

BOR CARBIDE



BOR CARBIDE
Deep Hole Drilling Tools

Deep Hole Drilling



DEEP DRILLING BTA SYSTEM

Applications	Drill Heads					Counterboring Heads			
									
Drill Diameter (mm)	25 - 65	62 - 135	14 - 40	25 - 65	38 - 150	43 - 120	43 - 120	151 - 214	215 - 293
Page	A-03	A-04	A-14	A-17	A-18	A-05	A-06	A-19	A-20

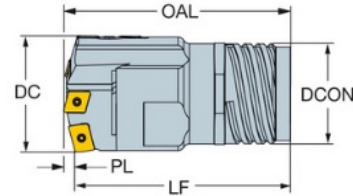


GUNDRILLS

Gundrills				
Drill Diameter (mm)	10mm-13mm	14mm-20mm	21mm-32mm	13mm-40mm
Page	A-33	A-34	A-35	A-36

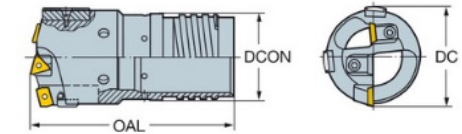
Deep Hole Drilling - Deep Drilling BTA System

Deep hole machining in all workpiece materials



Diameter range(mm)	Intermediate insert	Central insert	Peripheral insert	Support pads
25 - 28.5	800-050308M-C-G	800-050308M-I-G	800-060308H-P-G	800-06A
28.6 - 31.99	800-06T308M-C-G	800-050308M-I-G	800-060308H-P-G	800-06A
32 - 33.99	800-06T308M-C-G	800-06T308M-I-G	800-08T308H-P-G	800-07A
34 - 35	800-08T308M-C-G	800-06T308M-I-G	800-08T308H-P-G	800-07A
35.1 - 38.99	800-08T308M-C-G	800-08T308M-I-G	800-08T308H-P-G	800-07A
39 - 43	800-08T308M-C-G	800-08T308M-I-G	800-09T308H-P-G	800-08A
44 - 47	800-10T308M-C-G	800-08T308M-I-G	800-09T308H-P-G	800-08A
48 - 52	800-10T308M-C-G	800-08T308M-I-G	800-11T308H-P-G	800-10A
53 - 56	800-10T308M-C-G	800-12T308M-I-G	800-11T308H-P-G	800-10A
57 - 59	800-10T308M-C-G	800-12T308M-I-G	800-11T308H-P-G	800-12A
60 - 65	800-12T308M-C-G	800-12T308M-I-G	800-11T308H-P-G	800-12A

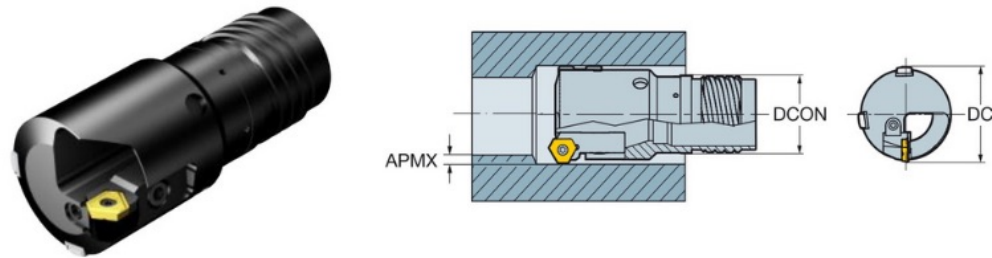
Productive deep hole machining with indexable insert design



Diameter range(mm)	Intermediate insert	Central insert	Peripheral insert	Support pads
62.00-65.00	TPMT16T312RG	TPMT16T3128G	R424.9-13T308PG	50*14*7
65.01-66.99	TPMT16T312RG	TPMT16T3128G	R424.9-13T308PG	50*16*8
67.00-72.99	TPMT16T312RG	TPMT16T3128G	R424.9-13T308PG	50*16*8
73.00-73.99	TPMT16T312RG	TPMT16T3128G	R424.9-137308PG	50*16*8
74.00-79.99	TPMT16T312RG	TPMT16T3128G	R424.9-180608PG	50*16*8
80.00-83.99	TPMT16T312RG	TPMT16T3128G	R424.9-180608PG	50*16*8
84.00-86.99	TPMT16T312RG	TPMT220612RG	R424.9-180608PG	50*16*8
87.00-93.99	TPMT16T312RG	TPMT2206128G	R424.9-180608PG	50*16*8
94.00-99.99	TPMT220612RG	TPMT220612RG	R424.9-180608PG	50*16*8
100.00-105.99	TPMT220612RG	TPMT220612RG	R424.9-180608PG	50*20*9
106.00-111.99	TPMT16T312RG	TPMT16T3128G	R424.9-13T308PG	50*20*9
112.00-119.99	TPMT16T312RG	TPMT16T3128G	R424.9-137308PG	50*20*9
120.00-123.99	TPMT16T312RG	TPMT16T3128G	R424.9-180608PG	50*20*9
124.00-129.99	TPMT16T312RG	TPMT16T3129G	R424.9-180608PG	50*20*9
130.00-135.99	TPMT16T312RG	TPMT220612RG	R424.9-180608PG	50*20*9

