07090015-D050	5	7	0.9	4.4	25	9	0.5	0.15
TBTR07140015-D050	5	7	0.9	4.4	30	14	0.5	0.15
TBTR07190015-D050	5	7	0.9	4.4	35	19	0.5	0.15
TBTR07240015-D050	5	7	0.9	4.4	40	24	0.5	0.15
TBTR07290015-D050	5	7	0.9	4.4	45	29	0.5	0.15
TBTR07340015-D050	5	7	0.9	4.4	50	34	0.5	0.15
TBTR07140015-D060	6	7	1.8	5.3	30	14	0.5	0.15
TBTR/L07210015-D060	6	7	1.8	5.3	37	21	0.5	0.15
TBTR07240015-D060	6	7	1.8	5.3	40	24	0.5	0.15
TBTR07290015-D060	6	7	1.8	5.3	45	29	0.5	0.15
TBTR07340015-D060	6	7	1.8	5.3	50	34	0.5	0.15
TBTR07410015-D060	6	7	1.8	5.3	57	41	0.5	0.15
TBTR07190015-D068	6.8	7	2.8	6.3	35	19	0.5	0.15
TBTR07240015-D068	6.8	7	2.8	6.3	40	24	0.5	0.15
TBTR07290015-D068	6.8	7	2.8	6.3	45	29	0.5	0.15
TBTR07340015-D070	7	7	2.8	6.3	50	34	0.5	0.15
TBTR07390015-D070	7	7	2.8	6.3	55	39	0.5	0.15
TBTR07440015-D070	7	7	2.8	6.3	60	44	0.5	0.15
TBTR07490015-D070	7	7	2.8	6.3	65	49	0.5	0.15

Solid boring bar for boring and chamfering

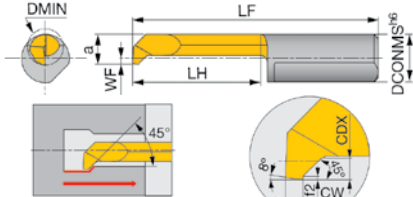


PART#:	DMIN	DCONMS	WF	a	LF	LH	CDX	RE
TBPR04090010-D028	2.8	4	0.9	2.6	25.5	9	0.2	0.1
TBPR04150010-D040	4	4	1.5	3.5	31.5	15	0.3	0.1
TBPR07140015-D050	5	7	0.9	4.4	30	14	0.5	0.15
TBPR07190015-D050	5	7	0.9	4.4	35	19	0.5	0.15

BUY 10 solid bars
AND
GET 1 sleeve
FREE of charge!

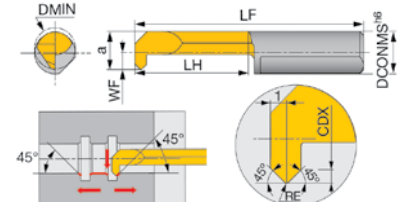
FREE of charge!
Promo code: TG137

Solid boring bar for back boring and chamfering



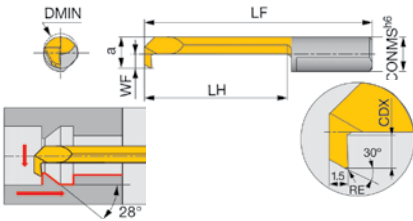
PART#:	DMIN	DCONMS	WF	a	LF	LH	f2	CDX	CW
TBUR07140020-D050	5	7	0.9	4.4	30	14	0.2	1	1
TBUR07190020-D050	5	7	0.9	4.4	35	19	0.2	1	1

Solid boring bar for boring and 45° chamfering



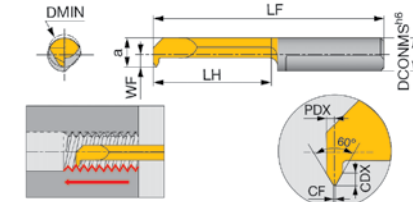
PART#:	DMIN	DCONMS	WF	a	LF	LH	CDX	RE
TBCR07140020-D050	5	7	0.9	4.4	30	14	0.7	0.2
TBCR07190020-D068	6.8	7	2.8	6.3	35	19	0.7	0.2

Solid boring bar for back boring



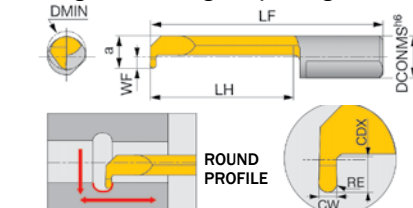
PART#:	DMIN	DCONMS	WF	a	LF	LH	CDX	RE
TBBR04140020-D030	3	4	0.6	2.6	30	14	0.5	0.2
TBBR04140015-D040	4	4	1.5	3.5	30	14	0.8	0.15
TBBR07190020-D050	5	7	0.9	4.4	35	19	1	0.2

Solid boring bar for threading (metric)



PART#:	Pitch	DMIN	CF	DCONMS	WF	a	LF	LH	CDX	PDX
TBTR04140050-D040	0.5	4	0.06	4	1.5	3.5	30	14	0.3	0.35
TBTR07140050-D050	0.5	5	0.06	7	0.9	4.4	30	14	0.3	0.35
TBTR07140075-D050	0.75	5	0.09	7	0.9	4.4	30	14	0.4	0.45
TBTR07140100-D048	1	4.8	0.12	7	0.9	4.4	30	14	0.6	0.55
TBTR07140100-D060	1	6	0.12	7	1.8	5.3	30	14	0.6	0.55
TBTR07140150-D060	1.5	6	0.18	7	1.8	5.3	30	14	0.8	0.75

Solid boring bar for boring and profiling

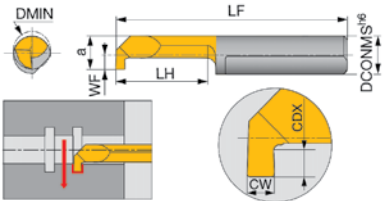


PART#:	CW	DMIN	DCONMS	WF	a	LF	LH	CDX	RE
TBRR07190050-D050	1	5	7	0.9	4.4	35	19	1	0.5
TBRR07240050-D060	1	6	7	1.8	5.3	40	24	1.8	0.5
TBRR07290050-D068	1	6.8	7	2.8	6.3	45	29	2.5	0.5



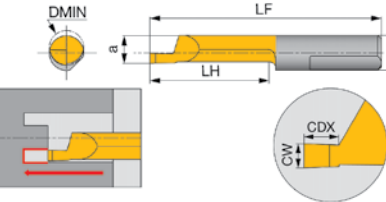
- Ideal for machining extremely small diameter bores in a wide range of materials.
- Carbide grade SH725 provides a good combination of wear and fracture resistance, ensuring long tool life and wear prediction.
- 3D chip breaker for better chip control.

Solid boring bar for internal grooving



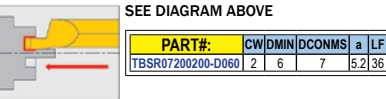
PART#:	CW	DMIN	DCONMS	WF	a	LF	LH	CDX
TBGR04100050-D020	0.5	2	4	-0.2	1.8	26	10	0.4
TBGR04090100-D040	1	4	4	1.5	3.5	25.5	9	0.8
TBGR04150100-D040	1	4	4	1.5	3.5	31.5	15	0.8
TBGR07090200-D050	2	5	7	0.9	4.4	25	9	1
TBGR07090100-D060	1	6	7	1.8	5.3	25	9	1.8
TBGR07140100-D060	1	6	7	1.8	5.3	30	14	1.8
TBGR07090150-D060	1.5	6	7	1.8	5.3	25	9	1.8
TBGR07090200-D060	2	6	7	1.8	5.3	25	9	1.8
TBGR07140200-D060	2	6	7	1.8	5.3	30	14	1.8
TBGR07090100-D068	1	6.8	7	2.7	6.2	25	9	2.5
TBGR07090150-D068	1.5	6.8	7	2.7	6.2	25	9	2.5
TBGR07140150-D068	1.5	6.8	7	2.7	6.2	30	14	2.5
TBGR07090200-D068	2	6.8	7	2.7	6.2	25	9	2.5
TBGR07140200-D068	2	6.8	7	2.7	6.2	30	14	2.5
TBGR07210200-D068	2	6.8	7	2.7	6.2	37	21	2.5
TBGR07290200-D068	2	6.8	7	2.7	6.2	45	29	2.5

Solid boring bar for face grooving



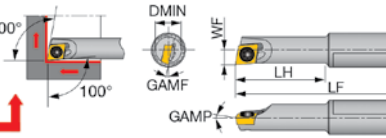
PART#:	CW	DMIN	DCONMS	a	LF	LH	CDX
TBFR07110100-D060	1	6	7	5.2	26	10	1.5
TBFR07110200-D060	2	6	7	5.2	26	10	3
TBFR07110100-D080	1	8	7	5.9	27	11	1.5
TBFR07110250-D080	2.5	8	7	5.9	27	11	3.5
TBFR07300300-D080	3	8	7	5.9	46	30	3.5
TBFR07200250-D150	2.5	15	7	5.9	36	20	20
TBFR07200300-D150	3	15	7	5.9	36	20	20
TBFR07300300-D150	3	15	7	5.9	46	30	30

Solid boring bar for face grooving (for shaft)



PART#:	CW	DMIN	DCONMS	a	LF	LH	CDX
TBFR07200200-D060	2	6	7	5.2	36	20	4

Screw on boring bar, for positive 75° rhombic inserts



PART#:	Material	DMIN	DCONMS	WF	LF	LH	GAMP	GAMF	Insert
A07050-SEXP03-3	Steel	5	7	2.5	31	15	0°	-13°	EPGT03X1...
A07060-SEXP04-3	Steel	6	7	3.1	34	18	0°	-12°	EPGT0401...
E07050-SEXP03-4	Carbide	5	7	2.5	37	20	0°	-13°	EPGT03X1...
E07050-SEXP03-5	Carbide	5	7	2.5	42	25	0°	-13°	EPGT03X1...
E07060-SEXP04-5	Carbide	6	7	3.1	46	30	0°	-12°	EPGT0401...

Screw on boring bar, for positive 75° rhombic inserts



PART#:	Material	DMIN	DCONMS	WF	LF	LH	f2	GAMP	GAMF	Insert
A07055-SEZPR03-3	Steel	5.5	7	3.2	32.5	16.5	12	0°	-8°	EPGT03X1...
E07055-SEZPR03-5	Carbide	5.5	7	3.2	44.7	27.5	12	0°	-8°	EPGT03X1...

Tungaloy DUOJUST

0.024" AND 0.031" WIDE PARTING INSERTS WITH PRESSED 3D CHIPBREAKER

ADD significant reduction of material waste for increased mass-production economy

BUY 20 inserts
AND
GET 1 holder

FREE
of charge!

Promo code: TG149

BUY 20 inserts
AND
GET 1 CHP holder at

40%
additional
discount!

Promo code: TG149



JXPS12**08F



JXPS06**06F

Innovative JXPS chipbreaker enables effective chip control

Inserts:
JXPS06R/L06F
CW = 0.024" (0.6 mm)
JXPS06R/L08F
CW = 0.031" (0.8 mm)
Grade:
SH725



JSXXR/L...



JSXXR/L**S...

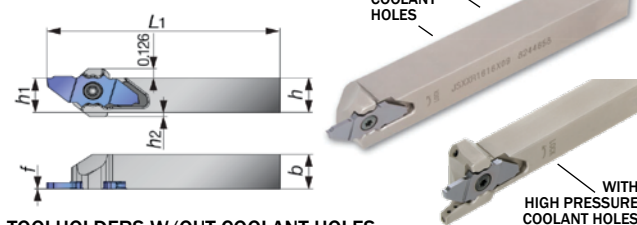
Toolholders:
JSXXR/L...
JSXXR/LS...**
JSXXR/LS-CHP**
JSXXR/LS-CHP**
H = 0.500", 0.625" (10, 12, 16 mm)

Tungaloy DUOJUST FOR AUTOMATIC LATHES

Small tools with insert containing 2 cutting edges, is excellent for parting miniature parts up to .629" (16mm) diameter.



TOOL HOLDERS



TOOLHOLDERS W/OUT COOLANT HOLES

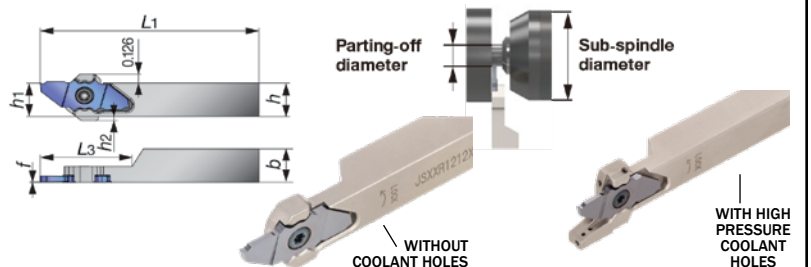
PART #	h	b	f	L1*	h1	h2	INSERT
JSXXR/L063	0.375	0.375	0.008	≤ 4.75	0.375	0.12	JXPG06,12,16, 20R/L
JSXXR/L083	0.500	0.500	0.006		0.500	0.06	JXPG06,12,16, 20R/L
JSXXR/L103	0.625	0.625			0.625	0.06	JXPG06,12,16, 20R/L

HOLDERS WITH HIGH PRESSURE COOLANT HOLES

PART #	h	b	f	L1	h1	h2	INSERT
JSXXR/L083X-CHP	0.500	0.500	0.008/0.492	4.750	0.500	0.051	JX*G06,12,16, 20
JSXXR/L103X-CHP	0.625	0.625	0.008/0.617	4.750	0.625	0	JX*G06,12,16, 20
JSXXR/L083F-CHP	0.500	0.500	0.008/0.492	3.344	0.500	0.051	JX*G06,12,16, 20



TOOL HOLDERS - FOR CUT-OFF IN SUB-SPINDLE



HOLDERS W/OUT COOLANT HOLES

PART #	h	b	f	L1*	L3*	h1	h2	INSERT
JSXXR/L063-S	0.375	0.375	0.008 / 0.217	≤ 4.75	≤ 1.03	0.383	0.12	JXPG06,12,16, 20R/L
JSXXR/L083-S	0.500	0.500				0.500	0.06	JXPG06,12,16, 20R/L

