

Supplement

– to Turning tools and Rotating tools catalogues



2017.1

General turning	A
Parting and grooving	B
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General information	H

General turning

CoroTurn® Prime

The new way of turning

Revolutionary all-directional turning method which dramatically increases productivity and tool life.

See page A3



GC2220

Dedicated for stainless steel

Increased tool life and possibility to increase cutting speed in applications with continuous cuts to light interruptions and stable conditions. With Inveio™ coating technology.

See chapter A



GC4335

Reliable steel turning insert

Ideal for applications with difficult surfaces, interruptions and unstable conditions. With Inveio™ coating technology.

See chapter A

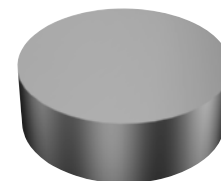


CC6160

Ceramics

Offers secure and stable machining with ceramics in HRSA materials where high metal removal rate is required.

See chapter A

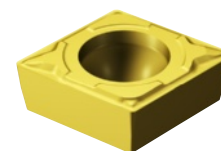


S05F

Insert extension

New CCMT, DCMT and VBMT inserts. Designed for finishing or last stage machining (LSM) operations.

See chapter A



Parting and grooving

CoroCut® XS

Extensions and coolant kits

- QS 2020, 2525, ¾ inch and 1 inch with internal over and under coolant.
- QS wedge extensions for Tsugami and Star machines.
- QS – HP high pressure coolant connection kit for QS-HP swiss tools.

See page B2 and chapter G



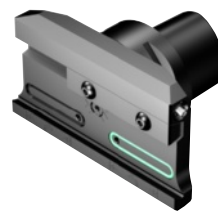
Turning tool adaptors

Blade adaptors

For parting blades

Parting blade adaptors equipped with high pressure coolant for CoroCut QD. Available with Coromant Capto and HSK coupling.

See chapter C



Rectangular shank adaptor

For QS turning shanks

QS adaptors equipped with high pressure coolant. Available with Coromant Capto and HSK coupling.

See chapter C



Milling

CoroMill® 745

New cutter bodies, geometries and grades

The multi-edge face milling concept CoroMill 745 is now available in a high feed variant with 25° entering angle. New insert geometries: E-M31 insert with longer parallel land, E-H50 for heavy roughing in ISO K. New grades are also available.

See page D2



CoroMill® 600

Profile milling cutter with round inserts

A tool body extension including extra-coarse pitch and Coromant Capto® coupling. New ISO M and ISO S grades.

See page D8



CoroMill® 415

High feed cutter

Additions to the standard assortment of the small, high feed face milling cutter. Threaded coupling is now available, as well as new cutters with cylindrical shank and Coromant EH coupling.

See page D5



CoroMill® Plura

Composite machining

- Low helix cutter, designed for thin components and finishing passes.
- Serrated compression cutter. One pass full slot finish offers high productivity.
- Compression router. Best for flat components with unidirectional capabilities on both sides of the component.

See page D11



Boring

CoroBore® BR10

Back boring

New tool for back boring with one cutting edge. Available with Coromant EH and Coromant Capto coupling.

See page E2



CoroBore® BR20

Twin edge rough boring tool

The next generation twin-edge rough boring tool with the possibility to run as back boring, step boring or single edge boring. With HP nozzles for improved chip control.

See page E4



CoroBore® BR30

Three-edge rough boring tool

New multi-edge rough boring tool with unique characteristics.

See page E8

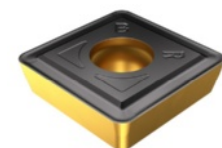


CoroBore® 111

Next generation rough boring insert

Dedicated boring insert with optimized grades for rough boring at 84deg entry angle. Optimized for large depth of cut and medium feed rates.

See page E16



CoroBore® XL

Tools for Inconel-cladded materials

Used when boring in inconel-cladded material. The cartridge, optimised for tough materials, can be used with the complete range of CoroBore XL, undamped as well as Silent tools.

See page E13



Rotating tool adaptors

CoroChuck™ 970

Tap chuck with EH coupling

Tap chuck for small thread sizes. To be used in slender assemblies where long reach is required.

See chapter F



Adaptors

BIG-PLUS MAS-BT to Coromant EH adaptor

New version to fit BIG-PLUS MAS-BT 30 spindle. Used for various milling operations. BIG-PLUS® SYSTEM licensed by BIG Daishowa

See chapter F



Accessories

Pull studs

New range

New range of pull studs for machining centers with steep tapers.

See page G3

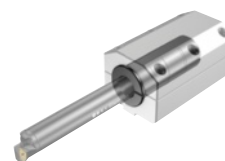


Sleeves

Cylindrical shank

Split sleeves for clamping diameter 32 to 50mm cylindrical shank Silent Tools

See page G2





General turning A

CoroTurn® Prime

Inserts A2

External tools

CoroTurn® Prime cutting unit for turning A3

CoroTurn® Prime shank tool for turning A4

CoroTurn® Prime QS shank tool for turning A6

T-Max® P

Inserts

Rhombic 80° A8

Rhombic 55° A14

Round A18

Square A19

Triangular A24

Rhombic 35° A28

Trigon 80° A29

Insert for bar peeling

Trigon 80° A31

T-Max®

Inserts

Round A32

CoroTurn® 107

Inserts

Rhombic 80° A33

Rhombic 55° A35

Round A37

Square A38

Triangular A40

Rhombic 35° A42

CoroTurn® TR

Inserts

Rhombic 55° A44

Rhombic 35° A44

CoroTurn® XS

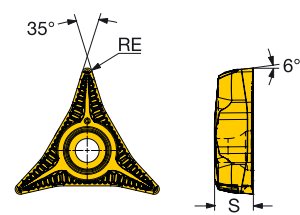
Cutting tools

CoroTurn® XS solid carbide tool for turning A45

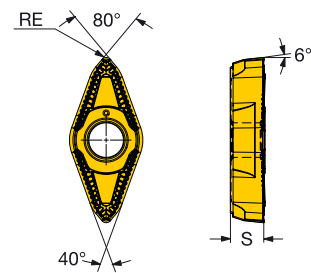
Spare parts A46

Cutting data A49

CoroTurn® Prime insert for turning



						P		M		K	S			
		SSC	LE	S	RE	ISO CODE		1115	4325	1115	2025	4325	4325	1115
Finishing		CP-A	5.2	6.00	0.40	CP-A1104-L5	☆	☆	☆	☆	☆	☆	☆	
			.205	.236	.016									
			5.2	6.00	0.79	CP-A1108-L5	☆	☆	☆	☆	☆	☆	☆	
			.205	.236	.031									
			5.2	6.00	0.79	CP-A1108-L5W	☆	☆	☆	☆	☆	☆	☆	
			.205	.236	.031									



						P		M		K	S			
		SSC	LE	S	RE	ISO CODE		1115	4325	1115	2025	4325	4325	1115
Medium		CP-B	8.6	5.00	0.79	CP-B1108-M5		☆	☆	☆	☆	☆	☆	
			.339	.197	.031									
			8.6	5.00	0.79	CP-B1108-M5W		☆	☆	☆	☆	☆	☆	
			.339	.197	.031									

A49

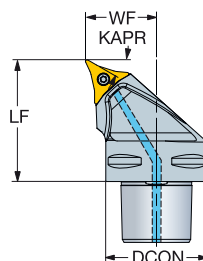
H3

CoroTurn® Prime cutting unit for turning

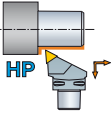
Screw clamp design

KAPR
PSIR

30.0°
60.0°



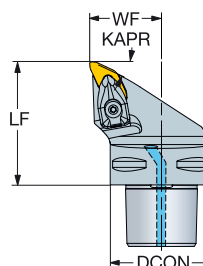
Metric version

						Dimensions, mm							MIID
	SSC	CZC _{MS}	APMX	RMPX	CNSC	Ordering code	DCON	LF	WF	CP Bar	Nm	Kg	
	CP-A	C4	3.0	15°	3	C4-CP-30AR/L-27050-11C	40	50.0	27.0	150	3.0	0.43	CP-A1108
		C5	3.0	15°	3	C5-CP-30AR/L-35060-11C	50	60.0	35.0	150	3.0	0.76	CP-A1108
		C6	3.0	15°	3	C6-CP-30AR/L-45065-11C	63	65.0	45.0	150	3.0	1.25	CP-A1108

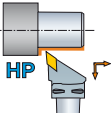
Rigid clamp design

KAPR
PSIR

25.0°
65.0°



Metric version

						Dimensions, mm							MIID
	SSC	CZC _{MS}	APMX	RMPX	CNSC	Ordering code	DCON	LF	WF	CP Bar	Nm	Kg	
	CP-B	C4	4.0	23°	3	C4-CP-25BR/L-27060-11B	40	60.0	27.0	150	3.0	0.43	CP-B1108
		C5	4.0	23°	3	C5-CP-25BR/L-35060-11B	50	60.0	35.0	150	3.0	0.76	CP-B1108
		C6	4.0	23°	3	C6-CP-25BR/L-45065-11B	63	65.0	45.0	150	3.0	1.25	CP-B1108



A2



H3



H10



A46

A

General turning

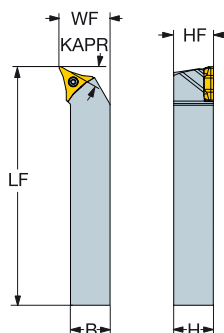
External tools

ENG

CoroTurn® Prime shank tool for turning

Screw clamp design

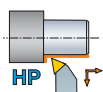
B

KAPR
PSIR30.0°
60.0°

C

Metric version

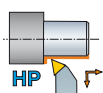
D



							Dimensions, mm								
SSC	CZC _{MS}	APMX	RMPX	OHX	OHN	Ordering code	B	H	LF	WF	HF			MIID	
CP-A	20 x 20	3.0	15°	40.0	23.7	CP-30AR/L-2020-11	20.0	20.0	125.0	25.0	20.0	3.0	0.43	CP-A1108	
	25 x 25	3.0	15°	50.0	23.7	CP-30AR/L-2525-11	25.0	25.0	150.0	32.0	25.0	3.0	0.75	CP-A1108	
	32 x 32	3.0	15°	64.0	23.7	CP-30AR/L-3232-11	32.0	32.0	170.0	40.0	32.0	3.0	1.40	CP-A1108	

Inch version

E



							Dimensions, inch								
SSC	CZC _{MS}	APMX	RMPX	OHX	OHN	Ordering code	B	H	LF	WF	HF			MIID	
CP-A	3/4 x 3/4	.118	15°	1.500	.933	CP-30AR/L-12-11	.750	.750	4.500	1.000	.750	2.2	0.946	CP-A1108	
	1 x 1	.118	15°	2.000	.933	CP-30AR/L-16-11	1.000	1.000	6.000	1.250	1.000	2.2	1.650	CP-A1108	
	1 1/4 x 1 1/4	.118	15°	3.000	.933	CP-30AR/L-20-11	1.250	1.250	6.000	1.498	1.250	2.2	3.080	CP-A1108	

F

G

H



A2



H3



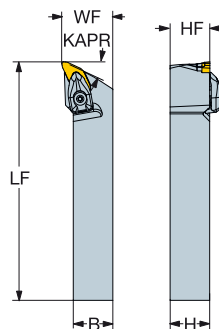
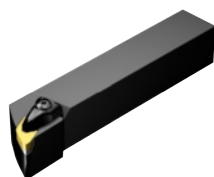
A47

CoroTurn® Prime shank tool for turning

Rigid clamp design

KAPR
PSIR

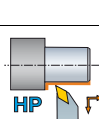
25.0°
65.0°



Metric version

								Dimensions, mm							
	SSC	CZC _{MS}	APMX	RMPX	OHX	OHN	Ordering code	B	H	LF	WF	HF	 	MIID	
	CP-B	20 x 20	4.0	23°	40.0	37.9	CP-25BR/L-2020-11	20.0	20.0	125.0	25.0	20.0	3.0	0.43	CP-B1108
		25 x 25	4.0	23°	50.0	37.5	CP-25BR/L-2525-11	25.0	25.0	150.0	32.0	25.0	3.0	0.75	CP-B1108
		32 x 32	4.0	23°	64.0	37.3	CP-25BR/L-3232-11	32.0	32.0	170.0	40.0	32.0	3.0	1.40	CP-B1108

Inch version

							Dimensions, inch										
	SSC	CZC _{MS}	APMX	RMPX	OHX	OHN	Ordering code	B	H	LF	WF	HF	 	MIID			
	CP-B	3/4 x 3/4	.157	23°	1.500	1.472	CP-25BR/L-12-11	.750	.750	4.500	1.000	.750	2.2	0.946	CP-B1108		
		1 x 1	.157	23°	2.000	1.482	CP-25BR/L-16-11	1.000	1.000	6.000	1.250	1.000	2.2	3.080	CP-B1108		
		1 1/4 x 1 1/4	.157	23°	3.000	1.482	CP-25BR/L-20-11	1.250	1.250	6.000	1.498	1.250	2.2	3.080	CP-B1108		



A2



H3



A47

A

General turning

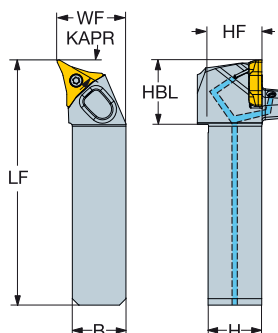
External tools

ENG

CoroTurn® Prime QS shank tool for turning

Screw clamp design

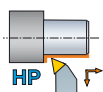
B

KAPR
PSIR30.0°
60.0°

C

Metric version

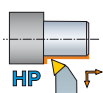
D



						Dimensions, mm												
SSC	CZC _{MS}	APMX	RMPX	OHX	CNSC	Ordering code	B	H	HBL	LF	WF	HF	CNT				MID	
CP-A	20 x 20	3.0	15°	52.0	3	QS-CP-30AR/L-2020-11C	20.0	20.0	32.0	101.0	25.0	20.0	G1/8"	150	3.0	0.32	CP-A1108	
	25 x 25	3.0	15°	55.0	3	QS-CP-30AR/L-2525-11C	25.0	25.0	32.0	114.1	32.0	25.0	G1/8"	150	3.0	0.55	CP-A1108	

Inch version

E



								Dimensions, inch													
SSC	CZC _{MS}	APMX	RMPX	OHX	OHN	CNSC	Ordering code	B	H	HBL	LF	WF	HF	CNT				MIID			
CP-A	3/4 x 3/4	.118	15°	2.008	1.260	3	QS-CP-30AR/L-12-11C	.750	.750	1.260	3.976	1.000	.750	G1/8"	2175	2.2	0.704	CP-A1108			
	1 x 1	.118	15°	2.165	1.181	3	QS-CP-30AR/L-16-11C	1.000	1.000	1.185	4.492	1.250	1.000	G1/8"	2175	2.2	1.210	CP-A1108			

F

G

H



A2



H3



H10



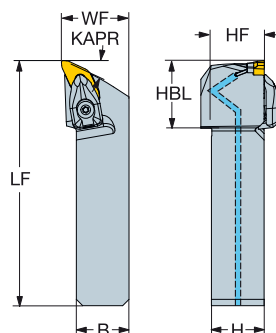
A48

CoroTurn® Prime QS shank tool for turning

Rigid clamp design

KAPR
PSIR

25.0°
65.0°



Metric version

							Dimensions, mm											
	SSC	CZC _{MS}	APMX	RMPX	OHX	CNSC	Ordering code	B	H	HBL	LF	WF	HF	CNT	CP Bar	Nm	Kg	MIID
	CP-B	20 x 20	4.0	23°	52.0	3	QS-CP-25BR/L-2020-11B	20.0	20.0	32.0	101.0	25.0	20.0	G1/8"	150	3.0	0.32	CP-B1108
		25 x 25	4.0	23°	57.0	3	QS-CP-25BR/L-2525-11B	25.0	25.0	32.0	116.0	32.0	25.0	G1/8"	150	3.0	0.55	CP-B1108

Inch version

							Dimensions, inch											
	SSC	CZC _{MS}	APMX	RMPX	OHX	CNSC	Ordering code	B	H	HBL	LF	WF	HF	CNT	CP Bar PSI	Ft/lbs	Lbs	MIID
	CP-B	3/4 x 3/4	.157	23°	2.008	3	QS-CP-25BR/L-12-11B	.750	.750	1.260	3.976	1.000	.750	G1/8"	2175	2.2	0.704	CP-B1108
		1 x 1	.157	23°	2.244	3	QS-CP-25BR/L-16-11B	1.000	1.000	1.260	4.567	1.250	1.000	G1/8"	2175	2.2	1.210	CP-B1108



A2



H3



H10



A48

A

General turning

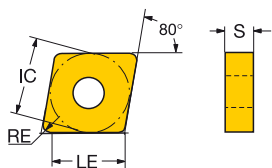
Inserts

ENG

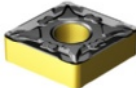
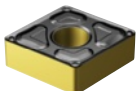
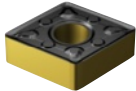
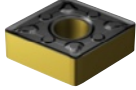
T-Max® P insert for turning

Rhombic 80°

B

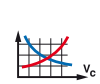


C

							P	M				
			LE	S	RE	ISO CODE	4335	2220	ANSI CODE			
Finishing		12	1/2	12.5	4.76	0.40	CNMG 12 04 04-MF	☆	CNMG 431-MF			
				.492	.187	.016						
				12.1	4.76	0.79	CNMG 12 04 08-MF	☆	CNMG 432-MF			
				.476	.187	.031						
		12	1/2	12.5	4.76	0.40	CNMG 12 04 04-MF	☆	CNMG 431-MF			
				.492	.187	.016						
				12.1	4.76	0.79	CNMG 12 04 08-MF	☆	CNMG 432-MF			
				.476	.187	.031						
				11.7	4.76	1.19	CNMG 12 04 12-MF	☆	CNMG 433-MF			
				.460	.187	.047						
	12	1/2	12.5	4.76	0.40	CNMG 12 04 04-XF	☆	CNMG 431-XF				
			.492	.187	.016							
			12.1	4.76	0.79	CNMG 12 04 08-XF	☆	CNMG 432-XF				
			.476	.187	.031							
Medium		12	1/2	12.1	4.76	0.79	CNMG 12 04 08-WM	☆	CNMG 432-WM			
				.476	.187	.031						
				11.7	4.76	1.19	CNMG 12 04 12-WM	☆	CNMG 433-WM			
				.460	.187	.047						
				12.1	4.76	0.79	CNMG 12 04 08-WMX	☆	CNMG 432-WMX			
				.476	.187	.031						
				11.7	4.76	1.19	CNMG 12 04 12-WMX	☆	CNMG 433-WMX			
				.460	.187	.047						
				16	5/8	14.9	6.35	1.19	CNMG 16 06 12-WMX	☆	CNMG 543-WMX	
				.587	.250	.047						

G

H



A50



H3



H8

C

D

F

A

General turning

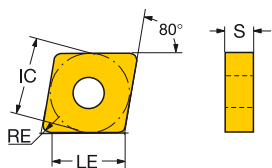
Inserts

ENG

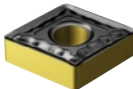
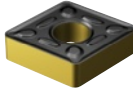
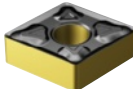
T-Max® P insert for turning

Rhombic 80°

B

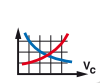


C

							P	M			
			LE	S	RE	ISO CODE	4335	2220	ANSI CODE		
Medium		09	3/8	8.9	3.18	0.79	CNMG 09 03 08-QM	☆		CNMG 322-QM	
				.349	.125	.031					
		12	1/2	12.5	4.76	0.40	CNMG 12 04 04-QM	☆	☆	CNMG 431-QM	
				.492	.187	.016					
				12.1	4.76	0.79	CNMG 12 04 08-QM	☆	☆	CNMG 432-QM	
				.476	.187	.031					
				11.7	4.76	1.19	CNMG 12 04 12-QM	☆	☆	CNMG 433-QM	
				.460	.187	.047					
				11.3	4.76	1.59	CNMG 12 04 16-QM		☆	CNMG 434-QM	
				.445	.187	.062					
			16	5/8	15.3	6.35	0.79	CNMG 16 06 08-QM	☆		CNMG 542-QM
				.603	.250	.031					
				14.9	6.35	1.19	CNMG 16 06 12-QM	☆		CNMG 543-QM	
				.587	.250	.047					
				14.5	6.35	1.59	CNMG 16 06 16-QM		☆	CNMG 544-QM	
				.572	.250	.062					
			19	3/4	18.5	6.35	0.79	CNMG 19 06 08-QM	☆		CNMG 642-QM
				.730	.250	.031					
				18.1	6.35	1.19	CNMG 19 06 12-QM	☆		CNMG 643-QM	
				.714	.250	.047					
				17.7	6.35	1.59	CNMG 19 06 16-QM	☆	☆	CNMG 644-QM	
				.699	.250	.062					
			16	5/8	14.9	6.35	1.19	CNMG 16 06 12-HM	☆		CNMG 543-HM
				.587	.250	.047					
				14.5	6.35	1.59	CNMG 16 06 16-HM	☆		CNMG 544-HM	
				.572	.250	.062					
			19	3/4	18.1	6.35	1.19	CNMG 19 06 12-HM	☆		CNMG 643-HM
				.714	.250	.047					
				17.7	6.35	1.59	CNMG 19 06 16-HM	☆		CNMG 644-HM	
				.699	.250	.062					
			19.0	6.35	2.38	CNMG 19 06 24-HM	☆		CNMG 646-HM		
			.748	.250	.094						
		12	1/2	12.5	4.76	0.40	CNMG 12 04 04-XM		☆	CNMG 431-XM	
			.492	.187	.016						
			12.1	4.76	0.79	CNMG 12 04 08-XM		☆	CNMG 432-XM		
			.476	.187	.031						
			11.7	4.76	1.19	CNMG 12 04 12-XM		☆	CNMG 433-XM		
			.460	.187	.047						

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A50



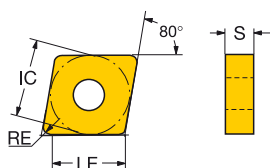
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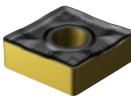
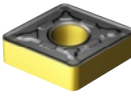
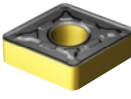


H8

T-Max® P insert for turning

Rhombic 80°



							P	M			
				RE	ISO CODE	4335	2220	ANSI CODE			
Roughing		12	1/2	12.1	4.76	0.79	CNMM 12 04 08-MR	☆	CNMM 432-MR		
				.476	.187	.031					
				11.7	4.76	1.19	CNMM 12 04 12-MR	☆	CNMM 433-MR		
				.460	.187	.047					
				11.3	4.76	1.59	CNMM 12 04 16-MR	☆	CNMM 434-MR		
				.445	.187	.062					
		16	5/8	14.9	6.35	1.19	CNMM 16 06 12-MR	☆	CNMM 543-MR		
				.587	.250	.047					
				14.5	6.35	1.59	CNMM 16 06 16-MR	☆	CNMM 544-MR		
				.572	.250	.062					
		19	3/4	18.1	6.35	1.19	CNMM 19 06 12-MR	☆	CNMM 643-MR		
				.714	.250	.047					
				17.7	6.35	1.59	CNMM 19 06 16-MR	☆	☆	CNMM 644-MR	
				.699	.250	.062					
				16.9	6.35	2.38	CNMM 19 06 24-MR	☆	CNMM 646-MR		
				.667	.250	.094					
		25	1	23.4	9.53	2.38	CNMM 25 09 24-MR	☆	CNMM 866-MR		
				.921	.375	.094					
		12	1/2	11.7	4.76	1.19	CNMG 12 04 12-MRR	☆	CNMG 433-MRR		
				.460	.187	.047					
				11.3	4.76	1.59	CNMG 12 04 16-MRR	☆	CNMG 434-MRR		
				.445	.187	.062					
		16	5/8	14.9	6.35	1.19	CNMG 16 06 12-MRR	☆	CNMG 543-MRR		
				.587	.250	.047					
				14.5	6.35	1.59	CNMG 16 06 16-MRR	☆	CNMG 544-MRR		
				.572	.250	.062					
		19	3/4	17.7	6.35	1.59	CNMG 19 06 16-MRR	☆	CNMG 644-MRR		
				.699	.250	.062					
		12	1/2	12.1	4.76	0.79	CNMG 12 04 08-PR	☆	CNMG 432-PR		
				.476	.187	.031					
				11.7	4.76	1.19	CNMG 12 04 12-PR	☆	CNMG 433-PR		
				.460	.187	.047					
				11.3	4.76	1.59	CNMG 12 04 16-PR	☆	CNMG 434-PR		
				.445	.187	.062					
		16	5/8	15.3	6.35	0.79	CNMG 16 06 08-PR	☆	CNMG 542-PR		
				.603	.250	.031					
				14.9	6.35	1.19	CNMG 16 06 12-PR	☆	CNMG 543-PR		
				.587	.250	.047					
				14.5	6.35	1.59	CNMG 16 06 16-PR	☆	CNMG 544-PR		
				.572	.250	.062					
				13.7	6.35	2.38	CNMG 16 06 24-PR	☆	CNMG 546-PR		
				.540	.250	.094					
		19	3/4	18.5	6.35	0.79	CNMG 19 06 08-PR	☆	CNMG 642-PR		
				.730	.250	.031					
				18.1	6.35	1.19	CNMG 19 06 12-PR	☆	CNMG 643-PR		
				.714	.250	.047					
				17.7	6.35	1.59	CNMG 19 06 16-PR	☆	CNMG 644-PR		
				.699	.250	.062					
			16.9	6.35	2.38	CNMG 19 06 24-PR	☆	CNMG 646-PR			
			.667	.250	.094						
		25	1	23.4	9.53	2.38	CNMG 25 09 24-PR	☆	CNMG 866-PR		
				.921	.375	.094					



A50



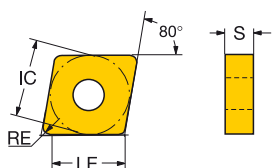
H3

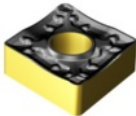
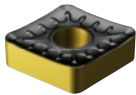
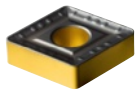


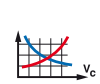
H8

T-Max® P insert for turning

Rhombic 80°



							P	M		
			LE	S	RE	ISO CODE	4335	2220	ANSI CODE	
Roughing		12	1/2	12.1	4.76	0.79	CNMM 12 04 08-PR	☆		CNMM 432-PR
				.476	.187	.031				
				11.7	4.76	1.19	CNMM 12 04 12-PR	☆		CNMM 433-PR
				.460	.187	.047				
				11.3	4.76	1.59	CNMM 12 04 16-PR	☆		CNMM 434-PR
				.445	.187	.062				
		16	5/8	15.3	6.35	0.79	CNMM 16 06 08-PR	☆		CNMM 542-PR
				.603	.250	.031				
				14.9	6.35	1.19	CNMM 16 06 12-PR	☆		CNMM 543-PR
				.587	.250	.047				
				14.5	6.35	1.59	CNMM 16 06 16-PR	☆		CNMM 544-PR
				.572	.250	.062				
		19	3/4	18.1	6.35	1.19	CNMM 19 06 12-PR	☆		CNMM 643-PR
				.714	.250	.047				
				17.7	6.35	1.59	CNMM 19 06 16-PR	☆		CNMM 644-PR
				.699	.250	.062				
				16.9	6.35	2.38	CNMM 19 06 24-PR	☆		CNMM 646-PR
				.667	.250	.094				
		12	1/2	12.1	4.76	0.79	CNMM 12 04 08-QR	☆		CNMM 432-QR
				.476	.187	.031				
				11.7	4.76	1.19	CNMM 12 04 12-QR	☆	☆	CNMM 433-QR
				.460	.187	.047				
		16	5/8	14.9	6.35	1.19	CNMM 16 06 12-QR	☆		CNMM 543-QR
				.587	.250	.047				
				14.5	6.35	1.59	CNMM 16 06 16-QR	☆		CNMM 544-QR
				.572	.250	.062				
		19	3/4	18.1	6.35	1.19	CNMM 19 06 12-QR	☆		CNMM 643-QR
				.714	.250	.047				
				17.7	6.35	1.59	CNMM 19 06 16-QR	☆		CNMM 644-QR
				.699	.250	.062				
			16.9	6.35	2.38	CNMM 19 06 24-QR	☆		CNMM 646-QR	
			.667	.250	.094					
19		3/4	17.7	6.35	1.59	CNMM 19 06 16-HR	☆		CNMM 644-HR	
			.699	.250	.062					
			16.9	6.35	2.38	CNMM 19 06 24-HR	☆		CNMM 646-HR	
			.667	.250	.094					
25		1	23.4	9.53	2.38	CNMM 25 09 24-HR	☆		CNMM 866-HR	
			.921	.375	.094					
			22.6	9.53	3.18	CNMM 25 09 32-HR	☆		CNMM 868-HR	
			.889	.375	.125					



A50



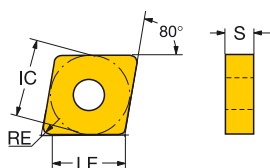
H3



H8

T-Max® P insert for turning

Rhombic 80°



							P	M		
		LE	S	RE	ISO CODE	4335	2220	ANSI CODE		
Roughing		12	1/2	12.1	4.76	0.79	CNMG 12 04 08-MR	☆	CNMG 432-MR	
				.476	.187	.031				
				11.7	4.76	1.19	CNMG 12 04 12-MR	☆	CNMG 433-MR	
				.460	.187	.047				
				11.3	4.76	1.59	CNMG 12 04 16-MR	☆	CNMG 434-MR	
				.445	.187	.062				
		16	5/8	14.9	6.35	1.19	CNMG 16 06 12-MR	☆	CNMG 543-MR	
				.587	.250	.047				
				14.5	6.35	1.59	CNMG 16 06 16-MR	☆	CNMG 544-MR	
				.572	.250	.062				
		19	3/4	18.1	6.35	1.19	CNMG 19 06 12-MR	☆	CNMG 643-MR	
				.714	.250	.047				
				17.7	6.35	1.59	CNMG 19 06 16-MR	☆	CNMG 644-MR	
				.699	.250	.062				
				16.9	6.35	2.38	CNMG 19 06 24-MR	☆	CNMG 646-MR	
				.667	.250	.094				
		25	1	23.4	9.53	2.38	CNMG 25 09 24-MR	☆	CNMG 866-MR	
				.921	.375	.094				
		12	1/2	12.1	4.76	0.79	CNMG 12 04 08-MR	☆	CNMG 432-MR	
				.476	.187	.031				
				11.7	4.76	1.19	CNMG 12 04 12-MR	☆	CNMG 433-MR	
				.460	.187	.047				
				11.3	4.76	1.59	CNMG 12 04 16-MR	☆	CNMG 434-MR	
				.445	.187	.062				
		16	5/8	14.9	6.35	1.19	CNMG 16 06 12-MR	☆	CNMG 543-MR	
				.587	.250	.047				
				14.5	6.35	1.59	CNMG 16 06 16-MR	☆	CNMG 544-MR	
				.572	.250	.062				
		19	3/4	18.1	6.35	1.19	CNMG 19 06 12-MR	☆	CNMG 643-MR	
				.714	.250	.047				
				17.7	6.35	1.59	CNMG 19 06 16-MR	☆	CNMG 644-MR	
				.699	.250	.062				
		12	1/2	12.1	4.76	0.79	CNMG 12 04 08-XMR	☆	CNMG 432-XMR	
				.476	.187	.031				
				11.7	4.76	1.19	CNMG 12 04 12-XMR	☆	CNMG 433-XMR	
				.460	.187	.047				
				11.3	4.76	1.59	CNMG 12 04 16-XMR	☆	CNMG 434-XMR	
				.445	.187	.062				
		16	5/8	14.9	6.35	1.19	CNMG 16 06 12-XMR	☆	CNMG 543-XMR	
				.587	.250	.047				
				14.5	6.35	1.59	CNMG 16 06 16-XMR	☆	CNMG 544-XMR	
				.572	.250	.062				
		19	3/4	18.1	6.35	1.19	CNMG 19 06 12-XMR	☆	CNMG 643-XMR	
				.714	.250	.047				
				17.7	6.35	1.59	CNMG 19 06 16-XMR	☆	CNMG 644-XMR	
				.699	.250	.062				



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H3



H8

A

General turning

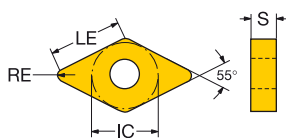
Inserts

ENG

T-Max® P insert for turning

Rhombic 55°

B

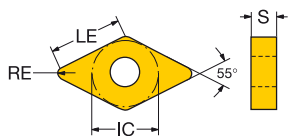


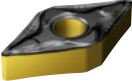
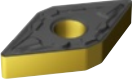
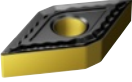
C

								P	M		
								4335	2220		

T-Max® P insert for turning

Rhombic 55°



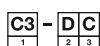
							P	M		
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE
Medium		11	3/8	11.2	4.76	0.40	DNMG 11 04 04-PM	☆		DNMG 331-PM
				.442	.187	.016				
				10.8	4.76	0.79	DNMG 11 04 08-PM	☆		DNMG 332-PM
				.426	.187	.031				
				10.4	4.76	1.19	DNMG 11 04 12-PM	☆		DNMG 333-PM
				.411	.187	.047				
		15	1/2	15.1	4.76	0.40	DNMG 15 04 04-PM	☆		DNMG 431-PM
				.595	.187	.016				
				14.7	4.76	0.79	DNMG 15 04 08-PM	☆		DNMG 432-PM
				.579	.187	.031				
				14.3	4.76	1.19	DNMG 15 04 12-PM	☆		DNMG 433-PM
				.563	.187	.047				
				15.1	6.35	0.40	DNMG 15 06 04-PM	☆		DNMG 441-PM
				.595	.250	.016				
				14.7	6.35	0.79	DNMG 15 06 08-PM	☆		DNMG 442-PM
				.579	.250	.031				
				14.3	6.35	1.19	DNMG 15 06 12-PM	☆		DNMG 443-PM
				.563	.250	.047				
				13.9	6.35	1.59	DNMG 15 06 16-PM	☆		DNMG 444-PM
				.547	.250	.062				
		11	3/8	10.8	4.76	0.79	DNMG 11 04 08-MM	☆		DNMG 332-MM
				.426	.187	.031				
				10.4	4.76	1.19	DNMG 11 04 12-MM	☆		DNMG 333-MM
				.411	.187	.047				
		15	1/2	14.7	4.76	0.79	DNMG 15 04 08-MM	☆		DNMG 432-MM
				.579	.187	.031				
				14.3	4.76	1.19	DNMG 15 04 12-MM	☆		DNMG 433-MM
				.563	.187	.047				
				14.7	6.35	0.79	DNMG 15 06 08-MM	☆		DNMG 442-MM
				.579	.250	.031				
				14.3	6.35	1.19	DNMG 15 06 12-MM	☆		DNMG 443-MM
				.563	.250	.047				
		15	1/2	15.1	4.76	0.40	DNMG 15 04 04-QM	☆		DNMG 431-QM
				.595	.187	.016				
				14.7	4.76	0.79	DNMG 15 04 08-QM	☆	☆	DNMG 432-QM
				.579	.187	.031				
				14.3	4.76	1.19	DNMG 15 04 12-QM	☆	☆	DNMG 433-QM
				.563	.187	.047				
				15.1	6.35	0.40	DNMG 15 06 04-QM	☆	☆	DNMG 441-QM
				.595	.250	.016				
				14.7	6.35	0.79	DNMG 15 06 08-QM	☆	☆	DNMG 442-QM
				.579	.250	.031				
				14.3	6.35	1.19	DNMG 15 06 12-QM	☆	☆	DNMG 443-QM
				.563	.250	.047				
				13.9	6.35	1.59	DNMG 15 06 16-QM	☆	☆	DNMG 444-QM
				.547	.250	.062				



A50



H3



H8

A

General turning

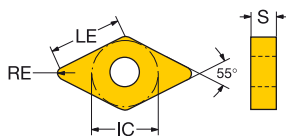
Inserts

ENG

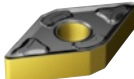
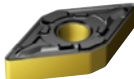
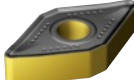
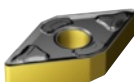
T-Max® P insert for turning

Rhombic 55°

B



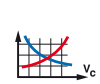
C

								P	M					
								4335	2220					
								ANSI CODE						
Medium		15	1/2	14.7	4.76	0.79	DNMG 15 04 08-XM	☆	DNMG 432-XM					
Roughing		15	1/2	14.3	6.35	1.19	DNMG 15 06 12-MRR	☆	DNMG 443-MRR					
			15	1/2	14.7	6.35	0.79	DNMM 15 06 08-MR	☆	DNMM 442-MR				
			15	1/2	14.3	6.35	1.19	DNMG 15 06 12-XMR	☆	DNMG 443-XMR				
			15	1/2	14.7	4.76	0.79	DNMG 15 04 08-PR	☆	DNMG 432-PR				

F

G

H



A50



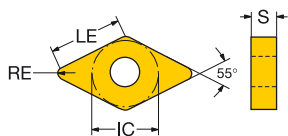
H3



H8

T-Max® P insert for turning

Rhombic 55°



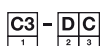
									P	M	
									4335	2220	
			LE	S	RE	ISO CODE					ANSI CODE
Roughing		15	1/2	14.7	6.35	0.79	DNMM 15 06 08-PR	☆			DNMM 442-PR
			.579	.250	.031						
			14.3	6.35	1.19	DNMM 15 06 12-PR	☆				DNMM 443-PR
			.563	.250	.047						
			13.9	6.35	1.59	DNMM 15 06 16-PR	☆				DNMM 444-PR
			.547	.250	.062						
		15	1/2	14.3	6.35	1.19	DNMM 15 06 12-QR	☆			DNMM 443-QR
			.563	.250	.047						
		15	1/2	14.7	6.35	0.79	DNMG 15 06 08-MR	☆			DNMG 442-MR
			.579	.250	.031						
			14.3	6.35	1.19	DNMG 15 06 12-MR	☆				DNMG 443-MR
			.563	.250	.047						
			13.9	6.35	1.59	DNMG 15 06 16-MR	☆				DNMG 444-MR
			.547	.250	.062						
		15	1/2	14.7	4.76	0.79	DNMG 15 04 08-MR	☆			DNMG 432-MR
			.579	.187	.031						
			14.3	4.76	1.19	DNMG 15 04 12-MR	☆				DNMG 433-MR
			.563	.187	.047						
			13.9	4.76	1.59	DNMG 15 04 16-MR	☆				DNMG 434-MR
			.547	.187	.062						
			14.7	6.35	0.79	DNMG 15 06 08-MR	☆				DNMG 442-MR
			.579	.250	.031						
			14.3	6.35	1.19	DNMG 15 06 12-MR	☆				DNMG 443-MR
			.563	.250	.047						
			13.9	6.35	1.59	DNMG 15 06 16-MR	☆				DNMG 444-MR
			.547	.250	.062						



A50



H3

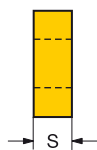
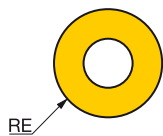


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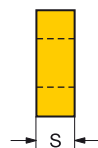
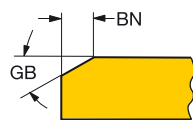
T-Max® P insert for turning

Round

RNMG



RCMX

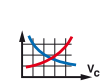


Metric version

								P	
			S	RE	GB	BN	ISO CODE	4335	
Medium		10	3.18	5.00	15°	0.20	RCMX 10 03 00	☆	
		12	4.76	6.00	15°	0.20	RCMX 12 04 00	☆	
		16	6.35	8.00	15°	0.25	RCMX 16 06 00	☆	
		20	6.35	10.00	15°	0.30	RCMX 20 06 00	☆	
		25	7.94	12.50	15°	0.40	RCMX 25 07 00	☆	
		32	9.53	16.00	15°	0.40	RCMX 32 09 00	☆	

Inch version

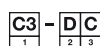
								P	
			S	RE	IC	ISO CODE	ANSI CODE	4335	
Medium		3/8	.125	.187		RNMG 09 03 00	☆ RNMG 32		
		1/2	.187	.250		RNMG 12 04 00	☆ RNMG 43		
		5/8	.250	.313		RNMG 15 06 00	☆ RNMG 54		
		3/4	.250	.375		RNMG 19 06 00	☆ RNMG 64		
		1	.375	.500		RNMG 25 09 00	☆ RNMG 86		



A50



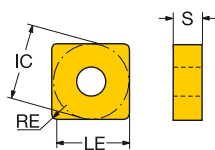
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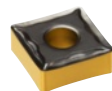
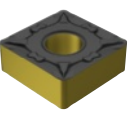
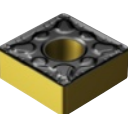
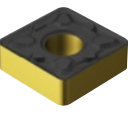


H8

T-Max® P insert for turning

Square



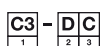
							P	M		
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE
Finishing		12	1/2	11.9	4.76	0.79	SNMG 12 04 08-MF	☆		SNMG 432-MF
				.469	.187	.031				
				11.5	4.76	1.19	SNMG 12 04 12-MF	☆		SNMG 433-MF
				.453	.187	.047				
		12	1/2	12.3	4.76	0.40	SNMG 12 04 04-MF	☆		SNMG 431-MF
				.484	.187	.016				
				11.9	4.76	0.79	SNMG 12 04 08-MF	☆		SNMG 432-MF
				.469	.187	.031				
Medium		09	3/8	9.1	3.18	0.40	SNMG 09 03 04-PM	☆		SNMG 321-PM
				.359	.125	.016				
				8.7	3.18	0.79	SNMG 09 03 08-PM	☆		SNMG 322-PM
				.344	.125	.031				
		12	1/2	12.3	4.76	0.40	SNMG 12 04 04-PM	☆		SNMG 431-PM
				.484	.187	.016				
				11.9	4.76	0.79	SNMG 12 04 08-PM	☆		SNMG 432-PM
				.469	.187	.031				
				11.5	4.76	1.19	SNMG 12 04 12-PM	☆		SNMG 433-PM
				.453	.187	.047				
				11.1	4.76	1.59	SNMG 12 04 16-PM	☆		SNMG 434-PM
				.437	.187	.062				
		15	5/8	14.7	6.35	1.19	SNMG 15 06 12-PM	☆		SNMG 543-PM
				.578	.250	.047				
		12	1/2	11.9	4.76	0.79	SNMG 12 04 08-MM	☆		SNMG 432-MM
				.469	.187	.031				
				11.5	4.76	1.19	SNMG 12 04 12-MM	☆		SNMG 433-MM
				.453	.187	.047				
				11.1	4.76	1.59	SNMG 12 04 16-MM	☆		SNMG 434-MM
				.437	.187	.062				
		15	5/8	14.7	6.35	1.19	SNMG 15 06 12-MM	☆		SNMG 543-MM
				.578	.250	.047				
				14.3	6.35	1.59	SNMG 15 06 16-MM	☆		SNMG 544-MM
				.562	.250	.062				
		19	3/4	17.9	6.35	1.19	SNMG 19 06 12-MM	☆		SNMG 643-MM
				.703	.250	.047				
				17.5	6.35	1.59	SNMG 19 06 16-MM	☆		SNMG 644-MM
				.687	.250	.062				