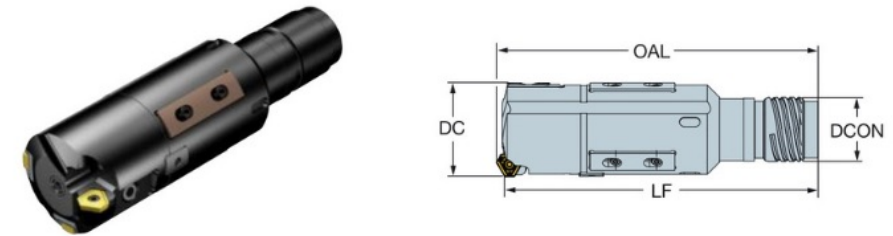
Deep Hole Drilling - Deep Drilling BTA System

Single indexable insert design - close and normal tolerances



Diameter range(mm)	inserts	APMX(mm)
43.01-58.00	TXN160408	6.0
65.00-85.00	TXN250408	10.0
90.00-120.00	TXN400708	13.0

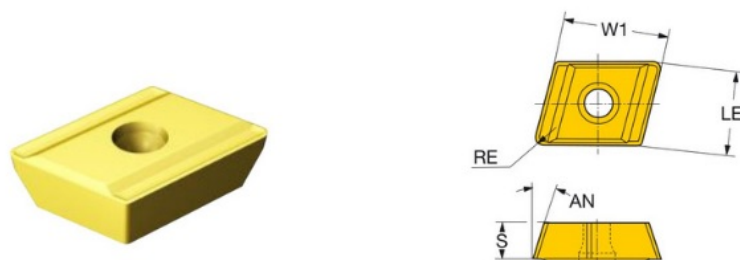
818 Process security in counterboring with indexable insert design



Diameter range(mm)	inserts	APMX(mm)
43.01-58.00	TXN160408	6.0
65.00-85.00	TXN250408	10.0
90.00-120.00	TXN400708	13.0

Deep Hole Drilling - Deep Drilling BTA System

CoroDrill® 800 insert or drilling



Central insert

Shape		Type	PVD			AN
			YP3025	YP3225	YP3330	
	05	800-05 03 08M-C-G	•	•	•	17°
	06	800-06 T3 08M-C-G	•	•	•	17°
	08	800-08 T3 08M-C-G	•	•	•	17°
	10	800-10 T3 08M-C-G	•	•	•	17°
	12	800-12 T3 08M-C-G	•	•	•	17°
	05	800-05 03 08M-C-L	•	•	•	17°
	06	800-06 T3 08M-C-L	•	•	•	17°
	08	800-08 T3 08M-C-L	•	•	•	17°
	10	800-10 T3 08M-C-L	•	•	•	17°
	12	800-12 T3 08M-C-L	•	•	•	17°

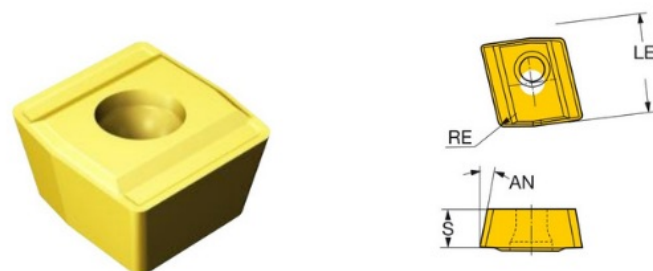
CoroDrill® 800 insert or drilling



Intermediate insert

Shape		Type	PVD			AN
			YP3025	YP3225	YP3330	
	05	800-05 03 08M-I-G	•	•	•	17°
	06	800-06 T3 08M-I-G	•	•	•	17°
	08	800-08 T3 08M-I-G	•	•	•	17°
	12	800-12 T3 08M-I-G	•	•	•	17°
	05	800-05 03 08M-I-L	•	•	•	17°
	06	800-06 T3 08M-I-L	•	•	•	17°
	08	800-08 T3 08M-I-L	•	•	•	17°
	12	800-12 T3 08M-I-L	•	•	•	17°

CoroDrill® 800 insert or drilling

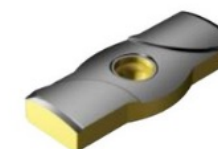


Peripheral insert

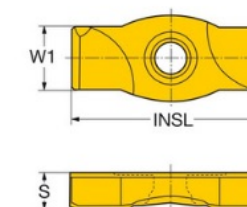
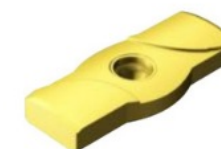
Shape		Type	PVD			AN
			YP3025	YP3225	YP3330	
	06	800-0603 08H-P-G	•	•	•	11°
	08	800-08 T3 08H-P-G	•	•	•	11°
	09	800-09 T3 08H-P-G	•	•	•	11°
	11	800-11 T3 08H-P-G	•	•	•	11°
	06	800-06 03 08H-P-L	•	•	•	11°
	08	800-08 T3 08H-P-L	•	•	•	11°
	09	800-09 T3 08H-P-L	•	•	•	11°
	11	800-11 T3 08H-P-L	•	•	•	11°