HOLDERS WITH HIGH PRESSURE COOLANT HOLES

PART #	h	b	L1	L3	h1	h2	INSERT
JSXXR/L083X-S-CHP	0.500	0.500	4.750	1.181	0.500	0.051	JXPG06,12,16, 20R/L
JSXXR/L103X-S-CHP	0.625	0.625	4.750	1.181	0.625	---	JXPG06,12,16, 20R/L
JSXXR/L083F-S-CHP	0.500	0.500	3.344	1.024	0.500	0.051	JXPG06,12,16, 20R/L

INSERTS • Right hand shown • Dmax: Max. parting off dia

INSERTS WITH CHIPBREAKER

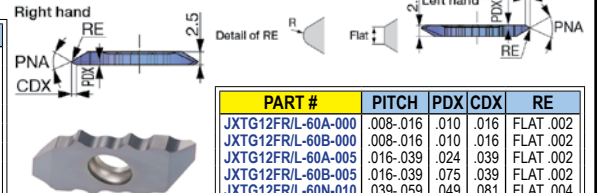
PART #	W	Dmax
JXPS06R/L06F	.024	.236
JXPS12R/L08F	.031	.472
JXPS12R/L10F	.039	.472
JXPS12R/L15F	.059	.472
JXPS16R/L15F	.059	.630
JXPS16R/L20F	.079	.787

INSERTS WITHOUT CHIPBREAKER

PART #	W	Dmax	θ
JXPG06R/L10F	.039	.236	
JXPG06R/L15F	.059	.236	
JXPG06R/L10F-15	.039	.236	15°
JXPG06R/L15F-15	.059	.236	15°
JXPG12R/L15F	.059	.472	
JXPG12R/L20F	.079	.472	
JXPG12R/L15F-15	.059	.472	15°
JXPG12R/L20F-15	.079	.472	15°

PART #	W	Dmax	θ
JXPG16R/L15F	.059	.630	
JXPG16R/L20F	.079	.630	
JXPG16R/L15F-15	.059	.630	15°
JXPG16R/L20F-15	.079	.630	15°
JXPG20R/L15F	.059	.787	
JXPG20R/L20F	.079	.787	
JXPG20R/L15F-15	.059	.787	15°
JXPG20R/L20F-15	.079	.787	15°

60° THREADING INSERTS



PART #	PITCH	PDX	CDX	RE
JXTG12FR/L-60A-000	.008-.016	.010	.016	FLAT .002
JXTG12FR/L-60B-000	.008-.016	.010	.016	FLAT .002
JXTG12FR/L-60A-005	.016-.039	.024	.039	FLAT .002
JXTG12FR/L-60B-005	.016-.039	.075	.039	FLAT .002
JXTG12FR/L-60N-010	.039-.059	.049	.081	FLAT .004

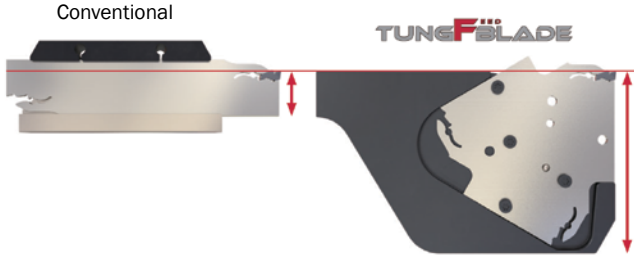


ADDF^{ORCUT}
TUNGF^{BLADE}

SUPERB STABILITY AND PRODUCTIVITY FOR DEEP GROOVING AND PARTING-OFF OPERATIONS

ADD highly rigid self-clamping system to improve productivity in deep grooving and parting-off operations

- With much thicker support than existing grooving blades, tool deflection and chatter are minimized even at higher feed rates



BUY 20 inserts
AND
GET 1 blade

BUY 10 inserts AND 1 block
AND
GET 1 blade

FREE of charge!

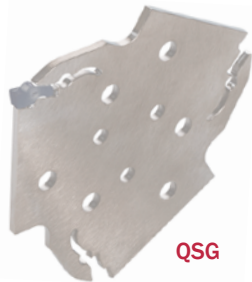
Promo code: **TG147**

FREE of charge!

Promo code: **TG148***

* not fulfillable on webshop, must call customer service

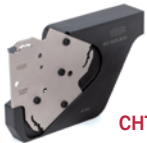
Blade:
QSG...
CW = .079" - .197"
(2 - 5 mm)
Max cut-off diameters:
CUTDIA = Ø2.047",
Ø3.228", Ø4.724"
(Ø52, Ø82, and Ø32mm)



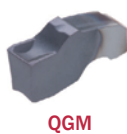
Block:
CHTBR/L
H = 0.75", 1.00", 1.25"
(20, 25, and 32mm)

Inserts:
QGM...
QGS
CW = .079" - .197" (2 - 5 mm)

Grade:
AH7025



CHTBR/L



QGM



QGS



QGM

The first choice chipbreaker for grooving and parting-off

INSERTS WITH AH7025 COATING

PART#:	Seat Size	CW±0.05	RE	AH7025	INSL	h
QGM2-020	2	0.079	0.008	•	0.433	0.209
QGM3-020	3	0.118	0.008	•	0.433	0.209
QGM4-030	4	0.157	0.012	•	0.512	0.287
QGM5-030	5	0.197	0.012	•	0.512	0.287

P	Steel	★
M	Stainless	★
K	Cast iron	★
N	Non-ferrous	★
S	Superalloys	★
H	Hard materials	

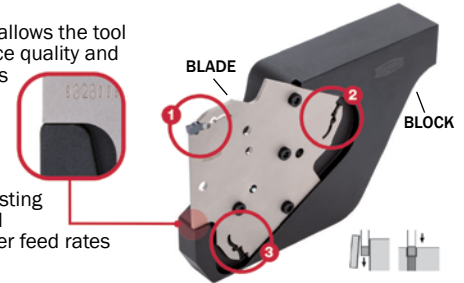
★ : First choice



QGS

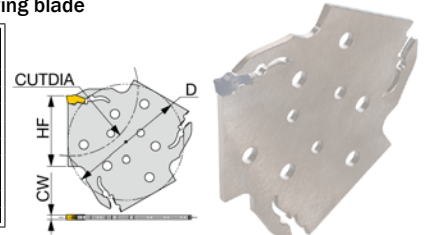
Sharp cutting edge for lower cutting force

- A thick support beneath the insert allows the tool to produce grooves with high surface quality and straightness at increased feed rates
- Economical blade with three insert pockets
- The block is clamped by contacting two surfaces for enhanced rigidity
- With much thicker support than existing grooving blades, tool deflection and chatter are minimized even at higher feed rates

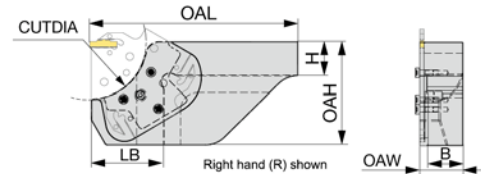
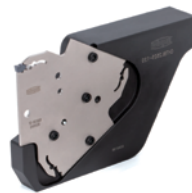


Parting-off and external grooving blade

PART#:	CW	Seat size	CUTDIA	HF	D
QSG52-2T	0.079	2	2.047	1.063	1.902
QSG82-2T	0.079	2	3.228	1.654	2.728
QSG52-3T	0.118	3	2.047	1.063	1.902
QSG82-3T	0.118	3	3.228	1.654	2.728
QSG120-3T	0.118	3	4.724	2.402	3.465
QSG52-4T	0.157	4	2.047	1.063	2.728
QSG82-4T	0.157	4	3.228	1.654	2.728
QSG120-4T	0.157	4	4.724	2.402	3.465
QSG120-5T	0.197	5	4.724	2.402	3.465



Tool block for OSG blade



PART#:	CUTDIA	H	B	OAL	OAH	OAW	LB
CHTBR/L12-52	2.047	0.750	0.770	4.000	1.970	1.000	1.457
CHTBR/L16-52	2.047	1.000	1.020	5.000	1.970	1.250	1.457
CHTBR/L12-82	3.228	0.750	0.770	5.500	2.950	1.000	2.087
CHTBR/L16-82	3.228	1.000	1.020	6.000	2.950	1.250	2.087
CHTBR/L16-120	4.724	1.000	1.020	6.500	3.940	1.250	2.638
CHTBR/L20-120	4.724	1.252	1.268	6.500	3.940	1.500	2.638

Tungaloy DOFTRI

BUY 10 inserts per pocket
up to max 50 inserts

AND
GET 1 cutter

FREE of charge!

Promo code: TG142

HIGH PERFORMANCE AND PROFITABILITY IN HIGH-FEED MILLING OPERATIONS

ADD more cutting edges per insert to your machining operations

Shank type:
EXWX03... (Short type)
DCX = $\varnothing 0.625'' - \varnothing 1.250''$
EXWX03L (Long type)**
DCX = $\varnothing 0.625'' - \varnothing 1.250''$



EXWX03...

Bore type:
TXWX03...
DCX = $\varnothing 1.50'' - \varnothing 2.00''$



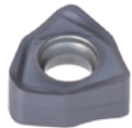
TXWX03...

Modular type:
HXWX03...
DCX = $\varnothing 16 - \varnothing 32$ mm



HXWX03...

Insert:
WXMU03-MM
APMX = 0.039"



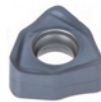
WXMU03-MM
Economical double-sided inserts with six cutting edges

Grades:
AH3225
AH8015

Tungaloy DOFTRI

HIGH FEED MILLING

- Large effective cutter diameter leaves less uncut material.
- Utilizing 6-corner double sided inserts
- Steep ramping capability makes the cutter ideal for pocketing and cavity milling applications.



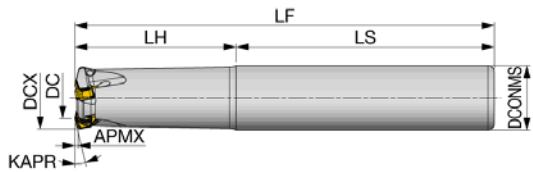
The cutter features a small approach angle, providing smooth access into the material, making it an ideal tool for long overhang setups.



EXWX03

HIGH FEED END MILLS WITH COOLANT HOLE

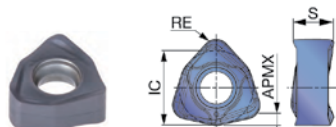
INDEXABLE END-MILLS



PART#:	DCX	DCONMS	DC	APMX	LS	LH	LF	KAPR	z*	Insert
EXWX03U0.62C0.62R02	0.625	0.625	0.3448	0.039	2.750	1.250	4.000	12°	2	WXMU03...
EXWX03U0.62C0.62R02L	0.625	0.625	0.3448	0.039	4.000	2.000	6.000	12°	2	WXMU03...
EXWX03U0.75C0.75R03	0.750	0.750	0.4645	0.039	3.000	2.000	5.000	12°	3	WXMU03...
EXWX03U0.75C0.75R03L	0.750	0.750	0.4645	0.039	3.000	3.500	6.500	12°	3	WXMU03...
EXWX03U1.00C1.00R04	1.000	1.000	0.7125	0.039	3.000	2.500	5.500	12°	4	WXMU03...
EXWX03U1.00C1.00R04L	1.000	1.000	0.7125	0.039	3.000	4.000	7.000	12°	4	WXMU03...
EXWX03U1.25C1.25R05	1.250	1.250	0.9606	0.039	3.000	3.000	6.000	12°	5	WXMU03...
EXWX03U1.25C1.25R05L	1.250	1.250	0.9606	0.039	3.000	5.000	8.000	12°	5	WXMU03...

z* = No. of inserts

INSERTS: WXMU0303-MM



PART#:	RE	APMX	IC	S
WXMU0303ZER-MM	0.047	0.039	.219	0.143

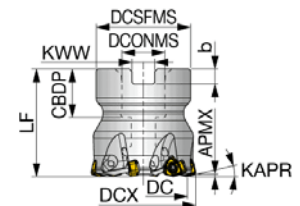
P	Steel	★	☆
M	Stainless	★	☆
K	Cast iron	☆	★
S	Superalloys	☆	★
H	Hard Materials	★	

★ First choice
☆ Second choice

AH3225	AH8015
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TXWX03

HIGH FEED CUTTERS WITH COOLANT HOLES

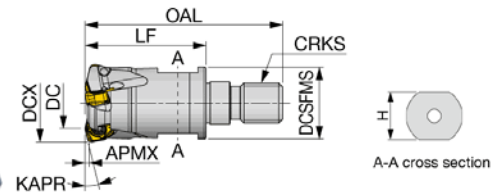


PART#:	DCX	DCONMS	DC	DCSFMS	APMX	CBDP	LF	b	KWW	KAPR	z*	Insert
TXWX03U1.50B0.50R05	1.500	0.500	1.217	1.457	0.039	0.630	1.575	0.157	0.258	12°	6	WXMU03...
TXWX03U2.00B0.75R08	2.000	0.750	1.713	1.693	0.039	0.750	1.969	0.197	0.315	12°	8	WXMU03...

z* = No. of inserts

HXWX03-M

TUNGFLEX MODULAR HIGH-FEED END MILL WITH COOLANT HOLES



PART#:	DCX	CRKS	DC	APMX	OAL	LF	H	DCSFMS	KAPR	z*	Insert
HXWX03M016M08R02	16	M8	8.9	1	42	25	10	12.8	12°	2	WXMU03...
HXWX03M020M10R03	20	M10	12.8	1	49	30	15	17.8	12°	3	WXMU03...
HXWX03M025M12R04	25	M12	17.8	1	57	35	17	20.8	12°	4	WXMU03...
HXWX03M032M16R05	32	M16	24.7	1	63	40	22	28.8	12°	5	WXMU03...

z* = No. of inserts



AH3225 GRADE FOR IMPROVED MACHINING EFFICIENCY AND ECONOMY

DOPENT

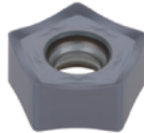
ADD long and predictable tool life with face milling cutters with economical 10 edged inserts

BUY 10 inserts per pocket
up to max 50 inserts

AND GET 1 cutter (up to 5" dia.)

FREE of charge!