A50



H3



H8

A

General turning

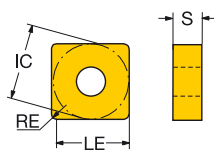
Inserts

ENG

T-Max® P insert for turning

Square

B

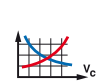


C

						P		M		
		LE	S	RE	ISO CODE	4335	2220		ANSI CODE	
Medium		09	3/8	8.7	3.18	0.79	☆		SNMG 09 03 08-QM	
				.344	.125	.031			SNMG 322-QM	
		12	1/2	12.3	4.76	0.40	☆		SNMG 12 04 04-QM	
				.484	.187	.016			SNMG 431-QM	
				11.9	4.76	0.79	☆	☆	SNMG 12 04 08-QM	
				.469	.187	.031			SNMG 432-QM	
				11.5	4.76	1.19	☆	☆	SNMG 12 04 12-QM	
				.453	.187	.047			SNMG 433-QM	
				11.1	4.76	1.59		☆	SNMG 12 04 16-QM	
				.437	.187	.062			SNMG 434-QM	
		15	5/8	14.7	6.35	1.19		☆	SNMG 15 06 12-QM	
				.578	.250	.047			SNMG 543-QM	
				14.3	6.35	1.59		☆	SNMG 15 06 16-QM	
				.562	.250	.062			SNMG 544-QM	
		15	5/8	14.7	6.35	1.19	☆		SNMG 15 06 12-HM	
				.578	.250	.047			SNMG 543-HM	
				14.3	6.35	1.59	☆		SNMG 15 06 16-HM	
				.562	.250	.062			SNMG 544-HM	
		19	3/4	17.9	6.35	1.19	☆		SNMG 19 06 12-HM	
				.703	.250	.047			SNMG 643-HM	
				17.5	6.35	1.59	☆		SNMG 19 06 16-HM	
				.687	.250	.062			SNMG 644-HM	
				19.0	6.35	2.38	☆		SNMG 19 06 24-HM	
				.748	.250	.094			SNMG 646-HM	
Roughing		12	1/2	11.9	4.76	0.79		☆	SNMG 12 04 08-XM	
				.469	.187	.031			SNMG 432-XM	
				11.5	4.76	1.19		☆	SNMG 12 04 12-XM	
				.453	.187	.047			SNMG 433-XM	
Roughing		19	3/4	17.5	6.35	1.59		☆	SNMG 19 06 16-MRR	
				.687	.250	.062			SNMG 644-MRR	
				16.7	6.35	2.38		☆	SNMG 19 06 24-MRR	
				.656	.250	.094			SNMG 646-MRR	

G

H



A50



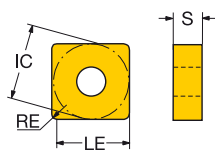
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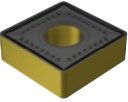
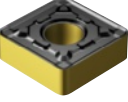


H8

T-Max® P insert for turning

Square



											P	M	
											4335	2220	
				LE	S	RE	ISO CODE						ANSI CODE
Roughing		12	1/2	11.9	4.76	0.79	SNMM 12 04 08-MR				☆		SNMM 432-MR
				.469	.187	.031							
				11.5	4.76	1.19	SNMM 12 04 12-MR			☆	☆		SNMM 433-MR
				.453	.187	.047							
				11.1	4.76	1.59	SNMM 12 04 16-MR				☆		SNMM 434-MR
				.437	.187	.062							
		19	3/4	17.9	6.35	1.19	SNMM 19 06 12-MR				☆		SNMM 643-MR
				.703	.250	.047							
				17.5	6.35	1.59	SNMM 19 06 16-MR			☆	☆		SNMM 644-MR
				.687	.250	.062							
				16.7	6.35	2.38	SNMM 19 06 24-MR			☆	☆		SNMM 646-MR
				.656	.250	.094							
				15.9	6.35	3.18	SNMM 19 06 32-MR			☆			SNMM 648-MR
				.624	.250	.125							
		25	1	23.0	7.94	2.38	SNMM 25 07 24-MR			☆	☆		SNMM 856-MR
				.906	.313	.094							
				22.2	7.94	3.18	SNMM 25 07 32-MR			☆			SNMM 858-MR
				.874	.313	.125							
		12	1/2	11.9	4.76	0.79	SNMG 12 04 08-PR			☆			SNMG 432-PR
				.469	.187	.031							
				11.5	4.76	1.19	SNMG 12 04 12-PR			☆			SNMG 433-PR
				.453	.187	.047							
				11.1	4.76	1.59	SNMG 12 04 16-PR			☆			SNMG 434-PR
				.437	.187	.062							
		15	5/8	15.1	6.35	0.79	SNMG 15 06 08-PR			☆			SNMG 542-PR
				.594	.250	.031							
				14.7	6.35	1.19	SNMG 15 06 12-PR			☆			SNMG 543-PR
				.578	.250	.047							
				14.3	6.35	1.59	SNMG 15 06 16-PR			☆			SNMG 544-PR
				.562	.250	.062							
		19	3/4	18.3	6.35	0.79	SNMG 19 06 08-PR			☆			SNMG 642-PR
				.719	.250	.031							
				17.9	6.35	1.19	SNMG 19 06 12-PR			☆			SNMG 643-PR
				.703	.250	.047							
				17.5	6.35	1.59	SNMG 19 06 16-PR			☆			SNMG 644-PR
				.687	.250	.062							
				16.7	6.35	2.38	SNMG 19 06 24-PR			☆			SNMG 646-PR
				.656	.250	.094							
		25	1	23.8	7.94	1.59	SNMG 25 07 16-PR			☆			SNMG 854-PR
				.937	.313	.062							
				23.0	7.94	2.38	SNMG 25 07 24-PR			☆			SNMG 856-PR
				.906	.313	.094							
				23.0	9.53	2.38	SNMG 25 09 24-PR			☆			SNMG 866-PR
				.906	.375	.094							



A50



H3

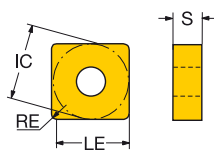


H8

T-Max® P insert for turning

Square

B

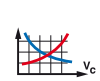


C

								P		M			
								4335	2220				
		LE	S	RE	ISO CODE								
D		12	1/2	11.9	4.76	0.79	SNMM 12 04 08-PR	☆			SNMM 432-PR		
				.469	.187	.031							
				11.5	4.76	1.19	SNMM 12 04 12-PR	☆			SNMM 433-PR		
				.453	.187	.047							
		15	5/8	14.7	6.35	1.19	SNMM 15 06 12-PR	☆			SNMM 543-PR		
				.578	.250	.047							
				14.3	6.35	1.59	SNMM 15 06 16-PR	☆			SNMM 544-PR		
				.562	.250	.062							
		19	3/4	17.9	6.35	1.19	SNMM 19 06 12-PR	☆			SNMM 643-PR		
				.703	.250	.047							
				17.5	6.35	1.59	SNMM 19 06 16-PR	☆			SNMM 644-PR		
				.687	.250	.062							
				16.7	6.35	2.38	SNMM 19 06 24-PR	☆			SNMM 646-PR		
				.656	.250	.094							
		12	1/2	11.9	4.76	0.79	SNMM 12 04 08-QR	☆			SNMM 432-QR		
				.469	.187	.031							
				11.5	4.76	1.19	SNMM 12 04 12-QR	☆			SNMM 433-QR		
				.453	.187	.047							
				11.1	4.76	1.59	SNMM 12 04 16-QR	☆			SNMM 434-QR		
				.437	.187	.062							
		15	5/8	15.1	6.35	0.79	SNMM 15 06 08-QR	☆			SNMM 542-QR		
				.594	.250	.031							
				14.7	6.35	1.19	SNMM 15 06 12-QR	☆			SNMM 543-QR		
				.578	.250	.047							
		19	3/4	17.9	6.35	1.19	SNMM 19 06 12-QR	☆			SNMM 643-QR		
				.703	.250	.047							
				17.5	6.35	1.59	SNMM 19 06 16-QR	☆			SNMM 644-QR		
				.687	.250	.062							
		19	3/4	17.5	6.35	1.59	SNMM 19 06 16-HR	☆			SNMM 644-HR		
				.687	.250	.062							
				16.7	6.35	2.38	SNMM 19 06 24-HR	☆			SNMM 646-HR		
				.656	.250	.094							
		25	1	23.0	7.94	2.38	SNMM 25 07 24-HR	☆			SNMM 856-HR		
				.906	.313	.094							
				22.2	7.94	3.18	SNMM 25 07 32-HR	☆			SNMM 858-HR		
				.874	.313	.125							
				23.0	9.53	2.38	SNMM 25 09 24-HR	☆			SNMM 866-HR		
				.906	.375	.094							
				22.2	9.53	3.18	SNMM 25 09 32-HR	☆			SNMM 868-HR		
				.874	.375	.125							
		12	1/2	11.9	4.76	0.79	SNMG 12 04 08-MR	☆			SNMG 432-MR		
				.469	.187	.031							
				11.5	4.76	1.19	SNMG 12 04 12-MR	☆			SNMG 433-MR		
				.453	.187	.047							
		15	5/8	14.7	6.35	1.19	SNMG 15 06 12-MR	☆			SNMG 543-MR		
				.578	.250	.047							
				14.3	6.35	1.59	SNMG 15 06 16-MR	☆			SNMG 544-MR		
				.562	.250	.062							
		19	3/4	17.9	6.35	1.19	SNMG 19 06 12-MR	☆			SNMG 643-MR		
				.703	.250	.047							
				17.5	6.35	1.59	SNMG 19 06 16-MR	☆			SNMG 644-MR		
				.687	.250	.062							

G

H



A50



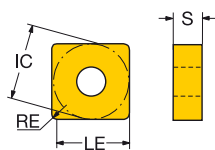
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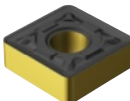


H8

T-Max® P insert for turning

Square



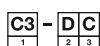
								P	M		
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE	
Roughing		12	1/2	11.9	4.76	0.79	SNMG 12 04 08-MR		☆	SNMG 432-MR	
				.469	.187	.031					
				11.5	4.76	1.19	SNMG 12 04 12-MR		☆	SNMG 433-MR	
				.453	.187	.047					
		15	5/8	14.7	6.35	1.19	SNMG 15 06 12-MR		☆	SNMG 543-MR	
				.578	.250	.047					
				14.3	6.35	1.59	SNMG 15 06 16-MR		☆	SNMG 544-MR	
				.562	.250	.062					
		19	3/4	17.9	6.35	1.19	SNMG 19 06 12-MR		☆	SNMG 643-MR	
				.703	.250	.047					
				17.5	6.35	1.59	SNMG 19 06 16-MR		☆	SNMG 644-MR	
				.687	.250	.062					
			16.7	6.35	2.38	SNMG 19 06 24-MR		☆	SNMG 646-MR		
			.656	.250	.094						
		25	1	23.0	9.53	2.38	SNMG 25 09 24-MR		☆	SNMG 866-MR	
				.906	.375	.094					
	12	1/2	11.9	4.76	0.79	SNMG 12 04 08-XMR		☆	SNMG 432-XMR		
			.469	.187	.031						
			11.5	4.76	1.19	SNMG 12 04 12-XMR		☆	SNMG 433-XMR		
			.453	.187	.047						
			11.1	4.76	1.59	SNMG 12 04 16-XMR		☆	SNMG 434-XMR		
			.437	.187	.062						



A50



H3



H8

A

General turning

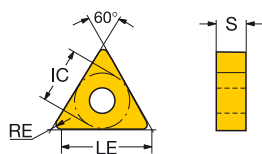
Inserts

ENG

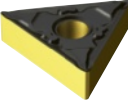
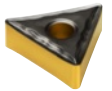
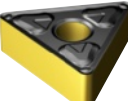
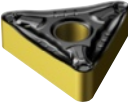
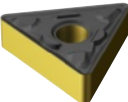
T-Max® P insert for turning

Triangular

B

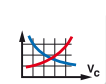


C

								P M			
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE	
Finishing		16	3/8	16.1	4.76	0.40	TNMG 16 04 04-MF	☆	☆	TNMG 331-MF	
		.634	.187	.016							
		15.7	4.76	0.79			TNMG 16 04 08-MF	☆	☆	TNMG 332-MF	
		.618	.187	.031							
		16	3/8	16.1	4.76	0.40	TNMG 16 04 04-MF	☆	☆	TNMG 331-MF	
		.634	.187	.016							
		15.7	4.76	0.79			TNMG 16 04 08-MF	☆	☆	TNMG 332-MF	
		.618	.187	.031							
Medium		16	3/8	16.1	4.76	0.40	TNMG 16 04 04-XF	☆	☆	TNMG 331-XF	
		.634	.187	.016							
		15.7	4.76	0.79			TNMG 16 04 08-XF	☆	☆	TNMG 332-XF	
		.618	.187	.031							
		16	3/8	16.1	4.76	0.40	TNMG 16 04 04-PM	☆	☆	TNMG 331-PM	
		.634	.187	.016							
		15.7	4.76	0.79			TNMG 16 04 08-PM	☆	☆	TNMG 332-PM	
		.618	.187	.031							
		15.3	4.76	1.19			TNMG 16 04 12-PM	☆	☆	TNMG 333-PM	
		.602	.187	.047							
		22	1/2	21.6	4.76	0.40	TNMG 22 04 04-PM	☆	☆	TNMG 431-PM	
		.850	.187	.016							
		21.2	4.76	0.79			TNMG 22 04 08-PM	☆	☆	TNMG 432-PM	
		.835	.187	.031							
		20.8	4.76	1.19			TNMG 22 04 12-PM	☆	☆	TNMG 433-PM	
		.819	.187	.047							
		20.4	4.76	1.59			TNMG 22 04 16-PM	☆	☆	TNMG 434-PM	
		.803	.187	.062							
		16	3/8	15.7	4.76	0.79	TNMG 16 04 08-MM	☆	☆	TNMG 332-MM	
		.618	.187	.031							
		15.3	4.76	1.19			TNMG 16 04 12-MM	☆	☆	TNMG 333-MM	
		.602	.187	.047							
		22	1/2	21.2	4.76	0.79	TNMG 22 04 08-MM	☆	☆	TNMG 432-MM	
		.835	.187	.031							
		20.8	4.76	1.19			TNMG 22 04 12-MM	☆	☆	TNMG 433-MM	
		.819	.187	.047							
		20.4	4.76	1.59			TNMG 22 04 16-MM	☆	☆	TNMG 434-MM	
		.803	.187	.062							

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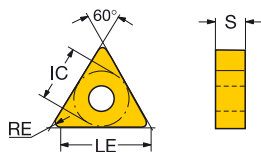
H3

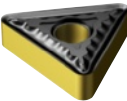
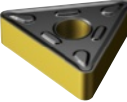
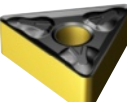


H8

T-Max® P insert for turning

Triangular



								P	M			
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE		
Medium		11	1/4	10.6	3.18	0.40	TNMG 11 03 04-QM	☆		TNMG 221-QM		
				.417	.125	.016						
				10.2	3.18	0.79	TNMG 11 03 08-QM	☆		TNMG 222-QM		
				.401	.125	.031						
		16	3/8	16.1	4.76	0.40	TNMG 16 04 04-QM	☆	☆	TNMG 331-QM		
				.634	.187	.016						
				15.7	4.76	0.79	TNMG 16 04 08-QM	☆	☆	TNMG 332-QM		
				.618	.187	.031						
				15.3	4.76	1.19	TNMG 16 04 12-QM	☆		TNMG 333-QM		
				.602	.187	.047						
		22	1/2	21.6	4.76	0.40	TNMG 22 04 04-QM	☆		TNMG 431-QM		
				.850	.187	.016						
				21.2	4.76	0.79	TNMG 22 04 08-QM	☆		TNMG 432-QM		
				.835	.187	.031						
				20.8	4.76	1.19	TNMG 22 04 12-QM	☆		TNMG 433-QM		
				.819	.187	.047						
				20.4	4.76	1.59	TNMG 22 04 16-QM	☆		TNMG 434-QM		
				.803	.187	.062						
		27	5/8	27.0	6.35	1.19	TNMG 27 06 12-HM	☆		TNMG 543-HM		
				1.063	.250	.047						
		33	3/4	33.0	9.53	2.38	TNMG 33 09 24-HM	☆		TNMG 666-HM		
				1.299	.375	.094						
		16	3/8	15.7	4.76	0.79	TNMG 16 04 08-XM		☆	TNMG 332-XM		
				.618	.187	.031						



A50



H3



H8

A

General turning

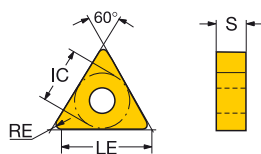
Inserts

ENG

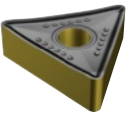
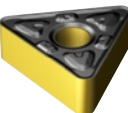
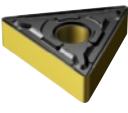
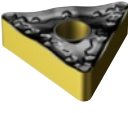
T-Max® P insert for turning

Triangular

B

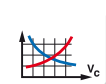


C

							P	M		
				LE	S	RE			4335	2220
									ANSI CODE	
D		22	1/2	21.2	4.76	0.79	TNMM 22 04 08-MR	☆		TNMM 432-MR
				.835	.187	.031				
				20.8	4.76	1.19	TNMM 22 04 12-MR	☆		TNMM 433-MR
				.819	.187	.047				
				20.4	4.76	1.59	TNMM 22 04 16-MR	☆		TNMM 434-MR
				.803	.187	.062				
		27	5/8	26.3	6.35	1.19	TNMM 27 06 12-MR	☆		TNMM 543-MR
				1.035	.250	.047				
		16	3/8	15.7	4.76	0.79	TNMG 16 04 08-XMR	☆		TNMG 332-XMR
				.618	.187	.031				
		16	3/8	15.7	4.76	0.79	TNMG 16 04 08-PR	☆		TNMG 332-PR
				.618	.187	.031				
				15.3	4.76	1.19	TNMG 16 04 12-PR	☆		TNMG 333-PR
				.602	.187	.047				
		22	1/2	21.2	4.76	0.79	TNMG 22 04 08-PR	☆		TNMG 432-PR
				.835	.187	.031				
				20.8	4.76	1.19	TNMG 22 04 12-PR	☆		TNMG 433-PR
				.819	.187	.047				
				20.4	4.76	1.59	TNMG 22 04 16-PR	☆		TNMG 434-PR
				.803	.187	.062				
		27	5/8	26.7	6.35	0.79	TNMG 27 06 08-PR	☆		TNMG 542-PR
				1.051	.250	.031				
				26.3	6.35	1.19	TNMG 27 06 12-PR	☆		TNMG 543-PR
				1.035	.250	.047				
				25.9	6.35	1.59	TNMG 27 06 16-PR	☆		TNMG 544-PR
				1.020	.250	.062				
		33	3/4	31.4	7.94	1.59	TNMG 33 07 16-PR	☆		TNMG 654-PR
				1.236	.313	.062				
				30.6	9.53	2.38	TNMG 33 09 24-PR	☆		TNMG 666-PR
				1.205	.375	.094				
E		16	3/8	15.7	4.76	0.79	TNMM 16 04 08-PR	☆		TNMM 332-PR
				.618	.187	.031				
				15.3	4.76	1.19	TNMM 16 04 12-PR	☆		TNMM 333-PR
				.602	.187	.047				
		22	1/2	21.2	4.76	0.79	TNMM 22 04 08-PR	☆		TNMM 432-PR
				.835	.187	.031				
				20.8	4.76	1.19	TNMM 22 04 12-PR	☆		TNMM 433-PR
				.819	.187	.047				
				20.4	4.76	1.59	TNMM 22 04 16-PR	☆		TNMM 434-PR
				.803	.187	.062				

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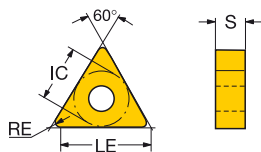
H3

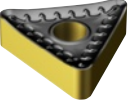
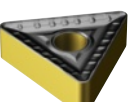
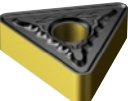
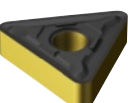


H8

T-Max® P insert for turning

Triangular



						P		M		
				LE	S	RE	ISO CODE		4335	2220
Roughing		16	3/8	15.7	4.76	0.79	TNMM 16 04 08-QR		☆	TNMM 332-QR
				.618	.187	.031				
		22	1/2	20.8	4.76	1.19	TNMM 22 04 12-QR		☆	TNMM 433-QR
				.819	.187	.047				
				20.4	4.76	1.59	TNMM 22 04 16-QR		☆	TNMM 434-QR
				.803	.187	.062				
		27	5/8	26.3	6.35	1.19	TNMM 27 06 12-QR		☆	TNMM 543-QR
				1.035	.250	.047				
				25.9	6.35	1.59	TNMM 27 06 16-HR		☆	TNMM 544-HR
				1.020	.250	.062				
				25.1	6.35	2.38	TNMM 27 06 24-HR		☆	TNMM 546-HR
				.988	.250	.094				
		16	3/8	15.7	4.76	0.79	TNMG 16 04 08-MR		☆	TNMG 332-MR
				.618	.187	.031				
				15.3	4.76	1.19	TNMG 16 04 12-MR		☆	TNMG 333-MR
				.602	.187	.047				
		22	1/2	21.2	4.76	0.79	TNMG 22 04 08-MR		☆	TNMG 432-MR
				.835	.187	.031				
				20.8	4.76	1.19	TNMG 22 04 12-MR		☆	TNMG 433-MR
				.819	.187	.047				
				20.4	4.76	1.59	TNMG 22 04 16-MR		☆	TNMG 434-MR
				.803	.187	.062				
		27	5/8	26.7	6.35	0.79	TNMG 27 06 08-MR		☆	TNMG 542-MR
				1.051	.250	.031				
				26.3	6.35	1.19	TNMG 27 06 12-MR		☆	TNMG 543-MR
				1.035	.250	.047				
				25.9	6.35	1.59	TNMG 27 06 16-MR		☆	TNMG 544-MR
				1.020	.250	.062				
		16	3/8	15.7	4.76	0.79	TNMG 16 04 08-MR		☆	TNMG 332-MR
				.618	.187	.031				
				15.3	4.76	1.19	TNMG 16 04 12-MR		☆	TNMG 333-MR
				.602	.187	.047				
		22	1/2	21.2	4.76	0.79	TNMG 22 04 08-MR		☆	TNMG 432-MR
				.835	.187	.031				
				20.8	4.76	1.19	TNMG 22 04 12-MR		☆	TNMG 433-MR
				.819	.187	.047				
				20.4	4.76	1.59	TNMG 22 04 16-MR		☆	TNMG 434-MR
				.803	.187	.062				



A50



H3

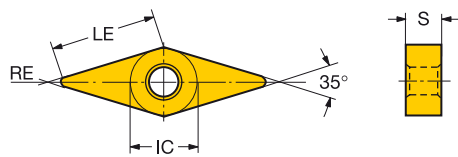


H8

A

T-Max® P insert for turning
Rhombic 35°

B



C

						P	M		
						4335	2220		
Finishing		16	3/8	16.2	4.76	0.40	VNMG 16 04 04-MF	☆	VNMG 331-MF
				.638	.187	.016			
				15.8	4.76	0.79	VNMG 16 04 08-MF	☆	VNMG 332-MF
				.622	.187	.031			
Medium		16	3/8	15.8	4.76	0.79	VNMG 16 04 08-PM	☆	VNMG 332-PM
				.622	.187	.031			
				15.4	4.76	1.19	VNMG 16 04 12-PM	☆	VNMG 333-PM
				.607	.187	.047			
Medium		16	3/8	15.8	4.76	0.79	VNMG 16 04 08-MM	☆	VNMG 332-MM
				.622	.187	.031			
Medium		16	3/8	15.8	4.76	0.79	VNMG 16 04 08-QM	☆	VNMG 332-QM
				.622	.187	.031			

D

E

F

G

H

A50

ISO 13399

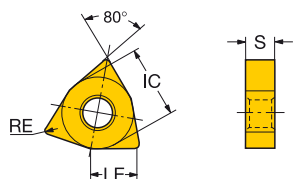
H3

C3 - D3

H8

T-Max® P insert for turning

Trigon 80°



							P	M		
			LE	S	RE	ISO CODE	4335	2220	ANSI CODE	
Finishing		08 1/2	7.9	4.76	0.79	WNMG 08 04 08-MF	☆		WNMG 432-MF	
			.311	.187	.031					
		06 3/8	6.1	4.76	0.40	WNMG 06 04 04-MF	☆		WNMG 331-MF	
			.241	.187	.016					
			5.7	4.76	0.79	WNMG 06 04 08-MF	☆		WNMG 332-MF	
			.225	.187	.031					
		08 1/2	8.3	4.76	0.40	WNMG 08 04 04-MF	☆		WNMG 431-MF	
Medium			.326	.187	.016					
			7.9	4.76	0.79	WNMG 08 04 08-MF	☆		WNMG 432-MF	
			.311	.187	.031					
		08 1/2	7.9	4.76	0.79	WNMG 08 04 08-WM	☆		WNMG 432-WM	
			.311	.187	.031					
			7.5	4.76	1.19	WNMG 08 04 12-WM	☆		WNMG 433-WM	
			.295	.187	.047					
			2.2	4.76	0.79	WNMG 08 04 08-WMX	☆		WNMG 432-WMX	
			.087	.187	.031					
		06 3/8	5.7	4.76	0.79	WNMG 06 04 08-PM	☆		WNMG 332-PM	
			.225	.187	.031					
			5.3	4.76	1.19	WNMG 06 04 12-PM	☆		WNMG 333-PM	
			.209	.187	.047					
		08 1/2	7.9	4.76	0.79	WNMG 08 04 08-PM	☆		WNMG 432-PM	
			.311	.187	.031					
			7.5	4.76	1.19	WNMG 08 04 12-PM	☆		WNMG 433-PM	
			.295	.187	.047					
		06 3/8	5.7	4.76	0.79	WNMG 06 04 08-MM	☆		WNMG 332-MM	
			.225	.187	.031					
			5.3	4.76	1.19	WNMG 06 04 12-MM	☆		WNMG 333-MM	
			.209	.187	.047					
		08 1/2	7.9	4.76	0.79	WNMG 08 04 08-MM	☆		WNMG 432-MM	
			.311	.187	.031					
			7.5	4.76	1.19	WNMG 08 04 12-MM	☆		WNMG 433-MM	
			.295	.187	.047					



A50



H3



H8

A

General turning

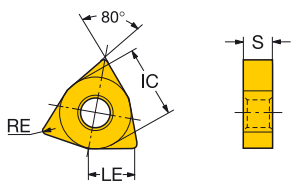
Inserts

ENG

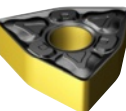
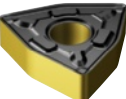
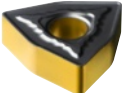
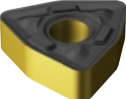
T-Max® P insert for turning

Trigon 80°

B

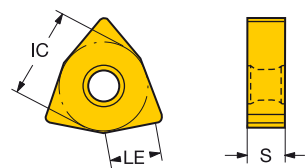


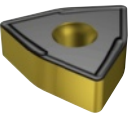
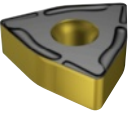
C

									P		M		
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE			
Medium		06	3/8	5.7	4.76	0.79	WNMG 06 04 08-QM	☆		WNMG 332-QM			
		08	1/2	7.9	4.76	0.79	WNMG 08 04 08-QM	☆	☆	WNMG 432-QM			
		7.5	4.76	1.19	WNMG 08 04 12-QM	☆	☆	WNMG 433-QM					
		7.1	4.76	1.59	WNMG 08 04 16-QM	☆		WNMG 434-QM					
		08	1/2	7.9	4.76	0.79	WNMG 08 04 08-XM		☆	WNMG 432-XM			
		7.5	4.76	1.19	WNMG 08 04 12-XM		☆	WNMG 433-XM					
Roughing		08	1/2	7.5	4.76	1.19	WNMG 08 04 12-XMR			☆	WNMG 433-XMR		
		06	3/8	5.7	4.76	0.79	WNMG 06 04 08-PR	☆		WNMG 332-PR			
		5.3	4.76	1.19	WNMG 06 04 12-PR	☆		WNMG 333-PR					
		08	1/2	7.9	4.76	0.79	WNMG 08 04 08-PR	☆		WNMG 432-PR			
		7.5	4.76	1.19	WNMG 08 04 12-PR	☆		WNMG 433-PR					
		7.1	4.76	1.59	WNMG 08 04 16-PR	☆		WNMG 434-PR					
		08	1/2	7.9	4.76	0.79	WNMG 08 04 08-MR	☆		WNMG 432-MR			
		7.5	4.76	1.19	WNMG 08 04 12-MR	☆		WNMG 433-MR					
	06	3/8	5.7	4.76	0.79	WNMG 06 04 08-MR		☆	WNMG 332-MR				
	5.3	4.76	1.19	WNMG 06 04 12-MR		☆	WNMG 333-MR						
	08	1/2	7.9	4.76	0.79	WNMG 08 04 08-MR		☆	WNMG 432-MR				
		7.5	4.76	1.19	WNMG 08 04 12-MR		☆	WNMG 433-MR					
		2.95	.187	.047									

Insert for bar peeling

Trigon 80°

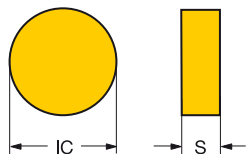


											P	M	
			LE	S	RE	APMX	BS	KCH	CHW	ISO CODE	4335	2220	
Medium		15	7/8	13.0	9.53	11.00	3.0	5.3	100°	11.0	WNMX 15 09 31-MM	☆	☆
				.512	.375	.433	.118	.209	100°	.433			
		21	1 1/4	15.0	12.70	16.00	5.0	7.5	100°	18.0	WNMX 21 12 51-MM	☆	
				.591	.500	.630	.197	.295	100°	.709			

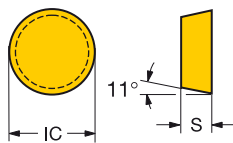
T-Max® insert for turning

Round

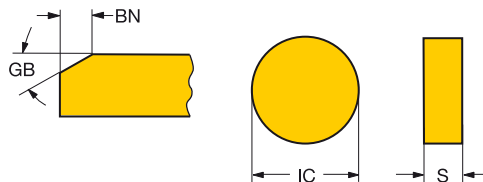
RNGN..E

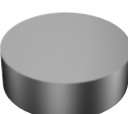
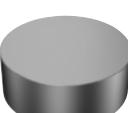


RPGN..E



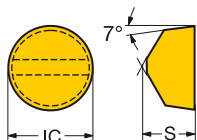
RNGN..T/K



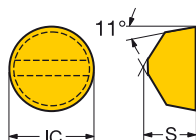
				S	RE	GB	BN	ISO CODE	6160	ANSI CODE
Medium		12	1/2	7.94	6.35			RNGN120700E	☆	RNG45A
				.313	.250					
		12	1/2	7.94	6.35	20°	0.10	RNGN120700T01020	☆	RNG45T0320
				.313	.250	20°	.004			
		06	1/4	3.18	3.18			RPGN060300E	☆	RPG22A
				.125	.125					
		09	3/8	3.18	4.76			RPGN090300E	☆	RPG32A
				.125	.187					
		12	1/2	4.76	6.35			RPGN120400E	☆	RPG43A
				.187	.250					

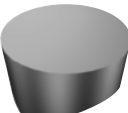
Advanced cutting materials

RCGX..E



RPGX..E



				S	RE	ISO CODE	6160	ANSI CODE
Medium		09	3/8	7.94	4.76	RCGX090700E	☆	RCGX35A
				.313	.187			
		12	1/2	7.94	6.35	RCGX120700E	☆	RCGX45A
				.313	.250			
		09	3/8	7.94	4.76	RPGX090700E	☆	RPGX35A
				.313	.187			
		12	1/2	7.94	6.35	RPGX120700E	☆	RPGX45A
				.313	.250			



A50

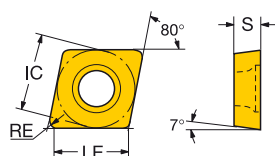


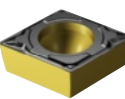
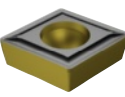
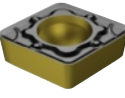
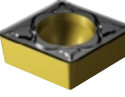
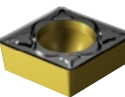
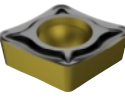
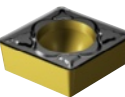
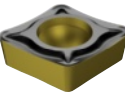
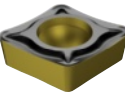
H3



H8

Rhombic 80°



						P	M	S			
		LE	S	RE	ISO CODE	4335	2220	S05F	ANSI CODE		
Finishing		09	3/8	9.3	3.97	0.40	☆			CCMT 09 T3 04-MF	
				.365	.156	.016					
				8.9	3.97	0.79		☆	☆	CCMT 3(2.5)2-MF	
				.349	.156	.031					
			12	1/2	12.5	4.76	0.40		☆		CCMT 12 04 04-MF
				.492	.187	.016					
Medium		06	1/4	5.6	2.38	0.79	☆			CCMT 06 02 08-WM	
				.222	.094	.031					
		09	3/8	8.9	3.97	0.79	☆			CCMT 09 T3 08-WM	
				.349	.156	.031					
			06	1/4	6.0	2.38	0.40	☆			CCMT 06 02 04-PM
				.238	.094	.016					
				5.6	2.38	0.79	☆			CCMT 2(1.5)2-PM	
				.222	.094	.031					
		09	3/8	9.3	3.97	0.40	☆			CCMT 09 T3 04-PM	
			.365	.156	.016						
			8.9	3.97	0.79	☆			CCMT 3(2.5)1-PM		
			.349	.156	.031						
		12	1/2	12.5	4.76	0.40	☆			CCMT 12 04 04-PM	
			.492	.187	.016						
			12.1	4.76	0.79	☆			CCMT 431-PM		
			.476	.187	.031						
		09	3/8	9.3	3.97	0.40	☆			CCMT 09 T3 04-MM	
			.365	.156	.016						
			8.9	3.97	0.79	☆			CCMT 3(2.5)2-MM		
			.349	.156	.031						
		12	1/2	12.5	4.76	0.40	☆			CCMT 12 04 04-MM	
			.492	.187	.016						
			12.1	4.76	0.79	☆			CCMT 432-MM		
			.476	.187	.031						
		06	1/4	6.0	2.38	0.40	☆			CCMT 06 02 04-UM	
			.238	.094	.016						
		09	3/8	9.3	3.97	0.40		☆		CCMT 3(2.5)1-UM	
			.365	.156	.016						
			8.9	3.97	0.79	☆	☆		CCMT 3(2.5)2-UM		
				.349	.156	.031					



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General turning

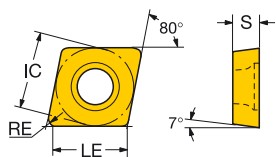
Inserts

ENG

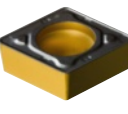
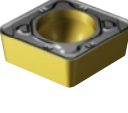
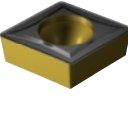
CoroTurn® 107 insert for turning

Rhombic 80°

B



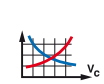
C

							P	M	S	
			LE	S	RE	ISO CODE	4335	2220	S05F	ANSI CODE
Roughing		06 1/4	5.6	2.38	0.79	CCMT 06 02 08-PR	☆			CCMT 2(1.5)2-PR
		.222 .094 .031								
		09 3/8	8.9	3.97	0.79	CCMT 09 T3 08-PR	☆			CCMT 3(2.5)2-PR
		.349 .156 .031								
		8.5 3.97 1.19				CCMT 09 T3 12-PR	☆			CCMT 3(2.5)3-PR
		.334 .156 .047								
		12 1/2	12.1	4.76	0.79	CCMT 12 04 08-PR	☆			CCMT 432-PR
		.476 .187 .031								
		11.7 4.76 1.19				CCMT 12 04 12-PR	☆			CCMT 433-PR
		.460 .187 .047								
		09 3/8	8.9	3.97	0.79	CCMT 09 T3 08-MR	☆			CCMT 3(2.5)2-MR
		.349 .156 .031								
		8.5 3.97 1.19				CCMT 09 T3 12-MR	☆			CCMT 3(2.5)3-MR
		.334 .156 .047								
		12 1/2	12.1	4.76	0.79	CCMT 12 04 08-MR	☆			CCMT 432-MR
		.476 .187 .031								
		11.7 4.76 1.19				CCMT 12 04 12-MR	☆			CCMT 433-MR
		.460 .187 .047								
		09 3/8	9.3	3.97	0.40	CCMT 09 T3 04-UR	☆			CCMT 3(2.5)1-UR
		.365 .156 .016								
		8.9 3.97 0.79				CCMT 09 T3 08-UR	☆			CCMT 3(2.5)2-UR
		.349 .156 .031								
		12 1/2	12.1	4.76	0.79	CCMT 12 04 08-UR	☆			CCMT 432-UR
		.476 .187 .031								
		16 5/8	15.3	5.56	0.79	CCMT 16 05 08-UR	☆			CCMT 542-UR
		.603 .219 .031								

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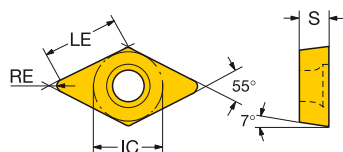
H3

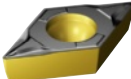
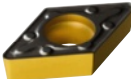
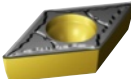
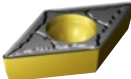
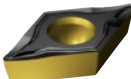


H8

CoroTurn® 107 insert for turning

Rhombic 55°



							P	M	S		
				LE	S	RE	ISO CODE	4335	2220	ISO5F	ANSI CODE
Finishing		07	1/4	7.4	2.38	0.40	DCMT 07 02 04-MF	☆	☆		DCMT 2(1.5)1-MF
				.289	.094	.016					
		11	3/8	11.2	3.97	0.40	DCMT 11 T3 04-MF		☆		DCMT 3(2.5)1-MF
				.442	.156	.016					
				10.8	3.97	0.79	DCMT 11 T3 08-MF		☆	☆	DCMT 3(2.5)2-MF
				.426	.156	.031					
Medium		11	3/8	10.8	3.97	0.79	DCMX 11 T3 08-WM	☆			DCMX 3(2.5)2-WM
				.426	.156	.031					
		07	1/4	7.4	2.38	0.40	DCMT 07 02 04-PM	☆			DCMT 2(1.5)1-PM
				.289	.094	.016					
				7.0	2.38	0.79	DCMT 07 02 08-PM	☆			DCMT 2(1.5)2-PM
				.274	.094	.031					
		11	3/8	11.2	3.97	0.40	DCMT 11 T3 04-PM	☆			DCMT 3(2.5)1-PM
				.442	.156	.016					
				10.8	3.97	0.79	DCMT 11 T3 08-PM	☆			DCMT 3(2.5)2-PM
				.426	.156	.031					
				10.4	3.97	1.19	DCMT 11 T3 12-PM	☆			DCMT 3(2.5)3-PM
				.411	.156	.047					
		07	1/4	7.4	2.38	0.40	DCMT 07 02 04-MM		☆		DCMT 2(1.5)1-MM
				.289	.094	.016					
				7.0	2.38	0.79	DCMT 07 02 08-MM		☆		DCMT 2(1.5)2-MM
				.274	.094	.031					
		11	3/8	11.2	3.97	0.40	DCMT 11 T3 04-MM		☆		DCMT 3(2.5)1-MM
			.442	.156	.016						
			10.8	3.97	0.79	DCMT 11 T3 08-MM		☆		DCMT 3(2.5)2-MM	
			.426	.156	.031						
			10.4	3.97	1.19	DCMT 11 T3 12-MM		☆		DCMT 3(2.5)3-MM	
			.411	.156	.047						
	11	3/8	11.2	3.97	0.40	DCMT 11 T3 04-UM	☆	☆		DCMT 3(2.5)1-UM	
			.442	.156	.016						
			10.8	3.97	0.79	DCMT 11 T3 08-UM	☆	☆		DCMT 3(2.5)2-UM	
			.426	.156	.031						



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H3

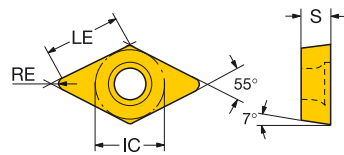


H8

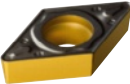
A

CoroTurn® 107 insert for turning
Rhombic 55°

B



C

							P M S				
				LE	S	RE	ISO CODE	4335	2220	S05F	ANSI CODE
Roughing		11	3/8	10.8	3.97	0.79	DCMT 11 T3 08-PR	☆			DCMT 3(2.5)2-PR
				.426	.156	.031					
				10.4	3.97	1.19	DCMT 11 T3 12-PR	☆			DCMT 3(2.5)3-PR
				.411	.156	.047					
		11	3/8	10.8	3.97	0.79	DCMT 11 T3 08-MR		☆		DCMT 3(2.5)2-MR
				.426	.156	.031					
				10.4	3.97	1.19	DCMT 11 T3 12-MR		☆		DCMT 3(2.5)3-MR
				.411	.156	.047					
		11	3/8	10.8	3.97	0.79	DCMT 11 T3 08-UR	☆			DCMT 3(2.5)2-UR
				.426	.156	.031					
				10.4	3.97	1.19	DCMT 11 T3 12-UR	☆			DCMT 3(2.5)3-UR
				.411	.156	.047					

D

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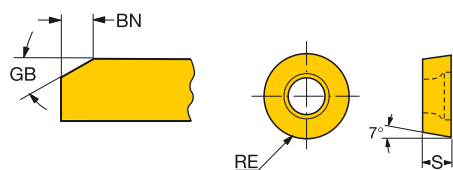
H