Support pads or CoroDrill® 800 solid drill heads

Support pad PM1



Support pad P1 and M1



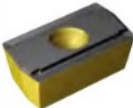
Ordering code	Dimensions,mm,inch					
	W1	W1"	INSL	INSL'	S	S"
800-06A	6	.236	18	.709	3.0	.118
800-07A	7	.276	20	.787	3.5	.138
800-08A	8	.315	25	.984	4.5	.177
800-10A	10	.394	30	1.181	4.5	.177
800-12A	12	.472	35	1.378	5.5	.216

Deep Hole Drilling - Deep Drilling BTA System

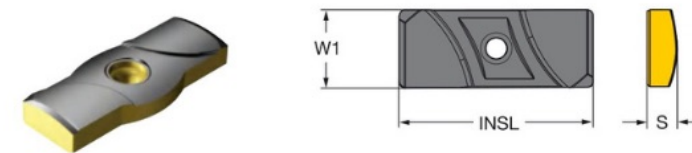
T-MA ® inserts or 424.10 and 801



Peripheral insert

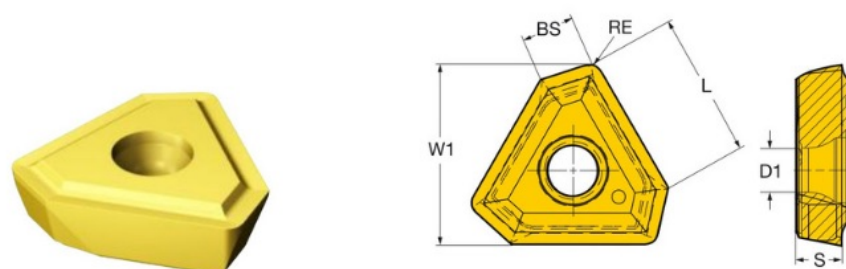
Shape		Type	PVD		
			YP3025	YP3225	YP3330
	13	R424.9-13 T3 08-22	•	•	•
		R424.9-13 T3 08-23	•	•	•
	18	R424.9-18 06 08-22	•	•	•
		R424.9-18 06 08-23	•	•	•
	13	R424.9-13 T3 08-24	•	•	•
	18	R424.9-18 06 08-24	•	•	•

Support pads for CoroDrill®801, CoroDrill®818 and T-MAX 424.10

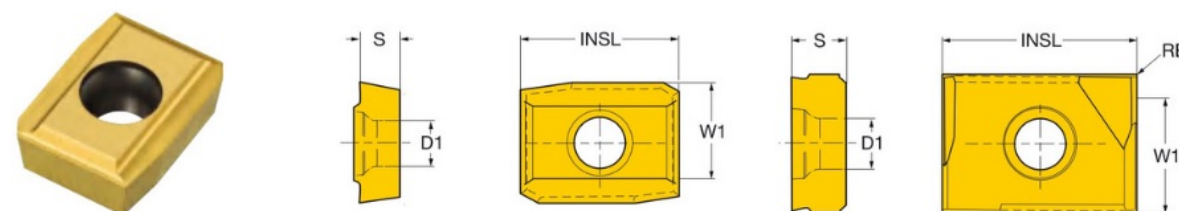


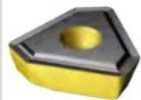
Drill head dia.	Support pads	Dimensions,mm,inch					
		W1	W1"	INSL	INSL"	S	S"
63.5-74.99(2.480-2.952)	800-14 D065	14	0.551	35	1.379	7.0	0.276
75.0-84.99(2.953-3.346)	800-16 D075	14	0.551	35	1.379	7.0	0.276
85.0-99.99(3.346-3.936)	800-18 D085	14	0.551	35	1.379	7.0	0.335
100-109.99(3.937-4.330)	800-20 D100	20	0.787	50	1.969	8.5	0.276
110-119.99(4.331-4.724)	800-22 D110	20	0.787	50	1.969	8.5	0.335
120-129.99(4.724-5.118)	800-24 D120	20	0.787	50	1.969	8.5	0.335
130-139.99(5.118-5.511)	800-26 D130	20	0.787	50	1.969	8.5	0.335

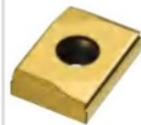
TPGX inserts for drilling



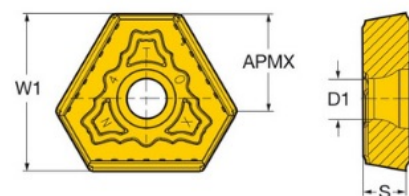
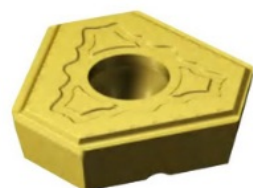
Inserts for skiving