Promo code: **TG145**



PNU09...**
Double sided pentagonal insert



TEN09R/L



EEN09...

AH3225 **P M** - CVD grade with high chipping and fracture resistance

- Nano multi-layer coating technology with three major properties for optimal cutting edge integrity
- Increased resistance to wear, fracture, oxidation, built-up edge, and delamination

PROMO INCLUDES

Inserts

PNMU09-MJ

APMX = 6.4mm

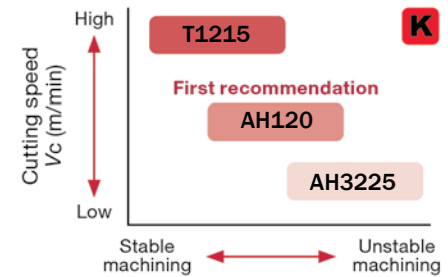
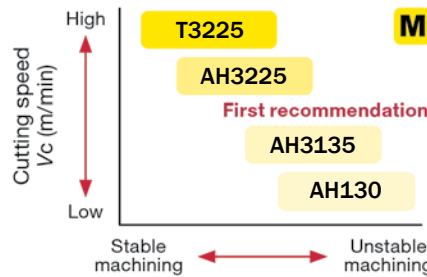
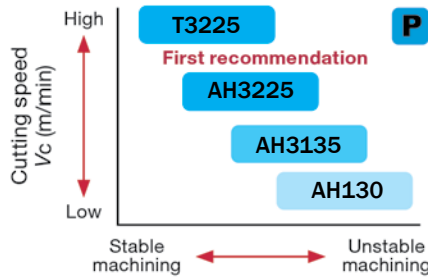
Grade:

AH3225

PNCU09-MJ/ML**

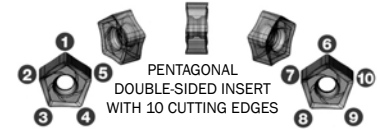
APMX= 6.4mm

APPLICATION AREAS

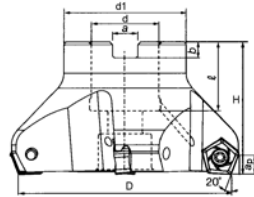


DOPENT MILLING CUTTERS

- High Feed Rate & Cutting Efficiency
- 10 Cutting Edges
- Increase Metal Removal by 50%



FACE MILLS

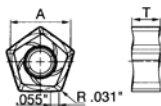
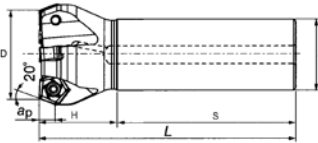


max. depth of cut: Max. ap = .250 in.

NOTE: 6" FACE MILLS ARE NOT ON PROMO

	PITCH	CUTTER	NO. OF INSERTS	D	d	d1	ℓ	H	b	a	WEIGHT (KG)	COOLANT HOLE
		TEN09R200U0075A03	3	2.00	0.75	1.69	0.75	1.57	0.20	0.31	.3	with
		TEN09R250U0075A04	4	2.50	0.75	1.69	0.75	1.57	0.20	0.31	.5	with
		TEN09R300U0100A04	4	3.00	1.00	1.97	1.02	1.97	0.24	0.37	.9	with
		TEN09R400U0150A05	5	4.00	1.50	3.15	1.38	1.97	0.39	0.63	1.3	with
		TEN09R500U0150A06	6	5.00	1.50	3.15	1.46	2.48	0.39	0.63	2.6	with
		TEN09R600U0200A07	7	6.00	2.00	3.94	1.50	2.48	0.43	0.75	4.4	without
		TEN09R200U0075A04	4	2.00	0.75	1.69	0.75	1.57	0.20	0.31	.3	with
		TEN09R250U0075A06	6	2.50	0.75	1.69	0.75	1.57	0.20	0.31	.5	with
		TEN09R300U0100A07	7	3.00	1.00	1.97	1.02	1.97	0.24	0.37	.9	with
		TEN09R400U0150A08	8	4.00	1.50	3.15	1.38	1.97	0.39	0.63	1.3	with
		TEN09R500U0150A10	10	5.00	1.50	3.15	1.46	2.48	0.39	0.63	2.7	with
		TEN09R600U0200A12	12	6.00	2.00	3.94	1.50	2.48	0.43	0.75	4.7	without
		TEN09R200U0075A06	6	2.00	0.75	1.69	0.75	1.57	0.20	0.31	.3	with
		TEN09R250U0075A08	8	2.50	0.75	1.69	0.75	1.57	0.20	0.31	.5	with
		TEN09R300U0100A10	10	3.00	1.00	1.97	1.02	1.97	0.24	0.37	.9	with
		TEN09R400U0150A12	12	4.00	1.50	3.15	1.38	1.97	0.39	0.63	1.4	with
		TEN09R500U0150A16	16	5.00	1.50	3.15	1.46	2.48	0.39	0.63	2.9	with
		TEN09R600U0200A20	20	6.00	2.00	3.94	1.50	2.48	0.43	0.75	4.9	without

INDEXABLE END-MILLS WITH COOLANT HOLES



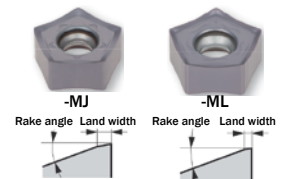
MJ (General)
ML (General)

CUTTER	D	d	S	H	L	NO. OF INSERT
EEN09R125U0125W03	1.25	1.25	2.28	1.50	3.78	3
EEN09R150U0125W04	1.50	1.25	2.28	2.00	4.28	4

INSERTS

- Pentagonal double sided insert. Economical corner unit price.
- 30% tool cost reduction compared to conventional four edge insert

CHIP-BREAKERS



INSERT	DIMENSIONS (in)		APPLICATION
	A	T	
PNCU0905GNER-MJ	.480	.232	For general purpose, C class, Double sided pentagonal insert. Suitable for steels and cast iron.
PNCU0905GNEN-MJ	.480	.236	For low cutting force and low thrust force, C class, Neutral geometry, Double sided pentagonal insert. Can be used on Right and Left hand cutters.
PNCU0905GNEN-MJ	.480	.236	For general purpose, M class, Neutral geometry, Double sided pentagonal insert. Suitable for steels and cast iron. Can be used on Right and Left hand cutters.
PNCU0905GNEN-ML	.480	.235	For low cutting force and low thrust force, C class, Neutral geometry, Double sided pentagonal insert. Can be used on Right and Left hand cutters.

ADD FEED

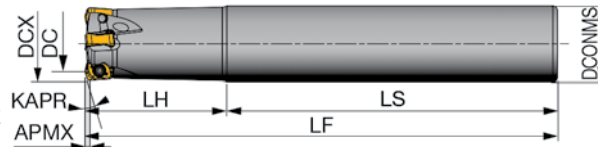
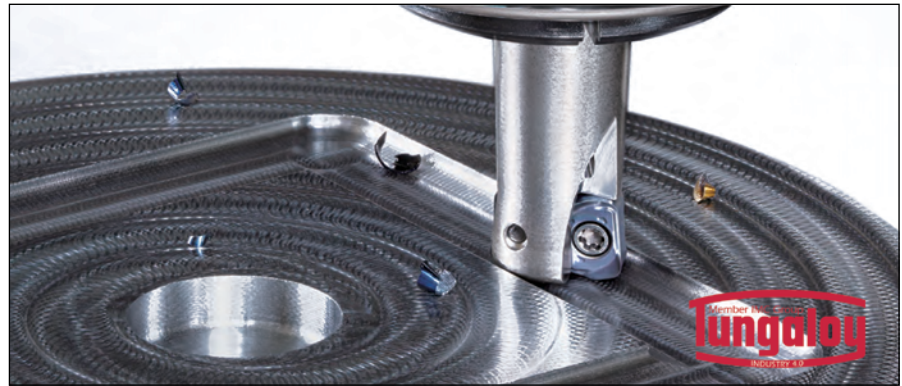
HIGH FEED MILLING - SMALL DIAMETER SOLUTION

Highly successful DoFeed series now available in smaller 8 mm (.375") diameter milling cutter. AddDoFeed double sided negative insert features a large rake angle with optimal inclination that allows good chip control and smooth chip evacuation.

BUY 10 inserts per pocket
AND
GET 1 cutter
Maximum purchase of 50 inserts required

FREE
of charge!

Promo code: TG114



• WITH COOLANT HOLE

EXN02, EXN02...L

High feed endmill, shank type, for 4-corner double sided inserts

GAMP: Rake angle axial = +6°
GAMF: Rake angle radial = +5° - +11°

PART#:	APMX	DCX	z*	DC	DCONMS	LF	LH	LS	KAPR	WT (lb)	Insert
EXN02R037U0037-01	0.020	0.375	1	0.212	0.375	3.000	0.750	2.250	17°	0.090	LNMU02...
EXN02R037U0037-01L	0.020	0.375	1	0.212	0.375	3.500	1.250	2.250	17°	0.090	LNMU02...
EXN02R050U0050-02	0.020	0.500	2	0.335	0.500	3.000	0.750	2.250	17°	0.150	LNMU02...
EXN02R050U0050-02L	0.020	0.500	2	0.335	0.500	4.250	2.000	2.250	17°	0.200	LNMU02...
EXN02R062U0062-03L	0.020	0.625	3	0.460	0.625	4.500	2.000	2.500	17°	0.330	LNMU02...
EXN02R062U0062-04	0.020	0.625	4	0.460	0.625	4.000	1.500	2.500	17°	0.310	LNMU02...
EXN02R075U0075-04L	0.020	0.750	4	0.585	0.750	6.500	3.500	3.000	17°	0.640	LNMU02...
EXN02R075U0075-05	0.020	0.750	5	0.585	0.750	5.000	2.000	3.000	17°	0.510	LNMU02...
EXN02R100U0100-06L	0.020	1.000	6	0.835	1.000	7.000	4.000	3.000	17°	1.280	LNMU02...
EXN02R100U0100-07	0.020	1.000	7	0.835	1.000	5.500	2.500	3.000	17°	1.040	LNMU02...

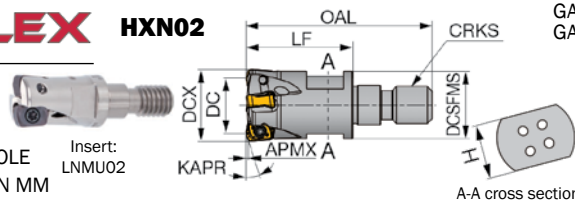
z* = No. of inserts

TUNGFLEX HXN02

High feed endmill, modular type (TungFlex)

• WITH COOLANT HOLE

DIMENSIONS SHOWN IN MM

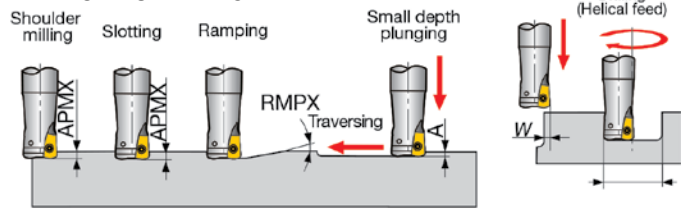


GAMP = +6°
GAMF = +5° - +11°

PART#:	APMX	DCX	z*	DC	DCSFMS	OAL	LF	H	KAPR	CRKS
HXN02R008MM06-01	0.5	8	1	3.95	9.5	33.5	19	7	17°	M6
HXN02R010MM06-02	0.5	10	2	5.85	9.5	31.5	17	7	17°	M6
HXN02R012MM06-02	0.5	12	2	7.8	10	31.5	17	7	17°	M6
HXN02R016MM08-04	0.5	16	4	11.8	14.5	40	23	10	17°	M8
HXN02R020MM10-05	0.5	20	5	15.8	17.8	49	30	15	17°	M10
HXN02R025MM12-07	0.5	25	7	20.8	23	52	30	17	17°	M12

z* = No. of inserts

APPLICATION RANGE

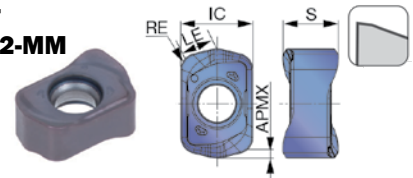


APMAX = MAX. DEPTH OF CUT
RMPX = MAX. RAMPING ANGLE
A = MAX. PLUNGING DEPTH
W = MAX. CUTTING WIDTH IN PLUNGING

D1 = MIN. MACHINING
D2 = MAX. MACHINING
ae = MAX CUTTING WIDTH IN ENLARGED HOLES

PART#:	DCX	APMX	RMPX	A	W	øD1	øD2	ae
EXN02R037U...	0.375	0.020	3.100	0.006	0.079	0.509	0.635	0.289
EXN02R050U...	0.500	0.020	1.780	0.006	0.079	0.760	0.886	0.413
EXN02R062U...	0.625	0.020	1.230	0.006	0.079	1.011	1.137	0.539
EXN02R075U...	0.750	0.020	0.950	0.006	0.079	1.262	1.388	0.664
EXN02R100U...	1.000	0.020	0.640	0.006	0.079	1.756	1.882	0.913

INSERT LNMU02-MM

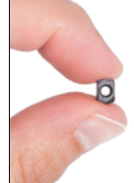


PART#:	IC	S	RE	APMX	LE
LNMU0202ZER-MM	0.157	0.122	0.035	0.020	0.070

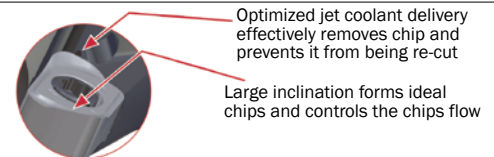
CARBIDE GRADES APPLICATIONS

	AH130	AH3225	AH8015
P Steel		★	☆
M Stainless	★	☆	
K Cast iron		☆	★
N Non-ferrous			
S Superalloys	★		★
H Hard Materials		☆	★

• Alternative to solid carbide end-mills.
• Higher efficiency and cost saving



★ First choice
☆ Second choice



STANDARD CUTTING CONDITIONS

ISO	Workpiece materials	Hardness	Priority	Grades	Cutting speed vc (sfm)	Feed per tooth fz (ipt)
P	Carbon steels 1045, 1055, etc.	- 300HB	First choice	AH3225	330-980	0.008-0.047
		- 300HB	For wear resistance	AH8015	330-980	0.008-0.047
	Alloy steels 4140, etc.	- 300HB	First choice	AH3225	330-980	0.008-0.047
		- 300HB	For wear resistance	AH8015	330-980	0.008-0.047
	Prehardened steels NAK80, PX5, etc.	30-40HRC	First choice	AH8015	330-660	0.008-0.031
		30-40HRC	For impact resistance	AH3225	330-660	0.008-0.031
M	Stainless steels 304SS, etc.	- 200HB	First choice	AH130	330-490	0.008-0.031
K	Gray cast irons class25, etc.	150-250HB	First choice	AH8015	330-980	0.008-0.047
		150-250HB	For impact resistance	AH3225	330-980	0.008-0.047
	Ductile cast irons 80-50-06, etc.	150-250HB	First choice	AH8015	260-660	0.008-0.047
S	Titanium alloy Ti-6Al-4V, etc.	- 40HRC	First choice	AH130	100-200	0.008-0.028
		- 40HRC	For wear resistance	AH8015	100-200	0.008-0.028
	Heat resistant alloy Inconel, Hastelloy, etc.	- 40HRC	First choice	AH8015	70-160	0.004-0.012
H	Hardened steel H13, etc.	40-50HRC	First choice	AH8015	260-490	0.004-0.020
		40-50HRC	For impact resistance	AH3225	260-490	0.004-0.020
	D2, etc.	50-60HRC	First choice	AH8015	160-230	0.004-0.012



TUNG F^{ORCE} REC SHOULDERS MILLING CUTTERS

• INSERTS WITH UNIQUE V-SHAPED BOTTOM FOR MAXIMUM RIGIDITY

The use of unique V shaped bottom inserts enables the cutter to have higher tool rigidity and carry a greater number of inserts compared with conventional milling cutters.