A50

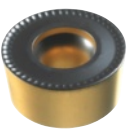
H3

CoroTurn® 107 insert for turning

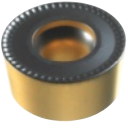
Round

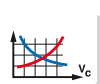


Metric version

							P		
			S	RE	GB	BN	ISO CODE	4335	
Medium		06	2.38	3.00	0°	0.10	RCMT 06 02 M0	☆	
		08	3.18	4.00	0°	0.10	RCMT 08 03 M0	☆	
		10	3.97	5.00	15°	0.10	RCMT 10 T3 M0	☆	
		12	4.76	6.00	15°	0.12	RCMT 12 04 M0	☆	
		16	6.35	8.00	15°	0.15	RCMT 16 06 M0	☆	
		20	6.35	10.00	15°	0.15	RCMT 20 06 M0	☆	
		25	7.94	12.50	15°	0.15	RCMT 25 07 M0	☆	
		32	9.53	16.00	15°	0.20	RCMT 32 09 M0	☆	

Inch version

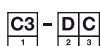
							P		
			S	RE	GB	BN	ISO CODE	4335	ANSI CODE
Medium		3/8	.156	.187	15°	.003	RCMT 09 T3 00	☆	RCMT 3(2.5)
		1/2	.187	.250	15°	.005	RCMT 12 04 00	☆	RCMT 43
		3/8	.156	.187	15°	.004	RCMT 09 T3 00-M0	☆	RCMT 3(2.5)M0
		1/2	.187	.250	15°	.005	RCMT 12 04 00-M0	☆	RCMT 43 M0



A50



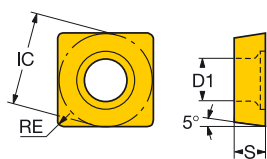
H3



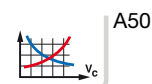
H8

CoroTurn® 107 insert for turning

Square



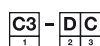
							P		M	
							4335		2220	
		LE	S	RE	ISO CODE				ANSI CODE	
Finishing		09	3/8	9.1	3.97	0.40	SCMT 09 T3 04-MF	☆	SCMT 3(2.5)1-MF	
				.359	.156	.016				
		8.7	3.97	0.79	SCMT 09 T3 08-MF		☆	SCMT 3(2.5)2-MF		
				.344	.156	.031				
Medium		09	3/8	9.1	3.97	0.40	SCMT 09 T3 04-PM	☆	SCMT 3(2.5)1-PM	
				.359	.156	.016				
		8.7	3.97	0.79	SCMT 09 T3 08-PM		☆	SCMT 3(2.5)2-PM		
				.344	.156	.031				
		12	1/2	12.3	4.76	0.40	SCMT 12 04 04-PM	☆	SCMT 431-PM	
				.484	.187	.016				
		11.9	4.76	0.79	SCMT 12 04 08-PM		☆	SCMT 432-PM		
				.469	.187	.031				
		11.5	4.76	1.19	SCMT 12 04 12-PM		☆	SCMT 433-PM		
				.453	.187	.047				
		09	3/8	9.1	3.97	0.40	SCMT 09 T3 04-MM	☆	SCMT 3(2.5)1-MM	
				.359	.156	.016				
		8.7	3.97	0.79	SCMT 09 T3 08-MM		☆	SCMT 3(2.5)2-MM		
				.344	.156	.031				
		12	1/2	12.3	4.76	0.40	SCMT 12 04 04-MM	☆	SCMT 431-MM	
				.484	.187	.016				
Roughing		11.9	4.76	0.79	SCMT 12 04 08-MM		☆	SCMT 432-MM		
				.469	.187	.031				
		11.5	4.76	1.19	SCMT 12 04 12-MM		☆	SCMT 433-MM		
				.453	.187	.047				
		09	3/8	8.7	3.97	0.79	SCMT 09 T3 08-UM	☆	SCMT 3(2.5)2-UM	
				.344	.156	.031				
		12	1/2	11.9	4.76	0.79	SCMT 12 04 08-UM	☆	SCMT 432-UM	
				.469	.187	.031				
		09	3/8	8.7	3.97	0.79	SCMT 09 T3 08-PR	☆	SCMT 3(2.5)2-PR	
				.344	.156	.031				
		8.3	3.97	1.19	SCMT 09 T3 12-PR		☆	SCMT 3(2.5)3-PR		
				.328	.156	.047				
		12	1/2	11.9	4.76	0.79	SCMT 12 04 08-PR	☆	SCMT 432-PR	
				.469	.187	.031				
		11.5	4.76	1.19	SCMT 12 04 12-PR		☆	SCMT 433-PR		
				.453	.187	.047				
G		09	3/8	8.7	3.97	0.79	SCMT 09 T3 08-MR	☆	SCMT 3(2.5)2-MR	
				.344	.156	.031				
		12	1/2	11.9	4.76	0.79	SCMT 12 04 08-MR	☆	SCMT 432-MR	
				.469	.187	.031				
		11.5	4.76	1.19	SCMT 12 04 12-MR		☆	SCMT 433-MR		
				.453	.187	.047				



A50



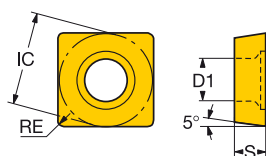
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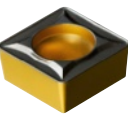
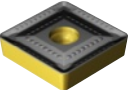
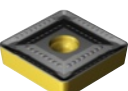
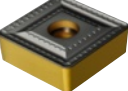
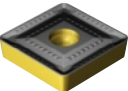


H8

CoroTurn® 107 insert for turning

Square



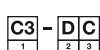
							P	M		
							4335	2220		
		LE	S	RE	ISO CODE		☆		ANSI CODE	
Roughing		09	3/8	8.7	3.97	0.79	SCMT 09 T3 08-UR	☆	SCMT 3(2.5)2-UR	
				.344	.156	.031				
		12	1/2	11.9	4.76	0.79	SCMT 12 04 08-UR	☆	SCMT 432-UR	
				.469	.187	.031				
		38	1 1/2	38.0	9.53	3.18	SCMT 38 09 32-XL	☆		
				1.496	.375	.125				
				38.0	9.53	3.18	SCMT 38 09 32-XM	☆		
				1.496	.375	.125				
		38	1 1/2	38.0	12.70	3.18	SBMT 38 12 32-XH	☆		
				1.496	.500	.125				
		38	1 1/2	38.0	9.53	3.18	SCMT 38 09 32-XH	☆		
				1.496	.375	.125				



A50



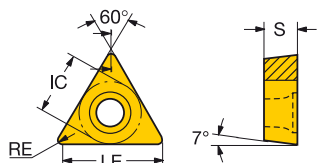
H3

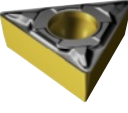
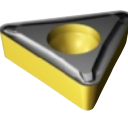
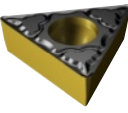
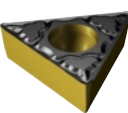


H8

CoroTurn® 107 insert for turning

Triangular



							P	M		
				LE	S	RE	ISO CODE	4335	2220	ANSI CODE
Finishing		09	7/32	9.0	2.38	0.40	TCMT 09 02 04-MF	☆	☆	TCMT 1.8(1.5)1-MF
				.353	.094	.016				
		16	3/8	16.1	3.97	0.40	TCMT 16 T3 04-MF	☆	☆	TCMT 3(2.5)1-MF
				.634	.156	.016				
		11	1/4	10.5	2.38	0.20	TCMT 11 02 02-UF	☆	☆	TCMT 2(1.5)0-UF
				.415	.094	.008				
				10.3	2.38	0.40	TCMT 11 02 04-UF	☆	☆	TCMT 2(1.5)1-UF
				.407	.094	.016				
				9.9	2.38	0.79	TCMT 11 02 08-UF	☆	☆	TCMT 2(1.5)2-UF
				.391	.094	.031				
Medium		09	7/32	9.0	2.38	0.40	TCMT 09 02 04-PM	☆	☆	TCMT 1.8(1.5)1-PM
				.353	.094	.016				
				8.6	2.38	0.79	TCMT 09 02 08-PM	☆	☆	TCMT 1.8(1.5)2-PM
				.337	.094	.031				
		11	1/4	10.3	3.18	0.40	TCMT 11 03 04-PM	☆	☆	TCMT 221-PM
				.407	.125	.016				
				9.9	3.18	0.79	TCMT 11 03 08-PM	☆	☆	TCMT 222-PM
				.391	.125	.031				
				9.5	3.18	1.19	TCMT 11 03 12-PM	☆	☆	TCMT 223-PM
				.376	.125	.047				
		16	3/8	16.1	3.97	0.40	TCMT 16 T3 04-PM	☆	☆	TCMT 3(2.5)1-PM
				.634	.156	.016				
				15.7	3.97	0.79	TCMT 16 T3 08-PM	☆	☆	TCMT 3(2.5)2-PM
				.618	.156	.031				
				15.3	3.97	1.19	TCMT 16 T3 12-PM	☆	☆	TCMT 3(2.5)3-PM
				.602	.156	.047				
		22	1/2	21.2	4.76	0.79	TCMT 22 04 08-PM	☆	☆	TCMT 432-PM
				.835	.187	.031				
		09	7/32	9.0	2.38	0.40	TCMT 09 02 04-MM	☆	☆	TCMT 1.8(1.5)1-MM
				.353	.094	.016				
				8.6	2.38	0.79	TCMT 09 02 08-MM	☆	☆	TCMT 1.8(1.5)2-MM
				.337	.094	.031				
		11	1/4	10.3	3.18	0.40	TCMT 11 03 04-MM	☆	☆	TCMT 221-MM
				.407	.125	.016				
				9.9	3.18	0.79	TCMT 11 03 08-MM	☆	☆	TCMT 222-MM
				.391	.125	.031				
		16	3/8	16.1	3.97	0.40	TCMT 16 T3 04-MM	☆	☆	TCMT 3(2.5)1-MM
				.634	.156	.016				
				15.7	3.97	0.79	TCMT 16 T3 08-MM	☆	☆	TCMT 3(2.5)2-MM
				.618	.156	.031				
				15.3	3.97	1.19	TCMT 16 T3 12-MM	☆	☆	TCMT 3(2.5)3-MM
				.602	.156	.047				



A50



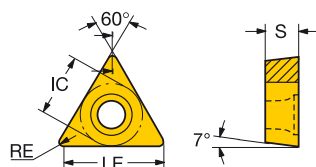
H3

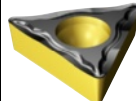
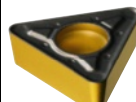
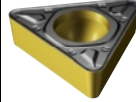
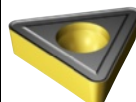
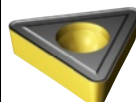
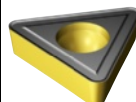


H8

CoroTurn® 107 insert for turning

Triangular



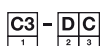
						P		M				
				LE	S	RE	ISO CODE		4335	2220	ANSI CODE	
Medium		11	1/4	10.3	2.38	0.40	TCMT 11 02 04-UM		☆	☆	TCMT 2(1.5)1-UM	
				.407	.094	.016						
				9.9	2.38	0.79	TCMT 11 02 08-UM		☆	☆	TCMT 2(1.5)2-UM	
				.391	.094	.031						
		16	3/8	16.1	3.97	0.40	TCMT 16 T3 04-UM		☆		TCMT 3(2.5)1-UM	
				.634	.156	.016						
Roughing				15.7	3.97	0.79	TCMT 16 T3 08-UM		☆		TCMT 3(2.5)2-UM	
				.618	.156	.031						
		11	1/4	9.9	3.18	0.79	TCMT 11 03 08-PR		☆		TCMT 222-PR	
				.391	.125	.031						
		16	3/8	15.7	3.97	0.79	TCMT 16 T3 08-PR		☆		TCMT 3(2.5)2-PR	
				.618	.156	.031						
				15.3	3.97	1.19	TCMT 16 T3 12-PR		☆		TCMT 3(2.5)3-PR	
				.602	.156	.047						
		22	1/2	21.2	4.76	0.79	TCMT 22 04 08-PR		☆		TCMT 432-PR	
				.835	.187	.031						
				20.8	4.76	1.19	TCMT 22 04 12-PR		☆		TCMT 433-PR	
				.819	.187	.047						
		11	1/4	9.9	3.18	0.79	TCMT 11 03 08-MR			☆	TCMT 222-MR	
				.391	.125	.031						
		16	3/8	15.7	3.97	0.79	TCMT 16 T3 08-MR			☆	TCMT 3(2.5)2-MR	
				.618	.156	.031						
				15.3	3.97	1.19	TCMT 16 T3 12-MR			☆	TCMT 3(2.5)3-MR	
				.602	.156	.047						
		11	1/4	10.3	2.38	0.40	TCMT 11 02 04-UR		☆		TCMT 2(1.5)1-UR	
				.407	.094	.016						
				9.9	2.38	0.79	TCMT 11 02 08-UR		☆	☆	TCMT 2(1.5)2-UR	
				.391	.094	.031						
		16	3/8	15.7	3.97	0.79	TCMT 16 T3 08-UR		☆		TCMT 3(2.5)2-UR	
				.618	.156	.031						
				15.3	3.97	1.19	TCMT 16 T3 12-UR			☆	TCMT 3(2.5)3-UR	
				.602	.156	.047						



A50



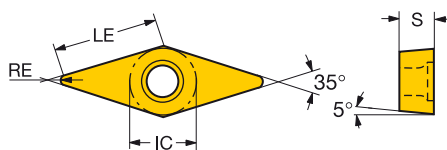
H3



H8

CoroTurn® 107 insert for turning

Rhombic 35°



						P M S				
				LE	S	RE	ISO CODE	4335	2220	ISO F
Finishing		11	1/4	10.7	3.18	0.40	VBMT 11 03 04-MF	☆		
				.420	.125	.016				
				10.3	3.18	0.79	VBMT 11 03 08-MF	☆		
				.404	.125	.031				
		16	3/8	16.2	4.76	0.40	VBMT 16 04 04-MF	☆		
				.638	.187	.016				
				15.8	4.76	0.79	VBMT 16 04 08-MF	☆	☆	
				.622	.187	.031				
		11	1/4	10.9	2.38	0.20	VBMT 11 02 02-UF	☆		
				.428	.094	.008				
				10.7	2.38	0.40	VBMT 11 02 04-UF	☆		
				.420	.094	.016				
Medium				10.3	2.38	0.79	VBMT 11 02 08-UF	☆		
				.404	.094	.031				
		16	3/8	16.2	4.76	0.40	VBMT 16 04 04-PM	☆		
				.638	.187	.016				
				15.8	4.76	0.79	VBMT 16 04 08-PM	☆		
				.622	.187	.031				
				15.4	4.76	1.19	VBMT 16 04 12-PM	☆		
				.607	.187	.047				
		11	1/4	10.7	3.18	0.40	VCMT 11 03 04-PM	☆		
				.420	.125	.016				
		16	3/8	16.2	4.76	0.40	VBMT 16 04 04-MM	☆		
				.638	.187	.016				
				15.8	4.76	0.79	VBMT 16 04 08-MM	☆		
				.622	.187	.031				
				15.4	4.76	1.19	VBMT 16 04 12-MM	☆		
				.607	.187	.047				
		11	1/4	10.7	3.18	0.40	VCMT 11 03 04-MM	☆		
				.420	.125	.016				
				10.3	3.18	0.79	VCMT 11 03 08-MM	☆		
				.404	.125	.031				



A50



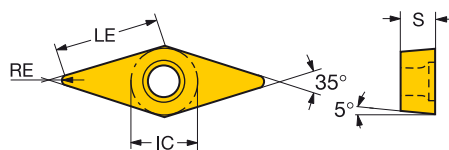
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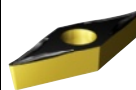
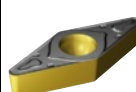
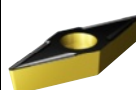


H8

CoroTurn® 107 insert for turning

Rhombic 35°



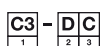
							P M S				
				LE	S	RE	ISO CODE	4335	2220	ISO5F	ANSI CODE
Medium		16	3/8	16.2	4.76	0.40	VBMT 16 04 04-UM	☆	☆		VBMT 331-UM
				.638	.187	.016					
				15.8	4.76	0.79	VBMT 16 04 08-UM	☆	☆		VBMT 332-UM
				.622	.187	.031					
Roughing		16	3/8	15.8	4.76	0.79	VBMT 16 04 08-PR	☆			VBMT 332-PR
				.622	.187	.031					
				15.4	4.76	1.19	VBMT 16 04 12-PR	☆			VBMT 333-PR
				.607	.187	.047					
		16	3/8	15.8	4.76	0.79	VBMT 16 04 08-MR		☆		VBMT 332-MR
				.622	.187	.031					
				15.4	4.76	1.19	VBMT 16 04 12-MR		☆		VBMT 333-MR
				.607	.187	.047					
		16	3/8	16.2	4.76	0.40	VBMT 16 04 04-UR	☆			VBMT 331-UR
				.638	.187	.016					
				15.8	4.76	0.79	VBMT 16 04 08-UR	☆			VBMT 332-UR
				.622	.187	.031					



A50



H3

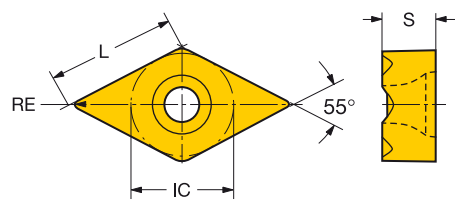


H8

A

CoroTurn® TR insert for turning
Rhombic 55°

B



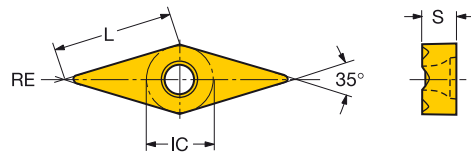
C

							M
				LE	S	RE	ISO CODE
Finishing		13	11	12.6	5.53	0.40	TR-DC1304-F
				.496	.218	.016	
				12.2	5.53	0.79	TR-DC1308-F
				.480	.218	.031	
Medium		13	11	12.2	5.53	0.79	TR-DC1308-M
				.480	.218	.031	

D

E

Rhombic 35°



F

							M
				LE	S	RE	ISO CODE
Finishing		13	8	12.6	4.53	0.40	TR-VB1304-F
				.496	.178	.016	
				12.2	4.53	0.79	TR-VB1308-F
				.480	.178	.031	

G

H

A50

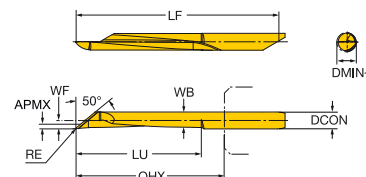
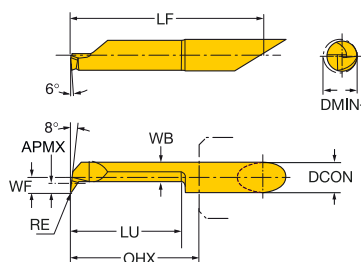
H3

CoroTurn® XS solid carbide tool for turning

TSYC

CXS-xxT098..R/L

CXS-xxT140..R/L



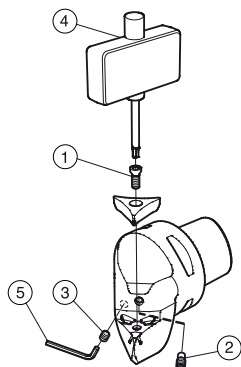
	CZC _{MS}	DMIN ₁	LU	RE	APMX	RMPX	OHX	Ordering code	P	M	N	S	O	Dimensions, mm, inch			
									1025	1025	1025	1025	1025	DCON	WB	LF	WF
	4	4.2	30.0	0.075	0.50	2°	38.0	CXS-04T098A08-4230R	☆	☆	☆	☆	☆	4	3.6	38.0	2.0
		.165	1.181	.003	.020		1.496							.157	.140	1.496	.077
	5	5.2	40.0	0.075	0.50	2°	48.0	CXS-05T098A08-5240R	☆	☆	☆	☆	☆	5	4.6	48.0	2.5
		.205	1.575	.003	.020		1.890							.197	.179	1.890	.096
	6	6.2	45.0	0.075	0.50	2°	53.0	CXS-06T098A08-6245R	☆	☆	☆	☆	☆	6	5.5	53.0	3.0
		.244	1.772	.003	.020		2.087							.236	.217	2.087	.116
	7	7.2	55.0	0.075	0.50	2°	63.0	CXS-07T098A08-7255R	☆	☆	☆	☆	☆	7	6.5	63.0	3.5
		.283	2.165	.003	.020		2.480							.276	.256	2.480	.136
	4	4.2	30.0	0.050	0.05	2°	38.0	CXS-04T140A05-4230R	☆	☆	☆	☆	☆	4	3.6	38.0	2.0
		.165	1.181	.002	.002		1.496							.157	.140	1.496	.077
	5	5.2	40.0	0.050	0.05	2°	48.0	CXS-05T140A05-5240R	☆	☆	☆	☆	☆	5	4.6	48.0	2.5
		.205	1.575	.002	.002		1.890							.197	.179	1.890	.096
	6	6.2	45.0	0.050	0.05	2°	53.0	CXS-06T140A05-6245R	☆	☆	☆	☆	☆	6	5.5	53.0	3.0
		.244	1.772	.002	.002		2.087							.236	.217	2.087	.116
	7	7.2	55.0	0.050	0.05	2°	63.0	CXS-07T140A05-7255R	☆	☆	☆	☆	☆	7	6.5	63.0	3.5
		.283	2.165	.002	.002		2.480							.276	.256	2.480	.136

N = Neutral, R = Right hand, L = Left hand

For cutting data recommendations see Turning tools catalogue

CoroTurn® Prime cutting unit for turning

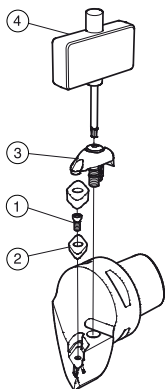
B



C

	Spare parts			Included parts		
	1	2	3	4	5	
Ordering code	Insert screw	Nozzle	Coolant screw	Key	Key	
C4-CP-30AR/L-27050-11C	5513 020-10	5691 026-03	3214 013-03	5680 073-07	3021 012-020	
C5-CP-30AR/L-35060-11C	5513 020-10	5691 026-03	3214 013-03	5680 073-07	3021 012-020	
C6-CP-30AR/L-45065-11C	5513 020-10	5691 026-03	3214 013-03	5680 073-07	3021 012-020	

D



E

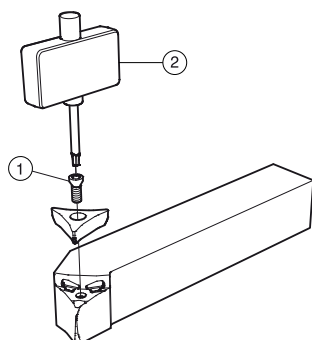
	Spare parts			Included parts	
	1	2	3	4	
Ordering code	Shim screw	Shim	Clamp set	Key	
C4-CP-25BR/L-27060-11B	5513 020-04	5322 610-01	S6 5412 028-021	5680 073-07	
C5-CP-25BR/L-35060-11B	5513 020-04	5322 610-01	S6 5412 028-021	5680 073-07	
C6-CP-25BR/L-45065-11B	5513 020-04	5322 610-01	S6 5412 028-021	5680 073-07	

F

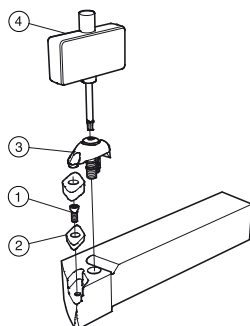
G

H

CoroTurn® Prime shank tool for turning

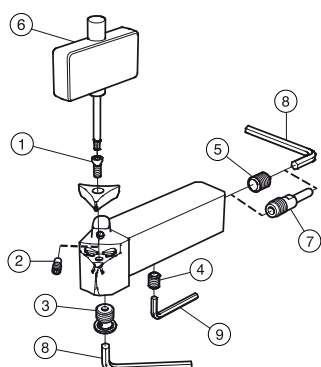


	Spare parts	Included parts	
	1	2	
Ordering code	Insert screw	Key	
CP-30AR/L-2020-11	5513 020-10	5680 073-07	
CP-30AR/L-2525-11	5513 020-10	5680 073-07	
CP-30AR/L-3232-11	5513 020-10	5680 073-07	

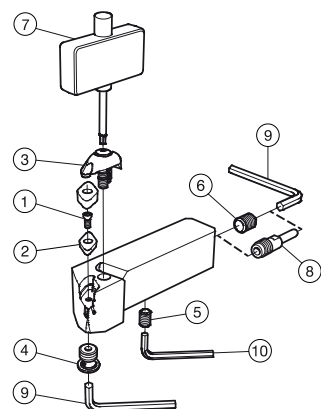


	Spare parts			Included parts	
	1	2	3	4	
Ordering code	Shim screw	Shim	Clamp set	Key	
CP-25BR/L-2020-11	5513 020-04	5322 610-01	S6 5412 028-021	5680 073-07	
CP-25BR/L-2525-11	5513 020-04	5322 610-01	S6 5412 028-021	5680 073-07	
CP-25BR/L-3232-11	5513 020-04	5322 610-01	S6 5412 028-021	5680 073-07	

CoroTurn® Prime QS shank tool for turning



	Spare parts					Included parts	Accessories	
	1	2	3	4	5	6	7	
Ordering code	Insert screw	Nozzle	Coolant screw	Sealing plug screw	Sealing plug screw	Key	Coolant tube	
QS-CP-30AR/L-2020-11C	5513 020-10	5691 026-23	5512 104-01	3214 013-01	3214 012-01	5680 073-07	5692 010-02	
QS-CP-30AR/L-2525-11C	5513 020-10	5691 026-23	5512 104-01	3214 013-01	3214 012-01	5680 073-07	5692 010-02	
	Accessories							
	8	9						
Ordering code	Key	Key						
QS-CP-30AR/L-2020-11C	3021 010-050	174.1-864						
QS-CP-30AR/L-2525-11C	3021 010-050	174.1-864						

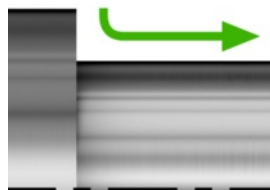


	Spare parts							Included parts	
	1	2	3	4	5	6	7		
Ordering code	Shim screw	Shim	Clamp set	Coolant screw	Sealing plug screw	Sealing plug screw	Key		
QS-CP-25BR/L-2020-11B	5513 020-04	5322 610-01	S6 5412 028-021	5512 104-01	3214 013-01	3214 012-01	5680 073-07		
QS-CP-25BR/L-2525-11B	5513 020-04	5322 610-01	S6 5412 028-021	5512 104-01	3214 013-01	3214 012-01	5680 073-07		
	Accessories								
	8	9	10						
Ordering code	Coolant tube	Key	Key						
QS-CP-25BR/L-2020-11B	5692 010-02	3021 010-050	174.1-864						
QS-CP-25BR/L-2525-11B	5692 010-02	3021 010-050	174.1-864						

Accessories, must be ordered separately

Cutting data

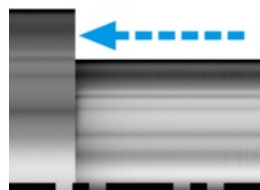
CoroTurn® Prime



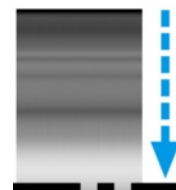
SBW = Side backward



EBW = End backward



SFW = Side forward



EFW = End forward

A-type inserts with screw clamp design on holder

			SBW	EBW	SFW	EFW
	f_n min	mm (inch)	0.2 (.0079)	0.2 (.0079)	0.1 (.0039)	0.1 (.0039)
	f_n rec	mm (inch)	0.4 (.0157)	0.4 (.0157)	0.2 (.0079)	0.2 (.0079)
	f_n max	mm (inch)	0.5 (.0197)	0.5 (.0197)	0.25 (.0098)	0.25 (.0098)
	a_p min	mm (inch)	0.25 (.010)	0.25 (.010)	0.25 (.010)	0.25 (.010)
	a_p rec	mm (inch)	1.5 (.059)	1.5 (.059)	1.0 (.039)	1.0 (.039)
	a_p max	mm (inch)	3.0 (.118)	2.5 (.098)	1.5 (.059)	1.5 (.059)
	KAPR		30°	25°	115°	120°
	RMPX		15°	10°	15°	10°
	D min3	mm (inch)		30 (1.181)		0 (.000)

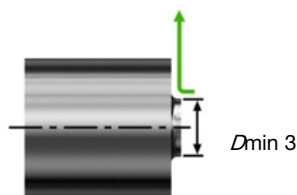
f_n = feed per revolution

B-type inserts with rigid clamp design on holder

			SBW	EBW	SFW	EFW
	f_n min	mm (inch)	0.3 (.0118)	0.3 (.0118)	0.2 (.0079)	0.2 (.0079)
	f_n rec	mm (inch)	0.6 (.0236)	0.6 (.0236)	0.35 (.0138)	0.3 (.0118)
	f_n max	mm (inch)	1.2 (.0472)	1.2 (.0472)	0.6 (.0236)	0.6 (.0236)
	a_p min	mm (inch)	0.5 (.020)	0.5 (.020)	0.5 (.020)	0.5 (.020)
	a_p rec	mm (inch)	2.0 (.079)	1.0 (.039)	2.0 (.079)	2.0 (.079)
	a_p max	mm (inch)	4.0 (.157)	1.5 (.059)	3.0 (.118)	3.0 (.118)
	KAPR		25°	25°	95°	95°
	RMPX		23°	23°	23°	23°
	D min3	mm (inch)		40 (1.575)		0 (.000)

f_n = feed per revolution

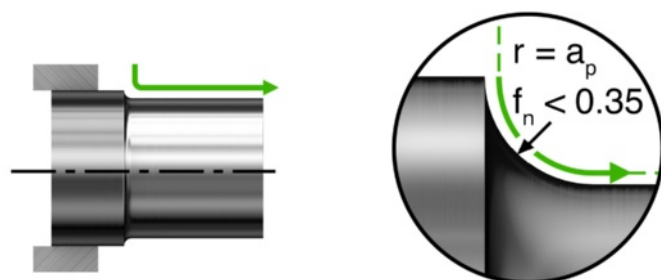
Minimum diameter



Cutting speed

Material	v_c m/min
P	250-350
M	100-250
S	40-120

Feed reduction and radial entry required



Cutting speed recommendations, metric values

The recommendations are valid for use with cutting fluid.

B

ISO P	CMC No.	Steel	Specific cutting force k_{c1}	Hardness Brinell	<<<< WEAR RESISTANCE			
					GC4335			
					h_{ex} , mm $\approx$ feed f_n , mm/r			
					0.1-0.4-0.8			
MC No.	CMC No.	Material	N/mm ²	HB	Cutting speed (v_c), m/min			
P1.1.Z.AN	01.1	Unalloyed steel C = 0.1-0.25%	1500	125	425-275-200			
P1.2.Z.AN	01.2	C = 0.25-0.55%	1600	150	380-245-180			
P1.3.Z.AN	01.3	C = 0.55-0.80%	1700	170	365-235-170			
P2.1.Z.AN	02.1	Low-alloy steel (alloying elements $\leq 5\%$) Non-hardened	1700	180	300-185-135			
P2.1.Z.AN	02.12	Ball bearing steel	1800	210	250-155-110			
P2.5.Z.HT	02.2	Hardened and tempered	1850	275	185-120-85			
P2.5.Z.HT	02.2	Hardened and tempered	2050	350	150-95-70			
P3.0.Z.AN	03.11	High-alloy steel (alloying elements $> 5\%$) Annealed	1950	200	240-155-105			
P3.0.Z.HT	03.21	Hardened tool steel	3000	325	110-70-50			
P1.5.C.UT	06.1	Steel castings Unalloyed	1550	180	185-140-100			
P2.6.C.UT	06.2	Low-alloy (alloying elements $\leq 5\%$)	1600	200	165-100-70			
P3.0.C.UT	06.3	High-alloy (alloying elements $> 5\%$)	2050	225	145-95-65			

C

D

ISO M	CMC No.	Stainless steel	Specific cutting force k_{c1}	Hardness Brinell	<<<< WEAR RESISTANCE			
					GC2220			
					h_{ex} , mm $\approx$ feed f_n , mm/r			
					0.2-0.4-0.6			
MC No.	CMC No.	Material	N/mm ²	HB	Cutting speed (v_c), m/min			
P5.0.Z.AN	05.11	Ferritic/martensitic Bars/forged Non-hardened	1800	200				
P5.0.Z.PH	05.12	PH-hardened	2850	330				
P5.0.Z.HT	05.13	Hardened	2350	330				
M1.0.Z.AQ	05.21	Austenitic Bars/forged Austenitic	1800	180	225-165-125			
M1.0.Z.PH	05.22	PH-hardened	2850	330	100-70-55			
M2.0.Z.AQ	05.23	Super austenitic	2250	200	130-100-75			
M3.1.Z.AQ	05.51	Austenitic-ferritic (Duplex) Bars/forged Non-weldable $\geq 0.05\%C$	2000	230	190-150-110			
M3.2.Z.AQ	05.52	Weldable $< 0.05\%C$	2450	260	150-120-90			
P5.0.C.UT	15.11	Ferritic/martensitic Cast Non-hardened	1700	200				
P5.0.C.HT	15.12	PH-hardened	2450	330				
P5.0.C.HT	15.13	Hardened	2150	330				
M1.0.C.UT	15.21	Austenitic Cast Austenitic	1700	180	200-155-115			
M2.0.C.AQ	15.22	PH-hardened	2450	330	85-55-40			
M2.0.C.AQ	15.23	Super austenitic	2150	200	130-90-65			
M3.1.C.AQ	15.51	Austenitic-ferritic (Duplex) Cast Non-weldable $\geq 0.05\%C$	1800	230	150-120-90			
M3.2.C.AQ	15.52	Weldable $< 0.05\%C$	2250	260	125-105-80			

E

F

G

ISO S	CMC No.	Heat resistant material	Specific cutting force k_{c1}	Hardness Brinell	<<<< WEAR RESISTANCE			
					CC6160 S05F			
					h_{ex} , mm $\approx$ feed f_n , mm/r			
					0.1-0.2-0.3 0.1-0.2-0.3			
MC No.	CMC No.	Material	N/mm ²	HB	Cutting speed (v_c), m/min			
S1.0.U.AN	20.11	Heat resistant super alloys Iron base Annealed or solution treated	2400	200	-	160-135-110		
S1.0.U.AG	20.12	Aged or solution treated and aged	2500	280	-	125-105-85		
S2.0.Z.AN	20.21	Nickel base Annealed or solution treated	2650	250	400-325-270	100-85-70		
S2.0.Z.AG	20.22	Aged or solution treated and aged	2900	350	300-235-190	90-75-60		
S2.0.C.NS	20.24	Cast or cast and aged	3000	320	240-205-175	80-65-55		
S3.0.Z.AN	20.31	Cobalt alloys Annealed or solution treated	2700	200	-	100-85-70		
S3.0.Z.AG	20.32	Solution treated and aged	3000	300	-	90-75-60		
S3.0.C.NS	20.33	Cast or cast and aged	3100	320	-	80-65-55		

H

Cutting speed recommendations, inch values

The recommendations are valid for use with cutting fluid.

ISO P	CMC No.	Steel	Specific cutting force k_{c1}	Hardness Brinell	<<<< WEAR RESISTANCE		
					GC4335		
					h_{ex} , inch $\approx$ feed, f_n inch/rev. at 0° to -5° lead		
					.004-.016-.031		
MC No.	CMC No.	Material	lbs/in ²	HB	Cutting speed v_c , ft/min		
P1.1.Z.AN	01.1	Unalloyed steel C = 0.1–0.25%	216,500	125	1400-890-660		
P1.2.Z.AN	01.2	C = 0.25–0.55%	233,000	150	1250-800-590		
P1.3.Z.AN	01.3	C = 0.55–0.80%	247,000	170	1200-760-560		
P2.1.Z.AN	02.1	Low-alloy steel (alloying elements $\leq 5\%$) Non-hardened	249,500	180	980-600-445		
P2.1.Z.AN	02.12	Ball bearing steel	259,500	210	820-500-365		
P2.5.Z.HT	02.2	Hardened and tempered	268,000	275	600-385-280		
P2.5.Z.HT	02.2	Hardened and tempered	298,000	350	485-310-225		
P3.0.Z.AN	03.11	High-alloy steel (alloying elements $> 5\%$) Annealed	282,000	200	780-500-345		
P3.0.Z.HT	03.21	Hardened tool steel	435,500	325	360-225-165		
P1.5.C.UT	06.1	Steel castings Unalloyed	225,000	180	600-450-335		
P2.6.C.UT	06.2	Low-alloy (alloying elements $\leq 5\%$)	230,500	200	540-320-235		
P3.0.C.UT	06.3	High-alloy (alloying elements $> 5\%$)	300,500	225	470-305-220		
ISO M	CMC No.	Stainless steel	Specific cutting force k_{c1}	Hardness Brinell	<<<< WEAR RESISTANCE		
					GC2220		
					h_{ex} , inch $\approx$ feed, f_n inch/rev. at 0° to -5° lead		
					.008-.016-.024		
MC No.	CMC No.	Material	lbs/in ²	HB	Cutting speed v_c , ft/min		
P5.0.Z.AN	05.11	Ferritic/martensitic Bars/forged Non-hardened	262,000	200			
P5.0.Z.PH	05.12	PH-hardened	411,500	330			
P5.0.Z.HT	05.13	Hardened	340,000	330			
M1.0.Z.AQ	05.21	Austenitic Bars/forged Austenitic	259,000	180	740-540-400		
M1.0.Z.PH	05.22	PH-hardened	414,000	330	330-235-175		
M2.0.Z.AQ	05.23	Super austenitic	328,000	200	425-325-245		
M3.1.Z.AQ	05.51	Austenitic-ferritic (Duplex) Bars/forged Non-weldable $\geq 0.05\%C$	286,500	230	620-485-355		
M3.2.Z.AQ	05.52	Weldable $< 0.05\%C$	356,500	260	490-390-290		
P5.0.C.UT	15.11	Ferritic/martensitic Cast Non-hardened	246,500	200			
P5.0.C.UT	15.12	PH-hardened	354,500	330			
P5.0.C.HT	15.13	Hardened	311,000	330			
M1.0.C.UT	15.21	Austenitic Cast Austenitic	248,000	180	660-500-370		
M1.0.C.UT	15.22	PH-hardened	356,000	330	275-180-130		
M2.0.C.AQ	15.23	Super austenitic	310,500	200	425-290-210		
M3.1.C.AQ	15.51	Austenitic-ferritic (Duplex) Cast Non-weldable $\geq 0.05\%C$	258,000	230	490-390-290		
M3.2.C.AQ	15.52	Weldable $< 0.05\%C$	326,000	260	410-340-260		
ISO S	CMC No.	Heat resistant material	Specific cutting force k_{c1}	Hardness Brinell	<<<< WEAR RESISTANCE		
					CC6160 S05F		
					h_{ex} , inch $\approx$ feed, f_n inch/rev. at 0° to -5° lead		
					.004-.008-.012 .004-.008-.012		
MC No.	CMC No.	Material	lbs/in ²	HB	Cutting speed v_c , ft/min		
S1.0.U.AN	20.11	Heat resistant super alloys Iron base Annealed or solution treated	348,000	200	-	520-435-355	
S1.0.U.AG	20.12	Aged or solution treated and aged	359,000	280	-	410-345-280	
S2.0.Z.AN	20.21	Nickel base Annealed or solution treated	383,000	250	1300-1050-880	325-275-225	
S2.0.Z.AG	20.22	Aged or solution treated and aged	420,500	350	980-770-620	295-245-200	
S2.0.C.NS	20.24	Cast or cast and aged	436,500	320	790-660-570	260-220-180	
S3.0.Z.AN	20.31	Cobalt alloys Annealed or solution treated	391,500	200	-	325-275-225	
S3.0.Z.AG	20.32	Solution treated and aged	432,000	300	-	290-245-200	
S3.0.C.NS	20.33	Cast or cast and aged	450,500	320	-	260-220-180	



Parting and grooving

B

CoroCut® XS

External tools

CoroCut® XS QS shank tool for parting and grooving

B2

Spare parts

B3

A

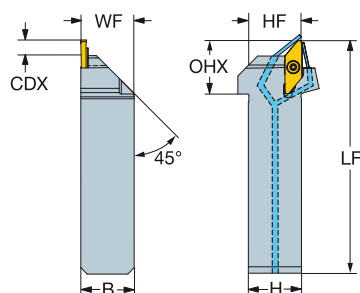
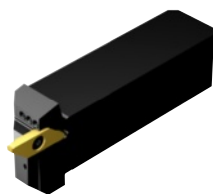
Parting and grooving

External tools

ENG

CoroCut® XS QS shank tool for parting and grooving

B



C

Metric version

							Dimensions, mm								
SSC	CZC _{MS}	CDX	OHX	OHN	CNSC	Ordering code	B	H	HBL	LF	WF	HF	CP BarPSI	Kg	MIID
3	20 x 20	7.3	45.0	25.0	3	QS-SMALR/L2020X3HP	20.0	20.0	25.1	94.1	20.0	20.0	150	0.24	MACL 3 200-N
	25 x 25	7.3	50.0	25.0	3	QS-SMALR/L2525X3HP	25.0	25.0	25.1	109.1	25.0	25.0	150	0.44	MACL 3 200-N

D

Inch version

							Dimensions, inch								
SSC	CZC _{MS}	CDX	OHX	OHN	CNSC	Ordering code	B	H	HBL	LF	WF	HF	CP BarPSI	Lbs	MIID
3	3/4 x 3/4	.286	1.734	.984	3	QS-SMALR/L123XHP	.750	.750	.988	3.705	.750	.750	2175	.484	MACL 3 200-N
	1 x 1	.286	1.984	.984	3	QS-SMALR/L163XHP	1.000	1.000	.988	4.295	1.000	1.000	2175	1.012	MACL 3 200-N

SSC = To correspond with SSC on insert.