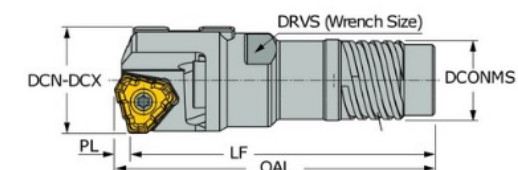
Shape		Type	PVD		
			YP3025	YP3225	YP3330
	14	TPGX 14 03 08R/L-G	•	•	•
		TPGX 14 03 08R/L-L	•	•	•
	17	TPGX 17 04 08R/L-G	•	•	•
		TPGX 17 04 08R/L-L	•	•	•
	24	TPGX 24 05 12R/L-G	•	•	•
		TPGX 24 05 12R/L-L	•	•	•
	28	TPGX 28 07 16R/L-G	•	•	•
		TPGX 28 07 16R/L-L	•	•	•

Shape		Type	PVD		
			YP3025	YP3225	YP3330
	06	R420.37-06 02 00-01	•	•	•
	07	R420.37-07 08 00-01	•	•	•
	11	R420.37-11 12 00-01	•	•	•

Inserts for CoroDrill® 818



14mm - 40mm

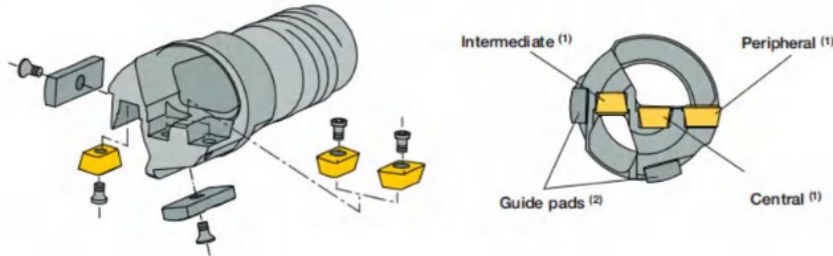


Shape		Type	PVD		
			YP3025	YP3225	YP3330
	16	TXN 160408-A	•	•	•
		TXN 160408-G	•	•	•
		TXN 160408-L	•	•	•
	25	TXN 250408-A	•	•	•
		TXN 250408-G	•	•	•
		TXN 250408-L	•	•	•
	40	TXN 400708-A	•	•	•
		TXN 400708-G	•	•	•
		TXN 400708-L	•	•	•

Diameter range(mm)	Insert	Guide Pads
14.00-15.99	TOGT 070304-DT	GPS-05-18-060
16.00-18.00	TOGT 080305-DT	GPS-05-18-075
18.01-20.00	TOGT 090305-DT	GPS-06-20-085
20.01-21.00	TOGT 100305-DT	GPS-06-20-085
21.01-21.99	TOGT 100305-DT	GPS-06-20-100
22.00-25.00	TOGT 110405-DT	GPS-06-20-100
25.01-28.00	TOGT 120405-DT	GPS-06-20-120
28.01-29.99	TOGT 130408-DT	GPS-06-20-120
30.00-32.00	TOGT 130408-DT	GPS-07-20-120
32.01-39.00	TOGT 140510-DT	GPS-07-20-120
39.01-40.00	TOGT 140510-DT	GPS-08-25-155

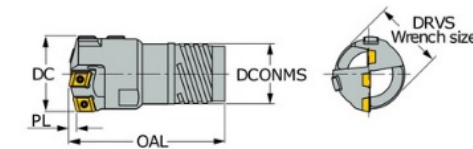
Deep Hole Drilling - Deep Drilling BTA System

25mm - 65mm



Drill Diameter (mm)	Peripheral Insert	Intermediate Insert	Central Insert
25.00-28.00	NPHT 060308R-G-P	NPMT 050304R-G-I	NPMT 050308L-G-C
28.01-29.99	NPHT 060308R-G-P	NPMT 050304R-G-I	NPMT 060408L-G-C
30.00-35.00	NPHT 070408R-G-P	NPMT 060404R-G-I	NPMT 060408L-G-C
35.01-38.00	NPHT 070408R-G-P	NPMT 060404R-G-I	NPMT 080408L-G-C
38.01-39.00	NPHT 090408R-G-P	NPMT 060404R-G-I	NPMT 080408L-G-C
39.01-41.00	NPHT 090408R-G-P	NPMT 060404R-G-I	NPMT 080408L-G-C
41.01-44.00	NPHT 090408R-G-P	NPMT 080404R-G-I	NPMT 080408L-G-C
44.01-45.00	NPHT 090408R-G-P	NPMT 080404R-G-I	NPMT 090408L-G-C
45.01-47.00	NPHT 090408R-G-P	NPMT 080404R-G-I	NPMT 090408L-G-C
47.01-51.00	NPHT 110408R-G-P	NPMT 080404R-G-I	NPMT 090408L-G-C
51.01-54.00	NPHT 110408R-G-P	NPMT 090404R-G-I	NPMT 090408L-G-C
54.01-57.00	NPHT 110408R-G-P	NPMT 090404R-G-I	NPMT 120408L-G-C
57.01-60.00	NPHT 110408R-G-P	NPMT 090404R-G-I	NPMT 120408L-G-C
60.01-64.00	NPHT 130408R-G-P	NPMT 090404R-G-I	NPMT 120408L-G-C
64.01-65.00	NPHT 130408R-G-P	NPMT 120404R-G-I	NPMT 120408L-G-C