2 PROMOS FOR 2 INSERT SIZES

-04 INSERT PROMO

BUY 10 inserts per pocket
up to max 50 inserts

AND
GET 1 cutter

FREE
of charge!

Promo code: TG143



-12 INSERT PROMO

BUY 10 inserts per pocket

AND
GET 1 cutter

FREE
of charge!

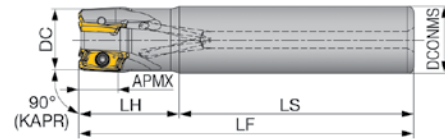
Maximum purchase of 50 inserts required

Promo code: TG117

INDEXABLE END-MILLS

High-end square shoulder endmill

- With coolant holes



EPAV04 - Small diameters (sizes in mm)

PART#:	DC	DCONMS	APMX	LS	LH	LF	z*	Insert
EPAV04M006C06.0R01	6	6	4	48	12	60	1	AVMT04...
EPAV04M008C08.0R02	8	8	4	48	12	60	2	AVMT04...
EPAV04M008C08.0R02L	8	8	4	60	20	80	2	AVMT04...
EPAV04M010C10.0R02	10	10	4	60	20	80	2	AVMT04...
EPAV04M010C10.0R03	10	10	4	60	20	80	3	AVMT04...
EPAV04M010C10.0R02L	10	10	4	65	35	100	2	AVMT04...
EPAV04M012C12.0R03	12	12	4	60	20	80	3	AVMT04...
EPAV04M012C12.0R04	12	12	4	60	20	80	4	AVMT04...
EPAV04M012C12.0R03L	12	12	4	85	35	120	3	AVMT04...
EPAV04M016C16.0R04	16	16	4	70	20	90	4	AVMT04...
EPAV04M016C16.0R05	16	16	4	70	20	90	5	AVMT04...
EPAV04M016C16.0R04L	16	16	4	105	35	140	4	AVMT04...

* z = No. of inserts

EPAV12 - Standard sizes - Inch

PART#:	APMX	DC	DCONMS	LS	LH	LF	WT (lb)	z*	Insert
EPAV12U0.62W0.62R03	0.453	0.625	0.625	1.906	1.000	2.906	0.220	3	AVM/GT12...
EPAV12U0.75W0.75R04	0.453	0.750	0.750	2.031	1.250	3.281	0.330	4	AVM/GT12...
EPAV12U1.00W1.00R06	0.453	1.000	1.000	2.281	1.500	3.781	0.710	6	AVM/GT12...
EPAV12U1.25W1.25R08	0.453	1.250	1.250	2.281	1.500	3.781	1.150	8	AVM/GT12...
EPAV12U0.62C0.62R02L	0.453	0.625	0.625	4.250	1.500	5.750	0.440	2	AVM/GT12...
EPAV12U0.75C0.75R03L	0.453	0.750	0.750	5.250	2.000	7.250	0.790	3	AVM/GT12...
EPAV12U1.00C1.00R03L	0.453	1.000	1.000	5.750	2.750	8.500	1.650	3	AVM/GT12...
EPAV12U1.25C1.25R03L	0.453	1.25	1.250	7.000	3.000	10.000	3.150	3	AVM/GT12...

* z = No. of inserts

Clamping screw: CSPB=2.5S

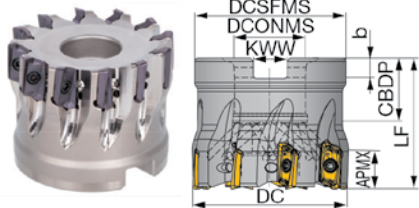
Wrench: 3-8D

FACE MILLS



High-end square shoulder mill

- With coolant holes



TPAV12 - DIMENSIONS SHOWN IN INCHES

* z = No. of inserts

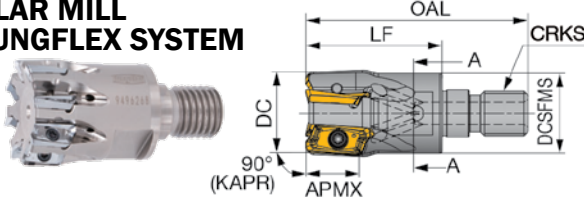
PART#:	APMX	DC	DCSFMS	DCONMS	CBBDP	LF	KWV	z*	INSERT
TPAV12U2.00B0.75R12	0.453	2.000	1.772	0.750	0.750	1.575	0.315	12	AVM/GT12...

TPAV12 - DIMENSIONS SHOWN IN MM

PART#:	APMX	DC	DCSFMS	DCONMS	CBBDP	LF	KWV	z*	INSERT
TPAV12M050B22.0R08	11.5	50	47	22	20	40	10.4	8	AVM/GT12...
TPAV12M050B22.0R12	11.5	50	47	22	20	40	10.4	12	AVM/GT12...
TPAV12M063B22.0R08	11.5	63	47	22	20	40	10.4	8	AVM/GT12...
TPAV12M063B22.0R14	11.5	63	47	22	20	40	10.4	14	AVM/GT12...

MODULAR MILL FITS TUNGFLEX SYSTEM

- With coolant holes



HPAV12-M - DIMENSIONS SHOWN IN MM

* z = No. of inserts

PART#:	DC	z*	OAL	LF	H	DCSFMS	CRKS
HPAV12M016M08R02	16	2	42	25	10	14.5	M8
HPAV12M016M08R03	16	3	42	25	10	14.5	M8
HPAV12M020M10R03	20	3	49	30	15	17.8	M10
HPAV12M020M10R04	20	4	49	30	15	17.8	M10
HPAV12M025M12R04	25	4	57	35	17	23	M12
HPAV12M025M12R06	25	6	57	35	17	23	M12
HPAV12M032M16R06	32	6	63	40	22	28.8	M16
HPAV12M032M16R08	32	8	63	40	22	28.8	M16
HPAV12M040M16R06	40	6	63	40	22	28.8	M16
HPAV12M040M16R08	40	8	63	40	22	28.8	M16



INSERTS AV...04 AV...12



AVMT0-MM

Single-sided, insert with 2 cutting edges for general purpose

AVGT0-AM

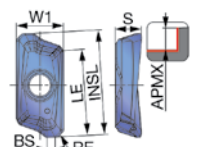
Single-sided, insert with 2 cutting edges for non-ferrous materials

CARBIDE GRADE APPLICATION

		Coated				Carbide
		AH120	AH130	AH3225	T1215	
★ First choice		★	★			
☆ Second choice				★		
P	Steel	★	★		☆	
M	Stainless		★	★		☆
K	Cast iron	★			☆	
N	Non-ferrous					★
S	Superalloys	★	★	★		
H	Hard Materials	★				

(1) For AV...04 use AH120. For AV...06, use AH130. For AV...12 use AH120 or AH3225.

PART#:	W1	INSL	S	BS	LE	RE	APMX
AVMT040204PPER-MM	0.138	0.238	0.083	0.039	0.173	0.016	0.157
AVMT040208PPER-MM	0.138	0.238	0.083	0.024	0.173	0.031	0.157
AVMT120404PDER-MM	0.260	0.559	0.142	0.059	0.465	0.016	0.453
AVMT120408PDER-MM	0.260	0.559	0.142	0.043	0.465	0.031	0.453
AVMT120412PDER-MM	0.260	0.559	0.142	0.028	0.465	0.047	0.453
AVMT120416PDER-MM	0.260	0.559	0.142	0.012	0.465	0.063	0.453
AVMT120420PDER-MM	0.260	0.500	0.134	0.047	0.437	0.079	0.413
AVMT120430PDER-MM	0.260	0.500	0.134	0.008	0.437	0.118	0.413
AVGT120404PDFR-AM	0.260	0.559	0.142	0.059	0.465	0.016	0.453
AVGT120408PDFR-AM	0.260	0.559	0.142	0.043	0.465	0.031	0.453





TUNG-TRI

BUY 10 inserts per pocket

AND GET 1 cutter

Maximum purchase of 50 inserts required

FREE of charge!

Promo code: TG115



INCLUDED IN THE PROMO



TOMT04-MM

Single-sided, 3 cornered insert with MM chipbreaker

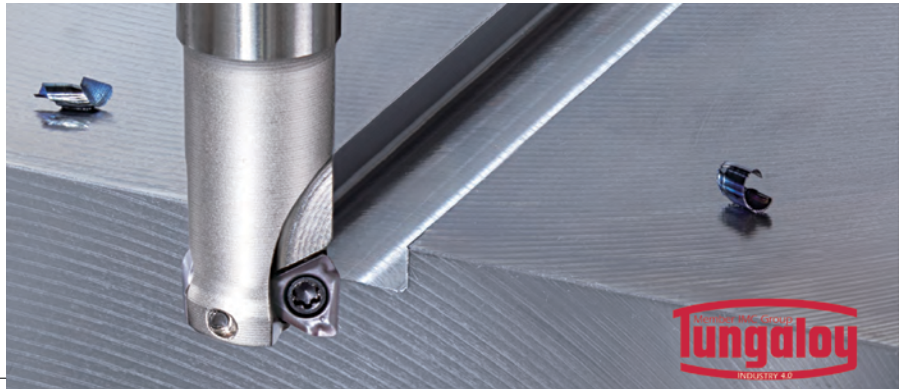
Insert:
TOMT04-MM (AH3225, AH8015, AH120)
Max.ap = 3.5 mm (.138")
RE = 0.4, 0.8mm (.0157", .0315")

CUTTERS:

EPA04R... (Short type)
DC = ø8 ~ ø25mm
EPA04R**L... (Long type)
DC = ø10 ~ ø25mm

EXTREMELY COST-EFFICIENT SHOULDER MILL SERIES UNVEILS CUTTERS IN SMALLER DIAMETERS THAN EVER BEFORE

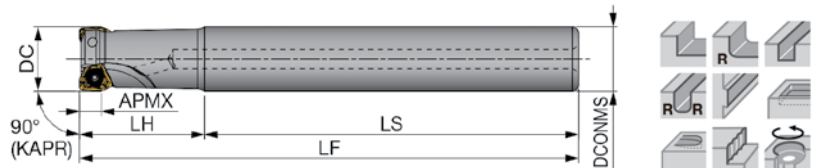
Tung-Tri 04 boasts an innovative insert geometry, featuring a super high rake for a small diameter cutter, which significantly reduces cutting forces while eliminating chatter and edge chipping.



EPA04 High precision square shoulder endmill WITH COOLANT HOLES



DIMENSIONS SHOWN IN MM



GAMP: Rake angle axial = +12.1° ~ +12.2°
GAMF: Rake angle radial = -14.2° ~ -18.3°

PART#:	APMX	DC	z*	DCONMS	LS	LH	LF	WT (kg)	Insert
EPA04R008M08.0-01	3.5	8	1	8	48	12	60	0.02	TOMT04...
EPA04R010M10.0-02	3.5	10	2	10	60	20	80	0.04	TOMT04...
EPA04R010M10.0-02L	3.5	10	2	10	65	35	100	0.05	TOMT04...
EPA04R012M12.0-02	3.5	12	2	12	60	20	80	0.06	TOMT04...
EPA04R012M12.0-03	3.5	12	3	12	60	20	80	0.06	TOMT04...
EPA04R012M12.0-02L	3.5	12	2	12	85	35	120	0.09	TOMT04...
EPA04R016M16.0-03	3.5	16	3	16	70	20	90	0.12	TOMT04...
EPA04R016M16.0-04	3.5	16	4	16	70	20	90	0.12	TOMT04...
EPA04R016M16.0-03L	3.5	16	3	16	105	35	140	0.19	TOMT04...
EPA04R020M20.0-04	3.5	20	4	20	70	30	100	0.21	TOMT04...
EPA04R020M20.0-05	3.5	20	5	20	70	30	100	0.21	TOMT04...
EPA04R020M20.0-04L	3.5	20	4	20	165	35	200	0.44	TOMT04...
EPA04R025M25.0-05	3.5	25	5	25	80	35	115	0.39	TOMT04...
EPA04R025M25.0-06	3.5	25	6	25	80	35	115	0.39	TOMT04...
EPA04R025M25.0-04L	3.5	25	4	25	160	40	200	0.7	TOMT04...