R = Right hand, L = Left hand

F

G

H



H3

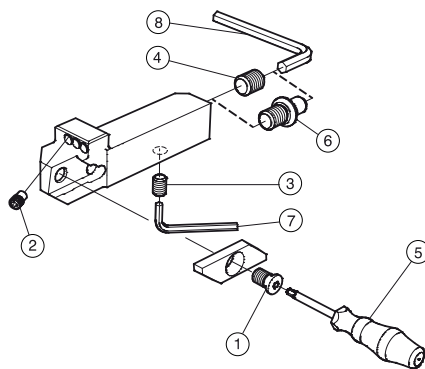


H10



B3

CoroCut® XS QS shank tool for parting and grooving



Metric version

	Spare parts				Included parts	Accessories		
	1	2	3	4	5	6	7	
Ordering code	Insert screw	Nozzle	Plug	Plug	Screwdriver	Coolant tube	Key	
QS-SMALR/L2020X3HP	5513 027-01	5691 026-13	3214 013-01	3214 012-01	5680 046-01	5692 010-02	174.1-864	
QS-SMALR/L2525X3HP	5513 027-01	5691 026-13	3214 013-01	3214 012-01	5680 046-01	5692 010-02	174.1-864	
	Accessories							
	8							
Ordering code	Key							
QS-SMALR/L2020X3HP	3021 010-050							
QS-SMALR/L2525X3HP	3021 010-050							

Inch version

	Spare parts				Included parts	Accessories		
	1	2	3	4	5	6	7	
Ordering code	Insert screw	Nozzle	Plug	Plug	Screwdriver	Coolant tube	Key	
QS-SMALR/L123XHP	5513 027-01	5691 026-13	3214 013-01	3214 012-01	5680 046-01	5692 010-02	174.1-864	
QS-SMALR/L163XHP	5513 027-01	5691 026-13	3214 013-01	3214 012-01	5680 046-01	5692 010-02	174.1-864	
	Accessories							
	8							
Ordering code	Key							
QS-SMALR/L123XHP	3021 010-050							
QS-SMALR/L163XHP	3021 010-050							

Accessories, must be ordered separately



Turning tool adaptors

C

Machine side interface Coromant Capto®

- Coromant Capto® to rectangular shank adaptorC2
- Coromant Capto® to blade adaptorC5

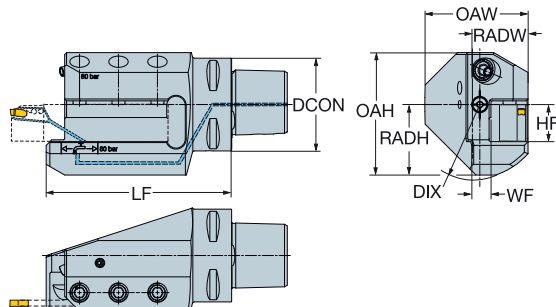
Machine side interface HSK

- HSK to rectangular shank adaptorC6
- HSK to blade adaptorC7

- Spare partsC8

Coromant Capto® to rectangular shank adaptor

Internal coolant supply



Metric version

					Dimensions, mm											CP  	
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT			
C5	20 x 20	3	5	C5-ASHR/L-095-20HP	50.0	95.0	10.0	20.0	55.5	69.0	37.0	30.0	85	M16x1.5	150		1.6
C6	20 x 20	3	6	C6-ASHR/L-105-20HP	63.0	105.0	10.0	20.0	63.5	69.0	37.0	30.0	85	M20x2	150		2.3
	25 x 25	3	6	C6-ASHR/L-122-25HP	63.0	122.0	13.0	25.0	70.0	78.0	46.0	38.0	100	M20x2	150		2.9
C8	25 x 25	3	5	C8-ASHR/L-122-25HP	80.0	122.0	15.0	25.0	80.0	86.0	46.0	40.0	103	M20x2	150		3.9

Inch version

					Dimensions, inch													CP PSI 
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT				
C5	3/4 x 3/4	3	5	C5-ASHR/L-095-12AHP	1.969	3.740	.431	.750	2.185	2.717	1.457	1.181	3.346	M16x1.5	2175	3.6		
C6	3/4 x 3/4	3	6	C6-ASHR/L-105-12AHP	2.480	4.134	.431	.750	2.500	2.717	1.457	1.181	3.346	M20x2	2175	5.2		
	1 x 1	3	6	C6-ASHR/L-122-16AHP	2.480	4.803	.496	1.000	2.756	3.071	1.811	1.496	3.937	M20x2	2175	6.5		



H3



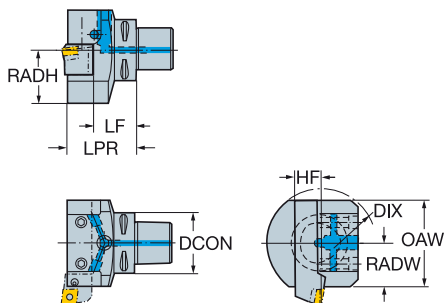
H10



C8

Coromant Capto® to rectangular shank adaptor

Internal coolant supply



Metric version

					Dimensions, mm															
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LPR	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT					
C5	20 x 20	3	6	C5-ASHA-065-20HP	50.0	65.0	45.0	32.0	20.0	64.0	69.0	37.0	32.0	85	M16x1.5	150	1.4			
C6	20 x 20	3	6	C6-ASHA-070-20HP	63.0	70.0	50.0	32.0	20.0	64.0	69.0	37.0	32.0	85	M20x2	150	1.8			
	25 x 25	3	6	C6-ASHA-080-25HP	63.0	80.0	55.0	38.0	25.0	76.0	78.0	46.0	38.0	100	M20x2	150	2.4			
C8	25 x 25	3	6	C8-ASHA-075-25HP	80.0	75.0	50.0	38.0	25.0	80.0	86.0	46.0	38.0	103	M20x2	150	3.0			

Inch version

					Dimensions, inch												 CP PSI		 Lbs	
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LPR	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT					
C5	3/4 x 3/4	3	6	C5-ASHA-065-12AHP	1.969	2.559	1.809	1.260	.750	2.520	2.717	1.457	1.260	3.346	M16x1.5	2175	3.2			
C6	3/4 x 3/4	3	6	C6-ASHA-070-12AHP	2.480	2.756	1.809	1.260	.750	2.520	2.717	1.457	1.260	3.346	M20x2	2175	4.1			
	1 x 1	3	6	C6-ASHA-080-16AHP	2.480	3.150	2.150	1.496	1.000	2.992	3.071	1.811	1.496	3.937	M20x2	2175	5.3			



H3



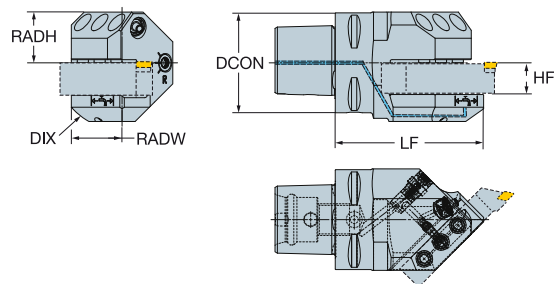
H10



C9

Coromant Capto® to rectangular shank adaptor

Internal coolant supply



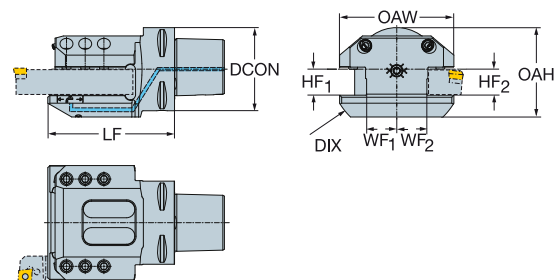
Metric version

					Dimensions, mm												CP Bar	
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	HF	OAW	OAH	RADH	RADW	DIX	CNT					
C5	20 x 20	3	6	C5-ASHR/L45-085-20HP	50.0	85.0	20.0	64.0	69.0				85	M16x1.5	150	1.5		
C6	20 x 20	3	6	C6-ASHR/L45-095-20HP	63.0	95.0	20.0	64.0	69.0	37.0	32.0	85	M20x2	150	2.0			
	25 x 25	3	6	C6-ASHR/L45-114-25HP	63.0	114.0	25.0	72.0	78.0	46.0	36.0	100	M20x2	150	2.8			

Inch version

					Dimensions, inch												CP Bar	
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	HF	OAW	OAH	RADH	RADW	DIX	CNT					
C5	3/4 x 3/4	3	6	C5-ASHR/L45-085-12AHP	1.969	3.346	.750	2.520	2.717			3.346	M16x1.5	2175	3.4			
C6	3/4 x 3/4	3	6	C6-ASHR/L45-095-12AHP	2.480	3.740	.750	2.520	2.717	1.457	1.260	3.346	M20x2	2175	4.6			
	1 x 1	3	6	C6-ASHR/L45-114-16AHP	2.480	4.488	1.000	2.835	3.071	1.811	1.417	3.937	M20x2	2175	6.2			

Internal coolant supply



					Dimensions, mm, inch												CP Bar	
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF ₁	WF ₁	WF ₂	HF ₁	HF ₂	OAW	OAH	RADH	RADW	DIX	CNT		
C6	25 x 25	3	6	C6-ASHS-122-25HP	63	122	20.0	20.0	25	25	90	78	46	45	114	M20x2	150	4.190
					2.480	4.803	.787	.787	.984	.984	3.543	3.071	1.811	1.772	4.488	2175		
C8	25 x 25	3	6	C8-ASHS-122-25HP	80	122	30.0	30.0	25	25	110	78	46	55	128	M20x2	150	4.790
					3.150	4.803	1.181	1.181	.984	.984	4.331	3.071	1.811	2.165	5.039	2175		



H3



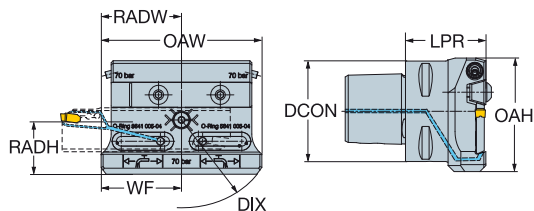
H10



C10

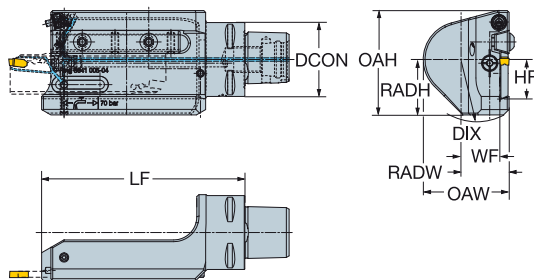
Coromant Capto® to blade adaptor

Internal coolant supply



					Dimensions, mm, inch																
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LPR	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT	 CP Bar/PSI	 Kg				
C5	21	3	6	C5-APBA-040-21HP	50	40	35	40.0	21	80	56	30	40	96	M16x1.5	70	0.880				
					1.969	1.575	1.378	1.575	.827	3.150	2.224	1.181	1.575	3.780		1015					
C6	25	3	6	C6-APBA-050-25HP	63	50	45	41.0	25	82	69	37	41	103	M20x2	70	1.570				
					2.480	1.969	1.772	1.614	.984	3.228	2.717	1.457	1.614	4.055		1015					
C8	25	3	6	C8-APBA-050-25HP	80	50	45	41.0	25	82	80	37	41	103	M20x2	70	2.370				
					3.150	1.969	1.772	1.614	.984	3.228	3.150	1.457	1.614	4.055		1015					

Internal coolant supply



					Dimensions, mm, inch															
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT						
C4	21L	3	6	C4-APBL-122-21HP	40	122	21.0	21	46	48	32	26	75	M14x1.5	70	1.090				
					1.575	4.803	.827	.827	1.831	1.909	1.260	1.024	2.953		1015					
	21R	3	6	C4-APBR-122-21HP	40	122	21.0	21	46	48	32	26	75	M14x1.5	70	1.090				
					1.575	4.803	.827	.827	1.831	1.909	1.260	1.024	2.953		1015					
C5	21L	3	6	C5-APBR/L-122-21HP	50	122	26.0	21	56	48	32	31	85	M16x1.5	70	1.310				
					1.969	4.803	1.024	.827	2.224	1.909	1.260	1.220	3.346		1015					
C6	25L	3	6	C6-APBR/L-160-25HP	63	160	32.0	25	69	69	37	37	100	M20x2	70	2.480				
					2.480	6.299	1.260	.984	2.717	2.717	1.457	1.457	3.937		1015					
C8	25L	3	6	C8-APBR/L-160-25HP	80	160	40.5	25	86	81	37	45	111	M20x2	70	3.370				
					3.150	6.299	1.594	.984	3.386	3.189	1.457	1.791	4.370		1015					
	45L	3	6	C8-APBR/L-235-45HP	80	235	40.5	45	98	102	62	48	144	M20x2	70	6.560				
					3.150	9.252	1.594	1.772	3.878	4.035	2.441	1.890	5.669		1015					
C10	45L	3	6	C10-APBR/L-240-45HP	100	240	52.5	45	110	112	62	60	158	M24x2	70	8.510				
					3.937	9.449	2.067	1.772	4.350	4.429	2.441	2.362	6.220		1015					



H3



H10



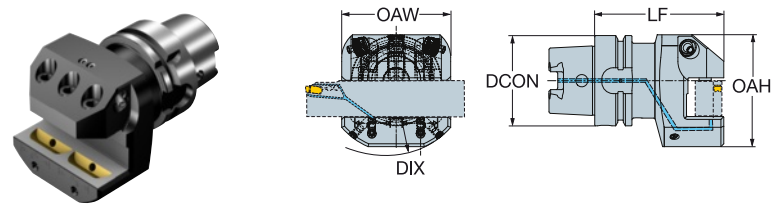
C11

A

HSK to rectangular shank adaptor

B

Internal coolant supply



C

Metric version

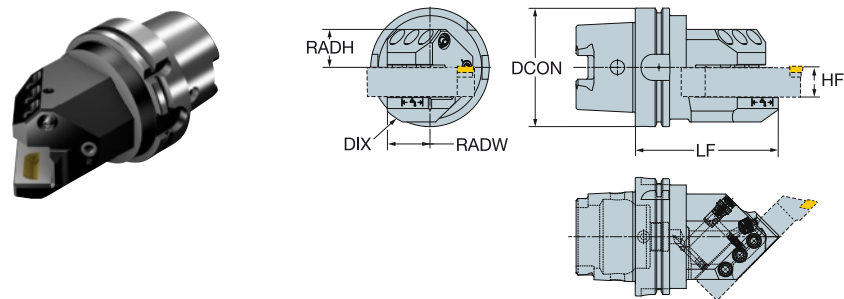
				Ordering code	Dimensions, mm																
CZC _{MS}	CZC _{WS}	CNSC	CXSC		DCON	LPR	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT						
63	25 x 25	1	6	HT06-ASHA-090-25HP	63.0	90.0	65.0	38.0	25.0	76.0	78.0	46.0	38.0	100	M18x1	150	2.2				
100	25 x 25	1	6	HT10-ASHA-090-25HP	100.0	90.0	65.0	38.0	25.0	99.9	99.9	46.0	38.0	103	M24x1.5	150	4.0				

D

Inch version

					Dimensions, inch													
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LPR	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT	CP PSI	 Lbs	
63	1 x 1	3	6	HT06-ASHA-090-16AHP	2.480	3.543	2.543	1.496	1.000	2.992	3.071	1.811	1.496	3.937	M18x1	2175	5.0	

E



F

					Dimensions, mm, inch												CP	
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	HF	OAW	OAH	RADH	RADW	DIX	CNT				Bar/PSI	Kg
100	25 x 25	3	6	HT10-ASHR/L45-122-25HP	100	122	25	99	99	46	36	103	M24x1.5	150	4.375			
					3.937	4.803	.984	3.934	3.934	1.811	1.417	4.055				2175		

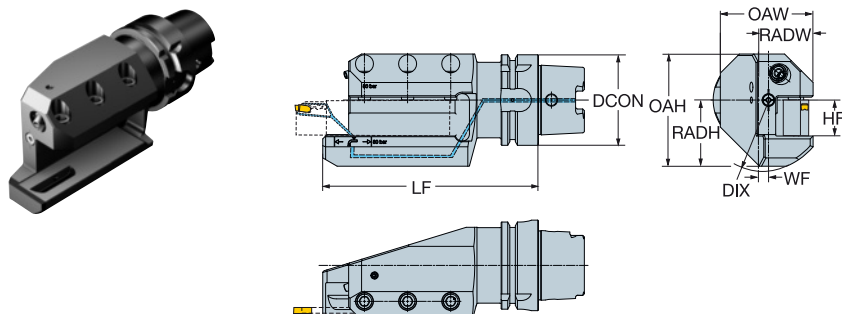
G

H



HSK to rectangular shank adaptor

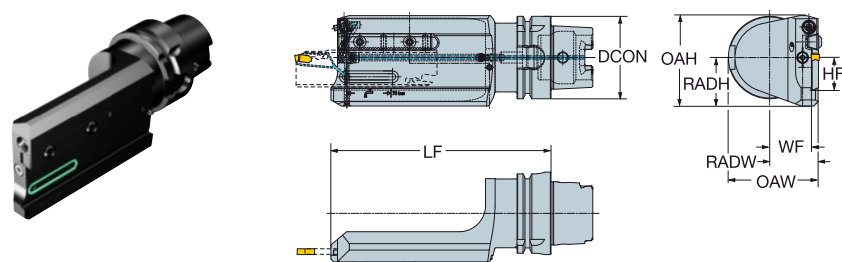
Internal coolant supply



				Dimensions, mm, inch																
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT						
63	25 x 25	3	6	HT06-ASHR/L-132-25HP	63	132	13.0	25	69	78	46	38	100	M18x1	150	2.760				
					2.480	5.197	.512	.984	2.735	3.071	1.811	1.496	3.937		2175					
100	25 x 25	3	6	HT10-ASHR/L-132-25HP	100	132	15.0	25	99	99	46	40	103	M24x1.5	150	4.700				
					3.937	5.197	.591	.984	3.934	3.934	1.811	1.575	4.055		2175					

HSK to blade adaptor

Internal coolant supply



				Dimensions, mm, inch													 CP BarPSI	 Kg
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON	LF	WF	HF	OAW	OAH	RADH	RADW	DIX	CNT				
63	25L	3	6	HT06-APBR/L-175-25HP	63	175	32.0	25	69	69	37	37	100	M18x1	70	2.500		
					2.480	6.890	1.260	.984	2.717	2.717	1.457	1.457	3.937		1015			



H3

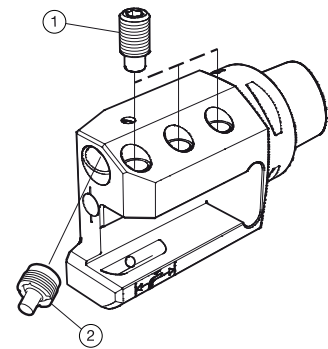


H10



C13

Coromant Capto® to rectangular shank adaptor



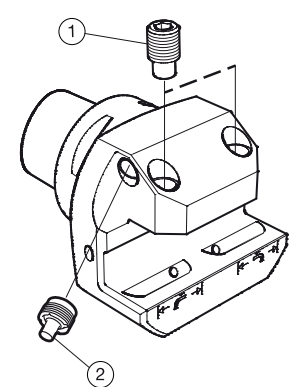
Metric version

	Spare parts		
	1	2	
Ordering code	Set screw	Nozzle	
C5-ASHR/L-095-20HP	3214 020-460	5691 034-03	
C6-ASHR/L-105-20HP	3214 020-460	5691 034-03	
C6-ASHR/L-122-25HP	3214 020-510	5691 034-03	
C8-ASHR/L-122-25HP	3214 020-510	5691 034-03	

Inch version

	Spare parts		
	1	2	
Ordering code	Set screw	Nozzle	
C5-ASHR/L-095-12AHP	3214 020-460	5691 034-03	
C6-ASHR/L-105-12AHP	3214 020-460	5691 034-03	
C6-ASHR/L-122-16AHP	3214 020-510	5691 034-03	

Coromant Capto® to rectangular shank adaptor



Metric version

	Spare parts		
	1	2	
Ordering code	Set screw	Nozzle	
C5-ASHA-065-20HP	3214 020-510	5691 034-03	
C6-ASHA-070-20HP	3214 020-510	5691 034-03	
C6-ASHA-080-25HP	3214 020-510	5691 034-03	
C8-ASHA-075-25HP	3214 020-510	5691 034-03	

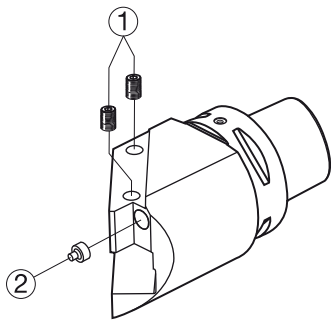
Inch version

	Spare parts		
	1	2	
Ordering code	Set screw	Nozzle	
C5-ASHA-065-12AHP	3214 020-510	5691 034-03	
C6-ASHA-070-12AHP	3214 020-510	5691 034-03	
C6-ASHA-080-16AHP	3214 020-510	5691 034-03	

A

Coromant Capto® to rectangular shank adaptor

B



C

Metric version

	Spare parts	
	1	2
Ordering code	Screw	Coolant nozzle
C5-ASHR/L45-085-20HP	3214 020-460	5691 034-03
C6-ASHR/L45-095-20HP	3214 020-460	5691 034-03
C6-ASHR/L45-114-25HP	3214 020-510	5691 034-03

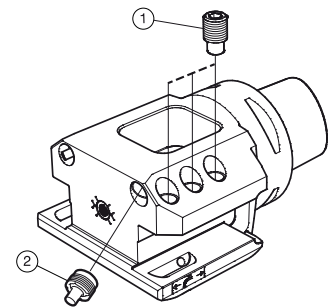
D

E

Inch version

	Spare parts	
	1	2
Ordering code	Screw	Coolant nozzle
C5-ASHR/L45-085-12AHP	3214 020-460	5691 034-03
C6-ASHR/L45-095-12AHP	3214 020-460	5691 034-03
C6-ASHR/L45-114-16AHP	3214 020-510	5691 034-03

F

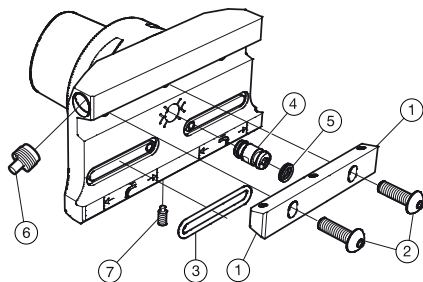


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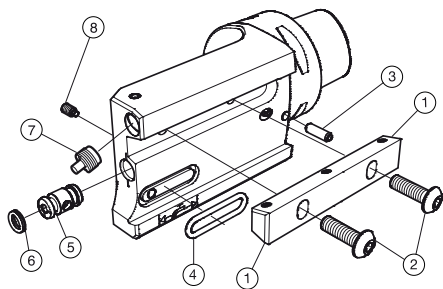
	Spare parts	
	1	2
Ordering code	Screw	Nozzle
C6-ASHS-122-25HP	3214 020-510	5691 034-03
C8-ASHS-122-25HP	3214 020-510	5691 034-03

H

Coromant Capto® to blade adaptor



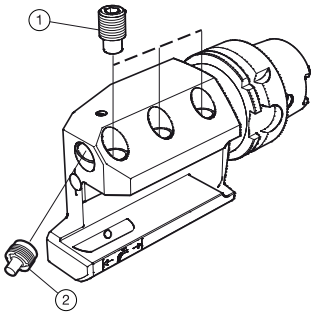
	Spare parts							
	1	2	3	4	5	6	7	
Ordering code	Wedge	Screw	O-ring	Valve bolt	O-ring	Nozzle	Setting screw	
C5-APBA-040-21HP	5431 080-04	5512 031-09	5641 005-07	5692 036-01	5641 005-08	5691 034-01	3214 020-257	
C6-APBA-050-25HP	5431 080-02	5512 031-09	5641 005-07	5692 036-01	5641 005-08	5691 034-02	3214 020-257	
C8-APBA-050-25HP	5431 080-02	5512 031-09	5641 005-07	5692 036-01	5641 005-08	5691 034-02	3214 020-257	



	Spare parts							
	1	2	3	4	5	6	7	
Ordering code	Wedge	Screw	Spring pin	O-ring	Valve bolt	O-ring	Nozzle	
C4-APBL-122-21HP	5431 080-04	5512 031-09	3113 030-457	5641 005-07	5692 036-02	5641 005-08	5691 034-01	
C4-APBR-122-21HP	5431 080-04	5512 031-09	3113 030-457	5641 005-07	5692 036-02	5641 005-08	5691 034-01	
C5-APBR/L-122-21HP	5431 080-04	5512 031-09	3113 030-457	5641 005-07	5692 036-02	5641 005-08	5691 034-01	
C6-APBR/L-160-25HP	5431 080-02	5512 031-09	3113 030-457	5641 005-74	5692 036-02	5641 005-08	5691 034-02	
C8-APBR/L-160-25HP	5431 080-02	5512 031-09	3113 030-457	5641 005-74	5692 036-02	5641 005-08	5691 034-02	
C8-APBR/L-235-45HP	5431 080-03	5512 031-09	3113 030-457	5641 005-14			5691 034-03	
C10-APBR/L-240-45HP	5431 080-03	5512 031-09	3113 030-457	5641 005-14			5691 034-03	

	Spare parts							
	8							
Ordering code	Setting screw							
C4-APBL-122-21HP	3214 020-256							
C4-APBR-122-21HP	3214 020-256							
C5-APBR/L-122-21HP	3214 020-256							
C6-APBR/L-160-25HP	3214 020-256							
C8-APBR/L-160-25HP	3214 020-256							
C8-APBR/L-235-45HP	3214 020-256							
C10-APBR/L-240-45HP	3214 020-256							

HSK to rectangular shank adaptor

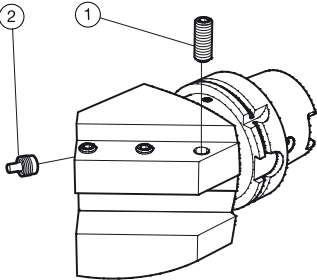


Metric version

	Spare parts		
	1	2	
Ordering code	Setting screw	Nozzle	
HT06-ASHA-090-25HP	3214 020-510	5691 034-03	
HT10-ASHA-090-25HP	3214 020-510	5691 034-03	

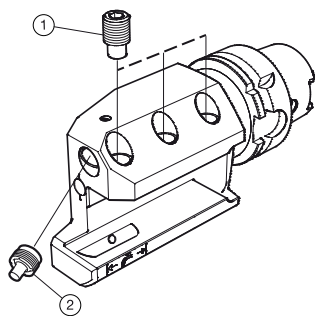
Inch version

	Spare parts		
	1	2	
Ordering code	Setting screw	Nozzle	
HT06-ASHA-090-16AHP	3214 020-510	5691 034-03	



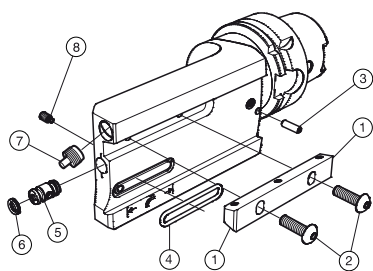
	Spare parts		
	1	2	
Ordering code	Screw	Nozzle	
HT10-ASHR/L45-122-25HP	3214 020-510	5691 034-03	

HSK to rectangular shank adaptor



	Spare parts		
	1	2	
Ordering code	Setting screw	Nozzle	
HT06-ASHR/L-132-25HP	3214 020-510	5691 034-03	
HT10-ASHR/L-132-25HP	3214 020-510	5691 034-03	

HSK to blade adaptor



	Spare parts							
	1	2	3	4	5	6	7	
Ordering code	Wedge	Screw	Spring pin	O-ring	Valve bolt	O-ring	Nozzle	
HT06-APBR/L-175-25HP	5431 080-02	5512 031-09	3113 030-457	5641 005-74	5692 036-02	5641 005-08	5691 034-02	
	Spare parts							
	8							
Ordering code	Setting screw							
HT06-APBR/L-175-25HP	3214 020-256							



Milling

D

Face milling tools

CoroMill® 745 face milling cutter	D2
CoroMill® 745 insert for milling	D4
CoroMill® 415 face milling cutter	D5
CoroMill® 600 face milling cutter	D8
CoroMill® 600 insert for milling	D10

Solid milling tools

CoroMill® Plura solid carbide square shoulder end mill	D11
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Spare parts	D15
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Cutting data	D21
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A

Milling Face milling tools

CoroMill® 745 face milling cutter

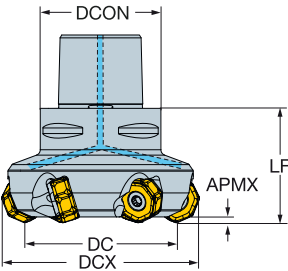
Coromant Capto®

High feed face milling

B

KAPR

25°



C

Metric version

D

						Dimensions, mm											
DC		CZC _{MS}	APMX _{FFW}	CNSC		Ordering code	DCON	DCX	LF			RPMX	CICT	MIID			
63.0	21	C5	2.80	3	5	725-063C5-21M	50.0	86.4	60.0	12.0	1.32	5894	5	745R-2109			
	21	C6	2.80	3	5	725-063C6-21M	63.0	86.4	60.0	12.0	1.70	5894	5	745R-2109			
	21	C5	2.80	3	7	725-063C5-21H	50.0	86.4	60.0	12.0	1.23	5894	7	745R-2109			
	21	C6	2.80	3	7	725-063C6-21H	63.0	86.4	60.0	12.0	1.60	5894	7	745R-2109			
80.0	21	C6	2.80	3	6	725-080C6-21M	63.0	103.4	65.0	12.0	2.06	5324	5	745R-2109			
	21	C8	2.80	3	6	725-080C8-21M	80.0	103.4	65.0	12.0	2.91	5324	6	745R-2109			
	21	C6	2.80	3	9	725-080C6-21H	63.0	103.4	60.0	12.0	1.93	5324	9	745R-2109			
	21	C8	2.80	3	9	725-080C8-21H	80.0	103.4	65.0	12.0	1.67	5324	9	745R-2109			
100.0	21	C8	2.80	3	7	725-100C8-21M	80.0	123.4	80.0	12.0	3.67	4765	7	745R-2109			
	21	C8	2.80	3	11	725-100C8-21H	80.0	123.4	80.0	12.0	3.49	4765	11	745R-2109			

E

F

G

H

D4

H3

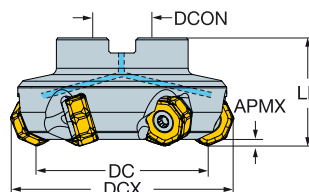
CNSC CXSC

D15

CoroMill® 745 face milling cutter

Arbor

High feed face milling

STDNO
KAPRISO 6462:2011
25°

Metric version

						Dimensions, mm									
DC		CZC _{MS}	APMX _{FFW}	CNSC		Ordering code	DCON	ISO	DCX	LF			RPMX	CICT	MIID
63.0	21	22	2.80	3	5	725-063Q22-21M	22.0	A	86.4	50.0	12.0	0.90	5894	5	745R-2109
	21	22	2.80	3	7	725-063Q22-21H	22.0	A	86.4	50.0	12.0	0.81	5894	7	745R-2109
80.0	21	27	2.80	3	6	725-080Q27-21M	27.0	A	103.4	50.0	12.0	1.36	5324	6	745R-2109
	21	27	2.80	3	9	725-080Q27-21H	27.0	A	103.4	50.0	12.0	1.23	5324	9	745R-2109
100.0	21	32	2.80	3	7	725-100Q32-21M	32.0	A	123.4	50.0	12.0	2.10	4765	7	745R-2109
	21	27	2.80	3	11	725-100Q32-21H	32.0	A	123.4	100.0	12.0	1.93	4765	11	745R-2109
125.0	21	40	2.80	3	8	725-125Q40-21M	40.0	B	148.4	63.0	12.0	3.43	4216	8	745R-2109
	21	40	2.80	3	14	725-125Q40-21H	40.0	B	148.4	63.0	12.0	3.17	4216	14	745R-2109
160.0	21	40	2.80	3	10	725-160Q40-21M	40.0	B	183.4	63.0	12.0	4.86	3675	10	745R-2109
	21	40	2.80	3	16	725-160Q40-21H	40.0	B	183.4	63.0	12.0	4.60	3675	16	745R-2109

Inch version

							Dimensions, inch								
DC		CZC _{MS}	APMX _{FFW}	CNSC		Ordering code	DCON	ISO	DCX	LF			RPMX	CICT	MIID
2.500	21	1	.110	3	5	A725-063R25-21M	1.000	A	3.421	1.969	8.9	6.69	5894	5	745R-2109
	21	1	.110	3	7	A725-063R25-21H	1.000	A	3.421	1.969	8.9	3.48	5894	7	745R-2109
3.000	21	1	.110	3	6	A725-076R25-21M	1.000	A	3.921	1.969	8.9	2.07	5324	6	745R-2109
	21	1	.110	3	9	A725-076R25-21H	1.000	A	3.921	1.969	8.9	1.89	5324	9	745R-2109
4.000	21	1 1/2	.110	3	7	A725-102R38-21M	1.500	A	4.921	2.240	8.9	2.88	4765	7	745R-2109
	21	1 1/2	.110	3	11	A725-102R38-21H	1.500	A	4.921	2.240	8.9	2.60	4765	11	745R-2109
5.000	21	1 1/2	.110	3	8	A725-127R38-21M	1.500	B	5.921	2.480	8.9	5.70	4216	8	745R-2109
	21	1 1/2	.110	3	14	A725-127R38-21H	1.500	B	5.921	2.480	8.9	5.32	4216	14	745R-2109
6.000	21	1 1/2	.110	3	10	A725-152R38-21M	1.500	B	6.921	2.480	8.9	7.72	3675	10	745R-2109
	21	1 1/2	.110	3	16	A725-152R38-21H	1.500	B	6.921	2.480	8.9	7.15	3675	16	745R-2109



D4



H3



H10

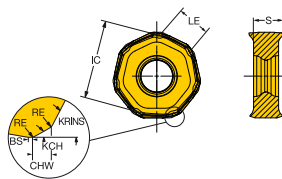


D16

A

CoroMill® 745 insert for milling

B



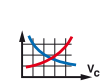
C

							P					M			K					S				Dimensions, mm, inch									
							1130	3040	4220	4230	4240	S30T	S40T	1040	1130	2030	2040	1020	1130	3040	4220	4230	4240	K20D	K20W	1040	2030	2040	S30T	S40T	IC	LE	S
Medium		21	1.00	17°	1.3	745R-2109E-M30	☆	☆	☆		☆			☆			☆	☆	☆	☆	☆							21.0	8.9	9.00	0.3	25.0	
			.039		.051																								.827	.350	.354	.012	.984
		21	1.00			745R-2109E-M31	☆		☆	☆	☆	☆	☆		☆		☆	☆		☆	☆	☆	☆	☆	☆	☆		21.0	7.1	9.00	1.9	150.0	
			.039																										.827	.280	.354	.075	5.906
Roughing		21	1.00	17°	1.3	745R-2109E-H50			☆	☆	☆							☆		☆	☆	☆	☆				21.0	8.9	9.00	0.3	25.0		
			.039		.051																							.827	.350	.354	.012	.984	
Heavy		21	1.00	17°	1.3	745R/L-2109E-M50				☆										☆		☆	☆				21.0	8.5	9.00	0.3	25.0		
			.039		.051																						.827	.335	.354	.013	.984		
			1.00	17°	1.3	745R-2109E-M50	☆	☆	☆		☆								☆	☆							21.0	8.9	9.00	0.3	25.0		
			.039		.051																						.827	.350	.354	.012	.984		

F

G

H



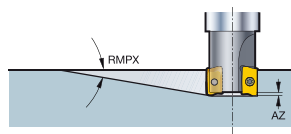
D21



H3

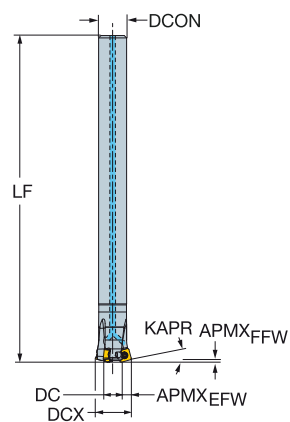
CoroMill® 415 face milling cutter

Cylindrical shank



KAPR

15°



Metric version

								Dimensions, mm											
DC		CZC _{MS}	APM _{XEFW}	APM _{XFFW}	RMPX	CNSC		Ordering code	DCON	DCX	BD ₁	LB ₁	LF			RPMX	CICT	MIID	
11.6	05	16	3.0	0.85	0.62°	1	5	415-020A16-05H	16.0	20.0	16.0	15.0	200.0	0.6	0.27	19000	5	415N-050206M	
20.5	07	25	4.5	1.20	0.63°	1	5	415-032A25-07H	25.0	32.0	26.0	15.0	250.0	1.2	0.86	13900	5	415N-070310M	



H3



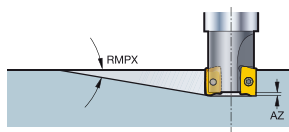
H10



D17

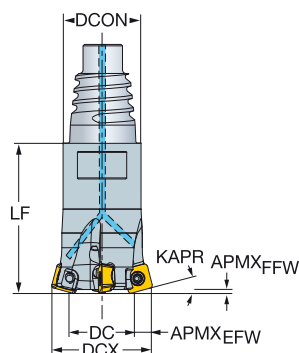
CoroMill® 415 face milling cutter

Coromant EH



KAPR

15°



Metric version

										Dimensions, mm											
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	CNSC		Ordering code		DCON	DCX	BD ₁	LB ₁	LF			RPMX			CICT	MIID
8.6	07	E20	4.5	1.20	0.56°	1	2	415-20EH20-07H		19.3	20.0	14.0	15.0	35.0	1.2	0.07	17500			2	415N-070310M
11.6	05	E16	3.0	0.85	0.62°	1	4	415-20EH16-05M		15.5	20.0	16.0	12.0	30.0	0.6	0.05	19000			4	415N-050206M
	05	E20	3.0	0.85	0.62°	1	4	415-20EH20-05M		19.3	20.0	16.0	13.0	32.0	0.6	0.07	19000			4	415N-050206M
13.5	07	E20	4.5	1.20	0.61°	1	3	415-25EH20-07M		19.3	25.0	19.0	15.0	35.0	1.2	0.08	15700			3	415N-070310M
	07	E25	4.5	1.20	0.61°	1	3	415-25EH25-07M		24.2	25.0	19.0	18.0	40.0	1.2	0.12	15700			3	415N-070310M
	07	E25	4.5	1.20	0.61°	1	4	415-25EH25-07H		24.2	25.0	19.0	18.0	40.0	1.2	0.12	15700			4	415N-070310M
16.6	05	E20	3.0	0.85	0.64°	1	5	415-25EH20-05M		19.3	25.0	21.0	13.0	32.0	0.6	0.08	17000			5	415N-050206M
	05	E25	3.0	0.85	0.64°	1	5	415-25EH25-05M		24.2	25.0	21.0	15.0	35.0	0.6	0.12	17000			5	415N-050206M
20.5	07	E25	4.5	1.20	0.63°	1	4	415-32EH25-07M		24.2	32.0	26.0	18.0	40.0	1.2	0.16	13900			4	415N-070310M
	07	E25	4.5	1.20	0.63°	1	5	415-32EH25-07H		24.2	32.0	26.0	18.0	40.0	1.2	0.16	13900			5	415N-070310M
23.6	05	E25	3.0	0.85	0.65°	1	7	415-32EH25-05H		24.2	32.0	28.0	15.0	35.0	0.6	0.16	15000			7	415N-050206M

Inch version

										Dimensions, inch											
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	CNSC		Ordering code		DCON	DCX	BD ₁	LB ₁	LF			RPMX			CICT	MIID
.299	07	E20	.177	.047	0.62°	1	2	A415-19EH20-07H		.728	.750	.514	.591	1.378	0.9	0.13	17500			2	415N-070310M
.417	05	E20	.118	.033	0.62°	1	3	A415-19EH20-05M		.728	.750	.593	.512	1.260	0.4	0.13	19000			3	415N-050206M
.551	07	E25	.177	.047	0.61°	1	3	A415-25EH25-07M		.965	1.000	.764	.709	1.575	0.9	0.29	15700			3	415N-070310M
.689	05	E25	.118	.033	0.64°	1	5	A415-25EH25-05M		.965	1.000	.843	.591	1.378	0.4	0.29	17000			5	415N-050206M
.799	07	E25	.177	.047	0.63°	1	4	A415-32EH25-07M		.965	1.250	1.014	.709	1.575	0.9	0.35	13900			4	415N-070310M
.917	05	E25	.118	.033	0.85°	1	6	A415-32EH25-05M		.965	1.250	1.093	.591	1.378	0.4	0.35	15000			6	415N-050206M



H3



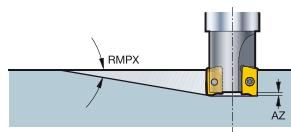
H10



D17

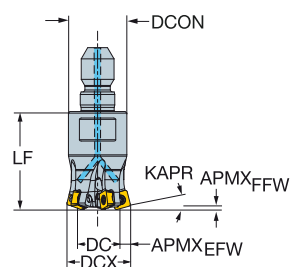
CoroMill® 415 face milling cutter

Threaded coupling



KAPR

15°



Metric version

										Dimensions, mm									
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	CNSC		Ordering code		DCON	DCX	BD ₁	LB ₁	LF	Nm	Kg	RPMX	CICT	MIID
4.6	05	M8	3.0	0.85	0.85°	1	2	415-13T08-05H		12.8	13.0	11.0	10.0	25.0	0.6	0.02	23600	2	415N-050206M
7.6	05	M8	3.0	0.85	0.97°	1	3	415-16T08-05H		12.8	16.0	12.0	10.0	25.0	0.6	0.03	21300	3	415N-050206M
11.6	05	M10	3.0	0.85	0.62°	1	5	415-20T10-05H		17.8	20.0	16.0	12.0	30.0	0.6	0.05	19000	5	415N-050206M
13.5	07	M12	4.5	1.20	0.61°	1	4	415-25T12-07H		20.8	25.0	19.0	15.0	38.0	1.2	0.09	15700	4	415N-070310M
16.6	05	M12	3.0	0.85	0.64°	1	6	415-25T12-05H		20.8	25.0	21.0	15.0	35.0	0.6	0.10	17000	6	415N-050206M
20.5	07	M16	4.5	1.20	0.63°	1	5	415-32T16-07H		28.8	32.0	26.0	15.0	40.0	1.2	0.19	13900	5	415N-070310M