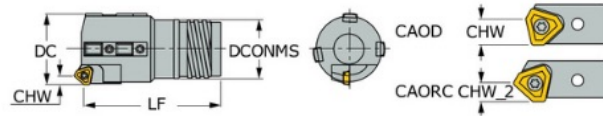
38mm - 150mm



Diameter range(mm)	Intermediate insert	Central insert	Peripheral insert	Guide Pad
38.00-39.99	NPMX 06**R..	NPMX 08*R..	NPMX 08*R..	GPS-08-25-155
40.00-44.99	NPMX 08**R..	NPMX 08**R..	TPMX 14**R..	GPS-08-25-155
45.00-47.99	NPMX 08**R..	TPMX 14**R..	TPMX 14**R..	GPS-10-35-200
48.00-51.99	TPMX 14**R..	TPMX 14**R..	TPMX 14**R..	GPS-10-35-200
52.00-54.99	TPMX 14**R..	TPMX 14**R..	TPMX 17**R..	GPS-10-35-200
55.00-57.99	TPMX 14**R..	TPMX 17**R..	TPMX 17**R..	GPS-10-35-200
58.00-59.99	TPMX 17**R..	TPMX 17**R..	TPMX 17**R..	GPS-10-35-200
60.00-63.99	TPMX 17**R..	TPMX 17**R..	TPMX 17**R..	GPS-14-40-250
64.00-67.99	TPMX 17**R..	TPMX 17**R..	TPMX 24**R..	GPS-14-40-250
68.00-77.99	TPMX 24**R..	TPMX 24**R..	TPMX 17**R..	GPS-14-40-250
78.00-84.99	TPMX 24**R..	TPMX 24**R..	TPMX 24**R..	GPS-14-40-250
85.00-91.99	TPMX 24**R..	TPMX 24**R..	TPMX 28**R..	GPS-14-40-250
92.00-98.99	TPMX 28**R..	TPMX 28**R..	TPMX 24**R..	GPS-14-40-250
99.00-106.99	TPMX 28**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
107.00-117.99	TPMX 17**R..	TPMX 24**R..	TPMX 24**R..	GPS-18-40-300
118.00-135.99	TPMX 24**R..	TPMX 24**R..	TPMX 24**R..	GPS-18-40-300
136.00-144.99	TPMX 24**R..	TPMX 28**R..	TPMX 24**R..	GPS-18-40-300
145.00-150.99	TPMX 24**R..	TPMX 28**R..	TPMX 24**R..	GPS-18-40-300

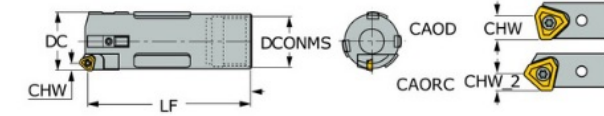
Deep Hole Drilling - Deep Drilling BTA System

151mm-214mm



Diameter range(mm)	Intermediate insert	Central insert	Peripheral insert	Guide Pad
151.00-156.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
157.00-162.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
163.00-168.99	TPMX 28**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
169.00-188.99	TPMX 24**R..	TPMX 24**R..	TPMX 24**R..	GPS-18-40-300
189.00-196.99	TPMX 24**R..	TPMX 28**R..	TPMX 24**R..	GPS-18-40-300
197.00-202.99	TPMX 24**R..	TPMX 28**R..	TPMX 24**R..	GPS-18-40-300
203.00-208.99	TPMX 24**R..	TPMX 28**R..	TPMX 24**R..	GPS-18-40-300
209.00-214.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300

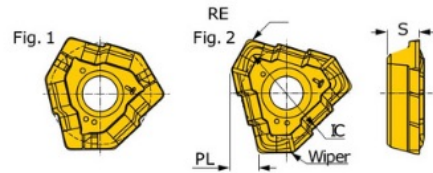
215mm-293mm



Diameter range(mm)	Intermediate insert	Central insert	Peripheral insert	Guide Pad
215.00-220.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
221.00-226.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
227.00-232.99	TPMX 28**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
233.00-247.99	TPMX 24**R..	TPMX 28**R..	TPMX 24**R..	GPS-18-40-300
248.00-253.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
254.00-258.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
259.00-264.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
265.00-271.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
272.00-275.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
276.00-284.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
285.00-289.99	TPMX 24**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300
290.00-293.99	TPMX 28**R..	TPMX 28**R..	TPMX 28**R..	GPS-18-40-300