* z = No. of inserts

SPARE PARTS

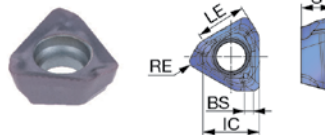
Designation	Clamping screw	Wrench
EPA04R008M08.0-01	CSPB-1.8L3.3	IP-6DB
EPA04R010 - 025...	CSPB-1.8L3.6	IP-6DB

*Recommended clamping torque (Nm) : CSPB-1.8L3.3/CSPB-1.8L3.6 = 0.5

CARBIDE GRADE APPLICATION

		AH3225	AH120	AH8015
★ First choice		★	★	
☆ Second choice				★
P	Steel	★	★	
M	Stainless	★		
K	Cast iron		★	
N	Non-ferrous			
S	Superalloys	★		★
H	Hard Materials			★

INSERTS TOMT-MM



APMX = MAX DEPTH OF CUT

PART#:	IC	S	BS	APMX	RE	LE
TOMT040204PXER-MM	4	2.2	0.6	3.5	0.4	3.6
TOMT040208PXER-MM	4	2.2	0.2	3.5	0.8	3.6

STANDARD CUTTING CONDITIONS

ISO	Workpiece materials	Hardness	Grades	Cutting speed vc (m/min)	Feed per tooth fz (mm/t)	
P	Low carbon steel SS400, S15C, etc. E275A, C15E4, etc.	- 200 HB	AH3225	100 - 250	0.05 - 0.12	
	Carbon steel and alloy steel S55C, SCM440, etc. C55, 42CrMo4, etc.	- 300 HB	AH3225	100 - 230	0.05 - 0.12	
	Prehardened steel NAK80, PX5, etc.	30 - 40 HRC	AH3225	100 - 180	0.05 - 0.1	
M	Stainless steel SUS304, etc. X5CrNi18-9, etc.	-	AH3225	90 - 200	0.05 - 0.1	
K	Grey cast iron FC250, etc. 250, etc., GG25, etc.	150 - 250 HB	AH120	100 - 300	0.05 - 0.12	
	Ductile cast iron FCD450, etc. 450-10S, etc., GGG45, etc.	150 - 250 HB	AH120	100 - 200	0.05 - 0.12	
S	Titanium alloys Ti-6Al-4V, etc.	-	AH3225	20 - 60	0.04 - 0.07	
	Heat-resistant alloys Inconel 718, etc.	-	AH8015	20 - 40	0.04 - 0.07	
H	Hardened steel	SKD61, etc. X40CrMoV5-1, etc.	40 - 50 HRC	AH8015	50 - 150	0.04 - 0.07
		SKD11, etc. X153CrMoV12, etc.	50 - 60 HRC	AH8015	40 - 70	0.04 - 0.07

TUNG-TRI 04

Lighter cutting and better chip control of broader application range



12° rake

Light cutting geometry with high rake angle

Large wiper radius provides improved surface quality



Large radius wiper

GRADES

AH3225 P M S

- Nano multi-layer coating technology with three major properties for optimal cutting edge integrity
- Increased resistance to wear, fracture, oxidation, built-up edge, and delamination

AH120 P K

- PVD grade with a well-balanced wear and fracture resistance
- Ideal for general machining of steel and stainless steel

AH8015 H S

- Incorporates a hard coating layer and carbide substrate
- Strong resistance to wear, heat, and built-up edge, ideal for machining hard or difficult materials



DOFTR

MILLING CUTTERS WITH DOUBLE SIDED TRIANGULAR INSERTS

The insert features 6 cutting edges with cutting edge full usable length for larger depth of cut up to 0.433" (11 mm)

LATEST AH3225 GRADE MAXIMIZES YOUR PRODUCTIVITY AND PROFITS IN SHOULDER MILLING

BUY 10 inserts per pocket
up to max 50 inserts

AND GET 1 cutter

FREE of charge!

Promo code: TG144

Inserts

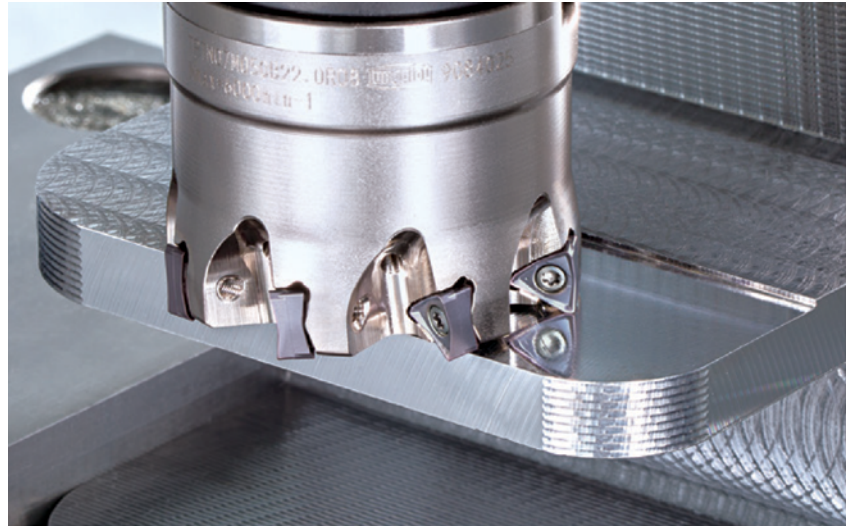
TN MU07 - MJ**
APMX = 0.256" (6.5 mm)
TN MU12 - MJ / NMJ**
APMX = 0.433" (11 mm)
TN MU12 R** - MJ**
APMX = 0.433" (11 mm)
TN GU12 R** - MJ**
APMX = 0.433" (11 mm)
Grade:
AH3225

Face Milling Cutters

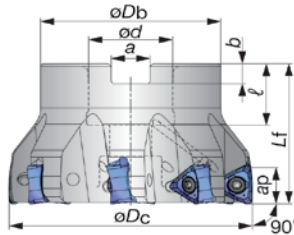
TPTN07...
DC = $\varnothing 2.00"$ ($\varnothing 40, \varnothing 50$) mm
TPTN12...
DC = $\varnothing 2.00"$ - $\varnothing 5.00"$ ($\varnothing 50 - \varnothing 125$ mm)

Indexable Milling Cutters

EPTN07... (Short type)
DC = $\varnothing 0.75"$ - $\varnothing 1.25"$ ($\varnothing 18 - \varnothing 32$ mm)
EPTN07 L** (Long type)
DC = $\varnothing 0.787"$, $\varnothing 1.00"$ ($\varnothing 20, \varnothing 25$ mm)
EPTN12...
DC = $\varnothing 1.25"$ - $\varnothing 1.50"$ ($\varnothing 32, \varnothing 40$ mm)



90° FACE MILLS



TPTN

TPTN07 (USE INSERT: TN MU070308PER-MJ)

PART #	Dc	d	MAX. ap	Db	Lf	l	a	b	INSERT
TPTN07U2.00B0.75R08	2.000	.750	.256	1.850	1.575	.750	.315	.197	TN MU120708PER-MJ

When using corner radius R0.4 (0.0157") inserts, add 0.22 mm (0.0087") to the LF and LH dimensions.

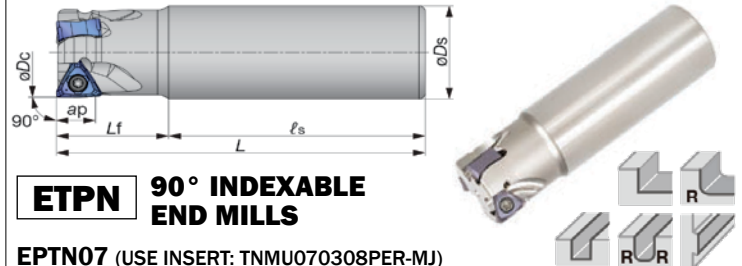
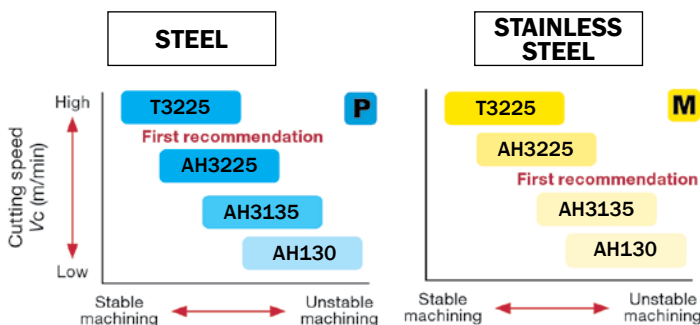
TPTN12 (USE INSERT: TN MU120708PER-MJ)

PART #	Dc	d	MAX. ap	Db	Lf	l	a	b	INSERT	z
TPTN12U2.00B0.75R05	2.000	0.750		1.850	1.575	0.750	0.315	0.197	TN U12	5
TPTN12U2.50B0.75R06	2.500									6
TPTN12U3.00B1.00R08	3.000	1.000	0.433	2.835	1.969	1.024	0.374	0.236		8
TPTN12U4.00B1.50R10	4.000	1.500		3.150	2.480	1.181	0.626	0.394		10
TPTN12U5.00B1.50R12	5.000									12

Chipbreaker edge geometries:

MJ: General chipbreaker for all materials
NMJ: Cutting edge with chip splitter suitable for long overhang application

GRADE APPLICATION



EPTN 90° INDEXABLE END MILLS

EPTN07 (USE INSERT: TN MU070308PER-MJ)

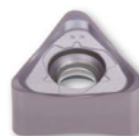
PART #	Dc	d	MAX. ap	Ls	Lf	L	z	INSERT
EPTN07U0.75C0.75R02	.7500	.750	.256	2.500	1.000	3.500	2	TN MU070308PER-MJ
EPTN07U0.75C0.75R02L	.7500	.750	.256	4.750	1.670	6.420	2	
EPTN07U1.00C1.00R03	1.0000	1.000	.256	3.000	1.500	4.500	3	
EPTN07U1.00C1.00R03L	1.0000	1.000	.256	5.700	3.000	8.700	3	
EPTN07U1.00C1.00R04	1.0000	1.000	.256	3.000	1.500	4.500	4	
EPTN07U1.25C1.25R04	1.2500	1.250	.256	3.000	1.500	4.500	4	
EPTN07U1.25C1.25R05	1.2500	1.250	.256	3.000	1.500	4.500	5	
EPTN07U1.50C1.25R06	1.5000	1.250	.256	2.250	2.250	4.500	6	

When using corner radius R0.4 (0.0157") inserts, add 0.22 mm (0.0087") to the L and Lf dimensions.

EPTN12 (USE INSERT: TN MU120708PER-MJ)

PART #	Dc	Ds	MAX. ap	Is	Lf	L	lb	INSERT	z
EPTN12U1.25C1.25R03N	1.25	1.25	0.433	3.0	1.5	4.5	1.56	TN U12	3
EPTN12U1.50C1.25R04N	1.50						1.78		4

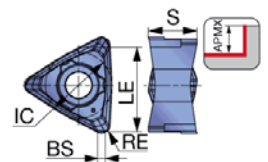
INSERTS FOR TPTN & EPTN CUTTERS



TN MU-R-MJ



TN MU12-NMJ



PART #	RE	APMX	LE	IC	S	BS	fz (min)	fz (max)	Tough	Grade & Vc	Hard
TN MU070304PER-MJ	.0157	.256	.256	.224	.161	.024	.0030	.0079	AH3135 AH120 AH3225		
TN MU070308PER-MJ	.0314	.256	.256	.224	.161	.024	.0030	.0079	AH3135 AH120 AH3225		
TN GU120708PER-MJ	.0314	.433	.472	.375	.277	.046	.0031	.0118	AH3135 AH120 AH3225 T1215		
TN MU1207R16PER-MJ	.0629	.433	.472	.375	.271	---	.0031	.0118	AH3135 AH120 AH3225		
TN MU1207R20PER-MJ	.0787	.433	.472	.375	.265	---	.0031	.0118	AH3135 AH120 AH3225 T1215		
TN MU120708PER-NMJ	.0314	.433	.472	.375	.280	.046	.0031	.0055	AH3135 AH120 AH3225		



ALL-ROUND CUTTER WITH CENTER CUTTING CAPABILITY FOR ULTIMATE MACHINING VERSATILITY — FROM SHOULDER MILLING TO HOLE MAKING

ADD high cost-per-edge economy with four-edged inserts

BUY 10 inserts per pocket

AND

GET 1 cutter

FREE
of charge!

Promo code: TG146



Insert:
LXMU08/10/12-MM
APMX = 0.276" - 0.433" (7 - 11 mm)

Grades:
AH3225
AH8015
AH120



LXMU -MM**
Four total cutting edges for highest insert economy

Shank type:
EVLX08/10/12... (Short type)
DC = ϕ 0.625" - ϕ 1.00" (ϕ 16 - ϕ 25 mm)
EVLX08/10/12**L (Long type)
DC = ϕ 0.625" - ϕ 1.00" (ϕ 16 - ϕ 26 mm)



EVLX...

Modular type:
HVLX08/10/12...
DC = ϕ 16 - ϕ 25 mm



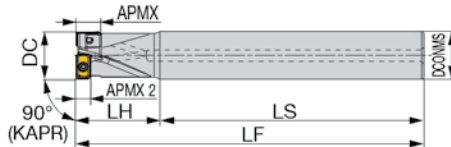
HVLX...

THE ULTIMATE MULTI-PURPOSE MILLING CUTTER

- DRILLING • SQUARE SHOULDER MILLING • COUNTERBORING
- SLOTTING • PLUNGING • HELICAL INTERPOLATION



**CENTER CUTTING
MULTI-FUNCTION
MILLING CUTTER
WITH COOLANT HOLE**



EVLX08/10/12

PART#:	DC	DCONMS	APMX	APMX2	LS	LH	LF	z*	Insert
EVLX08U0.62W0.62R02	0.625	0.625	0.276	0.157	1.910	1.250	3.160	2	LXMU08...
EVLX08U0.62C0.62R02L	0.625	0.625	0.276	0.157	5.000	2.000	7.000	2	LXMU08...
EVLX10U0.787W0.75R02	0.787	0.750	0.354	0.157	2.030	1.380	3.410	2	LXMU10...
EVLX10U0.787C0.75R02L	0.787	0.750	0.354	0.157	5.000	2.380	7.380	2	LXMU10...
EVLX12U1.00W1.00R02	1.000	1.000	0.433	0.236	2.280	1.750	4.030	2	LXMU12...
EVLX12U1.00C1.00R02L	1.000	1.000	0.433	0.236	6.000	3.000	9.000	2	LXMU12...