Inch version

										Dimensions, inch									
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	CNSC		Ordering code		DCON	DCX	BD ₁	LB ₁	LF	Ft/lbs	Lbs	RPMX	CICT	MIID
.169	05	M8	.118	.033	0.85°	1	2	A415-13T08-05H		.504	.500	.433	.394	.984	0.4	0.04	23600	2	415N-050206M
.295	05	M8	.118	.033	0.97°	1	3	A415-16T08-05H		.504	.625	.468	.394	.984	0.4	0.07	21300	3	415N-050206M
.417	05	M10	.118	.033	0.62°	1	4	A415-19T10-05H		.701	.750	.593	.472	1.181	0.4	0.11	19000	4	415N-050206M
.551	07	M12	.177	.047	0.61°	1	4	A415-25T12-07H		.819	1.000	.764	.591	1.496	0.9	0.20	15700	4	415N-070310M
.669	05	M12	.118	.033	0.64°	1	6	A415-25T12-05H		.819	1.000	.843	.591	1.378	0.4	0.22	17000	6	415N-050206M
.799	07	M16	.177	.047	0.63°	1	5	A415-32T16-07H		1.134	1.250	1.014	.591	1.575	0.9	0.42	13900	5	415N-070310M



H3



H10

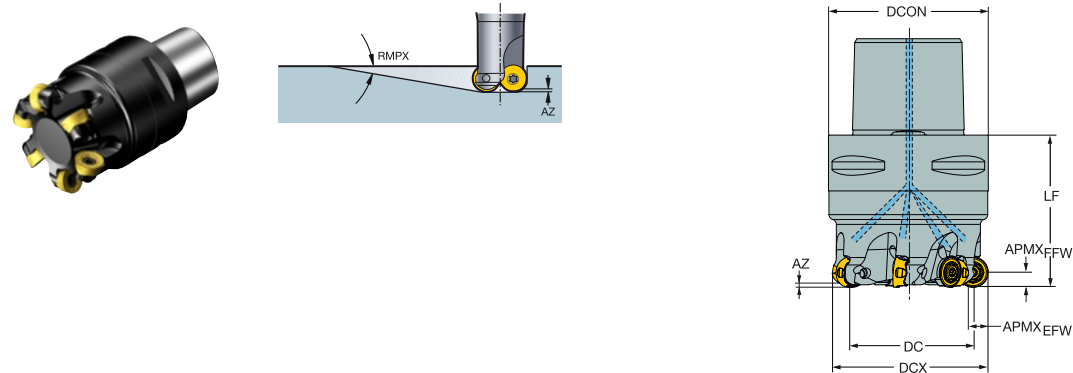


D18

A

CoroMill® 600 face milling cutter
Coromant Capto®

B



C

Metric version

										Dimensions, mm							
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	AZ	CNSC		5	Ordering code	DCON	DCX	LF		RPMX	CICT	MIID
32.0	10	C4	5.0	5.00	4.00°	1.5	1		5	600-042C4-10H	40.0	42.0	50.0	0.41	22200	5	600-1045
38.0	12	C5	6.0	6.00	4.00°	2.0	1	6		600-050C5-12HX	50.0	50.0	60.0	0.79	18700	6	600-1252
40.0	12	C5	6.0	6.00	3.50°	2.0	1	6		600-052C5-12HX	50.0	52.0	60.0	0.80	18300	6	600-1252
42.0	10	C5	5.0	5.00	3.00°	1.5	1		6	600-052C5-10H	50.0	52.0	60.0	0.88	19900	6	600-1045
51.0	12	C6	6.0	6.00	2.50°	2.0	1		7	600-063C6-12H	63.0	63.0	60.0	1.40	16700	7	600-1252

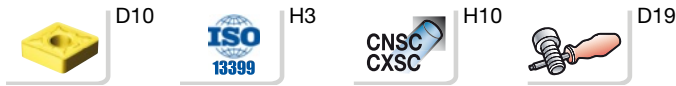
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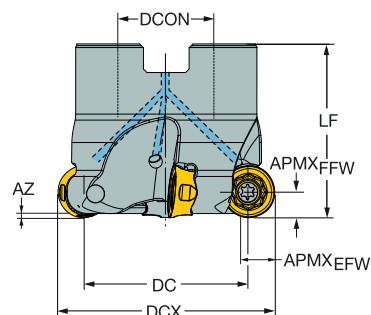
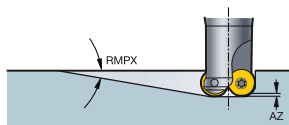


CoroMill® 600 face milling cutter

Arbor

STDNO

ISO 6462:2011



Metric version

										Ordering code	Dimensions, mm							
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	AZ	CNSC											
									DCON		ISO	DCX	LF		RPMX			
38.0	12	22	6.0	6.00	4.00°	2.0	1	6	600-050Q22-12HX	22.0	A	50.0	40.0	0.25	18700	6	600-1252	
40.0	12	22	6.0	6.00	3.50°	2.0	1	6	600-052Q22-12HX	22.0	A	52.0	40.0	0.28	18300	6	600-1252	
54.0	12	27	6.0	6.00	2.50°	2.0	1	6	600-066Q27-12M	27.0	A	66.0	50.0	0.65	15900	6	600-1252	
	12	27	6.0	6.00	2.50°	2.0	1	7	600-066Q27-12H	27.0	A	66.0	50.0	0.66	15900	7	600-1252	
68.0	12	27	6.0	6.00	1.80°	2.0	1	8	600-080Q27-12H	27.0	A	80.0	50.0	0.93	15100	8	600-1252	
88.0	12	32	6.0	6.00	1.20°	2.0	1	9	600-100Q32-12H	32.0	A	100.0	50.0	1.29	13500	9	600-1252	

Inch version

											Dimensions, inch							
DC		CZC _{MS}	APM _{EFW}	APM _{FFW}	RMPX	AZ	CNSC			Ordering code	DCON	ISO	DCX	LF		RPMX	CICT	MIID
1.528	12	3/4	.236	.236	4.00°	.079	1		4	A600-051R19-12M	.750	A	2.000	1.575	0.62	18500	4	600-1252
	12	3/4	.236	.236	4.00°	.079	1		5	A600-051R19-12H	.750	A	2.000	1.575	0.64	18500	5	600-1252
	12	3/4	.236	.236	4.00°	.079	1	6		A600-051R19-12HX	.750	A	2.000	1.575	0.62	18500	6	600-1252
1.606	10	3/4	.197	.197	3.00°	.059	1		6	A600-051R19-10H	.750	A	2.000	1.575	0.66	20100	6	600-1045
2.028	12	3/4	.236	.236	2.50°	.079	1		6	A600-063R19-12M	.750	A	2.500	1.969	1.25	16700	6	600-1252
	12	3/4	.236	.236	2.50°	.079	1		7	A600-063R19-12H	.750	A	2.500	1.969	1.28	16700	7	600-1252



D10



H3



H10



D20

A

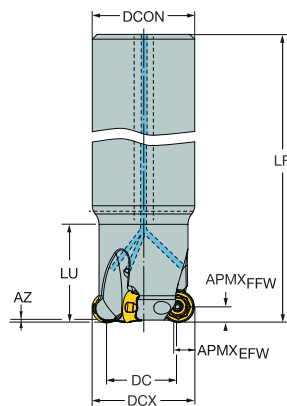
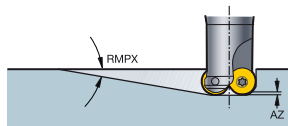
Milling Face milling tools

ENG

CoroMill® 600 face milling cutter

Cylindrical shank

B



C

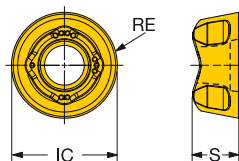
Inch version

D

										Dimensions, inch							
DC		CZC _{MS}	APMX _{EFW}	APMX _{FFW}	RMPX	AZ	CNSC			Ordering code	DCON	DCX	LF		RPMX	CICT	MIID
.606	10	1 1/2	.197	.197	3.00°	.059	1		3	A600-025025-10H	1.500	1.000	6.000	1.10	22300	3	600-1045
.856	10	2	.197	.197	4.50°	.059	1	4		A600-032032-10H	2.000	1.250	7.500	2.20	17400	4	600-1045
1.028	12	2	.236	.236	7.00°	.079	1	4		A600-038032-12H	2.000	1.500	7.500	2.42	10700	4	600-1252
1.106	10	2	.197	.197	4.50°	.059	1	5		A600-038032-10H	2.000	1.500	7.500	2.42	12500	5	600-1045

E

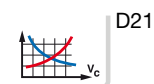
CoroMill® 600 insert for milling



F

												Dimensions, mm, inch	
		RE	Ordering code	M				S				IC	S
Light		10 5.00	600-1045E-ML	☆	☆	☆	☆	☆	☆	☆	☆	10.0	4.50
		.197										.394	.177
		12 6.00	600-1252E-ML	☆	☆	☆	☆	☆	☆	☆	☆	12.0	5.20
		.236										.472	.205
		10 5.00	600-1045M-ML	☆	☆	☆	☆	☆	☆	☆	☆	10.0	4.50
		.197										.394	.177
G		12 6.00	600-1252M-ML	☆	☆	☆	☆	☆	☆	☆	☆	12.0	5.20
		.236										.472	.205

H



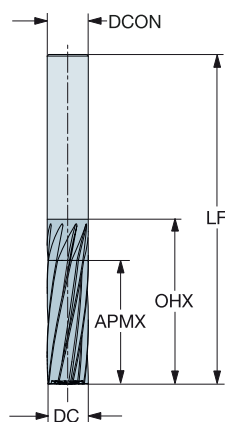
D 10



CoroMill® Plura solid carbide square shoulder end mill

Low helix cutter for composite machining

CNSC 0
FHA 4°
TCDCON h6



Metric version

						o	Dimensions, mm	
						010A	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
4.0	4	12.0	19.4	5	2P050-0400-OA	☆	4.0	40.0
6.0	6	18.0	24.0	7	2P050-0600-OA	☆	6.0	60.0
8.0	8	20.0	34.0	9	2P050-0800-OA	☆	8.0	70.0
10.0	10	30.0	40.0	9	2P050-1000-OA	☆	10.0	80.0
12.0	12	31.8	37.5	11	2P050-1200-OA	☆	12.0	82.5

Inch version

						o	Dimensions, inch	
						010A	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
.250	1/4	.752	1.083	7	2P050-0635-OA	☆	.250	2.500
.313	5/16	.752	1.083	7	2P050-0794-OA	☆	.313	2.500
.375	3/8	1.122	1.583	9	2P050-0953-OA	☆	.375	3.000
.500	1/2	1.252	1.476	11	2P050-1270-OA	☆	.500	3.248



H3



H10

A

CoroMill® Plura solid carbide square shoulder end mill

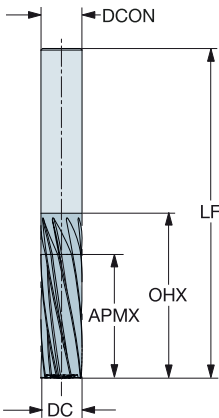
Low helix cutter for composite machining

B

CNSC 0
FHA -4°
TCDCON h6



C



Metric version

D

						0	Dimensions, mm	
						010A	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
4.0	4	12.0	19.4	5	2P051-0400-OA	☆	4.0	40.0
6.0	6	18.0	24.0	7	2P051-0600-OA	☆	6.0	60.0
8.0	8	20.0	34.0	9	2P051-0800-OA	☆	8.0	70.0
10.0	10	30.0	40.0	9	2P051-1000-OA	☆	10.0	80.0
12.0	12	31.8	37.5	11	2P051-1200-OA	☆	12.0	82.5

Inch version

E

						0	Dimensions, inch	
						010A	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
.250	1/4	.752	1.083	7	2P051-0635-OA	☆	.250	2.500
.313	5/16	.752	1.083	7	2P051-0794-OA	☆	.313	2.500
.375	3/8	1.122	1.583	9	2P051-0953-OA	☆	.375	3.000
.500	1/2	1.252	1.476	11	2P051-1270-OA	☆	.500	3.248

F

G

H



H3

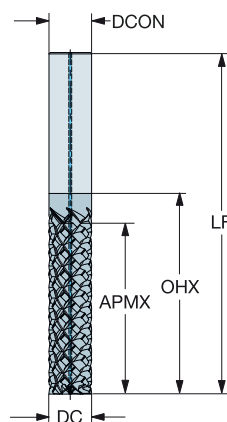


H10

CoroMill® Plura solid carbide square shoulder end mill

Serrated compression cutter for composite machining

CNSC 0
FHA 40°
TCDCON h6



Metric version

						0	Dimensions, mm	
						012M	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
6.0	6	18.0	24.0	5	2P350-0600-OA	☆	6.0	60.0
8.0	8	20.0	34.0	6	2P350-0800-OA	☆	8.0	70.0
10.0	10	30.0	40.0	6	2P350-1000-OA	☆	10.0	80.0
12.0	12	31.8	37.5	6	2P350-1200-OA	☆	12.0	82.5

Inch version

						0	Dimensions, inch	
						012M	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
.250	1/4	.752	1.083	5	2P350-0635-OA	☆	.250	2.500
.313	5/16	.752	1.083	6	2P350-0794-OA	☆	.313	2.500
.375	3/8	1.122	1.583	6	2P350-0953-OA	☆	.375	3.000
.500	1/2	1.252	1.476	6	2P350-1270-OA	☆	.500	3.248



H3



H10

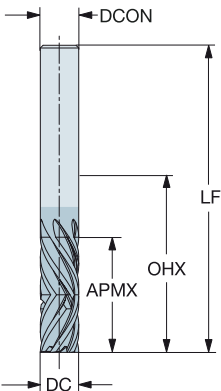
A

CoroMill® Plura solid carbide square shoulder end mill
Compression router for composite machining

B

CNSC 0
FHA 40°
TCDCON h6

C



Metric version

						0	Dimensions, mm	
						010M	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
6.0	6	18.0	24.0	6	2P460-0600-OA	☆	6.0	60.0
8.0	8	20.0	34.0	6	2P460-0800-OA	☆	8.0	70.0
10.0	10	30.0	40.0	6	2P460-1000-OA	☆	10.0	80.0
12.0	12	31.8	37.5	6	2P460-1200-OA	☆	12.0	82.5
16.0	16	38.1	52.0	6	2P460-1600-OA	☆	16.0	100.0

D

Inch version

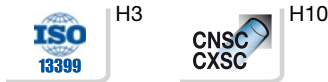
						0	Dimensions, inch	
						010M	DCON	LF
DC	CZC _{MS}	APMX	OHX	ZEFP	Ordering code			
.250	1/4	.752	1.083	6	2P460-0635-OA	☆	.250	2.500
.313	5/16	.752	1.083	6	2P460-0794-OA	☆	.313	2.500
.375	3/8	1.122	1.425	6	2P460-0953-OA	☆	.375	3.000
.500	1/2	1.252	1.476	6	2P460-1270-OA	☆	.500	3.248
.625	5/8	1.500	2.110	6	2P460-1588-OA	☆	.625	4.000

E

F

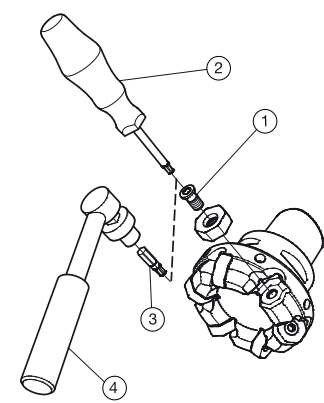
G

H



CoroMill® 745 face milling cutter

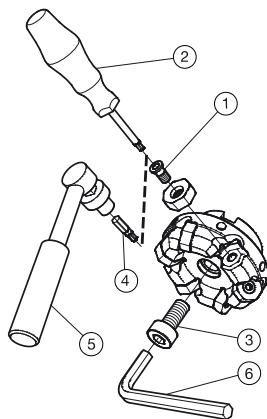
Coromant Capto®



Metric version

	Spare parts	Included parts	Accessories		
	1	2	3	4	
Ordering code	Insert screw	Screwdriver	Bit	Torque wrench	
725-063C5-21H	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-063C5-21M	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-063C6-21H	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-063C6-21M	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-080C6-21H	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-080C6-21M	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-080C8-21H	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-080C8-21M	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-100C8-21H	5513 020-80	5680 048-07	5680 084-16	5680 099-01	
725-100C8-21M	5513 020-80	5680 048-07	5680 084-16	5680 099-01	

Accessories, must be ordered separately

CoroMill® 745 face milling cutter**Arbor****Metric version**

	Spare parts	Included parts	Accessories				
	1	2	3	4	5	6	
Ordering code	Insert screw	Screwdriver	Coolant screw	Bit	Torque wrench	Key	
725-063Q22-21H	5513 020-80	5680 048-07	5512 073-01	5680 084-16	5680 099-01	3021 010-080	
725-063Q22-21M	5513 020-80	5680 048-07	5512 073-01	5680 084-16	5680 099-01	3021 010-080	
725-080Q27-21H	5513 020-80	5680 048-07	5512 073-02	5680 084-16	5680 099-01	3021 010-100	
725-080Q27-21M	5513 020-80	5680 048-07	5512 073-02	5680 084-16	5680 099-01	3021 010-100	
725-100Q32-21H	5513 020-80	5680 048-07	5512 073-05	5680 084-16	5680 099-01	3021 010-140	
725-100Q32-21M	5513 020-80	5680 048-07	5512 073-05	5680 084-16	5680 099-01	3021 010-140	
725-125Q40-21H	5513 020-80	5680 048-07	5512 098-03	5680 084-16	5680 099-01	3021 010-120	
725-125Q40-21M	5513 020-80	5680 048-07	5512 098-03	5680 084-16	5680 099-01	3021 010-120	
725-160Q40-21H	5513 020-80	5680 048-07	5512 098-03	5680 084-16	5680 099-01	3021 010-120	
725-160Q40-21M	5513 020-80	5680 048-07	5512 098-03	5680 084-16	5680 099-01	3021 010-120	

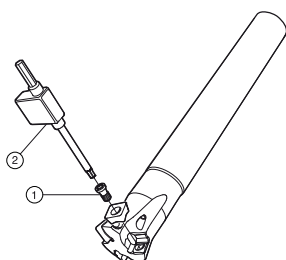
Inch version

	Spare parts	Included parts	Accessories				
	1	2	3	4	5	6	
Ordering code	Insert screw	Screwdriver	Coolant screw	Bit	Torque wrench	Key	
A725-063R25-21H	5513 020-80	5680 048-07	5512 074-02	5680 084-16	5680 099-01	3021 011-380	
A725-063R25-21M	5513 020-80	5680 048-07	5512 074-02	5680 084-16	5680 099-01	3021 011-380	
A725-076R25-21H	5513 020-80	5680 048-07	5512 074-02	5680 084-16	5680 099-01	3021 011-380	
A725-076R25-21M	5513 020-80	5680 048-07	5512 074-02	5680 084-16	5680 099-01	3021 011-380	
A725-102R38-21H	5513 020-80	5680 048-07	5512 099-03	5680 084-16	5680 099-01	5680 043-19	
A725-102R38-21M	5513 020-80	5680 048-07	5512 099-03	5680 084-16	5680 099-01	5680 043-19	
A725-127R38-21H	5513 020-80	5680 048-07	5512 099-03	5680 084-16	5680 099-01	5680 043-19	
A725-127R38-21M	5513 020-80	5680 048-07	5512 099-03	5680 084-16	5680 099-01	5680 043-19	
A725-152R38-21H	5513 020-80	5680 048-07	5512 099-03	5680 084-16	5680 099-01	5680 043-19	
A725-152R38-21M	5513 020-80	5680 048-07	5512 099-03	5680 084-16	5680 099-01	5680 043-19	

Accessories, must be ordered separately

CoroMill® 415 face milling cutter

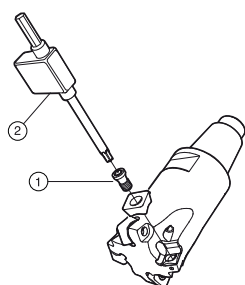
Cylindrical shank



Metric version

	Spare parts	Included parts	
	1	2	
Ordering code	Insert screw	Key	
415-020A16-05H	5513 020-28	5680 073-02	
415-032A25-07H	5513 020-56	5680 073-04	

Coromant EH

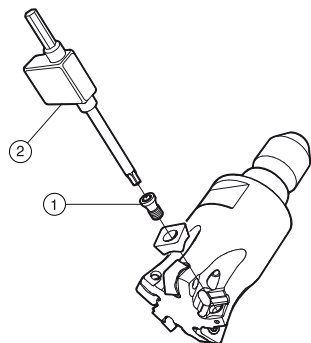


Metric version

	Spare parts	Included parts	
	1	2	
Ordering code	Insert screw	Key	
415-20EH16-05M	5513 020-28	5680 073-02	
415-20EH20-05M	5513 020-28	5680 073-02	
415-20EH20-07H	5513 020-56	5680 073-04	
415-25EH20-05M	5513 020-28	5680 073-02	
415-25EH20-07M	5513 020-56	5680 073-04	
415-25EH25-05M	5513 020-28	5680 073-02	
415-25EH25-07H	5513 020-56	5680 073-04	
415-25EH25-07M	5513 020-56	5680 073-04	
415-32EH25-05H	5513 020-28	5680 073-02	
415-32EH25-07H	5513 020-56	5680 073-04	
415-32EH25-07M	5513 020-56	5680 073-04	

Inch version

	Spare parts	Included parts	
	1	2	
Ordering code	Insert screw	Key	
A415-19EH20-05M	5513 020-28	5680 073-02	
A415-19EH20-07H	5513 020-56	5680 073-04	
A415-25EH25-05M	5513 020-28	5680 073-02	
A415-25EH25-07M	5513 020-56	5680 073-04	
A415-32EH25-05M	5513 020-28	5680 073-02	
A415-32EH25-07M	5513 020-56	5680 073-04	

CoroMill® 415 face milling cutter**Threaded coupling****Metric version**

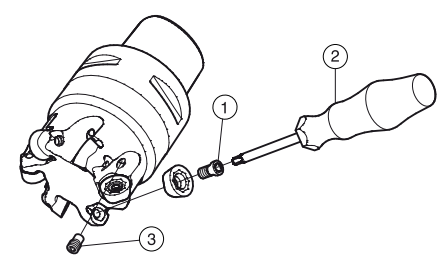
	Spare parts	Included parts	
	1	2	
Ordering code	Insert screw	Key	
415-13T08-05H	5513 020-28	5680 073-02	
415-16T08-05H	5513 020-28	5680 073-02	
415-20T10-05H	5513 020-28	5680 073-02	
415-25T12-05H	5513 020-28	5680 073-02	
415-25T12-07H	5513 020-56	5680 073-04	
415-32T16-07H	5513 020-56	5680 073-04	

Inch version

	Spare parts	Included parts	
	1	2	
Ordering code	Insert screw	Key	
A415-13T08-05H	5513 020-28	5680 073-02	
A415-16T08-05H	5513 020-28	5680 073-02	
A415-19T10-05H	5513 020-28	5680 073-02	
A415-25T12-05H	5513 020-28	5680 073-02	
A415-25T12-07H	5513 020-56	5680 073-04	
A415-32T16-07H	5513 020-56	5680 073-04	

CoroMill® 600 face milling cutter

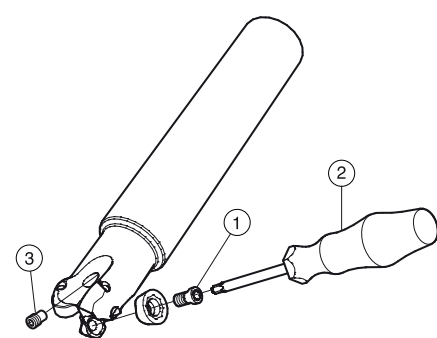
Coromant Capto®



Metric version

	Spare parts	Included parts	Accessories	
	1	2	3	
Ordering code	Insert screw	Screwdriver	Nozzle	
600-042C4-10H	5513 020-75	5680 048-01	*	
600-050C5-12HX	5513 020-59	5680 048-01	*	
600-052C5-10H	5513 020-75	5680 048-01	*	
600-052C5-12HX	5513 020-59	5680 048-01	*	
600-063C6-12H	5513 020-59	5680 048-01	*	

Cylindrical shank



Inch version

	Spare parts	Included parts	Accessories	
	1	2	3	
Ordering code	Insert screw	Screwdriver	Nozzle	
A600-025O25-10H	5513 020-75	5680 046-02	*	
A600-032O32-10H	5513 020-75	5680 046-02	*	
A600-038O32-10H	5513 020-75	5680 046-02	*	
A600-038O32-12H	5513 020-59	5680 046-02	*	

Coolant nozzle

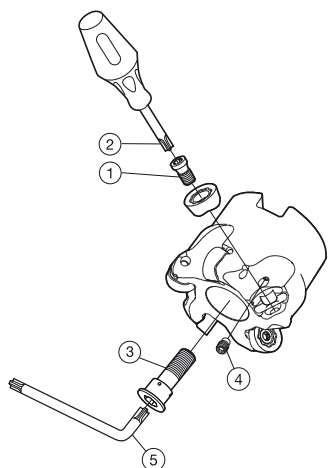
*	Ø0,6	5691 026-11
	Ø0,8	5691 026-12
	Ø1,0	5691 026-13
	Ø1,2	5691 026-14
	Ø1,4	5691 026-15

Accessories, must be ordered separately

CoroMill® 600 face milling cutter

Arbor

B



C

Metric version

D

	Spare parts	Included parts	Accessories			
	1	2	3	4	5	
Ordering code	Insert screw	Screwdriver	Coolant screw	Nozzle	Key	
600-050Q22-12HX	5513 020-59	5680 048-01	5512 073-01	*	3021 010-080	
600-052Q22-12HX	5513 020-59	5680 048-01	5512 073-01	*	3021 010-080	
600-066Q27-12H	5513 020-59	5680 048-01	5512 073-02	*	3021 010-100	
600-066Q27-12M	5513 020-59	5680 048-01	5512 073-02	*	3021 010-100	
600-080Q27-12H	5513 020-59	5680 048-01	5512 073-02	*	3021 010-100	
600-100Q32-12H	5513 020-59	5680 048-01	5512 098-04	*		

E

Inch version

	Spare parts	Included parts	Accessories			
	1	2	3	4	5	
Ordering code	Insert screw	Screwdriver	Coolant screw	Nozzle	Key	
A600-051R19-10H	5513 020-75	5680 048-01	5512 074-01	*	3021 011-516	
A600-051R19-12H	5513 020-59	5680 048-01	5512 074-01	*	3021 011-516	
A600-051R19-12HX	5513 020-59	5680 048-01	5512 074-01	*	3021 011-516	
A600-051R19-12M	5513 020-59	5680 048-01	5512 074-01	*	3021 011-516	
A600-063R19-12H	5513 020-59	5680 048-01	5512 074-01	*	3021 011-516	
A600-063R19-12M	5513 020-59	5680 048-01	5512 074-01	*	3021 011-516	

F

Coolant nozzle

*	Ø0,6	5691 026-11
	Ø0,8	5691 026-12
	Ø1,0	5691 026-13
	Ø1,2	5691 026-14
	Ø1,4	5691 026-15

Accessories, must be ordered separately

G

H

Cutting feed recommendations

CoroMill® 600

Geometry	ISO M			ISO S		
	Feed per tooth, f_z mm (inch)			Feed per tooth, f_z mm (inch)		
	min.	rec.	max.	min.	rec.	max.
600-1045E-ML	0.05 (.002)	0.20 (.008)	0.35 (.014)	0.05 (.002)	0.16 (.006)	0.20 (.008)
600-1045M-ML	0.05 (.002)	0.20 (.008)	0.35 (.014)	0.07 (.003)	0.18 (.007)	0.30 (.012)
600-1252E-ML	0.05 (.002)	0.25 (.010)	0.35 (.014)	0.05 (.002)	0.16 (.006)	0.24 (.009)
600-1252M-ML	0.05 (.002)	0.25 (.010)	0.35 (.014)	0.07 (.003)	0.18 (.007)	0.30 (.012)

CoroMill® 745

Geometry	ISO P			ISO M		
	Feed per tooth, f_z mm (inch)			Feed per tooth, f_z mm (inch)		
	min.	rec.	max.	min.	rec.	max.
745R-2109E-M30	0.11 (.004)	0.21 (.008)	0.32 (.013)			
745R-2109E-M31	0.16 (.006)	0.22 (.009)	0.32 (.013)	0.16 (.006)	0.22 (.009)	0.32 (.013)
745R-2109E-M50	0.19 (.007)	0.27 (.011)	0.43 (.017)			
745L-2109E-M50						
745R-2109E-H50	0.17 (.007)	0.32 (.013)	0.48 (.019)			

Geometry	ISO K		
	Feed per tooth, f_z mm (inch)		
	min.	rec.	max.
745R-2109E-M30	0.11 (.004)	0.21 (.008)	0.32 (.013)
745R-2109E-M31	0.16 (.006)	0.19 (.007)	0.32 (.013)
745R-2109E-M50	0.19 (.007)	0.27 (.011)	0.43 (.017)
745L-2109E-M50	0.13 (.005)	0.27 (.011)	0.43 (.017)
745R-2109E-H50	0.17 (.007)	0.32 (.013)	0.48 (.019)



BoringE

Rough boring

CoroBore® BR10 back-boring rough boring tool	E2
CoroBore® BR20 twin-edge rough boring tool	E4
CoroBore® BR20 twin-edge damped rough boring tool	E7
CoroBore® BR30 three-edge rough boring tool	E8
CoroBore® 820 XL rough boring tool	E13
CoroBore® 820 XL damped rough boring tool	E15
CoroBore® 111 inserts for rough boring	E16
Indexable boring cartridge	E17

Spare partsE20

Cutting dataE31

A

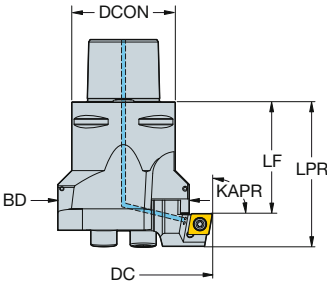
Boring Rough boring

CoroBore® BR10 rough boring tool for back-boring

Internal coolant supply

B

KAPR 90°



C

D

						Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{FDL}	LF	LPR	BD ₁				CICT	MIID	
44.00	54.00	06	1/4	C3	3	BR10-54CC06F-C3	32.00	5.00	35.00	45.00	30.00	70	0.9	0.560	1	CCMT 06 02 04	
1.732	2.126						1.260	.197	1.378	1.772	1.181	1015					
53.00	65.00	06	1/4	C4	3	BR10-65CC06F-C4	40.00	6.00	43.00	53.00	39.00	70	0.9	0.560	1	CCMT 06 02 04	
2.087	2.559						1.575	.236	1.693	2.087	1.535	1015					
64.00	76.00	09	3/8	C4	3	BR10-76CC09F-C4	40.00	6.00	43.00	58.00	39.00	70	3.0	0.560	1	CCMT 09 T3 08	
2.520	2.992						1.575	.236	1.693	2.283	1.535	1015					
75.00	91.00	12	1/2	C5	3	BR10-91CC12F-C5	50.00	8.00	48.00	68.00	50.00	70	3.0	0.860	1	CCMT 12 04 08	
2.953	3.583						1.969	.315	1.890	2.677	1.969	1015					
90.00	110.00	12	1/2	C5	3	BR10-110CC12F-C5	50.00	10.00	50.00	70.00	63.00	70	3.0	1.230	1	CCMT 12 04 08	
3.543	4.331						1.969	.394	1.969	2.756	2.480	1015					
109.00	136.00	12	1/2	C6	3	BR10-136CC12F-C6	63.00	13.50	68.00	88.00	82.00	70	3.0	2.080	1	CCMT 12 04 08	
4.291	5.354						2.480	.531	2.677	3.465	3.228	1015					
135.00	170.00	12	1/2	C6	3	BR10-170CC12F-C6	63.00	17.50	78.00	98.00	108.00	70	3.0	2.380	1	CCMT 12 04 08	
5.315	6.693						2.480	.689	3.071	3.858	4.252	1015					

F

G

H

 H3

 H10

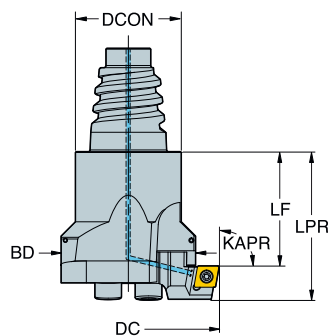
 E20

CoroBore® BR10 rough boring tool for back-boring

Internal coolant supply

KAPR

90°



							Dimensions, mm, inch										
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCN	ADJLX _{ADL}	LF	LPR	BD ₁	CP BarPSI			CICT	MIID	
32.00 1.260	38.00 1.496	06	1/4	E20	1	BR10-38CC06F-EH20	19.30 .760	3.00 .118	15.00 .591	25.00 .984	20.00 .787	70 1015	0.9	0.070	1	CCMT 06 02 04	
37.00 1.457	45.00 1.772	06	1/4	E25	1	BR10-45CC06F-EH25	24.20 .953	4.00 .157	14.00 .551	24.00 .945	24.00 .945	70 1015	0.9	0.110	1	CCMT 06 02 04	



H3



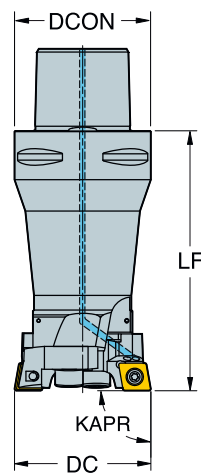
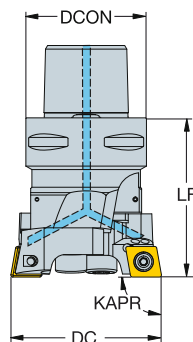
H10



E21

CoroBore® BR20 twin-edge rough boring tool

Internal coolant supply

KAPR
DSGN90°
190°
2

								Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	DSGN	Ordering code	DCON	ADJLX _{ADL}	ULDR	LF	BD ₁	CP BarPSI			CICT	MIID		
23.00 .906	29.00 1.142	06	1/4	C3	3	2	BR20-29CC06F-C3	32.00 1.260	3.00 .118	2.00	76.00 2.992	20.00 .787	70 1015	0.9	0.260	2	CCMT 06 02 04		
28.00 1.102	36.00 1.417	06	1/4	C3	3	2	BR20-36CC06F-C3	32.00 1.260	4.00 .157	2.00	83.00 3.268	24.00 .945	70 1015	0.9	0.360	2	CCMT 06 02 04		
35.00 1.378	45.00 1.772	09	3/8	C3	3	1	BR20-45CC09F-C3	32.00 1.260	5.00 .197		48.00 1.890		70 1015	3.0	0.270	2	CCMT 09 T3 08		
35.00 1.378	45.00 1.772	09	3/8	C4	3	2	BR20-45CC09F-C4	40.00 1.575	5.00 .197	1.50	83.00 3.268	30.00 1.181	70 1015	3.0	0.560	2	CCMT 09 T3 08		
44.00 1.732	56.00 2.205	09	3/8	C4	3	1	BR20-56CC09F-C4	40.00 1.575	6.00 .236		56.00 2.205		70 1015	3.0	0.480	2	CCMT 09 T3 08		
44.00 1.732	56.00 2.205	09	3/8	C5	3	2	BR20-56CC09F-C5	50.00 1.969	6.00 .236	1.50	98.00 3.858	39.00 1.535	70 1015	3.0	1.030	2	CCMT 09 T3 08		
55.00 2.165	71.00 2.795	12	1/2	C5	3	1	BR20-71CC12F-C5	50.00 1.969	8.00 .315		66.00 2.598		70 1015	3.0	0.860	2	CCMT 12 04 08		
55.00 2.165	71.00 2.795	12	1/2	C6	3	2	BR20-71CC12F-C6	63.00 2.480	8.00 .315	1.50	120.00 4.724	50.00 1.969	70 1015	3.0	1.940	2	CCMT 12 04 08		
70.00 2.756	90.00 3.543	12	1/2	C5	3	1	BR20-90CC12F-C5	50.00 1.969	10.00 .394		70.00 2.756		70 1015	3.0	1.230	2	CCMT 12 04 08		
70.00 2.756	90.00 3.543	12	1/2	C6	3	1	BR20-90CC12F-C6	63.00 2.480	10.00 .394		78.00 3.071		70 1015	3.0	1.580	2	CCMT 12 04 08		
89.00 3.504	116.00 4.567	12	1/2	C6	3	1	BR20-116CC12F-C6	63.00 2.480	13.50 .531		90.00 3.543		70 1015	3.0	2.080	2	CCMT 12 04 08		
89.00 3.504	116.00 4.567	12	1/2	C8	3	1	BR20-116CC12F-C8	80.00 3.150	13.50 .531		94.00 3.701		70 1015	3.0	2.990	2	CCMT 12 04 08		
115.00 4.528	150.00 5.906	12	1/2	C6	3	1	BR20-150CC12F-C6	63.00 2.480	17.50 .689		90.00 3.543		70 1015	3.0	2.380	2	CCMT 12 04 08		
115.00 4.528	150.00 5.906	12	1/2	C8	3	1	BR20-150CC12F-C8	80.00 3.150	17.50 .689		100.00 3.937		70 1015	3.0	3.630	2	CCMT 12 04 08		



H3



H10



E22

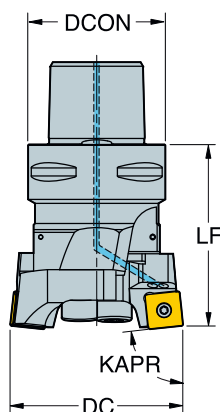
CoroBore® BR20 twin-edge rough boring tool

Internal coolant supply

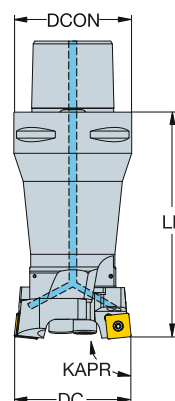


KAPR
DSGN

84°
1



84°
2



										Dimensions, mm, inch							
DCN	DCX			CZC _{MS}	CNSC	DSGN	Ordering code	DCON	ADJLX _{RDL}	ULDR	LF	BD ₁	CP BarPSI			CICT	MIID
23.00 .906	29.00 1.142	06	06	C3	3	2	BR20-29SP06Y-C3	32.00 1.260	3.00 .118	2.00	76.00 2.992	20.00 .787	70 1015	0.8	0.260	2	SPMT 0606-BM
28.00 1.102	36.00 1.417	06	06	C3	3	2	BR20-36SP06Y-C3	32.00 1.260	4.00 .157	2.00	83.00 3.268	24.00 .945	70 1015	0.8	0.360	2	SPMT 0606-BM
35.00 1.378	45.00 1.772	08	08	C3	3	1	BR20-45SP08Y-C3	32.00 1.260	5.00 .197		48.00 1.890		70 1015	1.7	0.270	2	SPMT 0808-BM
35.00 1.378	45.00 1.772	08	08	C4	3	2	BR20-45SP08Y-C4	40.00 1.575	5.00 .197	1.50	83.00 3.268	30.00 1.181	70 1015	1.7	0.560	2	SPMT 0808-BM
44.00 1.732	56.00 2.205	08	08	C4	3	1	BR20-56SP08Y-C4	40.00 1.575	6.00 .236		56.00 2.205		70 1015	1.7	0.480	2	SPMT 0808-BM
44.00 1.732	56.00 2.205	08	08	C5	3	2	BR20-56SP08Y-C5	50.00 1.969	6.00 .236	1.50	98.00 3.858	39.00 1.535	70 1015	1.7	1.030	2	SPMT 0808-BM
55.00 2.165	71.00 2.795	12	12	C5	3	1	BR20-71SP12Y-C5	50.00 1.969	8.00 .315		66.00 2.598		70 1015	2.0	0.860	2	SPMT 1210-BM
55.00 2.165	71.00 2.795	12	12	C6	3	2	BR20-71SP12Y-C6	63.00 2.480	8.00 .315	1.50	120.00 4.724	50.00 1.969	70 1015	2.0	1.940	2	SPMT 1210-BM
70.00 2.756	90.00 3.543	12	12	C5	3	1	BR20-90SP12Y-C5	50.00 1.969	10.00 .394		70.00 2.756		70 1015	2.0	1.230	2	SPMT 1210-BM
70.00 2.756	90.00 3.543	12	12	C6	3	1	BR20-90SP12Y-C6	63.00 2.480	10.00 .394		78.00 3.071		70 1015	2.0	1.580	2	SPMT 1210-BM
89.00 3.504	116.00 4.567	12	12	C6	3	1	BR20-116SP12Y-C6	63.00 2.480	13.50 .531		90.00 3.543		70 1015	2.0	2.080	2	SPMT 1210-BM
89.00 3.504	116.00 4.567	12	12	C8	3	1	BR20-116SP12Y-C8	80.00 3.150	13.50 .531		94.00 3.701		70 1015	2.0	2.990	2	SPMT 1210-BM
115.00 4.528	150.00 5.906	12	12	C6	3	1	BR20-150SP12Y-C6	63.00 2.480	17.50 .689		90.00 3.543		70 1015	2.0	2.380	2	SPMT 1210-BM
115.00 4.528	150.00 5.906	12	12	C8	3	1	BR20-150SP12Y-C8	80.00 3.150	17.50 .689		100.00 3.937		70 1015	2.0	3.630	2	SPMT 1210-BM



E16



H3



H10



E23

A

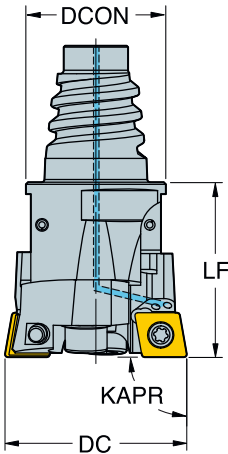
Boring Rough boring

CoroBore® BR20 twin-edge rough boring tool

Internal coolant supply

B

KAPR 90°



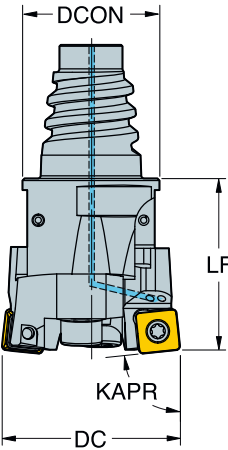
C

D

							Dimensions, mm, inch								
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCN	ADJLX _{FDL}	LF	CP BarPSI			C/CT	MIID	
23.00 .906	29.00 1.142	06	1/4	E20	1	BR20-29CC06F-EH20	19.30 .760	3.00 .118	25.00 .984	70 1015	0.9	0.070	2	CCMT 06 02 04	
28.00 1.102	36.00 1.417	06	1/4	E25	1	BR20-36CC06F-EH25	24.20 .953	4.00 .157	25.00 .984	70 1015	0.9	0.110	2	CCMT 06 02 04	

E

KAPR 84°



F

G

							Dimensions, mm, inch								
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCN	ADJLX _{FDL}	LF	CP BarPSI			C/CT	MIID	
23.00 .906	29.00 1.142	06	06	E20	1	BR20-29SP06Y-EH20	19.30 .760	3.00 .118	25.00 .984	70 1015	0.8	0.070	2	SPMT 0606-BM	
28.00 1.102	36.00 1.417	06	06	E25	1	BR20-36SP06Y-EH25	24.20 .953	4.00 .157	25.00 .984	70 1015	0.8	0.110	2	SPMT 0606-BM	