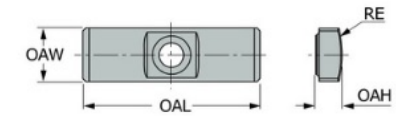
Deep Hole Drilling - Deep Drilling BTA System

TOGT



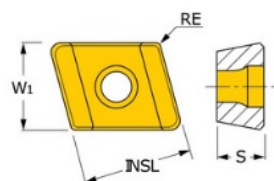
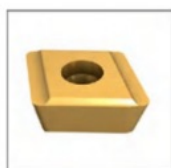
Designation	Dimensions				
	IC	RE	PL	S	Fig.
TOGT 070304-DT	7.69	0.40	1.95	2.30	1
TOGT 080305-DT	8.55	0.50	2.20	2.80	1
TOGT 090305-DT	8.32	0.50	3.00	3.00	2
TOGT 100305-DT	9.23	0.50	3.20	3.30	2
TOGT 110405-DT	10.40	0.50	3.40	3.80	2
TOGT 120405-DT	11.59	0.50	3.60	4.30	2
TOGT 130408-DT	12.85	0.80	4.57	4.76	2
TOGT 140510-DT	16.85	1.00	5.43	5.26	2

GPS



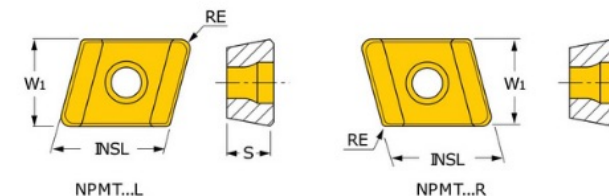
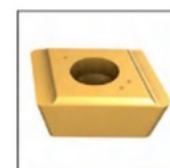
Designation	Dimensions			
	OAW	OAL	OAH	RE
GPS-04-16-045	4.00	16.00	1.80	4.50
GPS-04-16-050	4.00	16.00	1.80	5.00
GPS-04-16-055	4.00	16.00	2.00	5.50
GPS-05-18-060	5.00	18.00	2.50	6.00
GPS-05-18-075	5.00	18.00	2.50	7.50
GPS-06-20-075	6.00	20.00	3.00	7.50
GPS-06-20-085	6.00	20.00	3.00	8.50
GPS-06-20-100	6.00	20.00	3.00	10.00
GPS-06-20-120	6.00	20.00	3.00	12.00
GPS-07-20-120	7.00	20.00	3.50	12.00
GPS-08-25-155	8.00	25.00	4.50	15.50
GPS-10-30-200	10.00	30.00	4.50	20.00
GPS-10-35-200	10.00	35.00	6.00	20.00
GPS-12-35-250	12.00	35.00	5.50	25.00
GPS-14-40-250	14.00	40.00	7.50	25.00
GPS-18-40-300	18.00	40.00	9.00	30.00

NPHT



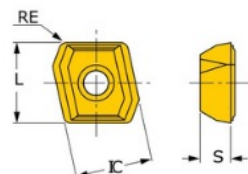
Designation	Dimensions			
	W1	INSL	S	RE
NPHT 060304R-G-P	6.00	8.00	3.00	0.40
NPHT 070404R-G-P	7.50	10.00	4.00	0.40
NPHT 090404R-G-P	9.00	10.00	4.00	0.40
NPHT 110404R-G-P	11.00	10.00	4.00	0.40
NPHT 130404R-G-P	13.00	10.00	4.00	0.40
NPHT 060308R-G-P	6.00	8.00	3.00	0.80
NPHT 070408R-G-P	7.50	10.00	4.00	0.80
NPHT 090408R-G-P	9.00	10.00	4.00	0.80
NPHT 110408R-G-P	11.00	10.00	4.00	0.80
NPHT 130408R-G-P	13.00	10.00	4.00	0.80

NPMT



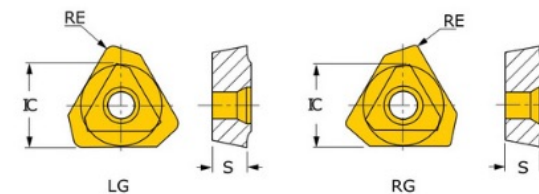
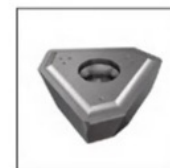
Designation	Dimensions			
	W1	INSL	S	RE
NPMT 050304R-G-I	5.50	8.00	3.00	0.40
NPMT 060404R-G-I	6.50	10.00	4.00	0.40
NPMT 080404R-G-I	8.00	10.00	4.00	0.40
NPMT 090404R-G-I	9.50	10.00	4.00	0.40
NPMT 120404R-G-I	12.50	10.00	4.00	0.40
NPMT 050308L-G-C	5.50	8.00	3.00	0.80
NPMT 060408L-G-C	6.50	10.00	4.00	0.80
NPMT 080408L-G-C	8.00	10.00	4.00	0.80
NPMT 090408L-G-C	9.50	10.00	4.00	0.80
NPMT 120408L-G-C	12.50	10.00	4.00	0.80