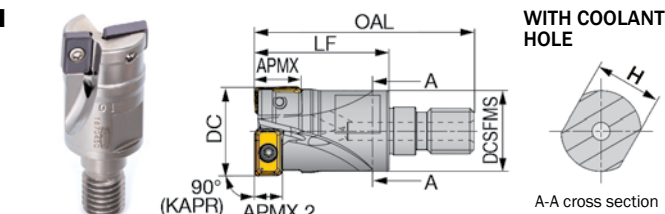
HVLX08/10/12-M

Multi-function endmill, modular type (TungFlex)

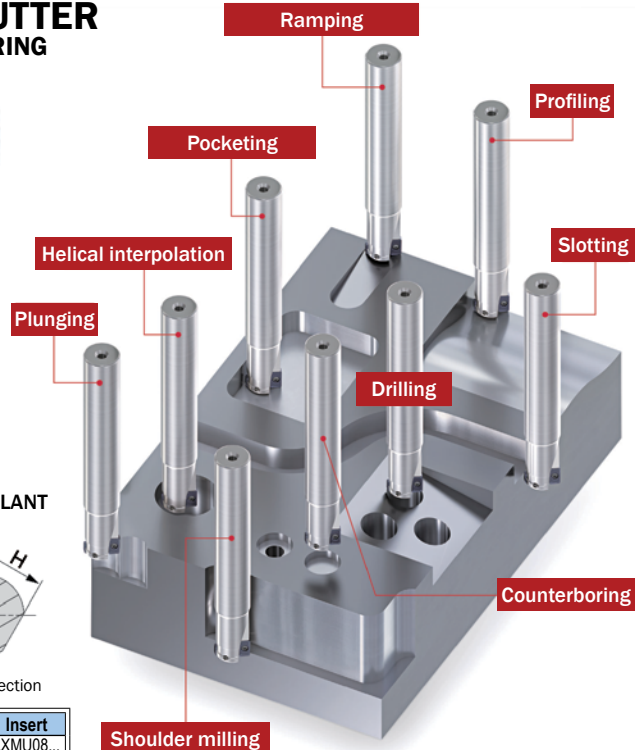
DIMENSIONS ARE SHOWN IN MM

INSERTS

LXMU08
LXMU10
LXMU12



PART#:	DC	CRKS	APMX	APMX2	OAL	LF	H	DCSFMS	z*	Insert
HVLX08M016M08R02	16	M8	7	4	42	25	10	14.5	2	LXMU08...
HVLX10M020M10R02	20	M10	9	4	49	30	15	17.8	2	LXMU10...
HVLX12M025M12R02	25	M12	11	6	57	35	17	23	2	LXMU12...





DRILLMEISTER INTERCHANGEABLE HEAD DRILL SYSTEM

- Excellent cutting performance and tool life due to new head geometries and innovative grade AH9130
- Tool change time is significantly reduced with simple and easy clamping system.

PROMO FOR DMC & DMP HEADS (SEE FOLLOWING PAGES FOR HEADS)



DMC
Self centering point and double margins ensure excellent hole diameter accuracy and roundness

DMP
General purpose for various materials and machining operations

BUY 4 drill heads
AND
GET 1 drill body of up to 3.5xD at

50% additional discount!
Promo code: TG121 (1.5xD)
Promo code: TG118 (3.5xD)

BUY 6 drill heads
AND
GET 1 drill body of up to 6xD at

50% additional discount!
Promo code: TG119

BUY 8 drill heads
AND
GET 1 drill body of up to 8xD at

50% additional discount!
Promo code: TG120

HOLDERS ALSO AVAILABLE:

- ① With cylindrical shank: TID-R
- ② Straight flute: TID-C



TID-F... TID-R... TID-C...

PROMO FOR DMH & DMF HEADS (SEE FOLLOWING PAGES FOR HEADS)

DMF
Flat geometry head



DMH
High strength cutting edge



BUY 4 drill heads
AND
GET 1 drill body of 1.5xD at

50% additional discount!
Promo code: TG152

BUY 4 drill heads
AND
GET 1 drill body of 3-3.5xD at

50% additional discount!
Promo code: TG153

BUY 6 drill heads
AND
GET 1 drill body of 5-6xD at

50% additional discount!
Promo code: TG154

BUY 8 drill heads
AND
GET 1 drill body of 8xD at

50% additional discount!
Promo code: TG155

DRILLMEISTER INTERCHANGEABLE HEAD DRILL SYSTEM

1.5xD



3xD



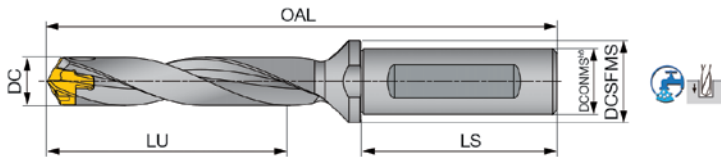
5xD



8xD

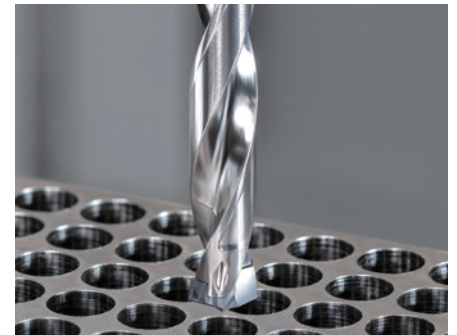


TIDU-F FLANGED DRILLS - INCH SIZES



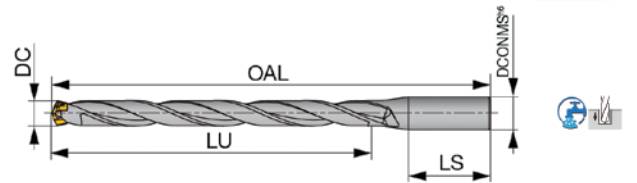
- Excellent cutting performance and tool life due to new head geometries and innovative grade AH9130
- Tool change time is significantly reduced with simple and easy clamping system.

NOTE: METRIC SIZES SHOWN ON NEXT PAGE



TIDU-R CYLINDRICAL SHANK - INCH SIZES

12xD



DIA. DC	1.5xD		3xD		5xD		8xD		DCONMS	DCSFMS	LS	Pocket Size	Head	12xD			
	PART#:	LU	OAL	LU	OAL	LU	OAL	LU						OAL	PART#:	LU	OAL
0.394 - 0.409	TIDU0394F0625**	0.591	3.118	1.181	3.709	1.969	4.496	3.150	5.677	0.625	0.787	1.890	10	DM*100 - DM*104	TIDU0394R0625-12	4.803	7.244
0.413 - 0.429	TIDU0413F0625**			1.260	3.768	2.087	4.594	3.307	5.835	0.625	0.787	1.890	10	DM*105 - DM*109	TIDU0413R0625-12	5.039	7.480
0.433 - 0.449	TIDU0433F0625**	0.669	3.193	1.299	3.843	2.165	4.709	3.465	6.008	0.625	0.787	1.890	11	DM*110 - DM*114	TIDU0433R0625-12	5.276	7.717
0.453 - 0.469	TIDU0453F0625**			1.378	3.902	2.283	4.807	3.622	6.165	0.625	0.787	1.890	11	DM*115 - DM*119			
0.472 - 0.488	TIDU0472F0625**	0.709	3.268	1.417	3.976	2.362	4.921	3.780	6.339	0.625	0.787	1.890	12	DM*120 - DM*124	TIDU0472R0625-12	5.669	8.228
0.492 - 0.508	TIDU0492F0625**			1.457	4.035	2.441	5.020	3.937	6.496	0.625	0.787	1.890	12	DM*125 - DM*129	TIDU0492R0625-12	5.906	8.465
0.512 - 0.528	TIDU0512F0625**	0.787	3.350	1.535	4.118	2.559	5.142	4.094	6.677	0.625	0.787	1.890	13	DM*130 - DM*134	TIDU0512R0625-12	6.142	8.701
0.532 - 0.547	TIDU0532F0625**			1.614	4.177	2.677	5.240	4.252	6.835	0.625	0.787	1.890	13	DM*135 - DM*139	TIDU0532R0625-12	6.378	8.937
0.551 - 0.567	TIDU0551F0625**	0.827	3.508	1.654	4.335	2.756	5.440	4.409	7.091	0.625	0.787	1.890	14	DM*140 - DM*144	TIDU0551R0625-12	6.614	9.291
0.571 - 0.587	TIDU0571F0625**			1.732	4.394	2.874	5.539	4.567	7.252	0.625	0.787	1.890	14	DM*145 - DM*149	TIDU0571R0625-12	6.850	9.528
0.591 - 0.626	TIDU0591F0750**	0.906	3.787	1.772	4.673	2.953	5.854	4.724	7.626	0.750	0.984	1.969	15	DM*150 - DM*159	TIDU0591R0750-12	7.087	10.000
0.630 - 0.665	TIDU0630F0750**	0.945	3.909	1.890	4.854	3.150	6.114	5.039	8.004	0.750	0.984	1.969	16	DM*160 - DM*169	TIDU0630R0750-12	7.559	10.512
0.669 - 0.705	TIDU0669F0750**	1.024	4.031	2.008	5.035	3.346	6.374	5.354	8.382	0.750	0.984	1.969	17	DM*170 - DM*179	TIDU0669R0750-12	8.031	11.063
0.709 - 0.744	TIDU0709F1000**	1.063	4.390	2.126	5.453	3.543	6.870	5.669	8.996	1.000	1.260	2.205	18	DM*180 - DM*189	TIDU0709R1000-12	8.504	11.811
0.748 - 0.783	TIDU0748F1000**	1.142	4.508	2.244	5.630	3.740	7.126	5.984	9.370	1.000	1.260	2.205	19	DM*190 - DM*199	TIDU0748R1000-12	8.976	12.362
0.787 - 0.823	TIDU0787F1000**	1.181	4.630	2.362	5.811	3.937	7.386	6.299	9.748	1.000	1.260	2.205	20	DMP200 - DMP209	TIDU0787R1000-12	9.449	12.874
0.827 - 0.862	TIDU0827F1000**	1.240	4.752	2.480	5.992	4.134	7.646	6.614	10.126	1.000	1.260	2.205	21	DMP210 - DMP219	TIDU0827R1000-12	9.921	13.425
0.866 - 0.902	TIDU0866F1000**	1.299	4.874	2.598	6.173	4.331	7.906	6.929	10.504	1.000	1.260	2.205	22	DMP220 - DMP229	TIDU0866R1000-12	10.394	13.976
0.906 - 0.941	TIDU0906F1250**	1.358	5.150	2.718	6.508	4.528	8.319	7.244	11.035	1.250	1.654	2.362	23	DMP230 - DMP239			
0.945 - 0.980	TIDU0945F1250**	1.417	5.272	2.835	6.689	4.724	8.579	7.559	11.413	1.250	1.654	2.362	24	DMP240 - DMP249			
0.984 - 1.020	TIDU0984F1250**	1.476	5.394	2.953	6.870	4.921	8.839	7.874	11.791	1.250	1.654	2.362	25	DMP250 - DMP259			

** Add 1.5 for 1.5xD, 3 for 3xD, 5 for 5xD, 8 for 8xD.

Note: LU values shown for DMP heads

* P, C, F, H, N

NOTE:
The 12xD drills have cylindrical shanks. All others have weldon shanks.



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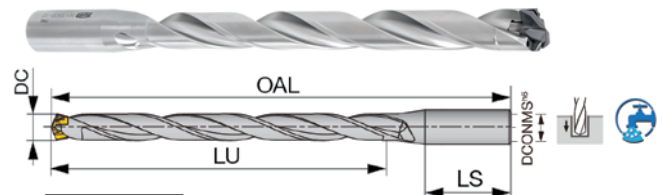
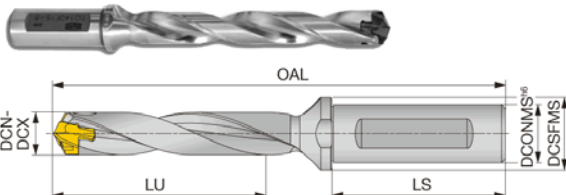


DRILLMEISTER
LUNGALOY

DRILLS WITH EXCHANGEABLE HEADS

• Quick head indexing on the machine reduces setup time and machine downtime.