H

 H3

 H10

 E24

CoroBore® BR20 twin-edge damped rough boring tool

Internal coolant supply

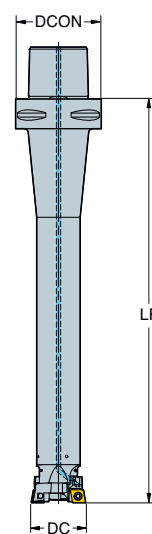
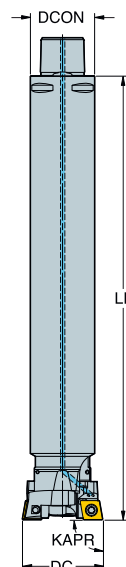


● ● ● SilentTools®

KAPR
DSGN

90°
1

90°
2



								Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	DSGN	Ordering code	DCON	ADJLX _{AVL}	ADJLX _{FDL}	ULDR	LF	BD ₁	CP BarPSI			CICT	MIID	
23.00	29.00	06	1/4	C4	3	2	BR20D-29CC06F-C4L	40.00	1.50	3.00	6.00	199.00	20.00	70	0.9	0.740	2	CCMT 06 02 04	
.906	1.142							1.575	.059	.118		7.835	.787	1015					
28.00	36.00	06	1/4	C3	3	2	BR20D-36CC06F-C3L	32.00	1.50	4.00	6.00	216.00	25.00	70	0.9	1.030	2	CCMT 06 02 04	
1.102	1.417							1.260	.059	.157		8.504	.984	1015					
35.00	45.00	09	3/8	C3	3	1	BR20D-45CC09F-C3L	32.00	1.50	5.00		221.00		70	3.0	1.540	2	CCMT 09 T3 08	
1.378	1.772							1.260	.059	.197		8.701		1015					
35.00	45.00	09	3/8	C4	3	2	BR20D-45CC09F-C4L	40.00	1.50	5.00	6.00	270.00	32.00	70	3.0	1.980	2	CCMT 09 T3 08	
1.378	1.772							1.575	.059	.197		10.630	1.260	1015					
35.00	45.00	09	3/8	C6	3	2	BR20D-45CC09F-C6L	63.00	1.50	5.00	6.00	297.00	32.00	70	3.0	2.620	2	CCMT 09 T3 08	
1.378	1.772							2.480	.059	.197		11.693	1.260	1015					
44.00	56.00	09	3/8	C4	3	1	BR20D-56CC09F-C4L	40.00	1.50	6.00		220.00		70	3.0	2.380	2	CCMT 09 T3 08	
1.732	2.205							1.575	.059	.236		8.661		1015					
44.00	56.00	09	3/8	C5	3	2	BR20D-56CC09F-C5L	50.00	1.50	6.00	6.00	336.00	40.00	70	3.0	3.720	2	CCMT 09 T3 08	
1.732	2.205							1.969	.059	.236		13.228	1.575	1015					
44.00	56.00	09	3/8	C6	3	2	BR20D-56CC09F-C6L	63.00	1.50	6.00	6.00	363.00	40.00	70	3.0	4.350	2	CCMT 09 T3 08	
1.732	2.205							2.480	.059	.236		14.291	1.575	1015					
55.00	71.00	12	1/2	C5	3	1	BR20D-71CC12F-C5M	50.00	1.50	8.00		300.00		70	3.0	5.080	2	CCMT 12 04 08	
2.165	2.795							1.969	.059	.315		11.811		1015					
55.00	71.00	12	1/2	C6	3	2	BR20D-71CC12F-C6M	63.00	1.50	8.00	5.60	400.00	50.00	70	3.0	6.940	2	CCMT 12 04 08	
2.165	2.795							2.480	.059	.315		15.748	1.969	1015					
70.00	90.00	12	1/2	C6	3	1	BR20D-90CC12F-C6M	63.00	1.50	10.00		400.00		70	3.0	9.910	2	CCMT 12 04 08	
2.756	3.543							2.480	.059	.394		15.748		1015					
70.00	90.00	12	1/2	C8	3	2	BR20D-90CC12F-C8M	80.00	1.50	10.00	5.60	500.00	70.00	70	3.0	12.660	2	CCMT 12 04 08	
2.756	3.543							3.150	.059	.394		19.685	2.756	1015					
89.00	116.00	12	1/2	C8	3	1	BR20D-116CC12F-C8M	80.00	1.50	13.50		500.00		70	3.0	18.490	2	CCMT 12 04 08	
3.504	4.567							3.150	.059	.531		19.685		1015					
89.00	116.00	12	1/2	C8	3	1	BR20D-116CC12F-C8S	80.00	1.50	13.50		410.00		70	3.0	12.820	2	CCMT 12 04 08	
3.504	4.567							3.150	.059	.531		16.142		1015					
115.00	150.00	12	1/2	C8	3	1	BR20D-150CC12F-C8M	80.00	1.50	17.50		500.00		70	3.0	18.620	2	CCMT 12 04 08	
4.528	5.906							3.150	.059	.689		19.685		1015					



H3



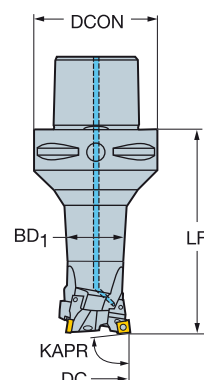
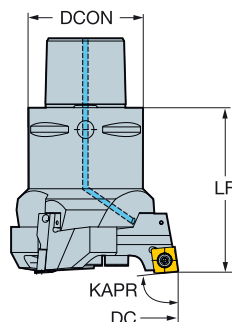
H10



E25

CoroBore® BR30 three-edge rough boring tool

Internal coolant supply

KAPR
DSGN90°
190°
2

								Dimensions, mm, inch									
DCN	DCX			CZC _{MS}	CNSC	DSGN	Ordering code	DCON	ADJLX _{RDL}	ULDR	LF	BD ₁				CICT	MIID
35.00	40.50	06	1/4	C3	3	1	BR30-41CC06F-C3	32.00	2.75		48.00	20	0.9	0.250	3	CCMT 06 02 04	
1.378	1.594							1.260	.108		1.890	290					
35.00	40.50	06	1/4	C4	3	2	BR30-41CC06F-C4	40.00	2.75	1.50	83.00	31.50	20	0.9	0.640	3	CCMT 06 02 04
1.378	1.594							1.575	.108		3.268	1.240	290				
39.50	45.00	06	1/4	C3	3	1	BR30-45CC06F-C3	32.00	2.75		48.00	20	0.9	0.280	3	CCMT 06 02 04	
1.555	1.772							1.260	.108		1.890	290					
39.50	45.00	06	1/4	C4	3	2	BR30-45CC06F-C4	40.00	2.75	1.50	83.00	31.50	20	0.9	0.670	3	CCMT 06 02 04
1.555	1.772							1.575	.108		3.268	1.240	290				
44.00	50.50	06	1/4	C4	3	1	BR30-51CC06F-C4	40.00	3.25		56.00	20	0.9	0.620	3	CCMT 06 02 04	
1.732	1.988							1.575	.128		2.205	290					
44.00	50.50	06	1/4	C5	3	2	BR30-51CC06F-C5	50.00	3.25	1.50	98.00	39.60	20	0.9	1.180	3	CCMT 06 02 04
1.732	1.988							1.969	.128		3.858	1.559	290				
49.50	56.00	06	1/4	C4	3	1	BR30-56CC06F-C4	40.00	3.25		56.00	20	0.9	0.650	3	CCMT 06 02 04	
1.949	2.205							1.575	.128		2.205	290					
49.50	56.00	09	3/8	C4	3	1	BR30-56CC09F-C4	40.00	3.25		58.00	20	3.0	0.680	3	CCMT 09 T3 08	
1.949	2.205							1.575	.128		2.283	290					
49.50	56.00	06	1/4	C5	3	2	BR30-56CC06F-C5	50.00	3.25	1.50	98.00	39.60	20	0.9	1.210	3	CCMT 06 02 04
1.949	2.205							1.969	.128		3.858	1.559	290				
49.50	56.00	09	3/8	C5	3	2	BR30-56CC09F-C5	50.00	3.25	1.50	100.00	39.60	20	3.0	1.240	3	CCMT 09 T3 08
1.949	2.205							1.969	.128		3.937	1.559	290				
55.00	63.00	09	3/8	C5	3	1	BR30-63CC09F-C5	50.00	4.00		66.00	20	3.0	0.890	3	CCMT 09 T3 08	
2.165	2.480							1.969	.157		2.598	290					
55.00	63.00	09	3/8	C6	3	2	BR30-63CC09F-C6	63.00	4.00	1.50	120.00	49.50	20	3.0	1.980	3	CCMT 09 T3 08
2.165	2.480							2.480	.157		4.724	1.949	290				
62.00	70.00	09	3/8	C5	3	1	BR30-70CC09F-C5	50.00	4.00		66.00	20	3.0	0.920	3	CCMT 09 T3 08	
2.441	2.756							1.969	.157		2.598	290					
62.00	70.00	12	1/2	C5	3	1	BR30-70CC12F-C5	50.00	4.00		68.00	20	3.0	0.980	3	CCMT 12 04 08	
2.441	2.756							1.969	.157		2.677	290					
62.00	70.00	09	3/8	C6	3	2	BR30-70CC09F-C6	63.00	4.00	1.50	120.00	49.50	20	3.0	2.040	3	CCMT 09 T3 08
2.441	2.756							2.480	.157		4.724	1.949	290				
62.00	70.00	12	1/2	C6	3	2	BR30-70CC12F-C6	63.00	4.00	1.50	122.00	49.50	20	3.0	2.070	3	CCMT 12 04 08
2.441	2.756							2.480	.157		4.803	1.949	290				



H3



H10



E26

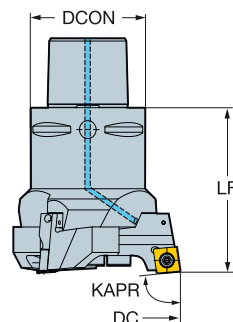
CoroBore® BR30 three-edge rough boring tool

Internal coolant supply

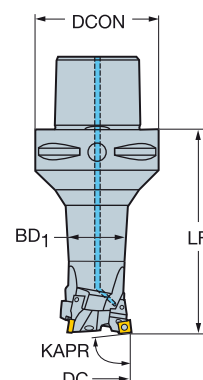


KAPR
DSGN

90°
1



90°
2



								Dimensions, mm, inch									
DCN	DCX			CZC _{MS}	CNSC	DSGN	Ordering code	DCON	ADJL _{RDL}	ULDR	LF	BD ₁				CICT	MIID
69.00	78.50	12	1/2	C5	3	1	BR30-79CC12F-C5	50.00	4.75		70.00	20	3.0	1.180	3	CCMT 12 04 08	
2.717	3.091							1.969	.187		2.756	290					
69.00	78.50	12	1/2	C6	3	1	BR30-79CC12F-C6	63.00	4.75		78.00	20	3.0	2.130	3	CCMT 12 04 08	
2.717	3.091							2.480	.187		3.071	290					
77.50	87.00	12	1/2	C5	3	1	BR30-87CC12F-C5	50.00	4.75		70.00	20	3.0	1.210	3	CCMT 12 04 08	
3.051	3.425							1.969	.187		2.756	290					
77.50	87.00	12	1/2	C6	3	1	BR30-87CC12F-C6	63.00	4.75		78.00	20	3.0	2.160	3	CCMT 12 04 08	
3.051	3.425							2.480	.187		3.071	290					
86.00	97.00	12	1/2	C6	3	1	BR30-97CC12F-C6	63.00	5.50		90.00	20	3.0	2.280	3	CCMT 12 04 08	
3.386	3.819							2.480	.217		3.543	290					
86.00	97.00	12	1/2	C8	3	1	BR30-97CC12F-C8	80.00	5.50		94.00	20	3.0	3.300	3	CCMT 12 04 08	
3.386	3.819							3.150	.217		3.701	290					
96.00	107.00	12	1/2	C6	3	1	BR30-107CC12F-C6	63.00	5.50		90.00	20	3.0	2.340	3	CCMT 12 04 08	
3.780	4.213							2.480	.217		3.543	290					
96.00	107.00	12	1/2	C8	3	1	BR30-107CC12F-C8	80.00	5.50		94.00	20	3.0	3.360	3	CCMT 12 04 08	
3.780	4.213							3.150	.217		3.701	290					
106.00	122.00	12	1/2	C8	3	1	BR30-122CC12F-C8	80.00	8.00		100.00	20	3.0	4.100	3	CCMT 12 04 08	
4.173	4.803							3.150	.315		3.937	290					
121.00	137.00	12	1/2	C8	3	1	BR30-137CC12F-C8	80.00	8.00		100.00	20	3.0	4.250	3	CCMT 12 04 08	
4.764	5.394							3.150	.315		3.937	290					
136.00	152.00	12	1/2	C8	3	1	BR30-152CC12F-C8	80.00	8.00		100.00	20	3.0	4.760	3	CCMT 12 04 08	
5.354	5.984							3.150	.315		3.937	290					
151.00	167.00	12	1/2	C8	3	1	BR30-167CC12F-C8	80.00	8.00		100.00	20	3.0	4.880	3	CCMT 12 04 08	
5.945	6.575							3.150	.315		3.937	290					
166.00	191.00	12	1/2	C8	3	1	BR30-191CC12F-C8	80.00	12.50		115.00	20	3.0	6.860	3	CCMT 12 04 08	
6.535	7.520							3.150	.492		4.528	290					
189.00	214.00	12	1/2	C8	3	1	BR30-214CC12F-C8	80.00	12.50		115.00	20	3.0	7.130	3	CCMT 12 04 08	
7.441	8.425							3.150	.492		4.528	290					
212.00	237.00	12	1/2	C8	3	1	BR30-237CC12F-C8	80.00	12.50		115.00	20	3.0	8.740	3	CCMT 12 04 08	
8.346	9.331							3.150	.492		4.528	290					
235.00	260.00	12	1/2	C8	3	1	BR30-260CC12F-C8	80.00	12.50		115.00	20	3.0	9.010	3	CCMT 12 04 08	
9.252	10.236							3.150	.492		4.528	290					
258.00	283.00	12	1/2	C8	3	1	BR30-283CC12F-C8	80.00	12.50		115.00	20	3.0	10.720	3	CCMT 12 04 08	
10.158	11.142							3.150	.492		4.528	290					
281.00	306.00	12	1/2	C8	3	1	BR30-306CC12F-C8	80.00	12.50		120.00	20	3.0	10.990	3	CCMT 12 04 08	
11.063	12.047							3.150	.492		4.724	290					



H3



H10



E26

A

Boring Rough boring

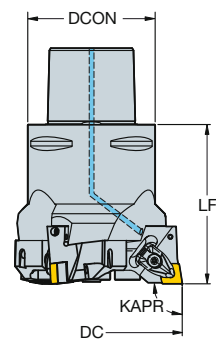
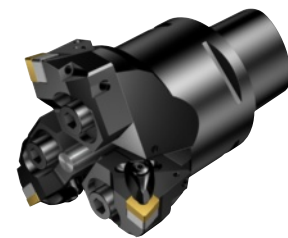
CoroBore® BR30 three-edge rough boring tool

Internal coolant supply

B

KAPR

90°



C

D

							Dimensions, mm, inch								
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{FDL}	LF	CP BarPSI			CICT	MIID	
166.00 <i>6.535</i>	191.00 <i>7.520</i>	16	5/8	C8	3	BR30-191CN16F-C8	80.00 <i>3.150</i>	12.50 <i>.492</i>	119.00 <i>4.685</i>	20 <i>290</i>	6.4	7.430	3	CNMG 16 06 12	
189.00 <i>7.441</i>	214.00 <i>8.425</i>	16	5/8	C8	3	BR30-214CN16F-C8	80.00 <i>3.150</i>	12.50 <i>.492</i>	119.00 <i>4.685</i>	20 <i>290</i>	6.4	7.730	3	CNMG 16 06 12	
212.00 <i>8.346</i>	237.00 <i>9.331</i>	16	5/8	C8	3	BR30-237CN16F-C8	80.00 <i>3.150</i>	12.50 <i>.492</i>	119.00 <i>4.685</i>	20 <i>290</i>	6.4	9.340	3	CNMG 16 06 12	
235.00 <i>9.252</i>	260.00 <i>10.236</i>	16	5/8	C8	3	BR30-260CN16F-C8	80.00 <i>3.150</i>	12.50 <i>.492</i>	119.00 <i>4.685</i>	20 <i>290</i>	6.4	9.640	3	CNMG 16 06 12	
258.00 <i>10.158</i>	283.00 <i>11.142</i>	16	5/8	C8	3	BR30-283CN16F-C8	80.00 <i>3.150</i>	12.50 <i>.492</i>	119.00 <i>4.685</i>	20 <i>290</i>	6.4	11.320	3	CNMG 16 06 12	
281.00 <i>11.063</i>	306.00 <i>12.047</i>	16	5/8	C8	3	BR30-306CN16F-C8	80.00 <i>3.150</i>	12.50 <i>.492</i>	124.00 <i>4.882</i>	20 <i>290</i>	6.4	11.620	3	CNMG 16 06 12	

E

F

G

H

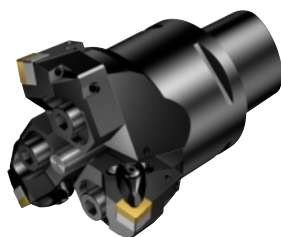
H3

H10

E27

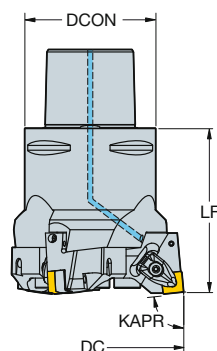
CoroBore® BR30 three-edge rough boring tool

Internal coolant supply



KAPR

84°



						Dimensions, mm, inch									
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCN	ADJL _{ADL}	LF	CP Bar/PSI			CICT	MIID	
106.00 4.173	122.00 4.803	12	12	C8	3	BR30-122SN12Y-C8	80.00 3.150	8.00 .315	100.00 3.937	20 290	3.9	4.190	3	SPMT 1210-BM	
121.00 4.764	137.00 5.394	12	1/2	C8	3	BR30-137SN12Y-C8	80.00 3.150	8.00 .315	100.00 3.937	20 290	3.9	4.340	3	SNMG 12 04 08	
136.00 5.354	152.00 5.984	12	1/2	C8	3	BR30-152SN12Y-C8	80.00 3.150	8.00 .315	100.00 3.937	20 290	3.9	4.820	3	SNMG 12 04 08	
151.00 5.945	167.00 6.575	12	1/2	C8	3	BR30-167SN12Y-C8	80.00 3.150	8.00 .315	100.00 3.937	20 290	3.9	4.970	3	SNMG 12 04 08	
166.00 6.535	191.00 7.520	15	5/8	C8	3	BR30-191SN15Y-C8	80.00 3.150	12.50 .492	119.00 4.685	20 290	6.4	7.480	3	SNMG 15 06 12	
189.00 7.441	214.00 8.425	15	5/8	C8	3	BR30-214SN15Y-C8	80.00 3.150	12.50 .492	119.00 4.685	20 290	6.4	7.790	3	SNMG 15 06 12	
212.00 8.346	237.00 9.331	15	5/8	C8	3	BR30-237SN15Y-C8	80.00 3.150	12.50 .492	119.00 4.685	20 290	6.4	9.400	3	SNMG 15 06 12	
235.00 9.252	260.00 10.236	15	5/8	C8	3	BR30-260SN15Y-C8	80.00 3.150	12.50 .492	119.00 4.685	20 290	6.4	9.700	3	SNMG 15 06 12	
258.00 10.158	283.00 11.142	15	5/8	C8	3	BR30-283SN15Y-C8	80.00 3.150	12.50 .492	119.00 4.685	20 290	6.4	11.380	3	SNMG 15 06 12	
281.00 11.063	306.00 12.047	15	5/8	C8	3	BR30-306SN15Y-C8	80.00 3.150	12.50 .492	124.00 4.882	20 290	6.4	11.680	3	SNMG 15 06 12	



E16



H3



H10



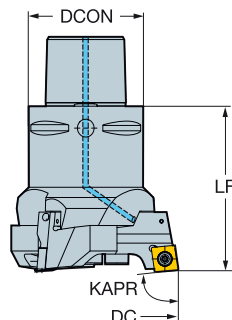
E27

CoroBore® BR30 three-edge rough boring tool

Internal coolant supply

KAPR

84°



						Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{RDL}	LF				CICT	MIID			
35.00	40.50	06	06	C3	3	BR30-41SP06Y-C3	32.00	2.75	48.00	20	0.8	0.250	3	SPMT 0606-BM			
1.378	1.594						1.260	.108	1.890	290							
39.50	45.00	06	06	C3	3	BR30-45SP06Y-C3	32.00	2.75	48.00	20	0.8	0.280	3	SPMT 0606-BM			
1.555	1.772						1.260	.108	1.890	290							
44.00	50.50	06	06	C4	3	BR30-51SP06Y-C4	40.00	3.25	56.00	20	0.8	0.620	3	SPMT 0606-BM			
1.732	1.988						1.575	.128	2.205	290							
49.50	56.00	08	08	C4	3	BR30-56SP08Y-C4	40.00	3.25	58.00	20	1.7	0.680	3	SPMT 0808-BM			
1.949	2.205						1.575	.128	2.283	290							
55.00	63.00	08	08	C5	3	BR30-63SP08Y-C5	50.00	4.00	66.00	20	1.7	0.890	3	SPMT 0808-BM			
2.165	2.480						1.969	.157	2.598	290							
62.00	70.00	12	12	C5	3	BR30-70SP12Y-C5	50.00	4.00	68.00	20	2.0	0.980	3	SPMT 1210-BM			
2.441	2.756						1.969	.157	2.677	290							
69.00	78.50	12	12	C6	3	BR30-79SP12Y-C6	63.00	4.75	78.00	20	2.0	2.160	3	SPMT 1210-BM			
2.717	3.091						2.480	.187	3.071	290							
77.50	87.00	12	12	C6	3	BR30-87SP12Y-C6	63.00	4.75	78.00	20	2.0	2.190	3	SPMT 1210-BM			
3.051	3.425						2.480	.187	3.071	290							
86.00	97.00	12	12	C8	3	BR30-97SP12Y-C8	80.00	5.50	94.00	20	2.0	3.300	3	SPMT 1210-BM			
3.386	3.819						3.150	.217	3.701	290							
96.00	107.00	12	12	C8	3	BR30-107SP12Y-C8	80.00	5.50	94.00	20	2.0	3.360	3	SPMT 1210-BM			
3.780	4.213						3.150	.217	3.701	290							
106.00	122.00	12	12	C8	3	BR30-122SP12Y-C8	80.00	8.00	100.00	20	2.0	4.100	3	SPMT 1210-BM			
4.173	4.803						3.150	.315	3.937	290							
121.00	137.00	12	12	C8	3	BR30-137SP12Y-C8	80.00	8.00	100.00	20	2.0	4.250	3	SPMT 1210-BM			
4.764	5.394						3.150	.315	3.937	290							
136.00	152.00	12	12	C8	3	BR30-152SP12Y-C8	80.00	8.00	100.00	20	2.0	4.760	3	SPMT 1210-BM			
5.354	5.984						3.150	.315	3.937	290							
151.00	167.00	12	12	C8	3	BR30-167SP12Y-C8	80.00	8.00	100.00	20	2.0	4.880	3	SPMT 1210-BM			
5.945	6.575						3.150	.315	3.937	290							
166.00	191.00	12	12	C8	3	BR30-191SP12Y-C8	80.00	12.50	115.00	20	2.0	6.860	3	SPMT 1210-BM			
6.535	7.520						3.150	.492	4.528	290							
189.00	214.00	12	12	C8	3	BR30-214SP12Y-C8	80.00	12.50	115.00	20	2.0	7.130	3	SPMT 1210-BM			
7.441	8.425						3.150	.492	4.528	290							
212.00	237.00	12	12	C8	3	BR30-237SP12Y-C8	80.00	12.50	115.00	20	2.0	8.740	3	SPMT 1210-BM			
8.346	9.331						3.150	.492	4.528	290							
235.00	260.00	12	12	C8	3	BR30-260SP12Y-C8	80.00	12.50	115.00	20	2.0	9.010	3	SPMT 1210-BM			
9.252	10.236						3.150	.492	4.528	290							
258.00	283.00	12	12	C8	3	BR30-283SP12Y-C8	80.00	12.50	115.00	20	2.0	10.720	3	SPMT 1210-BM			
10.158	11.142						3.150	.492	4.528	290							
281.00	306.00	12	12	C8	3	BR30-306SP12Y-C8	80.00	12.50	120.00	20	3.0	10.990	3	SPMT 1210-BM			
11.063	12.047						3.150	.492	4.724	290							



E16



H3



H10



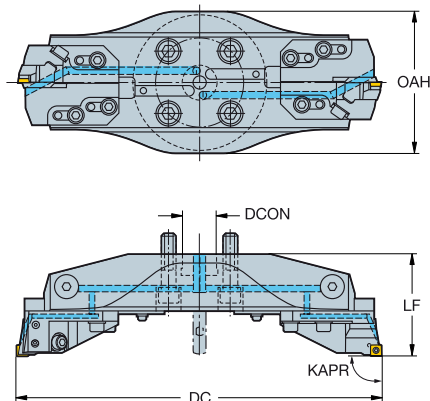
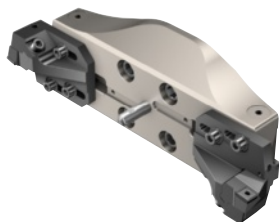
E26

CoroBore® 820 XL rough boring tool

Internal coolant supply

KAPR

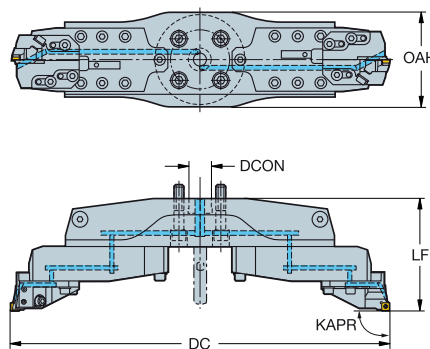
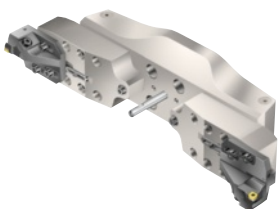
84°



						Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{AVL}	ADJLX _{RDL}	HSUP	LF	OAH	CP BarPSI			CICT	MIID
298.00	380.00	18	18	40X	1	820-380SP18Y	40.00	1.50	41.00	52.0	114.00	164.00	70	3.0	9.050	2	SPMT 1810-BM
11.732	14.961						1.575	.059	1.614	2.047	4.488	6.457	1015				
378.00	460.00	18	18	40X	1	820-460SP18Y	40.00	1.50	41.00	52.0	119.00	164.00	70	3.0	10.810	2	SPMT 1810-BM
14.882	18.110						1.575	.059	1.614	2.047	4.685	6.457	1015				
458.00	540.00	18	18	40X	1	820-540SP18Y	40.00	1.50	41.00	52.0	124.00	164.00	70	3.0	12.740	2	SPMT 1810-BM
18.032	21.260						1.575	.059	1.614	2.047	4.882	6.457	1015				

KAPR

84°



						Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{AVL}	ADJLX _{RDL}	HSUP	LF	OAH	CP BarPSI			CICT	MIID
538.00	780.00	18	18	40X	1	820-780SP18Y	40.00	1.50	121.00	112.0	198.00	164.00	70	3.0	25.190	2	SPMT 1810-BM
21.181	30.709						1.575	.059	4.764	4.409	7.795	6.457	1015				
778.00	1020.00	18	18	40X	1	820-1020SP18Y	40.00	1.50	121.00	52.0	218.00	164.00	70	3.0	36.380	2	SPMT 1810-BM
30.630	40.158						1.575	.059	4.764	2.047	8.583	6.457	1015				
1018.00	1260.00	18	18	40X	1	820-1260SP18Y	40.00	1.50	121.00	52.0	218.00	164.00	70	3.0	43.810	2	SPMT 1810-BM
40.079	49.606						1.575	.059	4.764	2.047	8.583	6.457	1015				



E16



H3



H10



E28

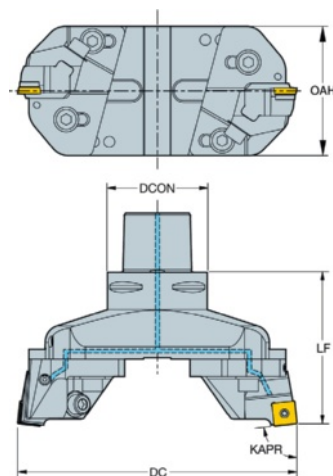
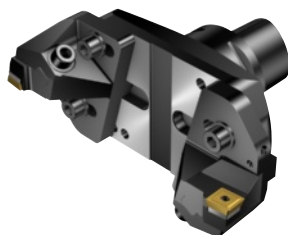
CoroBore® 820 XL rough boring tool

Internal coolant supply

B

KAPR

84°



C

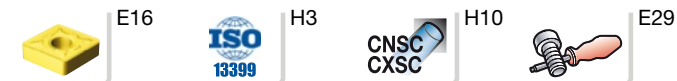
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						Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{AXL}	ADJLX _{RDL}	HSUP	LF	OAH				CICT	MIID
148.00	200.00	18	18	C8	3	820-200SP18Y-C8	80.00	1.50	26.00	52.0	122.00	104.00	70	3.0	7.030	2	SPMT 1810-BM
5.827	7.874						3.150	.059	1.024	2.047	4.803	4.094	1015				
148.00	200.00	18	18	C10	3	820-200SP18Y-C10	100.00	1.50	26.00	52.0	128.00	104.00	70	3.0	8.940	2	SPMT 1810-BM
5.827	7.874						3.937	.059	1.024	2.047	5.039	4.094	1015				
198.00	250.00	18	18	C8	3	820-250SP18Y-C8	80.00	1.50	26.00	52.0	122.00	104.00	70	3.0	8.260	2	SPMT 1810-BM
7.795	9.843						3.150	.059	1.024	2.047	4.803	4.094	1015				
198.00	250.00	18	18	C10	3	820-250SP18Y-C10	100.00	1.50	26.00	52.0	128.00	104.00	70	3.0	10.200	2	SPMT 1810-BM
7.795	9.843						3.937	.059	1.024	2.047	5.039	4.094	1015				
248.00	300.00	18	18	C8	3	820-300SP18Y-C8	80.00	1.50	26.00	52.0	122.00	104.00	70	3.0	9.460	2	SPMT 1810-BM
9.764	11.811						3.150	.059	1.024	2.047	4.803	4.094	1015				
248.00	300.00	18	18	C10	3	820-300SP18Y-C10	100.00	1.50	26.00	52.0	128.00	104.00	70	3.0	11.510	2	SPMT 1810-BM
9.764	11.811						3.937	.059	1.024	2.047	5.039	4.094	1015				

F

G

H

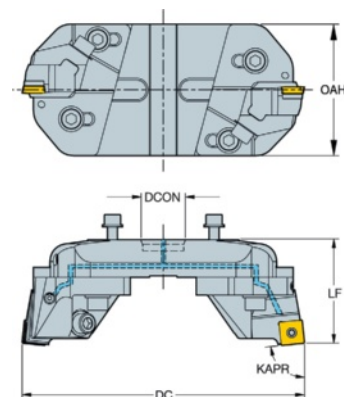


CoroBore® 820 XL damped rough boring tool

Internal coolant supply

KAPR

84°



							Dimensions, mm, inch											
DCN	DCX			CZC _{MS}	CNSC	Ordering code	DCON	ADJLX _{AVL}	ADJLX _{RDL}	HSUP	LF	OAH	CP BarPSI			CICT	MIID	
148.00 5.827	200.00 7.874	18	18	33	1	820D-200SP18Y	33.00 1.299	1.50 .059	26.00 1.024	51.0 2.008	82.00 3.228	104.00 4.094	70 1015	3.0	3.350	2	SPMT 1810-BM	
198.00 7.795	250.00 9.843	18	18	33	1	820D-250SP18Y	33.00 1.299	1.50 .059	26.00 1.024	51.0 2.008	82.00 3.228	104.00 4.094	70 1015	3.0	3.670	2	SPMT 1810-BM	
248.00 9.764	300.00 11.811	18	18	33	1	820D-300SP18Y	33.00 1.299	1.50 .059	26.00 1.024	51.0 2.008	82.00 3.228	104.00 4.094	70 1015	3.0	4.030	2	SPMT 1810-BM	



E16



H3



H10



E30

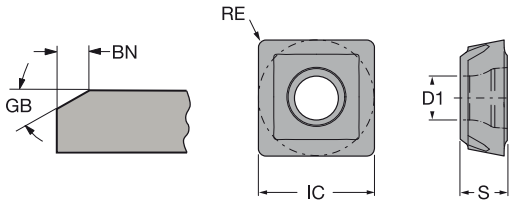
A

Boring Rough boring

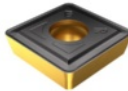
CoroBore® 111 inserts for rough boring

Square

B



C

								P	M	K	S		
			S	RE	GB	BN	ISO CODE	4325	2025	3210	4325	1145	
Medium		06	2.60	0.60	5°	0.09	SPMT0606-BM		☆				
			.102	.024	5°	.004							
		08	3.00	0.80	2°	0.10	SPMT0808-BM		☆			☆	
			.118	.031	2°	.004							
		12	4.00	1.00	2°	0.14	SPMT1210-BM		☆			☆	
			.157	.039	2°	.006							
Roughing		18	5.50	1.00	2°	0.14	SPMT1810-BM		☆			☆	
			.217	.039	2°	.006							
		06	2.60	0.60	5°	0.10	SPMT0606-BR	☆		☆	☆		
			.102	.024	5°	.004							
		08	3.00	0.80	5°	0.12	SPMT0808-BR	☆		☆	☆		
			.118	.031	5°	.005							
		12	4.00	1.20	5°	0.16	SPMT1212-BR	☆		☆	☆		
			.157	.047	5°	.006							
		18	5.50	1.20	5°	0.16	SPMT1812-BR	☆		☆	☆		
			.217	.047	5°	.006							

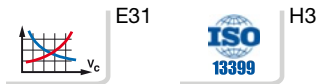
D

E

F

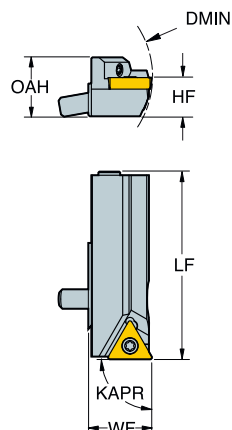
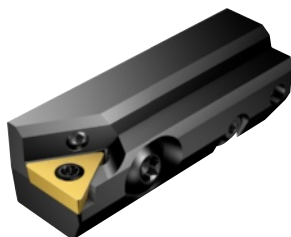
G

H



Indexable boring cartridge

Axial and radial adjustment



KAPR 90°

			Dimensions, mm, inch									
DMIN ₁			Ordering code	ADJLX _{RDL}	ADJLX _{AXL}	LF	WF	OAH	CP Bar PSI	 Nm	 Kg	MIID
25.0 .984	06 1/4		SCFCR08CBX06	0.40 .016	1.00 .039	40.00 1.575	13.30 .524	12.20 .480	70 1015	0.9	0.080	CCMT 06 02 04
40.0 1.575	09 3/8		SCFCR10CBX09	0.40 .016	1.00 .039	45.00 1.772	16.30 .642	14.20 .559	70 1015	3.0	0.100	CCMT 09 T3 08
50.0 1.969	12 1/2		SCFCR12CBX12	0.40 .016	1.00 .039	50.00 1.969	18.80 .740	16.20 .638	70 1015	3.0	0.120	CCMT 12 04 08

KAPR 84°

			Dimensions, mm, inch									
DMIN ₁			Ordering code	ADJLX _{RDL}	ADJLX _{AXL}	LF	WF	OAH	CP Bar PSI	 Nm	 Kg	MIID
25.0 .984	06	06	SSYPR08CBX06	0.40 .016	1.00 .039	40.00 1.575	13.30 .524	12.20 .480	70 1015	0.8	0.080	SPMT 0606-BM
40.0 1.575	08	08	SSYPR10CBX08	0.40 .016	1.00 .039	45.00 1.772	16.30 .642	14.20 .559	70 1015	1.7	0.100	SPMT 0808-BM
50.0 1.969	12	12	SSYPR12CBX12	0.40 .016	1.00 .039	50.00 1.969	18.80 .740	16.20 .638	70 1015	2.0	0.120	SPMT 1210-BM

KAPR 90°

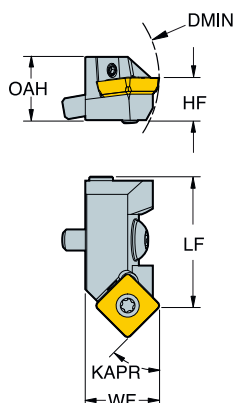
			Dimensions, mm, inch									
DMIN ₁			Ordering code	ADJLX _{RDL}	ADJLX _{AXL}	LF	WF	OAH	 CP Bar PSI	 Nm	 Kg	MIID
25.0 .984	09	7/32	STFCR08CBX09	0.40 .016	1.00 .039	40.00 1.575	13.30 .524	12.20 .480	70 1015	0.8	0.080	TCMT 09 02 04
40.0 1.575	11	1/4	STFCR10CBX11	0.40 .016	1.00 .039	45.00 1.772	16.30 .642	14.20 .559	70 1015	0.9	0.100	TCMT 11 03 04
50.0 1.969	16	3/8	STFCR12CBX16	0.40 .016	1.00 .039	50.00 1.969	18.80 .740	16.20 .638	70 1015	3.0	0.120	TCMT 16 T3 08



H3

Indexable boring cartridge

Axial adjustment



KAPR 45°

			Dimensions, mm, inch								
DMIN ₁			Ordering code	ADJLX _{AVL}	LF	WF	OAH	CP BarPSI			MIID
20.0 .787	06	06	SSSPR06CCX06	1.00 .039	23.00 .906	11.00 .433	10.00 .394	70 1015	0.8	0.040	SPMT 0606-BM
25.0 .984	08	08	SSSPR08CCX08	1.00 .039	26.00 1.024	16.00 .630	12.00 .472	70 1015	1.7	0.070	SPMT 0808-BM
40.0 1.575	12	12	SSSPR10CCX12	1.00 .039	32.00 1.260	21.00 .827	14.00 .551	70 1015	2.0	0.100	SPMT 1210-BM

KAPR 30°

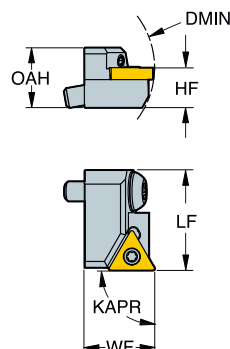
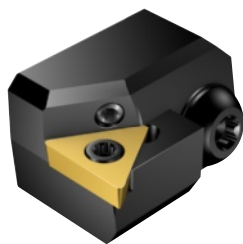
			Dimensions, mm, inch											
DMIN ₁			Ordering code	ADJLX _{AVL}	LF	WF	OAH	CP BarPSI			MIID			
20.0 .787	06	06	SSTPR06CCX06	1.00 .039	23.00 .906	11.00 .433	10.00 .394	70 1015	0.8	0.040	SPMT 0606-BM			
25.0 .984	08	08	SSTPR08CCX08	1.00 .039	26.00 1.024	16.00 .630	12.00 .472	70 1015	1.7	0.070	SPMT 0808-BM			
40.0 1.575	12	12	SSTPR10CCX12	1.00 .039	32.00 1.260	21.00 .827	14.00 .551	70 1015	2.0	0.100	SPMT 1210-BM			



H3

Indexable boring cartridge

No adjustment



KAPR 90°

			Dimensions, mm, inch							
DMIN ₁										
			LF	WF	OAH				MIID	
20.0 .787	06 1/4	SCFCR06CDX06	16.00 .630	11.00 .433	10.00 .394	70 1015	0.9	0.010	CCMT 06 02 04	
25.0 .984	09 3/8	SCFCR08CDX09	20.00 .787	14.00 .551	12.00 .472	70 1015	3.0	0.030	CCMT 09 T3 08	
40.0 1.575	09 3/8	SCFCR10CDX09	25.00 .984	17.00 .669	14.00 .551	70 1015	3.0	0.050	CCMT 09 T3 08	
50.0 1.969	12 1/2	SCFCR12CDX12	28.00 1.102	17.00 .669	16.00 .630	70 1015	3.0	0.070	CCMT 12 04 08	

KAPR 84°

			Dimensions, mm, inch								
DMIN ₁			Ordering code	LF	WF	OAH	CP BarPSI			MIID	
20.0 .787	06	06	SSYPR06CDX06	16.00 .630	11.00 .433	10.00 .394	70 1015	0.8	0.010	SPMT 0606-BM	
25.0 .984	08	08	SSYPR08CDX08	20.00 .787	14.00 .551	12.00 .472	70 1015	1.7	0.030	SPMT 0808-BM	
40.0 1.575	12	12	SSYPR10CDX12	25.00 .984	17.00 .669	14.00 .551	70 1015	2.0	0.050	SPMT 1210-BM	
50.0 1.969	12	12	SSYPR12CDX12	28.00 1.102	17.00 .669	16.00 .630	70 1015	2.0	0.070	SPMT 1210-BM	

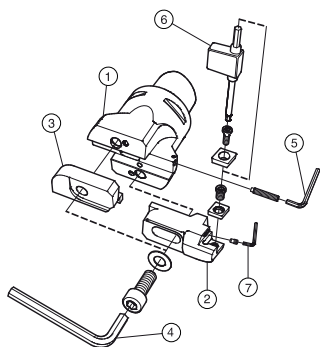
KAPR 90°

			Dimensions, mm, inch							
DMIN ₁			Ordering code	LF	WF	OAH	CP BarPSI			MIID
20.0 .787	06	5/32	STFCR06CDX06	16.00 .630	11.00 .433	10.00 .394	70 1015	0.6	0.010	TCMT 06 T1 02
25.0 .984	09	7/32	STFCR08CDX09	20.00 .787	14.00 .551	12.00 .472	70 1015	0.8	0.030	TCMT 09 02 04
40.0 1.575	11	1/4	STFCR10CDX11	25.00 .984	17.00 .669	14.00 .551	70 1015	0.9	0.050	TCMT 11 03 04
50.0 1.969	16	3/8	STFCR12CDX16	28.00 1.102	17.00 .669	16.00 .630	70 1015	3.0	0.070	TCMT 16 T3 08