NPMX



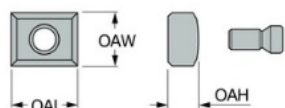
Designation	Dimensions(mm)			
	IC	S	RE	L
NPMX 080304R-B	8.00	3.18	0.40	8.36
NPMX 080308R-G	8.00	3.18	0.80	8.36

TPMX



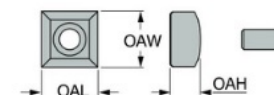
Designation	Dimensions(mm)		
	IC	S	RE
TPMX 140304R-B	8.45	3.50	0.40
TPMX 140308L-G	8.45	3.50	0.80
TPMX 140308R-B	8.45	3.50	0.80
TPMX 140308R-G	8.45	3.50	0.80
TPMX 170404R-B	10.30	4.00	0.40
TPMX 170408L-G	10.30	4.00	0.80
TPMX 170408R-B	10.30	4.00	0.80
TPMX 170408R-G	10.30	4.00	0.80
TPMX 240504R-B	14.20	5.50	0.40
TPMX 240512L-G	14.20	5.50	1.20
TPMX 2405 12R-B	14.20	5.50	1.20
TPMX 240512R-G	14.20	5.50	1.20
TPMX 280708R-B	17.00	7.50	0.80
TPMX 280716L-G	17.00	7.50	1.60
TPMX 280716R-B	17.00	7.50	1.60
TPMX 280716R-G	17.00	7.50	1.60

SGP



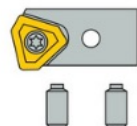
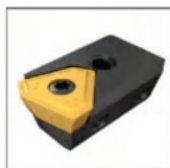
Designation	Dimensions(mm)		
	OAL	OAW	OAH
SGP-01	10.00	6.00	3.00
SGP-02	10.00	8.00	4.50
SGP-03	10.00	10.00	5.00
SGP-04	20.00	14.00	7.00

GPP



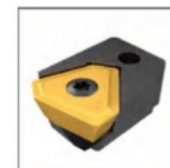
Designation	Dimensions(mm)		
	OAL	OAW	OAH
GPP-06	8.00	8.00	4.50
GPP-07	10.00	10.00	6.00
GPP-08	14.00	14.00	7.50
GPP-09	18.00	18.00	9.00

CAOD



Designation	Locking Screw	Key	Insert	Insert Clamping Screw
CAOD-080	SR 1120176-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-0845	SR 11201756-10	HW 2.5	TPMX 1403..R-G	SR 11201753-3
CAOD-085	SR 11201756-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-103	SR 11201756-12	HW 3.0	TPMX 1704..R-G	SR 11201753-7
CAOD-142	SR 11201756-15	HW 4.0	TPMX 2405..R-G	SR 11201753-9
CAOD-170	SR 11201756-15	HW 4.0	TPMX 2807..R-G	SR 11201753-10

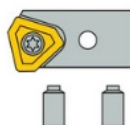
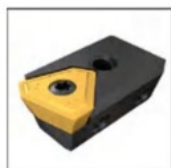
CAID



Designation	Locking Screw	Key	Insert	Insert Clamping Screw
CAID-080	SR 11201753-5	T-9/51	NPMX 0803..R-G	SR 11201753-2
CAID-0845	SR 11201753-6	T-15/51	TPMX 1403..R-G	SR 11201753-3
CAID-085	SR 11201753-5	T-9/51	NPMX 0803..R-G	SR 11201753-2
CAID-103	SR 11201752-1	T-15/51	TPMX 1704..R-G	SR 11201753-7
CAID-142	SR 11201756-7	HW 3.0	TPMX 2405..R-G	SR 11201753-9
CAID-170	SR 11201756-7	HW 3.0	TPMX 2807..R-G	SR 11201753-10