METRIC SIZES



TID-F

FLANGED SHANK

1.5xD

3xD

5xD

8xD

TID-R

CYLINDRICAL SHANK

12xD

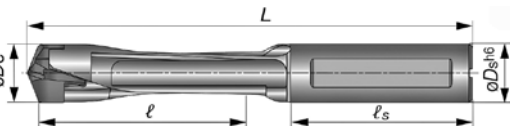
DIA.	DC	PART#:	1.5xD	3xD	5xD	8xD	DCONMS	DCSFMS	LS	Pocket Size	Head	PART#:	12xD	
			LU	OAL	LU	OAL	LU	OAL	LU	OAL		LU	OAL	
6 - 6.4		TID060F12**	10	68	19	77	31	89	—	—	DM*060-DM*064	—	—	
6.5 - 6.9		TID065F12**	11	69.1	21	78.8	34	91.8	—	—	DM*065-DM*069	—	—	
7 - 7.4		TID070F12**	12	70.1	22	80.6	36	94.6	—	—	DM*070-DM*074	—	—	
7.5 - 7.9		TID075F12**	13	70.9	24	82.1	39	97.1	—	—	DM*075-DM*079	—	—	
8 - 8.4		TID080F12**	14	72.4	26	84.4	42	100.4	—	—	DM*080-DM*084	TID080R12-12	98	156.4
8.5 - 8.9		TID085F12**	—	—	28	85.9	45	102.9	—	—	DM*085-DM*089	TID085R12-12	104	162.4
9 - 9.4		TID090F12**	16	74.3	29	87.8	47	105.8	—	—	DM*090-DM*094	TID090R12-12	110	168.8
9.5 - 9.9		TID095F12**	—	—	31	89.3	50	108.3	—	—	DM*095-DM*099	TID095R12-12	116	174.8
10 - 10.4		TID100F16**	17	79.2	32	94.2	52	114.2	—	—	DM*100-DM*104	TID100R16-12	122	184.2
10.5 - 10.9		TID105F16**	—	—	34	95.7	55	116.7	—	—	DM*105-DM*109	TID105R16-12	128	190.2
11 - 11.4		TID110F16**	19	81.1	35	97.6	57	119.6	—	—	DM*110-DM*114	TID110R16-12	134	196.6
11.5 - 11.9		TID115F16**	—	—	37	99.1	60	122.1	—	—	DM*115-DM*119	TID115R16-12	140	202
12 - 12.4		TID120F16**	20	83	38	101	62	125	—	—	DM*120-DM*124	TID120R16-12	146	209
12.5 - 12.9		TID125F16**	—	—	39	102.5	64	127.5	—	—	DM*125-DM*129	TID125R16-12	152	215
13 - 13.4		TID130F16**	22	85.1	41	104.6	67	130.6	—	—	DM*130-DM*134	TID130R16-12	158	221.6
13.5 - 13.9		TID135F16**	—	—	44	106.1	71	133.2	—	—	DM*135-DM*139	TID135R16-12	165	227.6
14 - 14.4		TID140F16**	24	89.1	45	110.1	73	138.2	—	—	DM*140-DM*144	TID140R16-12	171	233.2
14.5 - 14.9		TID145F16**	—	—	47	111.6	76	140.7	—	—	DM*145-DM*149	TID145R16-12	177	242.2
15 - 15.9		TID150F20**	26	96.2	48	118.7	78	148.7	—	—	DM*150-DM*159	TID150R20-12	183	253.7
16 - 16.9		TID160F20**	27	99.3	51	123.3	83	155.3	—	—	DM*160-DM*169	TID160R20-12	195	267.3
17 - 17.9		TID170F20**	29	102.4	54	127.9	88	161.9	—	—	DM*170-DM*179	TID170R20-12	207	280.9
18 - 18.9		TID180F25**	30	111.5	57	138.5	93	174.5	—	—	DM*180-DM*189	TID180R25-12	219	300.5
19 - 19.9		TID190F25**	33	114.5	61	143	99	181	—	—	DM*190-DM*199	TID190R25-12	232	314
20 - 20.9		TID200F25**	34	117.6	64	147.6	104	187.6	—	—	DM*200-DM*209	TID200R25-12	244	327.6
21 - 21.9		TID210F25**	36	120.7	67	152.2	109	194.2	—	—	DM*210-DM*219	TID210R25-12	256	341.2
22 - 22.9		TID220F25**	37	123.8	70	156.8	114	200.8	—	—	DM*220-DM*229	TID220R25-12	267	354.8
23 - 23.9		TID230F32**	39	130.8	73	165.3	119	211.3	—	—	DM*230-DM*239	TID230R32-12	276	372.3
24 - 24.9		TID240F32**	40	133.9	76	169.9	124	217.9	—	—	DM*240-DM*249	TID240R32-12	288	385.9
25 - 25.9		TID250F32**	43	137	80	174.5	130	224.5	—	—	DM*250-DM*259	TID250R32-12	300	399.5

* P. C. F. H. N

** Enter 1.5 FOR 1.5xD, 3 for 3xD, 5 for 5xD, 8 for 8xD.

Note: An overall length (OAL) differs for when the DMP insert is mounted and when the DMC is mounted. The tables show OAL when DMP insert is mounted.

TIDC



STRAIGHT TYPE DRILLS (NO FLANGE)

• Suitable for using with chamfering holders (shown on the right)

3xD 5xD



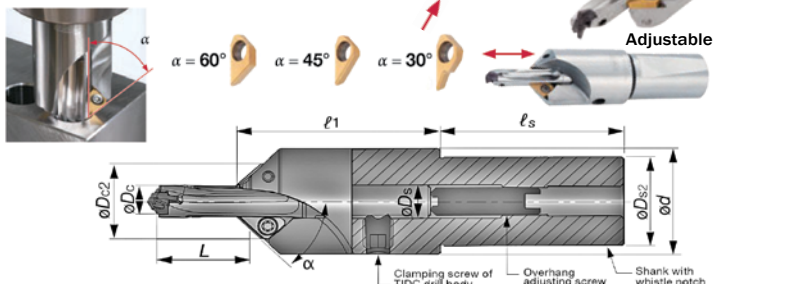
TIDCF

CHAMFERING HOLDERS

30°, 45°, & 60°

• Drilling and chamfering in one shot

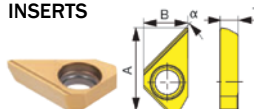
• Used with TIDC drills combining drilling and chamfering with 3 types of inserts in chamfering angle 30°, 45°, and 60°.



PART #	Dc	Ds ₂	d	Dc ₂	ℓ ₁	ℓ _s	L*/L/D = 3	L*/L/D = 5	DRILLING BODY
TIDCF080-W20	7.5 - 7.9	20	25	18.8	47.4	50	12.6 - 24	17.3 - 38	TIDC075C8-...
TIDCF080-W20	8.0 - 8.4	20	25	18.8	47.4	50	13.5 - 24.6	24.7 - 45	TIDC080C8-...
TIDCF090-W20	8.5 - 8.9	20	25	19.8	47.4	50	12.6 - 26.2	18.5 - 43	TIDC085C9-...
TIDCF090-W20	9.0 - 9.4	20	25	19.8	47.4	50	13 - 29.2	22.9 - 46.8	TIDC090C9-...
TIDCF100-W32	9.5 - 9.9	32	38	24.9	67.3	60	12.9 - 27.8	26 - 47	TIDC095C10-...
TIDCF100-W32	10.0 - 10.4	32	38	24.9	67.3	60	14.5 - 31.8	31.7 - 51.8	TIDC100C10-...
TIDCF110-W32	10.5 - 10.9	32	38	25.9	67.3	60	15.7 - 33.3	31.2 - 54.2	TIDC105C11-...
TIDCF110-W32	11.0 - 11.4	32	38	25.9	67.3	60	16.2 - 35.3	34.1 - 57.3	TIDC110C11-...
TIDCF120-W32	11.5 - 11.9	32	38	26.9	67.3	60	15.1 - 36.7	33.8 - 59.4	TIDC115C12-...
TIDCF120-W32	12.0 - 12.4	32	38	26.9	67.3	60	16.5 - 37.7	36.6 - 61.6	TIDC120C12-...
TIDCF130-W32	12.5 - 12.9	32	38	27.9	67.3	60	16.1 - 39.6	39.7 - 64.8	TIDC125C13-...
TIDCF130-W32	13.0 - 13.4	32	38	27.9	67.3	60	17.5 - 41.5	42.7 - 68.0	TIDC130C13-...
TIDCF140-W32	13.5 - 13.9	32	38	28.4	67.3	60	17.7 - 42.9	41.4 - 70.3	TIDC135C14-...
TIDCF140-W32	14.0 - 14.4	32	38	28.4	67.3	60	18.1 - 45.0	44.8 - 73.1	TIDC140C14-...
TIDCF150-W32	14.5 - 14.9	32	38	29.4	67.3	60	19.2 - 44.6	44.0 - 73.9	TIDC145C15-...
TIDCF150-W32	15.0 - 15.9	32	38	29.4	67.3	60	19.7 - 47.4	47.6 - 80.7	TIDC150C15-...
TIDCF160-W32	16.0 - 16.9	32	38	30.4	67.3	60	19.5 - 55.3	57.0 - 87.5	TIDC160C16-...
TIDCF170-W32	17.0 - 17.9	32	38	31.4	67.3	60	21.4 - 54.9	55.9 - 88.5	TIDC170C17-...
TIDCF180-W32	18.0 - 18.9	32	38	32.4	67.3	60	24.2 - 65.2	60.0 - 93.0	TIDC180C18-...
TIDCF190-W32	19.0 - 19.9	32	38	33.4	75.0	60	28.5 - 62.3	67.0 - 100.0	TIDC190C19-...

L* is the dimension when using 45° chamfering insert

CHAMFERING INSERTS



CHAMFERING ANGLE α	PART #	A	B	T	MAX. WIDTH OF CHAMFER**
30°	XHGT090300-30A	—	—	—	1.5
45°	XHGR090300-45A	16	8.8	3.3	6.0
60°	XHGR090300-60A	—	—	—	3.5

**Please reduce the feed rate to half when chamfering over 60% of maximum width of chamfer

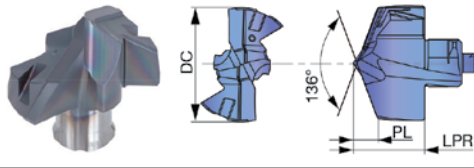


DRILL MEISTER

DRILL HEADS FOR TID-F DRILL BODIES

DMC DRILL HEADS

* Promotion applicable for DMC and DMP heads only in grade AH9130



DMC

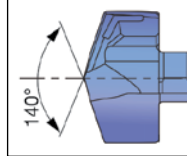
Self centering point and double margins ensure excellent hole diameter accuracy and roundness



DMP

General purpose for various materials and machining operations

DMP HEAD

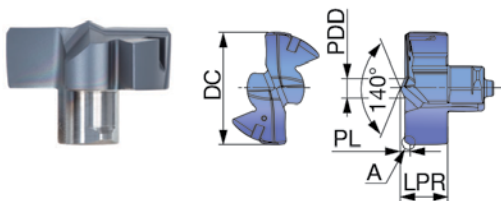


PART#:	DC (in)	DC (mm)	PL (mm)	Pocket size	Body
DMC060	0.236	6.0	1.24	6	TID*060*
DMC061	0.240	6.1	1.26	6	TID*060*
DMC062	0.244	6.2	1.28	6	TID*060*
DMC063	0.248	6.3	1.3	6	TID*060*
DMC064	0.252	6.4	1.32	6	TID*060*
DMC065	0.256	6.5	1.33	6.5	TID*065*
DMC066	0.260	6.6	1.35	6.5	TID*065*
DMC067	0.264	6.7	1.37	6.5	TID*065*
DMC068	0.268	6.8	1.39	6.5	TID*065*
DMC069	0.272	6.9	1.41	6.5	TID*065*
DMC070	0.276	7.0	1.48	7	TID*070*
DMC071	0.280	7.1	1.5	7	TID*070*
DMC072	0.283	7.2	1.52	7	TID*070*
DMC073	0.287	7.3	1.54	7	TID*070*
DMC074	0.291	7.4	1.56	7	TID*070*
DMC075	0.295	7.5	1.58	7	TID*075*
DMC076	0.299	7.6	1.6	7	TID*075*
DMC077	0.303	7.7	1.62	7	TID*075*
DMC078	0.307	7.8	1.64	7	TID*075*
DMC079	0.311	7.9	1.66	7	TID*075*
DMC080	0.315	8.0	1.62	8	TID*080*
DMC081	0.319	8.1	1.64	8	TID*080*
DMC082	0.323	8.2	1.66	8	TID*080*
DMC083	0.327	8.3	1.68	8	TID*080*
DMC084	0.331	8.4	1.7	8	TID*080*
DMC085	0.335	8.5	1.72	8	TID*085*
DMC086	0.339	8.6	1.74	8	TID*085*
DMC087	0.343	8.7	1.76	8	TID*085*
DMC088	0.346	8.8	1.78	8	TID*085*
DMC089	0.350	8.9	1.8	8	TID*085*

PART#:	DC (in)	DC (mm)	PL (mm)	Pocket size	Body
DMC090	0.354	9.0	1.91	9	TID*090*
DMC091	0.358	9.1	1.93	9	TID*090*
DMC092	0.362	9.2	1.95	9	TID*090*
DMC093	0.366	9.3	1.97	9	TID*090*
DMC094	0.370	9.4	1.99	9	TID*090*
DMC095	0.374	9.5	2.01	9	TID*095*
DMC096	0.378	9.6	2.03	9	TID*095*
DMC097	0.382	9.7	2.05	9	TID*095*
DMC098	0.386	9.8	2.07	9	TID*095*
DMC099	0.390	9.9	2.09	9	TID*095*
DMC100	0.394	10.0	2.09	10	TID*100*
DMC101	0.398	10.1	2.11	10	TID*100*
DMC102	0.402	10.2	2.13	10	TID*100*
DMC103	0.406	10.3	2.15	10	TID*100*
DMC104	0.409	10.4	2.17	10	TID*100*
DMC105	0.413	10.5	2.19	10	TID*105*
DMC106	0.417	10.6	2.21	10	TID*105*
DMC107	0.421	10.7	2.23	10	TID*105*
DMC108	0.425	10.8	2.25	10	TID*105*
DMC109	0.429	10.9	2.27	10	TID*105*
DMC110	0.433	11.0	2.32	11	TID*110*
DMC111	0.437	11.1	2.34	11	TID*110*
DMC112	0.441	11.2	2.36	11	TID*110*
DMC113	0.445	11.3	2.38	11	TID*110*
DMC114	0.449	11.4	2.4	11	TID*110*
DMC115	0.453	11.5	2.42	11	TID*115*
DMC116	0.457	11.6	2.44	11	TID*115*
DMC117	0.461	11.7	2.46	11	TID*115*
DMC118	0.465	11.8	2.48	11	TID*115*
DMC119	0.469	11.9	2.5	11	TID*115*

PART#:	DC (in)	DC (mm)	PL (mm)	Pocket size	Body
DMC120	0.472	12.0	2.45	12	TID*120*
DMC121	0.476	12.1	2.47	12	TID*120*
DMC122	0.480	12.2	2.49	12	TID*120*
DMC123	0.484	12.3	2.51	12	TID*120*
DMC124	0.488	12.4	2.53	12	TID*120*
DMC125	0.492	12.5	2.55	12	TID*125*
DMC126	0.496	12.6	2.57	12	TID*125*
DMC127	0.500	12.7	2.59	12	TID*125*
DMC128	0.504	12.8	2.61	12	TID*125*
DMC129	0.508	12.9	2.63	12	TID*125*
DMC130	0.512	13.0	2.71	13	TID*130*
DMC131	0.516	13.1	2.73	13	TID*130*
DMC132	0.520	13.2	2.75	13	TID*130*
DMC133	0.524	13.3	2.77	13	TID*130*
DMC134	0.528	13.4	2.79	13	TID*130*
DMC135	0.531	13.5	2.81	13	TID*135*
DMC136	0.535	13.6	2.83	13	TID*135*
DMC137	0.539	13.7	2.85	13	TID*135*
DMC138	0.543	13.8	2.87	13	TID*135*
DMC139	0.547	13.9	2.89	13	TID*135*
DMC140	0.551	14.0	2.93	14	TID*140*
DMC141	0.555	14.1	2.95	14	TID*140*
DMC142	0.559	14.2	2.97	14	TID*140*
DMC143	0.563	14.3	2.99	14	TID*140*
DMC144	0.567	14.4	3.01	14	TID*140*
DMC145	0.571	14.5	3.03	14	TID*145*
DMC146	0.575	14.6	3.05	14	TID*145*
DMC147	0.579	14.7	3.07	14	TID*145*
DMC148	0.583	14.8	3.09	14	TID*145*
DMC149	0.587	14.9	3.11	14	TID*145*