H3

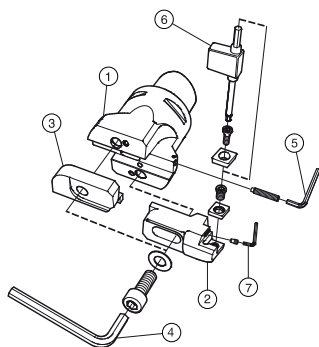
CoroBore® BR10 rough boring tool for back-boring



	Included parts		Spare parts	Included parts	
	1	2	3	4	
Ordering code	Adaptor	Slide	Cover	Key	
BR10-54CC06F-C3	C3-BR20-C-035	BR10-CA-CC06F-00	BR10-CC	3021 010-040	
BR10-65CC06F-C4	C4-BR20-D-043	BR10-DA-CC06F-00	BR10-DC	3021 010-050	
BR10-76CC09F-C4	C4-BR20-D-043	BR10-DB-CC09F-00	BR10-DC	3021 010-050	
BR10-91CC12F-C5	C5-BR20-E-048	BR10-EA-CC12F-00	BR10-EC	3021 010-060	
BR10-110CC12F-C5	C5-BR20-F-050	BR10-FA-CC12F-00	BR10-FC	3021 010-080	
BR10-136CC12F-C6	C6-BR20-G-068	BR10-GA-CC12F-00	BR10-GC	3021 010-080	
BR10-170CC12F-C6	C6-BR20-H-068	BR10-HA-CC12F-00	BR10-HC	3021 010-080	

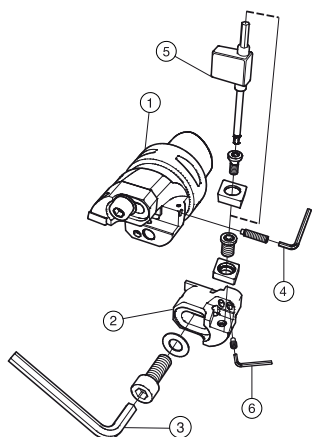
	Included parts		Spare parts	
	5	6	7	
Ordering code	Key	Key	Key	
BR10-54CC06F-C3	3021 012-015	5680 041-01		
BR10-65CC06F-C4	3021 012-015	5680 041-01		
BR10-76CC09F-C4	3021 012-015	5680 049-02		
BR10-91CC12F-C5	3021 012-020	5680 049-02	3021 012-015	
BR10-110CC12F-C5	3021 012-020	5680 049-02	3021 012-015	
BR10-136CC12F-C6	3021 010-025	5680 049-02	3021 012-015	
BR10-170CC12F-C6	3021 010-025	5680 049-02	3021 012-015	

CoroBore® BR10 rough boring tool for back-boring



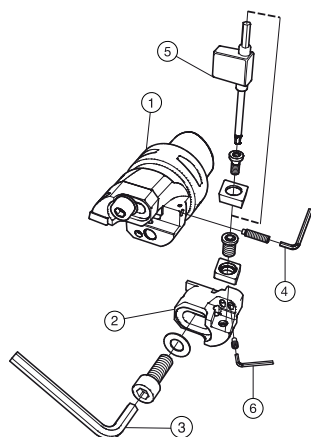
	Included parts		Spare parts	Included parts	
	1	2	3	4	
Ordering code	Adaptor	Slide	Cover	Key	
BR10-38CC06F-EH20	EH20-BR20-A-015	BR10-AA-CC06F-00	BR10-AC	3021 010-030	
BR10-45CC06F-EH25	EH25-BR20-B-014	BR10-BA-CC06F-00	BR10-BC	3021 010-030	
	Included parts	Spare parts			
	5	6			
Ordering code	Key	Key			
BR10-38CC06F-EH20	3021 012-013	5680 046-03			
BR10-45CC06F-EH25	3021 012-013	5680 046-03			

CoroBore® BR20 twin-edge rough boring tool



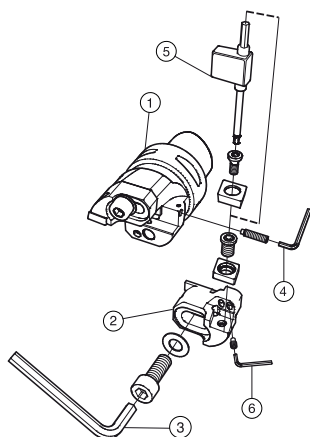
	Included parts				
	1	2a	2b	3	
Ordering code	Adaptor	Slide	Slide	Key	
BR20-116CC12F-C6	C6-BR20-G-068	BR20-GA-CC12F-22	BR20-GB-CC12F-22	3021 010-080	
BR20-116CC12F-C8	C8-BR20-G-072	BR20-GA-CC12F-22	BR20-GB-CC12F-22	3021 010-080	
BR20-150CC12F-C6	C6-BR20-H-068	BR20-HA-CC12F-22	BR20-HB-CC12F-22	3021 010-080	
BR20-150CC12F-C8	C8-BR20-H-078	BR20-HA-CC12F-22	BR20-HB-CC12F-22	3021 010-080	
BR20-29CC06F-C3	C3-BR20-A-066	BR20-AA-CC06F-10	BR20-AB-CC06F-10	3021 010-030	
BR20-36CC06F-C3	C3-BR20-B-072	BR20-BA-CC06F-11	BR20-BB-CC06F-11	3021 010-030	
BR20-45CC09F-C3	C3-BR20-C-035	BR20-CA-CC09F-13	BR20-CB-CC09F-13	3021 010-040	
BR20-45CC09F-C4	C4-BR20-C-070	BR20-CA-CC09F-13	BR20-CB-CC09F-13	3021 010-040	
BR20-56CC09F-C4	C4-BR20-D-043	BR20-DA-CC09F-13	BR20-DB-CC09F-13	3021 010-050	
BR20-56CC09F-C5	C5-BR20-D-085	BR20-DA-CC09F-13	BR20-DB-CC09F-13	3021 010-050	
BR20-71CC12F-C5	C5-BR20-E-048	BR20-EA-CC12F-18	BR20-EB-CC12F-18	3021 010-060	
BR20-71CC12F-C6	C6-BR20-E-102	BR20-EA-CC12F-18	BR20-EB-CC12F-18	3021 010-060	
BR20-90CC12F-C5	C5-BR20-F-050	BR20-FA-CC12F-20	BR20-FB-CC12F-20	3021 010-080	
BR20-90CC12F-C6	C6-BR20-F-058	BR20-FA-CC12F-20	BR20-FB-CC12F-20	3021 010-080	
	Included parts	Spare parts	Included parts		
	4	5	6		
Ordering code	Key	Key	Key		
BR20-116CC12F-C6	3021 010-025	5680 049-02	3021 012-015		
BR20-116CC12F-C8	3021 010-025	5680 049-02	3021 012-015		
BR20-150CC12F-C6	3021 010-025	5680 049-02	3021 012-015		
BR20-150CC12F-C8	3021 010-025	5680 049-02	3021 012-015		
BR20-29CC06F-C3	3021 012-013	5680 041-01			
BR20-36CC06F-C3	3021 012-013	5680 041-01			
BR20-45CC09F-C3	3021 012-015	5680 049-02			
BR20-45CC09F-C4	3021 012-015	5680 049-02			
BR20-56CC09F-C4	3021 012-015	5680 049-02			
BR20-56CC09F-C5	3021 012-015	5680 049-02			
BR20-71CC12F-C5	3021 012-020	5680 049-02	3021 012-015		
BR20-71CC12F-C6	3021 012-020	5680 049-02	3021 012-015		
BR20-90CC12F-C5	3021 012-020	5680 049-02	3021 012-015		
BR20-90CC12F-C6	3021 012-020	5680 049-02	3021 012-015		

CoroBore® BR20 twin-edge rough boring tool

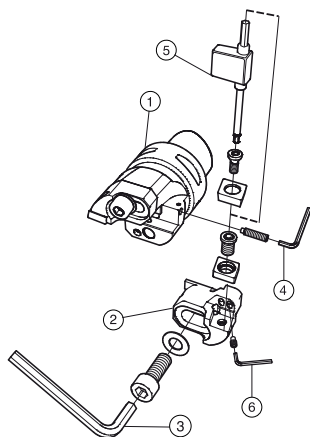


	Included parts				
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Ordering code	Adaptor	Slide	Slide	Key	
BR20-29SP06Y-C3	C3-BR20-A-066	BR20-AA-SP06Y-10	BR20-AB-SP06Y-10	3021 010-030	
BR20-36SP06Y-C3	C3-BR20-B-072	BR20-BA-SP06Y-11	BR20-BB-SP06Y-11	3021 010-030	
BR20-45SP08Y-C3	C3-BR20-C-035	BR20-CA-SP08Y-13	BR20-CB-SP08Y-13	3021 010-040	
BR20-45SP08Y-C4	C4-BR20-C-070	BR20-CA-SP08Y-13	BR20-CB-SP08Y-13	3021 010-040	
BR20-56SP08Y-C4	C4-BR20-D-043	BR20-DA-SP08Y-13	BR20-DB-SP08Y-13	3021 010-050	
BR20-56SP08Y-C5	C5-BR20-D-085	BR20-DA-SP08Y-13	BR20-DB-SP08Y-13	3021 010-050	
BR20-71SP12Y-C5	C5-BR20-E-048	BR20-EA-SP12Y-18	BR20-EB-SP12Y-18	3021 010-060	
BR20-71SP12Y-C6	C6-BR20-E-102	BR20-EA-SP12Y-18	BR20-EB-SP12Y-18	3021 010-060	
BR20-90SP12Y-C5	C5-BR20-F-050	BR20-FA-SP12Y-20	BR20-FB-SP12Y-20	3021 010-080	
BR20-90SP12Y-C6	C6-BR20-F-058	BR20-FA-SP12Y-20	BR20-FB-SP12Y-20	3021 010-080	
BR20-116SP12Y-C6	C6-BR20-G-068	BR20-GA-SP12Y-22	BR20-GB-SP12Y-22	3021 010-080	
BR20-116SP12Y-C8	C8-BR20-G-072	BR20-GA-SP12Y-22	BR20-GB-SP12Y-22	3021 010-080	
BR20-150SP12Y-C6	C6-BR20-H-068	BR20-HA-SP12Y-22	BR20-HB-SP12Y-22	3021 010-080	
BR20-150SP12Y-C8	C8-BR20-H-078	BR20-HA-SP12Y-22	BR20-HB-SP12Y-22	3021 010-080	
	Included parts	Spare parts	Included parts		
	4	5	6		
Ordering code	Key	Key	Key		
BR20-29SP06Y-C3	3021 012-013	5680 041-01			
BR20-36SP06Y-C3	3021 012-013	5680 041-01			
BR20-45SP08Y-C3	3021 012-015	5680 049-03			
BR20-45SP08Y-C4	3021 012-015	5680 049-03			
BR20-56SP08Y-C4	3021 012-015	5680 049-03			
BR20-56SP08Y-C5	3021 012-015	5680 049-03			
BR20-71SP12Y-C5	3021 012-020	5680 049-04	3021 012-015		
BR20-71SP12Y-C6	3021 012-020	5680 049-04	3021 012-015		
BR20-90SP12Y-C5	3021 012-020	5680 049-04	3021 012-015		
BR20-90SP12Y-C6	3021 012-020	5680 049-04	3021 012-015		
BR20-116SP12Y-C6	3021 010-025	5680 049-04	3021 012-015		
BR20-116SP12Y-C8	3021 010-025	5680 049-04	3021 012-015		
BR20-150SP12Y-C6	3021 010-025	5680 049-04	3021 012-015		
BR20-150SP12Y-C8	3021 010-025	5680 049-04	3021 012-015		

CoroBore® BR20 twin-edge rough boring tool

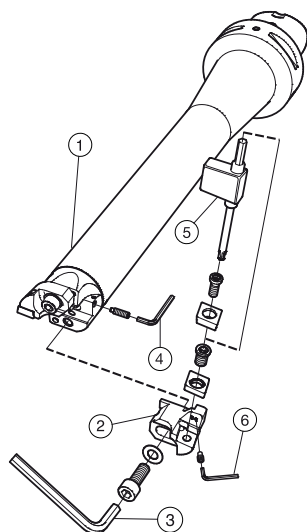


	Included parts				
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Ordering code	Adaptor	Slide	Slide	Key	
BR20-29CC06F-EH20	EH20-BR20-A-015	BR20-AA-CC06F-10	BR20-AB-CC06F-10	3021 010-030	
BR20-36CC06F-EH25	EH25-BR20-B-014	BR20-BA-CC06F-11	BR20-BB-CC06F-11	3021 010-030	
	Included parts	Spare parts			
	4	5			
Ordering code	Key	Key			
BR20-29CC06F-EH20	3021 012-013	5680 041-01			
BR20-36CC06F-EH25	3021 012-013	5680 041-01			



	Included parts				
	1	2a	2b	3	
Ordering code	Adaptor	Slide	Slide	Key	
BR20-29SP06Y-EH20	EH20-BR20-A-015	BR20-AA-SP06Y-10	BR20-AB-SP06Y-10	3021 010-030	
BR20-36SP06Y-EH25	EH25-BR20-B-014	BR20-BA-SP06Y-11	BR20-BB-SP06Y-11	3021 010-030	
	Included parts	Spare parts			
	4	5			
Ordering code	Key	Key			
BR20-29SP06Y-EH20	3021 012-013	5680 041-01			
BR20-36SP06Y-EH25	3021 012-013	5680 041-01			

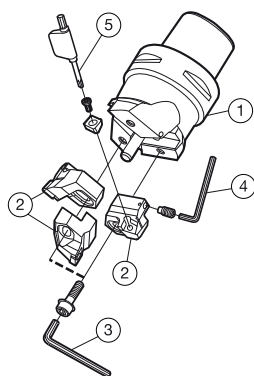
CoroBore® BR20 twin-edge damped rough boring tool



	Included parts				
	1	2a	2b	3	
Ordering code	Adaptor	Slide	Slide	Key	
BR20D-29CC06F-C4L	C4-BR20D-A-189	BR20-AA-CC06F-10	BR20-AB-CC06F-10	3021 010-030	
BR20D-36CC06F-C3L	C3-BR20D-B-205	BR20-BA-CC06F-11	BR20-BB-CC06F-11	3021 010-030	
BR20D-45CC09F-C3L	C3-BR20D-C-208	BR20-CA-CC09F-13	BR20-CB-CC09F-13	3021 010-040	
BR20D-45CC09F-C4L	C4-BR20D-C-257	BR20-CA-CC09F-13	BR20-CB-CC09F-13	3021 010-040	
BR20D-45CC09F-C6L	C6-BR20D-C-284	BR20-CA-CC09F-13	BR20-CB-CC09F-13	3021 010-040	
BR20D-56CC09F-C4L	C4-BR20D-D-207	BR20-DA-CC09F-13	BR20-DB-CC09F-13	3021 010-050	
BR20D-56CC09F-C5L	C5-BR20D-D-323	BR20-DA-CC09F-13	BR20-DB-CC09F-13	3021 010-050	
BR20D-56CC09F-C6L	C6-BR20D-D-350	BR20-DA-CC09F-13	BR20-DB-CC09F-13	3021 010-050	
BR20D-71CC12F-C5M	C5-BR20D-E-282	BR20-EA-CC12F-18	BR20-EB-CC12F-18	3021 010-060	
BR20D-71CC12F-C6M	C6-BR20D-E-382	BR20-EA-CC12F-18	BR20-EB-CC12F-18	3021 010-060	
BR20D-90CC12F-C6M	C6-BR20D-F-380	BR20-FA-CC12F-20	BR20-FB-CC12F-20	3021 010-080	
BR20D-90CC12F-C8M	C8-BR20D-F-480	BR20-FA-CC12F-20	BR20-FB-CC12F-20	3021 010-080	
BR20D-116CC12F-C8M	C8-BR20D-G-478	BR20-GA-CC12F-22	BR20-GB-CC12F-22	3021 010-080	
BR20D-116CC12F-C8S	C8-BR20D-G-388	BR20-GA-CC12F-22	BR20-GB-CC12F-22	3021 010-080	
BR20D-150CC12F-C8M	C8-BR20D-H-478	BR20-HA-CC12F-22	BR20-HB-CC12F-22	3021 010-080	

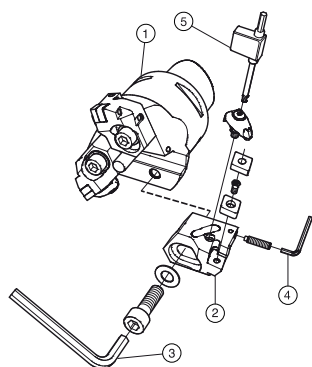
	Included parts	Spare parts	Included parts	
	4	5	6	
Ordering code	Key	Key	Key	
BR20D-29CC06F-C4L	3021 012-013	5680 041-01		
BR20D-36CC06F-C3L	3021 012-013	5680 041-01		
BR20D-45CC09F-C3L	3021 012-015	5680 049-02		
BR20D-45CC09F-C4L	3021 012-015	5680 049-02		
BR20D-45CC09F-C6L	3021 012-015	5680 049-02		
BR20D-56CC09F-C4L	3021 012-015	5680 049-02		
BR20D-56CC09F-C5L	3021 012-015	5680 049-02		
BR20D-56CC09F-C6L	3021 012-015	5680 049-02		
BR20D-71CC12F-C5M	3021 012-020	5680 049-02	3021 012-015	
BR20D-71CC12F-C6M	3021 012-020	5680 049-02	3021 012-015	
BR20D-90CC12F-C6M	3021 012-020	5680 049-02	3021 012-015	
BR20D-90CC12F-C8M	3021 012-020	5680 049-02	3021 012-015	
BR20D-116CC12F-C8M	3021 010-025	5680 049-02	3021 012-015	
BR20D-116CC12F-C8S	3021 010-025	5680 049-02	3021 012-015	
BR20D-150CC12F-C8M	3021 010-025	5680 049-02	3021 012-015	

CoroBore® BR30 three-edge rough boring tool



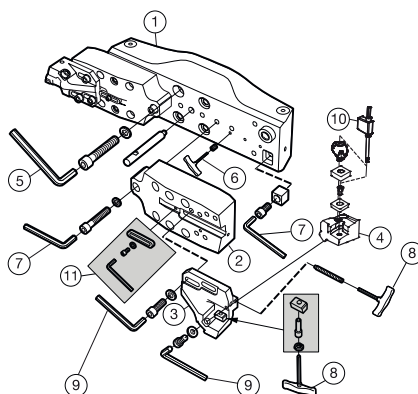
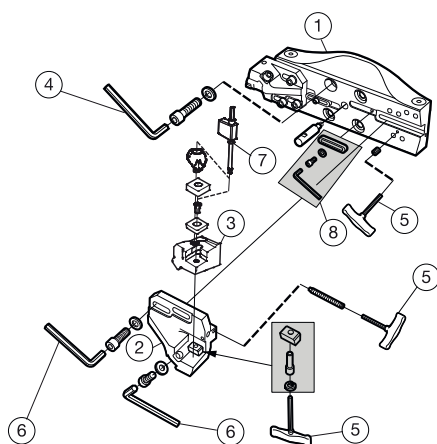
	Included parts				Spare parts
	1	2	3	4	5
Ordering code	Adaptor	Slide	Key	Key	Key
BR30-41CC06F-C3	C3-R820A-AA3037B	R820A-AR11SCFC06B	3021 010-030	3021 012-015	5680 051-02
BR30-41SP06Y-C3	C3-R820A-AA3037B	R820A-AR11SSYP06	3021 010-030	3021 012-015	5680 041-01
BR30-41CC06F-C4	C4-R820A-AA3072B	R820A-AR11SCFC06B	3021 010-030	3021 012-015	5680 051-02
BR30-45CC06F-C3	C3-R820A-AA3037B	R820A-BR11SCFC06B	3021 010-030	3021 012-015	5680 051-02
BR30-45SP06Y-C3	C3-R820A-AA3037B	R820A-BR11SSYP06	3021 010-030	3021 012-015	5680 041-01
BR30-45CC06F-C4	C4-R820A-AA3072B	R820A-BR11SCFC06B	3021 010-030	3021 012-015	5680 051-02
BR30-51CC06F-C4	C4-R820B-AA3044B	R820B-AR12SCFC06B	3021 010-040	3021 012-015	5680 051-02
BR30-51SP06Y-C4	C4-R820B-AA3044B	R820B-AR12SSYP06	3021 010-040	3021 012-015	5680 041-01
BR30-51CC06F-C5	C5-R820B-AA3086B	R820B-AR12SCFC06B	3021 010-040	3021 012-015	5680 051-02
BR30-56CC06F-C4	C4-R820B-AA3044B	R820B-BR12SCFC06B	3021 010-040	3021 012-015	5680 051-02
BR30-56CC09F-C4	C4-R820B-AA3044B	R820B-BR14SCFC09B	3021 010-040	3021 012-015	5680 049-02
BR30-56SP08Y-C4	C4-R820B-AA3044B	R820B-BR14SSYP08	3021 010-040	3021 012-015	5680 049-03
BR30-56CC06F-C5	C5-R820B-AA3086B	R820B-BR12SCFC06B	3021 010-040	3021 012-015	5680 051-02
BR30-56CC09F-C5	C5-R820B-AA3086B	R820B-BR14SCFC09B	3021 010-040	3021 012-015	5680 049-02
BR30-63CC09F-C5	C5-R820C-AA3050B	R820C-AR16SCFC09B	3021 010-050	3021 012-015	5680 049-02
BR30-63SP08Y-C5	C5-R820C-AA3050B	R820C-AR16SSYP08	3021 010-050	3021 012-015	5680 049-03
BR30-63CC09F-C6	C6-R820C-AA3104B	R820C-AR16SCFC09B	3021 010-050	3021 012-015	5680 049-02
BR30-70CC09F-C5	C5-R820C-AA3050B	R820C-BR16SCFC09B	3021 010-050	3021 012-015	5680 049-02
BR30-70CC12F-C5	C5-R820C-AA3050B	R820C-BR18SCFC12B	3021 010-050	3021 012-015	5680 049-02
BR30-70SP12Y-C5	C5-R820C-AA3050B	R820C-BR18SSYP12	3021 010-050	3021 012-015	5680 049-04
BR30-70CC09F-C6	C6-R820C-AA3104B	R820C-BR16SCFC09B	3021 010-050	3021 012-015	5680 049-02
BR30-70CC12F-C6	C6-R820C-AA3104B	R820C-BR18SCFC12B	3021 010-050	3021 012-015	5680 049-02
BR30-79CC12F-C5	C5-R820D-AA3052B	R820D-AR18SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-79CC12F-C6	C6-R820D-AA3060B	R820D-AR18SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-79SP12Y-C6	C6-R820D-AA3060B	R820D-AR18SSYP12	3021 010-050	174.1-870	5680 049-04
BR30-87CC12F-C5	C5-R820D-AA3052B	R820D-BR18SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-87CC12F-C6	C6-R820D-AA3060B	R820D-BR18SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-87SP12Y-C6	C6-R820D-AA3060B	R820D-BR18SSYP12	3021 010-050	174.1-870	5680 049-04
BR30-97CC12F-C6	C6-R820E-AA3068B	R820E-AR22SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-97CC12F-C8	C8-R820E-AA3072B	R820E-AR22SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-97SP12Y-C8	C8-R820E-AA3072B	R820E-AR22SSYP12	3021 010-060	174.1-870	5680 049-04
BR30-107CC12F-C6	C6-R820E-AA3068B	R820E-BR22SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-107CC12F-C8	C8-R820E-AA3072B	R820E-BR22SCFC12A	3021 010-050	174.1-870	5680 049-02
BR30-107SP12Y-C8	C8-R820E-AA3072B	R820E-BR22SSYP12	3021 010-060	174.1-870	5680 049-04
BR30-122CC12F-C8	C8-R820F-AA3076B	R820F-AR24SCFC12A	3021 010-080	5680 010-02	5680 049-02
BR30-122SP12Y-C8	C8-R820F-AA3076B	R820F-AR24SSYP12	3021 010-080	5680 010-02	5680 049-04
BR30-137CC12F-C8	C8-R820F-AA3076B	R820F-BR24SCFC12A	3021 010-080	5680 010-02	5680 049-02
BR30-137SP12Y-C8	C8-R820F-AA3076B	R820F-BR24SSYP12	3021 010-080	5680 010-02	5680 049-04
BR30-152CC12F-C8	C8-R820G-AA3076B	R820G-AR24SCFC12A	3021 010-080	5680 010-02	5680 049-02
BR30-152SP12Y-C8	C8-R820G-AA3076B	R820G-AR24SSYP12	3021 010-080	5680 010-02	5680 049-04
BR30-167CC12F-C8	C8-R820G-AA3076B	R820G-BR24SCFC12A	3021 010-080	5680 010-02	5680 049-02
BR30-167SP12Y-C8	C8-R820G-AA3076B	R820G-BR24SSYP12	3021 010-080	5680 010-02	5680 049-04
BR30-191CC12F-C8	C8-R820H-AA3089B	R820H-AR26SCFC12A	3021 010-080	5680 010-05	5680 049-02
BR30-191SP12Y-C8	C8-R820H-AA3089B	R820H-AR26SSYP12	3021 010-080	5680 010-05	5680 049-04
BR30-214CC12F-C8	C8-R820H-AA3089B	R820H-BR26SCFC12A	3021 010-080	5680 010-05	5680 049-02
BR30-214SP12Y-C8	C8-R820H-AA3089B	R820H-BR26SSYP12	3021 010-080	5680 010-05	5680 049-04
BR30-237CC12F-C8	C8-R820I-AA3089B	R820I-AR26SCFC12A	3021 010-080	5680 010-05	5680 049-02
BR30-237SP12Y-C8	C8-R820I-AA3089B	R820I-AR26SSYP12	3021 010-080	5680 010-05	5680 049-04
BR30-260CC12F-C8	C8-R820I-AA3089B	R820I-BR26SCFC12A	3021 010-080	5680 010-05	5680 049-02
BR30-260SP12Y-C8	C8-R820I-AA3089B	R820I-BR26SSYP12	3021 010-080	5680 010-05	5680 049-04
BR30-283CC12F-C8	C8-R820IX-AA3094B	R820I-AR26SCFC12A	3021 010-080	5680 010-05	5680 049-02
BR30-283SP12Y-C8	C8-R820IX-AA3094B	R820I-AR26SSYP12	3021 010-080	5680 010-05	5680 049-04
BR30-306CC12F-C8	C8-R820IX-AA3094B	R820I-BR26SCFC12A	3021 010-080	5680 010-05	5680 049-02
BR30-306SP12Y-C8	C8-R820IX-AA3094B	R820I-BR26SSYP12	3021 010-080	5680 010-05	5680 049-04

CoroBore® BR30 three-edge rough boring tool



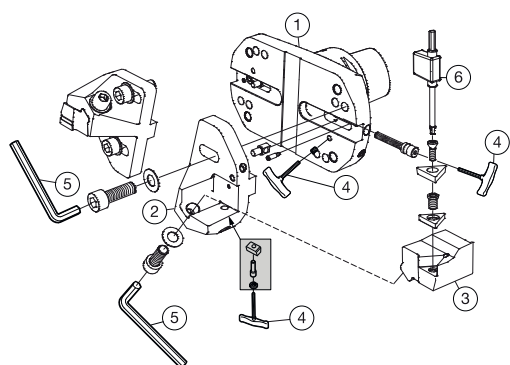
	Included parts				
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Ordering code	Adaptor	Slide	Key	Key	Key
BR30-122SN12Y-C8	C8-R820F-AA3076B	R820F-AR24DCFN12A	3021 010-080	5680 010-02	5680 049-02
BR30-137SN12Y-C8	C8-R820F-AA3076B	R820F-BR24DCFN12A	3021 010-080	5680 010-02	5680 049-02
BR30-152SN12Y-C8	C8-R820G-AA3076B	R820G-AR24DCFN12A	3021 010-080	5680 010-02	5680 049-02
BR30-167SN12Y-C8	C8-R820G-AA3076B	R820G-BR24DCFN12A	3021 010-080	5680 010-02	5680 049-02
BR30-191CN16F-C8	C8-R820H-AA3089B	R820H-AR30DCFN16	3021 010-080	5680 010-05	5680 043-14
BR30-191SN15Y-C8	C8-R820H-AA3089B	R820H-AR30DSYN15	3021 010-080	5680 010-05	5680 043-14
BR30-214CN16F-C8	C8-R820H-AA3089B	R820H-BR30DCFN16	3021 010-080	5680 010-05	5680 043-14
BR30-214SN15Y-C8	C8-R820H-AA3089B	R820H-BR30DSYN15	3021 010-080	5680 010-05	5680 043-14
BR30-237CN16F-C8	C8-R820I-AA3089B	R820I-AR30DCFN16	3021 010-080	5680 010-05	5680 043-14
BR30-237SN15Y-C8	C8-R820I-AA3089B	R820I-AR30DSYN15	3021 010-080	5680 010-05	5680 043-14
BR30-260CN16F-C8	C8-R820I-AA3089B	R820I-BR30DCFN16	3021 010-080	5680 010-05	5680 043-14
BR30-260SN15Y-C8	C8-R820I-AA3089B	R820I-BR30DSYN15	3021 010-080	5680 010-05	5680 043-14
BR30-283CN16F-C8	C8-R820IX-AA3094B	R820I-AR30DCFN16	3021 010-080	5680 010-05	5680 043-14
BR30-283SN15Y-C8	C8-R820IX-AA3094B	R820I-AR30DSYN15	3021 010-080	5680 010-05	5680 043-14
BR30-306CN16F-C8	C8-R820IX-AA3094B	R820I-BR30DCFN16	3021 010-080	5680 010-05	5680 043-14
BR30-306SN15Y-C8	C8-R820IX-AA3094B	R820I-BR30DSYN15	3021 010-080	5680 010-05	5680 043-14

CoroBore® 820 XL rough boring tool



	Included parts				
	1	2	3	4	
Ordering code	Bridge	Slide	Cartridge	Key	
820-380SP18Y	A40-RXLS24-AM2 062	S24-R820XLS12-012	S12-R820XLR40SSYP18	3021 010-140	
820-460SP18Y	A40-RXLS24-AN2 067	S24-R820XLS12-012	S12-R820XLR40SSYP18	3021 010-140	
820-540SP18Y	A40-RXLS24-AO2 072	S24-R820XLS12-012	S12-R820XLR40SSYP18	3021 010-140	
	Included parts			Accessories	
	5	6	7	8	
Ordering code	Key	Key	Key	Stop plate set	
820-380SP18Y	265.2-817	3021 010-080	5680 049-02	5335 001-01	
820-460SP18Y	265.2-817	3021 010-080	5680 049-02	5335 001-01	
820-540SP18Y	265.2-817	3021 010-080	5680 049-02	5335 001-01	
	Included parts				
	1	2	3	4	
Ordering code	Bridge	Bridge extension	Slide	Cartridge	
820-780SP18Y	A40-NXLA35-AP2 086	A35-RXLS24-A 060	S24-R820XLS12-012	S12-R820XLR40SSYP18	
820-1020SP18Y	A40-NXLA35-AQ2 106	A35-RXLS24-A 060	S24-R820XLS12-012	S12-R820XLR40SSYP18	
820-1260SP18Y	A40-NXLA35-AR2 106	A35-RXLS24-A 060	S24-R820XLS12-012	S12-R820XLR40SSYP18	
	Included parts				
	5	6	7	8	
Ordering code	Key	Key	Key	Key	
820-780SP18Y	3021 010-140	265.2-821	3021 010-100	265.2-817	
820-1020SP18Y	3021 010-140	265.2-821	3021 010-100	265.2-817	
820-1260SP18Y	3021 010-140	265.2-821	3021 010-100	265.2-817	
	Included parts		Accessories		
	9	10	11		
Ordering code	Key	Key	Stop plate set		
820-780SP18Y	3021 010-080	5680 049-02	5335 001-01		
820-1020SP18Y	3021 010-080	5680 049-02	5335 001-01		
820-1260SP18Y	3021 010-080	5680 049-02	5335 001-01		

CoroBore® 820 XL rough boring tool



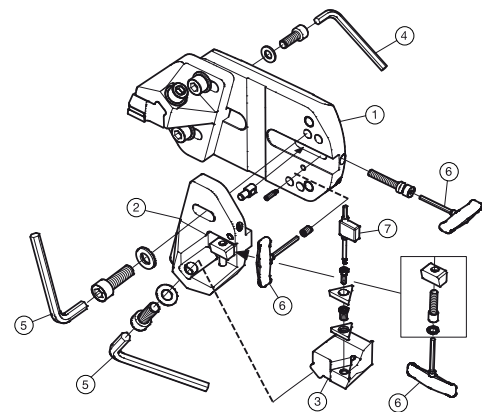
	Included parts				
	1	2	3	4	
Ordering code	Adaptor	Slide	Cartridge	Key	
820-200SP18Y-C8	C8-R822XLS17-AJ 070	S17-R820XLS12-012	S12-R820XLR40SSYP18	265.2-817	
820-200SP18Y-C10	C10-R822XLS17-AJ 076	S17-R820XLS12-012	S12-R820XLR40SSYP18	265.2-817	
820-250SP18Y-C8	C8-R822XLS17-AK 070	S17-R820XLS12-012	S12-R820XLR40SSYP18	265.2-817	
820-250SP18Y-C10	C10-R822XLS17-AK 076	S17-R820XLS12-012	S12-R820XLR40SSYP18	265.2-817	
820-300SP18Y-C8	C8-R822XLS17-AL 070	S17-R820XLS12-012	S12-R820XLR40SSYP18	265.2-817	
820-300SP18Y-C10	C10-R822XLS17-AL 076	S17-R820XLS12-012	S12-R820XLR40SSYP18	265.2-817	
	Included parts				
	5	6			
Ordering code	Key	Key			
820-200SP18Y-C8	3021 010-080	5680 049-02			
820-200SP18Y-C10	3021 010-080	5680 049-02			
820-250SP18Y-C8	3021 010-080	5680 049-02			
820-250SP18Y-C10	3021 010-080	5680 049-02			
820-300SP18Y-C8	3021 010-080	5680 049-02			
820-300SP18Y-C10	3021 010-080	5680 049-02			

A

CoroBore® 820 XL damped rough boring tool

B

C



D

	Included parts				
	1	2	3	4	
Ordering code	Bridge	Slide	Cartridge	Key	
820D-200SP18Y	A33-R822XLS17-LJ030	S17-R820XLS12-012	S12-R820XLR40SSYP18	3021 010-060	
820D-250SP18Y	A33-R822XLS17-LK030	S17-R820XLS12-012	S12-R820XLR40SSYP18	3021 010-060	
820D-300SP18Y	A33-R822XLS17-LL030	S17-R820XLS12-012	S12-R820XLR40SSYP18	3021 010-060	
	Included parts				
	5	6	7		
Ordering code	Key	Key	Key		
820D-200SP18Y	3021 010-080	265.2-817	5680 049-02		
820D-250SP18Y	3021 010-080	265.2-817	5680 049-02		
820D-300SP18Y	3021 010-080	265.2-817	5680 049-02		

E

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H

Cutting data recommendations

New generation rough boring insert

Grade	Ordering code	Feed (f_n) mm/r			Cutting depth (a_p), mm			Cutting speed (v_c) m/min		
		Min	Max	Rec	Min	Max	Rec	Min	Max	Rec
4325	SPMT0606-BR	0.10	0.25	0.20	0.6	4.5	2.0	365	460	395
	SPMT0808-BR	0.15	0.35	0.20	0.8	6.5	2.5	325	425	395
	SPMT1212-BR	0.15	0.40	0.25	1.2	9.0	3.0	305	425	365
	SPMT1812-BR	0.20	0.40	0.30	1.2	12.0	3.8	305	395	345
2025	SPMT0606-BM	0.10	0.15	0.10	0.6	4.5	1.8	260	265	265
	SPMT0808-BM	0.10	0.25	0.20	0.8	6.5	2.2	225	265	240
	SPMT1210-BM	0.10	0.30	0.20	1.0	9.0	2.5	205	265	240
	SPMT1810-BM	0.20	0.30	0.25	1.0	12.0	3.0	205	240	225
3210	SPMT0606-BR	0.15	0.30	0.25	0.6	4.5	2.0	285	330	300
	SPMT0808-BR	0.20	0.50	0.30	0.8	6.5	2.5	235	315	285
	SPMT1212-BR	0.20	0.50	0.30	1.2	9.0	3.0	235	315	285
	SPMT1812-BR	0.25	0.50	0.30	1.2	12.0	3.8	235	300	285
1145	SPMT0606-BM	0.10	0.15	0.10	0.6	4.5	1.8	15	20	20
	SPMT0808-BM	0.10	0.15	0.10	0.8	6.5	2.2	15	20	20
	SPMT1210-BM	0.10	0.20	0.15	1.0	9.0	2.5	10	20	15
	SPMT1810-BM	0.10	0.20	0.15	1.0	12.0	3.0	10	20	15



Rotating tool adaptors

F

Machine side interface Coromant EH

Coromant EH to CoroChuck™ 970

F2

Machine side interface BIG-PLUS® MAS-BT

BIG-PLUS MAS-BT to Coromant EH adaptor

F3

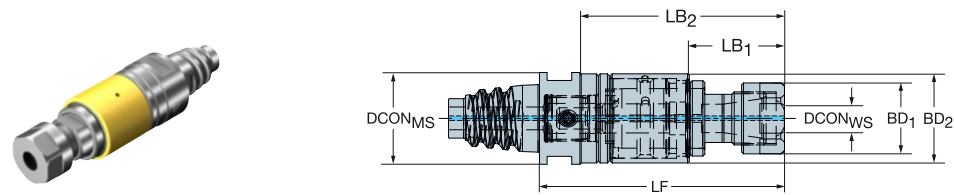
Spare parts

F4

A

Coromant EH to CoroChuck™ 970

B



C

Metric bore

					Dimensions, mm, inch												
CZC _{MS}	CZC _{WS}	TRMAX	CNSC	CXSC	Ordering code	DCON _{MS}	DCON _{WS}	LF	LB ₁	LB ₂	BD ₁	BD ₂	CP BarPSI	 Kg			
E25	ER11	M5	1	1	970-EH25-11-065	24.2	11.3	64.6	25.1	53.6	18.7	23.5	80	0.16			
						.953	.445	2.543	.988	2.110	.736	.925	1160				

D

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H3



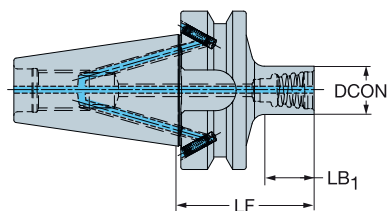
H10



F4

BIG-PLUS MAS-BT to Coromant EH adaptor

Machine side interface compatible with MAS-BT 403 and JIS B 6339



Metric bore

					Dimensions, mm, inch						
CZC _{MS}	CZC _{HS}	CNSC	CXSC	Ordering code	CRKS	DCON _{MS}	LF	LB ₁	BD ₂	CP BarPSI	BBD
30	E12	1	1	EH-BB30-12-044	M12	11.6	44.0	15.4	46.0	80	0.41
						.457	1.732	.606	1.811	1160	
	E16	1	1	EH-BB30-16-050	M12	15.4	50.0	22.0	46.0	80	0.43
						.606	1.969	.866	1.811	1160	
	E20	1	1	EH-BB30-20-047	M12	19.2	47.0	19.4	46.0	80	0.43
						.756	1.850	.764	1.811	1160	
	E25	1	1	EH-BB30-25-052	M12	24.1	52.0	25.1	46.0	80	0.46
						.949	2.047	.988	1.811	1160	

BIG-PLUS® SYSTEM licensed by BIG Daishowa

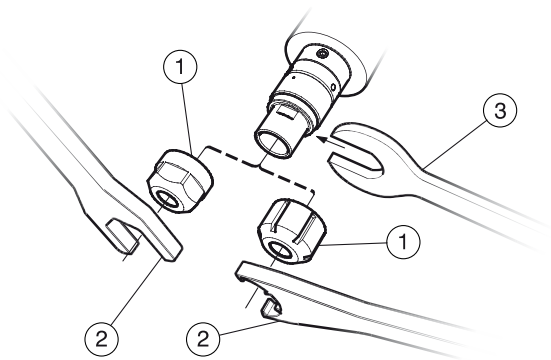


H3



H10

Coromant EH to CoroChuck™ 970



	Spare parts	Accessories		
	1	2	3	
Ordering code	Nut	Wrench	Wrench	
970-EH25-11-065	5533 050-07	5680 091-03	5680 092-03	

Accessories, must be ordered separately

Accessories		G
Cylindrical sleeve		G2
Pull stud		G3
Clamping wedge		G7
Coolant connection kit		G8

A

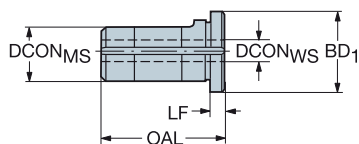
Accessories

Sleeves and collets

ENG

Cylindrical sleeve

B



Metric version

C

					Dimensions, mm, inch							
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON _{MS}	DCON _{WS}	BD ₁	OAL	LF	CP BarPSI		
40	32	1	1	132L-40-32	40	32	50	128	5	150	0.430	
50	32	1	1	132L-50-32	50	32	60	128	5	150	1.100	
50	40	1	1	132L-50-40	50	40	60	160	5	150	0.840	
60	32	1	1	132L-60-32	60	e32	70	128	5	150	1.900	
60	40	1	1	132L-60-40	60	40	70	160	5	150	1.900	
60	50	1	1	132L-60-50	60	50	70	200	5	150	1.300	

D

Inch version

					Dimensions, mm, inch							
CZC _{MS}	CZC _{WS}	CNSC	CXSC	Ordering code	DCON _{MS}	DCON _{WS}	BD ₁	OAL	LF	CP BarPSI		
1 1/2	1 1/4	1	1	132L-A24-A20	1.500	1.250	1.894	5.000	.197	2175	.726	
2	1 1/4	1	1	132L-A32-A20	2.000	1.250	2.394	5.000	.197	2175	2.640	
2	1 1/2	1	1	132L-A32-A24	2.000	1.500	2.394	6.000	.197	2175	2.200	
2 1/2	1 1/4	1	1	132L-A40-A20	2.500	1.250	2.894	5.000	.197	2175	5.060	
2 1/2	1 1/2	1	1	132L-A40-A24	2.500	1.500	2.894	6.000	.197	2175	5.060	
2 1/2	2 1/2	1	1	132L-A40-A32	2.500	2.500	2.894	8.000	.197	2175	3.740	