DMF Flat geometry head



PART#	DC (in)	DC (mm)	LPR	CHW	PL	PDD	Body
DMF060-AH9130	0.236	6.0	3.01	0.4	0.61	1.15	TID*060...
DMF065-AH9130	0.256	6.5	3.28	0.4	0.68	1.54	TID*065...
DMF068-AH9130	0.268	6.8	3.58	0.4	0.68	1.54	TID*065...
DMF070-AH9130	0.276	7.0	3.58	0.4	0.68	1.54	TID*070...
DMF075-AH9130	0.295	7.5	3.58	0.4	0.68	1.54	TID*075...
DMF080-AH9130	0.315	8.0	4.39	0.7	1.09	2.44	TID*080...
DMF081-AH9130	0.319	8.1	4.39	0.7	1.09	2.44	TID*080...
DMF085-AH9130	0.335	8.5	4.39	0.7	1.09	2.44	TID*085...
DMF086-AH9130	0.339	8.6	4.39	0.7	1.09	2.44	TID*085...
DMF087-AH9130	0.343	8.7	4.39	0.7	1.09	2.44	TID*085...
DMF088-AH9130	0.346	8.8	4.39	0.7	1.09	2.44	TID*085...
DMF090-AH9130	0.354	9.0	4.61	0.7	1.11	2.55	TID*090...
DMF095-AH9130	0.374	9.5	4.61	0.7	1.11	2.55	TID*095...
DMF100-AH9130	0.394	10.0	4.72	0.7	1.17	2.89	TID*100...
DMF101-AH9130	0.398	10.1	4.72	0.7	1.17	2.89	TID*100...
DMF103-AH9130	0.406	10.3	4.72	0.7	1.17	2.89	TID*100...
DMF104-AH9130	0.409	10.4	4.72	0.7	1.17	2.89	TID*100...
DMF105-AH9130	0.413	10.5	4.72	0.7	1.17	2.89	TID*105...
DMF106-AH9130	0.417	10.6	4.72	0.7	1.17	2.89	TID*105...
DMF107-AH9130	0.421	10.7	4.72	0.7	1.17	2.89	TID*105...
DMF108-AH9130	0.425	10.8	4.72	0.7	1.17	2.89	TID*105...
DMF110-AH9130	0.433	11.0	4.9	0.7	1.25	2.98	TID*110...
DMF111-AH9130	0.437	11.1	4.9	0.7	1.25	2.98	TID*110...
DMF112-AH9130	0.441	11.2	4.9	0.7	1.25	2.98	TID*110...
DMF113-AH9130	0.445	11.3	4.9	0.7	1.25	2.98	TID*110...
DMF114-AH9130	0.449	11.4	4.9	0.7	1.25	2.98	TID*110...
DMF115-AH9130	0.453	11.5	4.9	0.7	1.25	2.98	TID*115...
DMF116-AH9130	0.457	11.6	4.9	0.7	1.25	2.98	TID*115...
DMF117-AH9130	0.461	11.7	4.9	0.7	1.25	2.98	TID*115...
DMF118-AH9130	0.465	11.8	4.9	0.7	1.25	2.98	TID*115...
DMF119-AH9130	0.469	11.9	4.9	0.7	1.25	2.98	TID*115...

PART#	DC (in)	DC (mm)	LPR	CHW	PL	PDD	Body
DMF139-AH9130	0.547	13.9	5.53	0.7	1.28	3.52	TID*135...
DMF140-AH9130	0.551	14.0	5.96	0.7	1.31	3.81	TID*140...
DMF141-AH9130	0.555	14.1	5.96	0.7	1.31	3.81	TID*140...
DMF142-AH9130	0.559	14.2	5.96	0.7	1.31	3.81	TID*140...
DMF143-AH9130	0.563	14.3	5.96	0.7	1.31	3.81	TID*140...
DMF144-AH9130	0.567	14.4	5.96	0.7	1.31	3.81	TID*140...
DMF145-AH9130	0.571	14.5	5.96	0.7	1.31	3.81	TID*145...
DMF150-AH9130	0.591	15.0	6.43	0.7	1.35	4.24	TID*150...
DMF152-AH9130	0.598	15.2	6.43	0.7	1.35	4.24	TID*150...
DMF155-AH9130	0.610	15.5	6.43	0.7	1.35	4.24	TID*150...
DMF157-AH9130	0.618	15.7	6.43	0.7	1.35	4.24	TID*150...
DMF158-AH9130	0.622	15.8	6.43	0.7	1.35	4.24	TID*150...
DMF160-AH9130	0.630	16.0	6.84	0.7	1.39	4.06	TID*160...
DMF161-AH9130	0.634	16.1	6.84	0.7	1.39	4.06	TID*160...
DMF165-AH9130	0.650	16.5	6.84	0.7	1.39	4.06	TID*160...
DMF167-AH9130	0.657	16.7	6.84	0.7	1.39	4.06	TID*160...
DMF170-AH9130	0.669	17.0	7.15	0.7	1.4	4.14	TID*170...
DMF175-AH9130	0.689	17.5	7.15	0.7	1.4	4.14	TID*170...
DMF179-AH9130	0.705	17.9	7.15	0.7	1.4	4.14	TID*170...
DMF180-AH9130	0.709	18.0	7.45	0.7	1.42	4.16	TID*180...
DMF185-AH9130	0.728	18.5	7.45	0.7	1.42	4.16	TID*180...
DMF190-AH9130	0.748	19.0	7.79	0.7	1.44	4.25	TID*190...
DMF195-AH9130	0.768	19.5	7.79	0.7	1.44	4.25	TID*190...
DMF198-AH9130	0.780	19.8	7.79	0.7	1.44	4.25	TID*190...
DMF200-AH9130	0.787	20.0	10.19	0.7	1.77	6.56	TID*200...
DMF205-AH9130	0.807	20.5	10.19	0.7	1.77	6.56	TID*200...
DMF210-AH9130	0.827	21.0	10.63	0.7	1.79	6.92	TID*210...
DMF215-AH9130	0.846	21.5	10.63	0.7	1.79	6.92	TID*210...
DMF218-AH9130	0.858	21.8	10.63	0.7	1.79	6.92	TID*210...
DMF220-AH9130	0.866	22.0	10.97	0.7	1.81	7.13	TID*220...
DMF225-AH9130	0.886	22.5	10.97	0.7	1.81	7.13	TID*220...
DMF230-AH9130	0.906	23.0	11.41	0.7	1.83	7.42	TID*230...
DMF235-AH9130	0.925	23.5	11.41	0.7	1		

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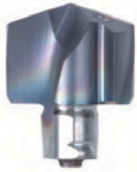
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High precision
drilling head with
quick centering
cutting edge style



DMP
General purpose
drilling head ideal
for various drilling
applications



TID-R...

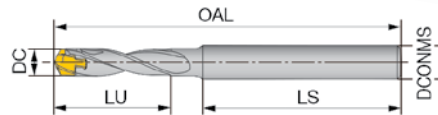
Drill body:
TID-R...
L/D = 3xD & 5xD
DC = $\phi 0.157 - \phi 0.232$ " ($\phi 4 - \phi 5.9$ mm)

- Through-coolant capability allows superior chip evacuation and long and predictable tool life.

- Provides even better hole tolerances than solid drills.

- Two types of drill heads are available.

3xD **5xD**



DRILL BODIES

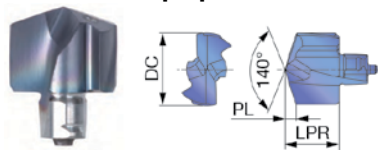
Length Ratio	PART #	DC	DCONMS	LU	LS	OAL		Pocket Size	Head
						DMP	DMC		
3xD	TID040R06-3**	0.157 - 0.173	0.236	0.497	1.378	2.272	2.288	4	DM*040 - DM*044
	TID045R06-3	0.177 - 0.193	0.236	0.557	1.378	2.348	2.359	4.5	DM*045 - DM*049
	TID050R06-3	0.197 - 0.213	0.236	0.619	1.378	2.415	2.433	5	DM*050 - DM*054
	TID055R06-3	0.217 - 0.232	0.236	0.681	1.378	2.520	2.532	5.5	DM*055 - DM*059
5xD	TID040R06-5**	0.157 - 0.173	0.236	0.812	1.378	2.587	2.603	4	DM*040 - DM*044
	TID045R06-5	0.177 - 0.193	0.236	0.912	1.378	2.703	2.713	4.5	DM*045 - DM*049
	TID050R06-5	0.197 - 0.213	0.236	1.013	1.378	2.807	2.820	5	DM*050 - DM*054
	TID055R06-5	0.217 - 0.232	0.236	1.115	1.378	2.919	2.932	5.5	DM*055 - DM*059

Tool diameter (inch)	Hole diameter tolerance*
$\phi 0.157 - \phi 0.232$ "	+0.002" / 0

* Just for reference

- The overall length (OAL) differs based on each head geometry.
- When using the drill at a higher feed rate, make sure to provide an axial support by placing the overhang adjusting screw at the drill shank end in the tool holder. This will prevent high thrust force from pushing the drill back into the holder during drilling.
- When axially adjusting the shank inside the holder to obtain a required drill overhang, make sure the shank length remaining inside the holder does not come short of the minimum clamping length (LSCN) specified by the holder supplier.

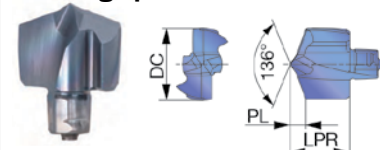
DMP General purpose drill head



Tool diameter (inch)	Hole diameter tolerance*
$\phi 0.157 - \phi 0.232$ "	+0.0007" / 0

Tool diameter (mm)	Hole diameter tolerance*
$\phi 4 - \phi 5.9$	+0.018 / 0

DMC High precision drill head



Tool diameter (inch)	Hole diameter tolerance*
$\phi 0.157 - \phi 0.232$ "	+0.0007" / 0

Tool diameter (mm)	Hole diameter tolerance*
$\phi 4 - \phi 5.9$	+0.018 / 0

PART#	DC (in)	DC (mm)	LPR (mm)	PL (mm)	Body
DMP040-AH725	0.157	4	3.1	0.62	TID*040...
DMP041-AH725	0.161	4.1	3.1	0.64	TID*040...
DMP042-AH725	0.165	4.2	3.1	0.66	TID*040...
DMP043-AH725	0.169	4.3	3.1	0.67	TID*040...
DMP044-AH725	0.173	4.4	3.1	0.69	TID*040...
DMP045-AH725	0.177	4.5	3.55	0.66	TID*045...
DMP046-AH725	0.181	4.6	3.55	0.68	TID*045...
DMP047-AH725	0.185	4.7	3.55	0.70	TID*045...
DMP048-AH725	0.189	4.8	3.55	0.71	TID*045...
DMP049-AH725	0.193	4.9	3.55	0.73	TID*045...

PART#	DC (in)	DC (mm)	LPR (mm)	PL (mm)	Body
DMP050-AH725	0.197	5	3.7	0.73	TID*050...
DMP051-AH725	0.201	5.1	3.7	0.75	TID*050...
DMP052-AH725	0.205	5.2	3.7	0.77	TID*050...
DMP053-AH725	0.209	5.3	3.7	0.78	TID*050...
DMP054-AH725	0.213	5.4	3.7	0.8	TID*050...
DMP055-AH725	0.217	5.5	3.85	0.81	TID*055...
DMP056-AH725	0.220	5.6	3.85	0.83	TID*055...
DMP057-AH725	0.224	5.7	3.85	0.85	TID*055...
DMP058-AH725	0.228	5.8	3.85	0.86	TID*055...
DMP059-AH725	0.232	5.9	3.85	0.88	TID*055...

PART#	DC (in)	DC (mm)	LPR (mm)	PL (mm)	Body
DMC040-AH9130	0.157	4	3.51	0.86	TID*040...
DMC041-AH9130	0.161	4.1	3.51	0.88	TID*040...
DMC042-AH9130	0.165	4.2	3.51	0.9	TID*040...
DMC043-AH9130	0.169	4.3	3.51	0.92	TID*040...
DMC044-AH9130	0.173	4.4	3.51	0.94	TID*040...
DMC045-AH9130	0.177	4.5	3.81	0.97	TID*045...
DMC046-AH9130	0.181	4.6	3.81	0.99	TID*045...
DMC047-AH9130	0.185	4.7	3.81	1.01	TID*045...
DMC048-AH9130	0.189	4.8	3.81	1.03	TID*045...
DMC049-AH9130	0.193	4.9	3.81	1.05	TID*045...

PART#	DC (in)	DC (mm)	LPR (mm)	PL (mm)	Body
DMC050-AH9130	0.197	5	4.14	1.09	TID*050...
DMC051-AH9130	0.201	5.1	4.14	1.11	TID*050...
DMC052-AH9130	0.205	5.2	4.14	1.13	TID*050...
DMC053-AH9130	0.209	5.3	4.14	1.15	TID*050...
DMC054-AH9130	0.213	5.4	4.14	1.17	TID*050...
DMC055-AH9130	0.217	5.5	4.17	1.22	TID*055...
DMC056-AH9130	0.220	5.6	4.17	1.24	TID*055...
DMC057-AH9130	0.224	5.7	4.17	1.26	TID*055...
DMC058-AH9130	0.228	5.8	4.17	1.28	TID*055...
DMC059-AH9130	0.232	5.9	4.17	1.3	TID*055...