E

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H



H3

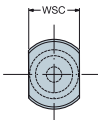
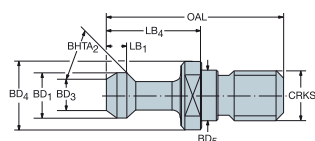


H10

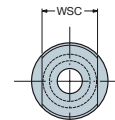
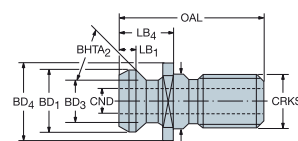
Pull stud



TSYC PS-Ixx



PS-IxxC



ISO

				Dimensions, mm, inch												
CZC	CRKS	CNSC	CXSC	Ordering code	WSC	LB ₁	LB ₄	CND	BD ₁	BD ₃	BD ₄	BD ₅	BHTA ₂	OAL		BSG
30	M12	0	0	PS-I30-75-001	14	5.0	24.0		13.0	9.0	17.0	13	75°	44	0.04	
					.551	.197	.945		.512	.354	.669	.512		1.732		
40	M16	0	0	PS-I40-75-001	19	6.0	26.0		19.0	14.0	23.0	17	75°	54	0.05	DIN 69872
					.748	.236	1.024		.748	.551	.906	.669		2.126		
	M16	1	1	PS-I40C-45-001	18	5.3	16.4	7.4	19.0	12.9	22.5	17	45°	44	0.05	ISO 7388 B
					.709	.209	.646	.289	.746	.510	.886	.669		1.752		
	M16	1	1	PS-I40C-45-002	19	5.0	16.2	7.0	18.8	12.4	21.8	17	45°	41	0.05	
					.748	.200	.640	.276	.740	.490	.858	.669		1.624		
	M16	1	1	PS-I40C-45-003	19	5.0	19.1	7.0	18.8	12.4	22.0	17	45°	44	0.05	
					.748	.200	.752	.276	.740	.490	.866	.669		1.736		
	M16	1	1	PS-I40C-75-001	19	6.0	26.0	7.0	19.0	14.0	23.0	17	75°	54	0.05	DIN 69872
					.748	.236	1.024	.276	.748	.551	.906	.669		2.126		
	M16	1	1	PS-I40C-75-002	19	6.0	26.0	7.0	19.0	14.0	23.0	17	75°	54	0.05	ISO 7388
					.748	.236	1.024	.276	.748	.551	.906	.669		2.126		
	M16	1	1	PS-I40C-75-003	19	6.0	29.0	7.0	19.0	14.1	23.0	17	75°	54	0.05	
					.748	.236	1.142	.276	.748	.555	.906	.669		2.126		
50	M24	0	0	PS-I50-45-001	30	7.6	25.5		29.1	19.6	37.0	25	45°	65	0.15	ISO 7388 B
					1.181	.299	1.006		1.146	.772	1.457	.984		2.579		
	M24	0	0	PS-I50-75-001	30	9.0	34.0		28.0	21.0	36.0	25	75°	74	0.15	DIN 69872
					1.181	.354	1.339		1.102	.827	1.417	.984		2.913		
	M24	0	0	PS-I50-75-002	30	9.0	34.0		28.0	21.0	36.0	20	75°	74	0.15	
					1.181	.354	1.339		1.102	.827	1.417	.787		2.913		
	M24	0	0	PS-I50-75-003	30	9.0	34.0		28.0	21.1	36.0	25	75°	74	0.15	
					1.181	.354	1.339		1.102	.831	1.417	.984		2.913		
	M24	0	0	PS-I50-90-001	30	10.0	46.6		22.0	16.0	39.0	32	90°	99	0.15	
					1.181	.394	1.835		.866	.630	1.535	1.260		3.933		
	M24	1	1	PS-I50C-45-001	30	7.6	25.5	11.5	29.1	19.6	37.0	25	45°	65	0.15	ISO 7388 B
					1.181	.299	1.004	.453	1.146	.772	1.457	.984		2.559		
	M24	1	1	PS-I50C-45-002	26	5.2	16.4	7.4	19.0	12.9	30.0	25	45°	56	0.15	
					1.024	.207	.646	.289	.746	.510	1.181	.984		2.219		
	M24	1	1	PS-I50C-45-003	30	7.6	25.4	10.0	29.0	20.8	36.5	25	45°	65	0.15	
					1.187	.300	1.000	.394	1.140	.820	1.439	.984		2.575		
	M24	1	1	PS-I50C-45-004	30	7.6	25.4	10.0	29.0	20.8	36.5	25	45°	65	0.15	
					1.187	.300	1.000	.394	1.140	.820	1.439	.984		2.575		
	M24	1	1	PS-I50C-75-001	30	9.0	34.0	11.5	28.0	21.0	36.0	25	75°	74	0.15	DIN 69872
					1.181	.354	1.339	.453	1.102	.827	1.417	.984		2.913		
	M24	1	1	PS-I50C-75-002	30	9.0	34.0	11.5	28.0	21.0	36.0	25	75°	74	0.15	ISO 7388
					1.181	.354	1.339	.453	1.102	.827	1.417	.984		2.913		
	M24	1	1	PS-I50C-90-001	30	6.5	32.5	6.0	20.0	13.0	38.5		90°	70	0.15	
					1.181	.256	1.280	.236	.787	.512	1.516			2.756		



H3

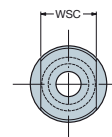
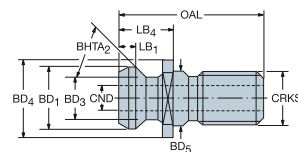
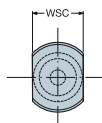
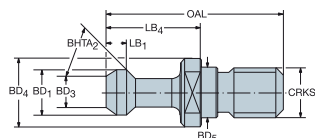


H10

Pull stud

TSYC PS-Bxx

PS-BxxC



MAS-BT

				Dimensions, mm, inch														
CZC	CRKS	CNSC	CXSC	Ordering code	WSC	LB ₁	LB ₄	CND	BD ₁	BD ₃	BD ₄	BD ₅	BHTA ₂	OAL		BSG		
30	M12	0	0	PS-B30-45-001	13	5.0	23.0		11.0	7.0	16.0	12	45°	43	0.04			
					.512	.197	.906		.433	.276	.630	.472		1.693				
	M12	0	0	PS-B30-60-001	13	7.0	35.0		11.0	7.0	16.0	12	60°	43	0.04			
					.512	.276	1.378		.433	.276	.630	.472		1.693				
	M12	1	1	PS-B30C-45-001	13	5.0	23.0	2.4	11.0	7.0	16.5	12	45°	43	0.04			
					.512	.197	.906	.094	.433	.276	.650	.492		1.693				
	M12	1	1	PS-B30C-45-002	13	5.0	23.0	2.5	11.0	7.0	16.5	12	45°	43	0.04			
					.512	.197	.906	.098	.433	.276	.650	.492		1.693				
	M12	1	1	PS-B30C-45-003	13	5.0	23.0	4.0	11.0	8.0	16.5	12	45°	43	0.04			
					.512	.197	.906	.157	.433	.315	.650	.492		1.693				
40	M12	1	1	PS-B30C-60-001	13	5.0	23.0	2.4	11.0	7.0	16.5	12	60°	43	0.04			
					.512	.197	.906	.094	.433	.276	.650	.492		1.693				
	M12	1	1	PS-B30C-60-002	13	5.0	23.0	2.5	11.0	7.5	16.5	12	60°	43	0.04			
					.512	.197	.906	.098	.433	.295	.650	.492		1.693				
	M16	0	0	PS-B40-45-001	19	7.0	35.0		15.0	10.0	23.0	17	45°	60	0.05			
					.748	.276	1.378		.591	.394	.906	.669		2.362				
	M16	0	0	PS-B40-60-001	19	7.0	35.0		15.0	10.0	23.0	17	60°	60	0.05			
					.748	.276	1.378		.591	.394	.906	.669		2.362				
	M16	0	0	PS-B40-90-001	19	7.0	35.0		15.0	10.0	23.0	17	90°	60	0.05			
					.748	.276	1.378		.591	.394	.906	.669		2.362				
50	M16	1	1	PS-B40C-45-001	19	7.0	35.0	4.0	15.0	10.0	23.0	17	45°	60	0.05			
					.748	.276	1.378	.157	.591	.394	.906	.669		2.362				
	M16	1	1	PS-B40C-45-002	17	6.9	34.9	5.0	15.0	9.9	21.8	16	45°	59	0.05			
					.690	.274	1.376	.197	.589	.392	.860	.669		2.360				
	M16	1	1	PS-B40C-60-001	19	7.0	35.0	3.0	15.0	10.0	23.0	17	60°	60	0.05			
					.748	.276	1.378	.118	.591	.394	.906	.669		2.362				
	M16	1	1	PS-B40C-75-001	18	11.4	25.1	7.4	25.3	21.1	25.3	17	75°	53	0.05			
					.709	.449	.988	.289	.996	.831	.996	.669		2.091				
	M16	1	1	PS-B40C-75-002	19	6.0	29.0	7.0	19.0	14.0	23.0	17	75°	54	0.05	JIS 40		
					.748	.236	1.142	.276	.748	.551	.906	.669		2.126				
60	M16	1	1	PS-B40C-75-003	18	5.9	26.0	7.0	19.0	13.9	22.8	16	75°	54	0.05			
					.740	.236	1.024	.278	.747	.549	.900	.668		2.136				
	M16	1	1	PS-B40C-90-001	19	7.0	35.0	3.0	15.0	10.0	23.0	17	90°	60	0.05			
					.748	.276	1.378	.118	.591	.394	.906	.669		2.362				
	M24	0	0	PS-B50-45-001	30	10.0	45.0		23.0	17.0	38.0	25	45°	85	0.25			
					1.181	.394	1.772		.906	.669	1.496	.984		3.346				
	M24	0	0	PS-B50-60-001	30	10.0	45.0		23.0	17.0	38.0	25	60°	85	0.25			
					1.181	.394	1.772		.906	.669	1.496	.984		3.346				
	M24	0	0	PS-B50-90-001	30	10.0	45.0		23.0	17.0	38.0	25	90°	85	0.25			
					1.181	.394	1.772		.906	.669	1.496	.984		3.346				
70	M24	1	1	PS-B50C-45-001	30	10.0	45.0	7.5	23.0	17.0	38.0	25	45°	85	0.25			
					1.181	.394	1.772	.295	.906	.669	1.496	.984		3.346				
	M24	1	1	PS-B50C-45-002	31	7.6	25.4	11.9	29.0	20.8	36.3	24	45°	65	0.25			
					1.250	.300	1.000	.468	1.140	.820	1.430	.984		2.580				
	M24	1	1	PS-B50C-60-001	30	10.0	45.0	8.5	23.0	17.0	38.0	25	60°	85	0.25			
					1.181	.394	1.772	.335	.906	.669	1.496	.984		3.346				
	M24	1	1	PS-B50C-75-001	30	9.0	34.0	11.5	28.0	21.0	36.0	25	75°	74	0.22	JIS 50		
					1.181	.354	1.339	.453	1.102	.827	1.417	.984		2.913				
	M24	1	1	PS-B50C-90-001	30	8.0	31.0	6.0	24.0	18.0	36.0	25	90°	71	0.20			
					1.181	.315	1.220	.236	.945	.709	1.417	.984		2.795				
80	M24	1	1	PS-B50C-90-002	30	10.0	45.0	8.0	23.0	17.0	38.0	25	90°	85	0.25			
					1.181	.394	1.772	.315	.906	.669	1.496	.984		3.346				



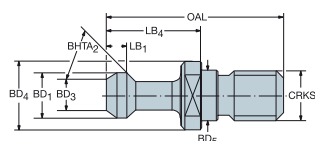
H3



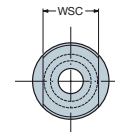
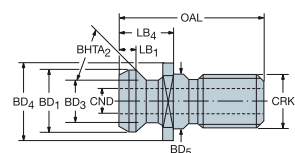
H10

Pull stud

TSYC PS-Vxx



PS-VxxC



CAT-V

					Dimensions, mm, inch										
CZC	CRKS	CNSC	CXSC	Ordering code	WSC	LB ₁	LB ₄	CND	BD ₁	BD ₃	BD ₄	BD ₅	BHTA ₂	OAL	
40	5/8-11 UNC	0	0	PS-V40-45-001	19	7.0	32.0		15.0	9.9	23.8	15	45°	53	0.08
					.750	.276	1.260		.590	.390	.940	.614		2.124	
	5/8-11 UNC	0	0	PS-V40-45-002	19	7.0	32.1		15.0	10.0	23.8	16	45°	57	0.09
					.750	.276	1.266		.591	.394	.940	.641		2.250	
	5/8-11 UNC	0	0	PS-V40-45-003	19	5.0	16.2		18.8	12.4	23.6	16	45°	41	0.08
					.750	.200	.640		.740	.490	.930	.636		1.620	
	5/8-11 UNC	0	0	PS-V40-45-004	19	6.8	32.2		14.9	9.9	23.1	16	45°	57	0.08
					.750	.270	1.270		.588	.390	.910	.640		2.265	
	5/8-11 UNC	0	0	PS-V40-90-001	17	7.2	32.5		15.0	9.9	21.8	15	90°	58	0.08
					.690	.287	1.280		.590	.390	.860	.614		2.320	
	M16	1	1	PS-V40C-45-001	18	5.4	16.4	7.5	19.0	12.9	22.5		45°	38	0.05
					.709	.213	.646	.295	.746	.510	.886			1.496	
	5/8-11 UNC	1	1	PS-V40C-45-002	19	5.1	16.2	7.1	18.8	12.4	23.8		45°	38	0.09
					.750	.201	.640	.281	.740	.490	.940			1.500	
	5/8-11 UNC	1	1	PS-V40C-45-003	19	6.9	32.0	5.0	15.0	9.9	23.8	15	45°	58	0.07
					.750	.272	1.260	.197	.590	.390	.940	.614		2.320	
	5/8-11 UNC	1	1	PS-V40C-45-004	19	5.1	16.2	6.0	18.8	12.4	21.8		45°	41	0.06
					.750	.201	.640	.236	.740	.490	.858			1.624	
	M16	1	1	PS-V40C-45-005	19	5.1	16.2	7.0	18.8	12.4	21.8	17	45°	41	0.05
					.750	.201	.640	.276	.739	.490	.860	.669		1.624	
	5/8-11 UNC	1	1	PS-V40C-45-006	19	5.1	19.1	6.4	18.8	12.4	22.0	17	45°	44	0.06
					.748	.201	.752	.252	.740	.490	.866	.669		1.736	
	M16	1	1	PS-V40C-45-007	19	5.0	16.2	7.1	18.8	12.4	23.6	17	45°	38	0.20
					.750	.200	.640	.281	.740	.490	.930	.670		1.500	
	5/8-11 UNC	1	1	PS-V40C-45-008	19	6.7	32.1	5.1	15.0	9.9	23.8	16	45°	57	0.08
					.750	.265	1.264	.200	.589	.390	.940	.640		2.250	
	5/8-11 UNC	1	1	PS-V40C-45-009	19	5.0	16.2	7.1	18.8	12.4	23.6	16	45°	41	0.08
					.750	.200	.640	.280	.740	.490	.930	.641		1.620	
	M16	1	1	PS-V40C-45-010	19	7.0	32.1	4.0	15.0	9.9	23.8	16	45°	60	0.08
					.750	.276	1.264	.156	.589	.392	.940	.669		2.376	
	5/8-11 UNC	1	1	PS-V40C-75-001	19	5.8	25.9	7.0	18.9	13.9	22.8	15	75°	52	0.08
					.750	.228	1.020	.276	.744	.550	.900	.614		2.060	
	5/8-11 UNC	1	1	PS-V40C-75-002	18	5.9	26.1	6.0	18.9	13.9	22.8	16	75°	51	0.08
					.740	.236	1.028	.236	.746	.549	.900	.641		2.008	
	5/8-11 UNC	1	1	PS-V40C-75-003	19	5.8	25.9	7.1	19.0	13.9	22.0	16	75°	50	0.08
					.750	.232	1.020	.281	.747	.549	.870	.641		2.004	
	5/8-11 UNC	1	1	PS-V40C-75-004	18	5.9	25.9	6.0	18.9	13.9	22.8	16	75°	51	0.08
					.740	.236	1.024	.236	.746	.549	.900	.641		2.008	



H3



H10

A

Accessories

Pull stud

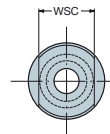
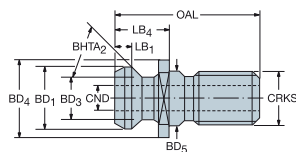
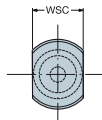
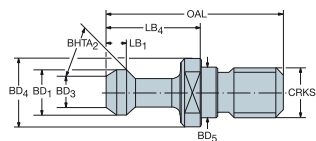
ENG

Pull stud

B

TSYC PS-Vxx

PS-VxxC



C

CAT-V

				Dimensions, mm, inch											Kg
CZC	CRKS	CNSC	CXSC	Ordering code	WSC	LB ₁	LB ₄	CND	BD ₁	BD ₃	BD ₄	BD ₅	BHTA ₂	OAL	
50	1-8 UNC	0	0	PS-V50-90-001	30	10.0	44.9		22.9	17.0	34.7	26	90°	84	0.30
					1.190	.394	1.770		.902	.670	1.370	1.031		3.310	
	M24	1	1	PS-V50C-45-001	30	7.7	25.5	11.5	29.1	19.6	37.0		45°	59	0.15
					1.181	.305	1.006	.453	1.146	.772	1.457			2.323	
	1-8 UNC	1	1	PS-V50C-45-002	31	7.6	25.4	11.9	29.0	20.8	36.5		45°	58	0.18
					1.250	.299	1.000	.469	1.140	.820	1.440			2.300	
	1-8 UNC	1	1	PS-V50C-45-003	30	10.4	45.4	6.4	22.9	16.7	34.7	26	45°	84	0.25
					1.190	.409	1.790	.250	.900	.660	1.370	1.031		3.330	
	1-8 UNC	1	1	PS-V50C-45-004	31	7.6	25.4	10.0	29.0	20.8	36.5		45°	65	0.18
					1.250	.299	1.000	.394	1.140	.820	1.437			2.575	
	1-8 UNC	1	1	PS-V50C-45-005	31	7.6	25.4	11.9	29.0	20.8	36.3	26	45°	58	0.20
					1.250	.299	1.000	.468	1.140	.820	1.430	1.031		2.300	
	M24	1	1	PS-V50C-45-006	30	7.6	25.4	11.9	29.0	20.8	36.5	25	45°	65	0.19
					1.187	.299	1.000	.394	1.140	.820	1.437	.984		2.575	
	1-8 UNC	1	1	PS-V50C-45-007	31	7.6	25.4	11.9	29.0	20.8	36.3	26	45°	65	0.20
					1.250	.300	1.000	.468	1.140	.820	1.430	1.026		2.575	
	1-8 UNC	1	1	PS-V50C-45-008	29	10.4	45.4	9.9	22.9	16.9	38.1	26	45°	85	0.20
					1.180	.413	1.791	.390	.903	.668	1.500	1.026		3.355	
	1-8 UNC	1	1	PS-V50C-60-001	29	9.9	44.9	6.1	23.0	17.0	38.1	25	60°	82	0.29
					1.180	.390	1.770	.240	.904	.670	1.500	1.020		3.250	

F

G

H

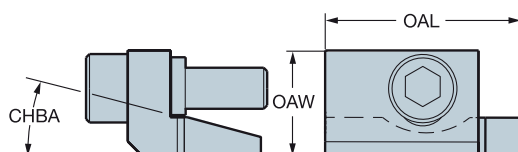


H3



H10

Clamping wedge



	Dimensions		
Ordering code	OAL	OAW	CHBA
QS-130B	28	15.1	15°
QS-140RB	29	14.7	15°
QS-140BB	29	14.7	15°
QS-351B	20	13.5	24°/20°

Wedge	MTM	Model	Shank	
			ISO metric	ANSI inch
For back position for QS-HP				
QS-130B	Tsugami	BO, BS, BU, BM, BA, BW	1212, 1616	08, 10
	Tornos	Delta 12/20	1212, 1616	08, 10
Rear bottom shank, front position				
QS-140RB	Tsugami	S205, S206, S207	1212	08
QS-140BB	Tsugami	S205, S206, S207	1212	08
For back position				
QS-351B	Star	SB16, SC20, SE12/16	1010	06
		SE16B, SR16, SR20, SR20R	1212	08
		S25/32J	1616	10

Note! The information above is a guide to choosing the correct tooling combinations. However, you should always perform a practical test to ensure the correct fit.

A

Coolant connection kit

B

QS-HP80-M6-xxxx-1



QS-HP80-PTFE



QS-HP100-M6-AN4-A



C

		Dimensions, mm	
CZC _{MS}	CZC _{WS}	Ordering code	OAL
NPT 1/8"	M6	QS-HP80-M6-NPT18-1	500
G 1/8" (BSPP)	M6	QS-HP80-M6-G18-1	500
R 1/8" (BSPT)	M6	QS-HP80-M6-R18-1	500
AN-3	M6	QS-HP80-M6-AN3-1	500
AN-4	M6	QS-HP80-M6-AN4-1	500
M10 x 1.5	M6	QS-HP80-M6-M10-1	500
AN -4	M6	QS-HP100-M6-AN4-A	33
-	-	QS-HP80-PTFE	1000

D

E

F

G

H



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ISO 13399 is an international standard that strives to simplify the exchange of data for cutting tools. You will notice a slight difference through the new parameters and descriptions of each tool.

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What does this mean to you?

Basically, it means that your systems can talk to ours, as they all speak the same language. Download product data from our web site and use it directly in your CAD/CAM software to assemble tools that you use in production. No need to look for information in catalogues and interpret data from one system to another. Imagine how much time this will save you!

Short name	Preferred Name
ADJLN	Minimum adjustment limit
ADJLX	Maximum adjustment limit
ADJRG	Adjustment range
ALP	Clearance angle axial
AN	Clearance angle major
ANN	Clearance angle minor
APMX	Depth of cut maximum
APMX_EFW	Depth of cut maximum - end feed
APMX_FFW	Depth of cut maximum - side feed
AZ	Maximum plunge depth
B	Shank width
BAWS	Body angle workpiece side
BAMS	Body angle machine side
BBD	Balanced by design
BBR	Balanced by rotational test
BCH	Corner chamfer length
BD	Body diameter
BHTA	Body half taper angle
BN	Face land width
BS	Wiper edge length
BSG	Basic standard group
BSR	Wiper edge radius
CDX	Cutting depth maximum
CEMR	Cutting edge major radius
CF	Spot chamfer
CHBA	Chamfer body angle
CHBL	Chamfer body length
CHW	Corner chamfer width
CICT	Cutting item count
CICT _E	Cutting item count - end position
CICT _P	Cutting item count - peripheral position
CICT _S	Cutting item count - side position
CICT _T	Cutting item count - total
CND	Coolant entry diameter
CNSC	Coolant entry style code
CNT	Coolant entry thread size
COATING	Coating
CP	Max coolant pressure
CRKS	Connection retention knob thread size
CRNT	Coolant radial entry thread size
CTPT	Operation type
CUTDIA	Work piece parting diameter maximum
CW	Cutting width
CWN	Minimum cutting width
CWTOLL	Cutting width lower tolerance
CWTOLU	Cutting width upper tolerance
CWX	Cutting width maximum
CXSC	Coolant exit style code
CZC	Connection size code
CZC _{MS}	Connection size code machine side
CZC _{WS}	Connection size code workpiece side
D1	Fixing hole diameter
DAH	Diameter access hole
DAXIN	Axial groove inside diameter minimum

A	DAXN	Minimum axial groove outside diameter
	DAXX	Axial groove outside diameter maximum
	DBC	Diameter bolt circle
B	DC	Cutting diameter
	DCB	Connection bore diameter
	DCBN	Connection bore diameter minimum
	DCBX	Connection bore diameter maximum
	DCF	Cutting diameter face contact
	DCIN	Cutting diameter internal
	DCN	Cutting diameter minimum
	DCON	Connection diameter
	DCON _{MS}	Connection diameter machine side
	DCON _{WS}	Connection diameter workpiece side
	DCPS	Data chip provision size
	DCSF _{MS}	Contact surface diameter machine side
C	DCSF _{WS}	Contact surface diameter workpiece side
	DCX	Cutting diameter maximum
	DHUB	Hub diameter
	DIX	Tool changer interference diameter maximum
	DMIN	Minimum bore diameter
	DMM	Shank diameter
	DN	Neck diameter
	DRVCT	Drive count
	DSGN	Design
	EPSR	Insert included angle
	FHA	Flute helix angle
	FLGT	Flange thickness
	FTDZ	For thread diameter size
	H	Shank height
	HA	Thread height theoretical
	HB	Thread height difference
	HBH	Head bottom offset height
	HC	Thread height actual
	HF	Functional height
	HRY	Lowest point from reference plain
D	HTB	Body height
	HTH	Height
	IC	Inscribed circle diameter
	INSL	Insert length
	INSUC	Insert usage code
	IZC	Insert size code
	KAPR	Tool cutting edge angle
	KAPR_EFW	Tool cutting edge angle - end feed
	KCH	Corner chamfer
	KRINS	Major cutting edge angle
	KWW	Keyway width
	L	Cutting edge length
	LAMS	Inclination angle
	LB	Body length
	LCF	Length chip flute
	LCOX	Cut off length maximum
	LE	Cutting edge effective length
F	LF	Functional length
	LFN	Minimum functional length
	LH	Head length
	LPR	Protruding length
	LS	Shank length
	LSC	Clamping length
	LSCN	Clamping length minimum
	LSCS	Distance to clamping start
	LSCX	Clamping length maximum
	LSD	Dead shank length
	LU	Usable length (max. recommended)
	LU_BFW	Usable length - back facing
	LUX	Usable length maximum
	MHD	Mounting hole distance
G	MIID	Master insert identification
	MIID _E	Master insert identification - end position
	MIID _S	Master insert identification - side position
	MIID _C	Master insert identification - central position
	MIID _P	Master insert identification - peripheral position
	MIID _I	Master insert identification - intermediate position
	MMCC	Code for preset torque
	MMCX	Max. cutting torque
	NOF	Flute count
	NT	Tooth count
H	OAH	Overall height
	OAL	Overall length
	OAW	Overall width
	OH	Overhang recommended

OHN	Overhang minimum
OHX	Overhang maximum
ORDCODE	Ordercode
PCL	Peripheral cylindrical length
PDX	Profile distance ex
PDY	Profile distance ey
PHD	Premachined hole diameter
PHDX	Maximum premachined hole diameter
PL	Point length
PNA	Profile included angle
PRFRAD	Profile radius
PRSPC	Profile specification
PSIR	Tool lead angle
PSIRL	Cutting edge angle major left hand
PSIRR	Cutting edge angle major right hand
PSW	Premachined slot width
RADH	Radial body height
RADW	Radial body width
RAR	Right hand relief angle
RE	Corner radius
REEQ	Theoretical radius value required for programming purpose
REL	Corner radius left
RER	Corner radius right
RETOLL	Corner radius lower tolerance
RETOLU	Corner radius upper tolerance
RGL	Regrind length
RMPX	Maximum ramping angle
RPMX	Rotational speed maximum
S	Insert thickness
SDL	Step diameter length
SIG	Point angle
SPTL	Splitline
SSC	Insert seat size code
SSC _E	Insert seat size code - end position
SSC _P	Insert seat size code - peripheral position
SSC _S	Insert seat size code - side position
STA	Step included angle
SUBSTRATE	Substrate
TCDC	Tolerance class cutting diameter
TCDCON	Connection diameter tolerance
TCDMM	Shank diameter tolerance
TCHA	Achievable hole tolerance
TCHAL	Achievable hole tolerance lower
TCHAU	Achievable hole tolerance upper
TCT	Tolerance class tool
TCTR	Thread tolerance class
TD	Thread diameter
TDZ	Thread diameter size
TFLA	Tap floating length ahead
TFLB	Tap floating length behind
TG	Taper gradient
THBTP	Thread back taper property
THCA	Thread helix correction angle
THCHT	Threading chamfer type
THFT	Form type
THFTS	Thread form standard series
THL	Thread length
THUB	Hub thickness
TP	Thread pitch
TPI	Threads per inch
TPIN	Threads per inch minimum
TPIX	Threads per inch maximum
TPN	Thread pitch minimum
TPT	Thread profile type
TPX	Maximum thread pitch
TRMAX	Tap range max
TQ	Torque
TSYC	Tool style code
TTP	Thread type
ULDR	Usable length diameter ratio
VCX	Maximum cutting speed
W1	Insert width
WB	Body width
WF	Functional width
WFCIRP	Width to cutting item reference point
WSC	Clamping width
WT	Weight of item
ZEFF	Face effective cutting edge count
ZEFP	Peripheral effective cutting edge count (ZEFP)
ZWX	Maximum number of Wiper inserts

Safety information in connection with grinding of cemented carbide

Material composition

Most metal products contain tungsten carbide and cobalt. Other substances that may be present in hard metal are titanium carbide, tantalum carbide, niobium carbide, chromium carbide, molybdenum carbide or vanadium carbide. Some grades contain titanium carbonitride and/or nickel.

Routes of exposure

Grinding or heating of hard metal blanks or hard metal products will produce products that give off dangerous dust and fumes. Avoiding ingestion and contact with skin or eyes is very important.

Acute toxicity

Intake of the aforementioned substances is toxic. Inhalation may cause irritation and inflammation of the airways. Significantly higher acute inhalation toxicity has been reported during simultaneous inhalation of cobalt and tungsten carbide compared to inhalation of cobalt alone.

Skin contact can cause irritation and rash. Sensitive individuals may even experience an allergic reaction.

Chronic toxicity

Repeated inhalation of aerosols containing cobalt may cause obstruction of the airways. Prolonged exposure to increased concentrations may cause lung fibrosis or lung cancer. Epidemiological studies indicate that workers previously exposed to high concentrations of tungsten carbide/cobalt carried an increased risk of developing lung cancer.

Cobalt and nickel are potent skin sensitizers. Repeated or prolonged contact can cause irritation and sensitization.

Risk phrases

Toxic: danger of serious damage to health by prolonged exposure through inhalation

Toxic when inhaled

Limited evidence of a carcinogenic effect.

May cause sensitization by inhalation and skin contact

Preventive measures

Avoid formation and inhalation of dust. Use adequate local exhaust ventilation to keep personal exposure well below nationally authorised limits.

If ventilation is not available or adequate, use respirators appropriately approved for the purpose.

Use safety goggles or glasses with side shields when necessary.

Avoid repeated skin contact. Wear suitable gloves. Wash skin thoroughly after handling.

Use suitable protective clothing. Launder clothing if needed.

Do not eat, drink or smoke in the working area. Wash skin thoroughly before eating, drinking or smoking.

For the sake of the environment

Get into the Sandvik Coromant Recycling Concept (CRC) now!

The Sandvik Coromant Recycling Concept (CRC) is a comprehensive service for used carbide inserts and solid carbide tools offered by Sandvik Coromant to all its customers.

In the light of increasing consumption of non-renewable raw materials, the economic management of dwindling resources is a duty owed by all manufacturers.

Sandvik Coromant is playing its part by offering to collect used carbide inserts and solid carbide tools and recycle them in the most environmentally friendly way.

All used carbide inserts are collected in the collection box at the workplace.

When the collection box is sufficiently full, its contents are transferred to the transport box. The full transport box is then sent to the nearest Sandvik Coromant office or to your Sandvik Coromant dealer who can also give you more information.

The benefits of the CRC speak for themselves

- A worldwide ISO and OHAS certified recycling system.
- Open to all Sandvik Coromant customers.
- Simple procedure with collection and transport boxes.
- Less waste, easing the burden on the environment.
- Better utilisation of resources.
- Other manufacturers' carbide inserts are also accepted.



Order collection boxes for each lathe, milling machine, drill or for your machining centre. We recommend one collection box for inserts and one separate box for solid carbide tools for each cutting workplace.

For detailed instructions on how to sell your used cemented carbide, please visit www.sandvik.coromant.com and select your market.

Collection box (yellow):

Transport box for solid carbide tools (plywood):

Transport box inserts (plywood):

Order numbers

91617

92994

92995

General turning inserts

Inserts, metric

C	N	M	G	12	04	08	-			-	PF
1	2	3	4	5	6	7		8	9		12

Inserts, inch

C	N	M	G	4	3	2	-			-	PF
1	2	3	4	5	6	7		8	9		12

Inserts, advanced cutting materials, metric

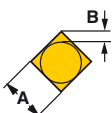
C	N	M	G	12	04	08	-	T	010	20
1	2	3	4	5	6	7		8	10	11

Inserts, advanced cutting materials, inch

C	N	G	A	4	3	2	-	T	03	20
1	2	3	4	5	6	7		8	10	11

1 Insert shape	
C 	D 
K 	R 
S 	T 
V 	W 

3 Tolerances, metric		
Class	S	IC / W1
G	±0.13	±0.025
M	±0.13	±0.05 – ±0.15 ¹⁾
U	±0.13	±0.08 – ±0.25 ¹⁾
E	±0.025	±0.025
¹⁾ Varies depending on the size of IC. See below.		
Inscribed circle IC mm	Tolerance class	
	M	U
3.97		
5.0		
5.56		
6.0		
6.35		
8.0		
9.525		
10.0		
12.0	±0.05	±0.08
12.7		
15.875		
16.0	±0.10	±0.18
19.05		
20.0		
25.0	±0.13	±0.25
25.4		
31.75	±0.15	±0.25
32.0		
For positive inserts iC is valid for a sharp corner. See cutting edge condition F. (Picture 8).		

3 Tolerances, inch		
		
A: Theoretical diameter of the insert inscribed circle. T: Thickness of the insert. B: See figures.		
Tolerances in inch		
Class	B:	A: T
A	±.0002	±.001 ±.001
B	.0002	.001 .005
C	.0005	.001 .001
D	.0005	.001 .005
E	.001	.001 .001
F	.0002	.0005 .001
G	.001	.001 .005
H	.0005	.0005 .001
J	.0002	.002-.005 .001
K	.0005	.002-.005 .001
L	.001	.002-.005 .001
M	.002-.005	.002-.005 .005
U	.005-.012	.005-.010 .005
N	.002-.010	.002-.004 .001

2 Insert clearance angle	
B 	C 
E 	N 
P 	O Specific description

General turning inserts

4 Insert type		5 Insert size														
A		Q														
G		R														
M		T														
N		W														
P		X														
				Special design												
Insert size				Cutting edge length, metric												
				IC mm	IC inch	C	D	R	S	T	V	W	K			
 Inscribed circle is indicated in 1/8". 1) For insert shape K (KNMX, KNUX) only the theoretical cutting edge length is indicated.				3.18	1/8"						05					
				3.97	5/32"					06						
				5.0	7/32"					09						
				5.56												
				6.0												
				6.35	1/4"	06	06			11	11	04				
				8.0												
				9.525	3/8"	09	11			08						
				10.0	10.0					09	16	16	06			
				12.0						10						
				12.7	1/2"	12	15			12	22		08			
				13			13				22	13				
				15.875	5/8"	16				15	27					
				16.0						16						
				19.0	3/4"	19				19	33					
				20.0						20						
				25.0						25 ¹⁾						
				25.4	1"	25				25 ²⁾	25					
1) Metric base design				31.75	1/4"					31						
2) Inch base design				32						32						

6 Insert thickness, S mm, inch				7 Nose radius, RE mm, inch				8 Cutting edge condition																																																																																																																					
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9 Hand of tool		10 Chamfer width metric, inch		11 Chamfer angle													
R																	
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12 Manufacturer's option	
The ISO code consists of nine symbols including 8 and 9 which are used only when required. In addition the manufacturer may add further three symbols e. g.	
- WF = Wiper – finishing - WMX = Wiper, medium machining - PF = ISO P – finishing - PR = ISO P – roughing	

6 Insert thickness, S mm, inch		
Metric		Inch
01 S = 1.59	1	S = .0625
T1 S = 1.98	(1.2)	S = .075
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09 S = 9.52	6.3	S = .394
10 S = 10.00	7.6	S = .475
12 S = 12.00		

7 Nose radius, RE mm, inch			
Metric: Code	Value	Inch: Code	Value
00*	0	00	0
01	0.1	.30	.004
		03 (older)	.004
02	0.2	.50	.008
		0 (older)	.008
04	0.4	1	0.16
05	0.5		
08	0.8	2	.031
10	1.0		
12	1.2	3	.047
15	1.5		
16	1.6	4	.063
24	2.4	6	.094
32	3.2	8	.125

* Code 00 or M0 in position 7 is used on round inserts in the metric code. M0 shows that the diameter of the insert has a metric even dimension. In the inch code for round inserts, position 7 isn't used at all.

8 Cutting edge condition		
F		Sharp cutting edge
A		ER treated cutting edge (ANSI)
E		ER treated cutting edge
T		Negative land
K		Double negative lands
S		Negative land and ER treated cutting edge

9 Hand of tool	
R	
L	
N	

10 Chamfer width metric, inch	
	Metric:
	010 BN = 0.10
	025 BN = 0.25
	070 BN = 0.70
	150 BN = 1.50
	200 BN = 2.00
	Inch:
	03 BN = .003
	08 BN = .008
	30 BN = .030
	60 BN = .060
	80 BN = .080

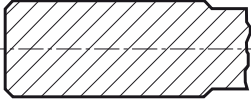
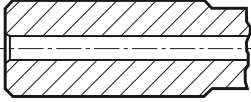
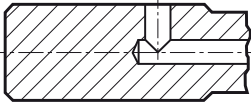
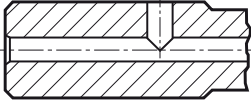
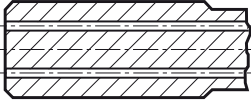
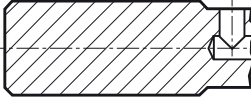
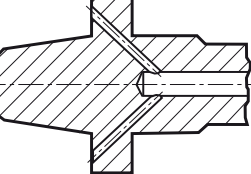
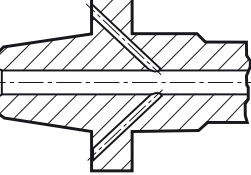
11 Chamfer angle	
	15 GB = 15°
	20 GB = 20°

12 Manufacturer's option	
The ISO code consists of nine symbols including 8 and 9 which are used only when required. In addition the manufacturer may add further three symbols e. g.	

- WF = Wiper – finishing
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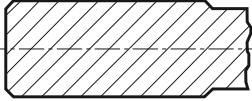
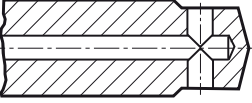
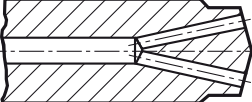
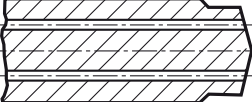
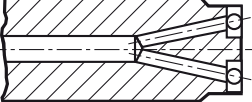
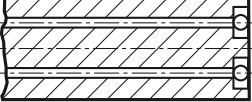
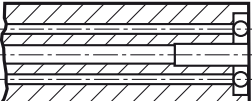
CNSC

Coolant entry style code

Code	Description	Image
0	Without coolant	
1	Axial concentric entry	
2	Radial entry	
3	Axial concentric and radial entry	
4	Axial concentric entry on circle	
5	Radial entry before adaptor	
6	Decentral over flange	
7	Decentral over flange and axial	
8	Decentral over slots on the shank	

CXSC

Coolant exit style code

Code	Description	Image
0	No coolant exit	
1	Axial concentric exit	
2	Radial exit	
3	Axial inclined exit	
4	Axial concentric on circle	
5	Axial inclined exit with nozzle, adjustable	
6	Decentral exit with nozzle, adjustable	
7	Decentral over slots on the shank	
8	Axial or decentral with nozzle, adjustable	

Code	Page	Code	Page	Code	Page
132L	G2	S			
2P050-OA	D11	SBMT-XH	A39		
2P051-OA	D12	SCFCR..CBX	E17		
2P350-OA	D13	SCFCR..CDX	E19		
2P460-OA	D14	SCMT	A38,A39		
415..Axx	D5	SNMG	A19,A20,A21,A22,A23		
415..EHxx	D6	SNMM	A21,A22		
415..Txx	D7	SPMT	E16		
600..Cx	D8	SSSPR..CCX	E18		
600..ML	D10	SSTPR..CCX	E18		
600..Qxx	D9	SSYPR..CBX	E17		
725..Cx	D2	SSYPR..CDX	E19		
725..Qxx	D3	STFCR..CBX	E17		
745R/L..E	D4	STFCR..CDX	E19		
820..SP..Y	E13, E14	T			
820D..SP..Y	E15	TCMT	A40,A41		
970-EHxx	F2	TNMG	A24,A25,A26,A27		
A		TNMM	A26,A27		
A415..EHxx	D6	TR-DC..	A44		
A415..Txx	D7	TR-VB..-F	A44		
A600..Oxx	D10	V			
A600..Rxx	D9	VBMT	A42,A43		
A725..Rxx	D3	VCMT	A42		
B		VNMG	A28		
BR10	E2, E3	W			
BR20	E4, E5, E6	WNMG-MF	A29,A30		
BR20D	E7	WNMX	A31		
BR30	E8, E9, E10, E11, E12				
C					
CCMT	A33,A34				
CNMG	A8,A9,A10,A11,A13				
CNMM	A11,A12				
CP-25BR/L	A5				
CP-30AR/L	A4				
CP-A-L5	A2				
CP-B-M5	A2				
Cx-APB	C5				
Cx-ASHA	C3				
Cx-ASHR/L	C2				
Cx-ASHR/L45	C4				
Cx-ASHS..HP	C4				
Cx-CP..AR/L	A3				
Cx-CP..BR/L	A3				
CXS-xx	A45				
D					
DCMT	A35,A36				
DCMX-WM	A35				
DNMG	A14,A15,A16,A17				
DNMM	A16,A17				
DNMX-WM	A14				
E					
EH-BBxx	F3				
H					
HTxx-A	C6, C7				
P					
PS-Bxx	G4				
PS-lxx	G3				
PS-Vxx	G5, G6				
Q					
QS (WEDGE)	G7				
QS-CP..AR/L	A6				
QS-CP..BR/L	A7				
QS-HP80	G8				
QS-SMALR/L..X..HP	B2, B3				
R					
RCGX..E	A32				
RCMT	A37				
RCMX	A18				
RNGN	A32				
RNMG	A18				
RPGN..E	A32				
RPGX..E	A32				