Deep Hole Drilling - Deep Drilling BTA System

CAOD



Designation	Adjustment Screw	Key	Locking Screw	Key	Insert	Insert Clamping Screw
CAOD-080+1	SR 11201755-4	HW 1.5	SR 11201756-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-080+2	SR 11201755-4	HW 1.5	SR 11201756-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-085+1	SR 11201755-7	HW 1.5	SR 11201756-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-085+2	SR 11201755-7	HW 1.5	SR 11201756-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-085+3	SR 11201755-7	HW 1.5	SR 11201756-11	HW 2.0	NPMX 0803..R-G	SR 11201753-2
CAOD-103+1	SR 11201755-8	HW 2.5	SR 11201756-12	HW 3.0	TPMX 1704..R-G	SR 11201753-7
CAOD-103+2	SR 11201755-8	HW 2.5	SR 11201756-12	HW 3.0	TPMX 1704..R-G	SR 11201753-7
CAOD-103+3	SR 11201755-8	HW 2.5	SR 11201756-12	HW 3.0	TPMX 1704..R-G	SR 11201753-7
CAOD-103+4	SR 11201755-8	HW 2.5	SR 11201756-12	HW 3.0	TPMX 1704..R-G	SR 11201753-7
CAOD-142+1	SR 11201755-9	HW 2.5	SR 11201756-15	HW 4.0	TPMX 2405..R-G	SR 11201753-9
CAOD-142+2	SR 11201755-9	HW 2.5	SR 11201756-15	HW 4.0	TPMX 2405..R-G	SR 11201753-9
CAOD-142+3	SR 11201755-9	HW 2.5	SR 11201756-15	HW 4.0	TPMX 2405..R-G	SR 11201753-9
CAOD-142+4	SR 11201755-9	HW 2.5	SR 11201756-15	HW 4.0	TPMX 2405..R-G	SR 11201753-9
CAOD-142+5	SR 11201755-9	HW 2.5	SR 11201756-15	HW 4.0	TPMX 2405..R-G	SR 11201753-9
CAOD-170+1	SR 11201755-11	HW 3.0	SR 11201756-15	HW 4.0	TPMX 2807..R-G	SR 11201753-10
CAOD-170+2	SR 11201755-11	HW 3.0	SR 11201756-15	HW 4.0	TPMX 2807..R-G	SR 11201753-10
CAOD-170+3	SR 11201755-11	HW 3.0	SR 11201756-15	HW 4.0	TPMX 2807..R-G	SR 11201753-10
CAOD-170+4	SR 11201755-11	HW 3.0	SR 11201756-15	HW 4.0	TPMX 2807..R-G	SR 11201753-10
CAOD-170+5	SR 11201755-11	HW 3.0	SR 11201756-15	HW 4.0	TPMX 2807..R-G	SR 11201753-10

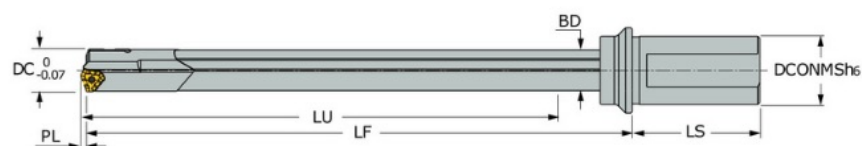
RGP



Designation	Dimensions(mm)		
	OAL	OAW	OAH
RGP01	40.00	10.00	4.00
RGP02	45.00	12.00	5.00
RGP03	50.00	15.00	5.80
RGP04	70.00	20.00	7.50
RGP05	80.00	30.00	12.50
RGP06	100.00	35.00	15.50
RGP07	120.00	40.00	18.50
RGP08	140.00	50.00	22.50
RGP09	150.00	60.00	23.50
RGP10	150.00	70.00	26.50

Deep Hole Drilling - Gun Drills

GD-DH (10.00-13.50)



DC	LF	PL	DCONMS	BD	LS	Insert
10.00	184.50	1.800	20.00	9.60	50.0	ZSGT 06..
10.50	193.00	1.800	20.00	10.00	50.0	ZSGT 06..
11.00	209.00	1.800	20.00	10.60	50.0	ZSGT 06..
11.50	209.00	1.800	20.00	11.10	50.0	ZSGT 06..
12.00	225.00	1.800	20.00	11.50	50.0	LOGT 06..
12.50	226.00	1.800	20.00	12.00	50.0	LOGT 06..
13.00	238.00	1.800	25.00	12.50	56.0	LOGT 06..
13.50	245.00	1.800	25.00	13.00	56.0	LOGT 06..

GD-DH (14-20)



DC	LF	PL	DCONMS	BD	LS	Insert
14.00	261.00	1.95	25.00	13.50	56.0	TOGT 07..
15.00	278.00	1.95	25.00	14.50	56.0	TOGT 07..
16.00	209.00	2.20	25.00	15.50	56.0	TOGT 08..
16.50	294.00	2.20	25.00	15.50	56.0	TOGT 08..
17.00	220.00	2.20	25.00	16.20	56.0	TOGT 08..
17.50	310.00	2.20	25.00	16.20	56.0	TOGT 08..
18.00	232.00	2.20	25.00	16.20	56.0	TOGT 08..
18.50	327.00	3.00	25.00	17.20	56.0	TOGT 09..
19.00	243.00	3.00	25.00	18.20	56.0	TOGT 09..
19.50	343.00	3.00	25.00	18.20	56.0	TOGT 09..
20.00	255.00	3.00	32.00	19.00	60.0	TOGT 09..

Deep Hole Drilling - Gun Drills

GD-DH (21-32)



DC	LF	PL	DCONMS	BD	LS	Insert
21.00	266.00	3.20	32.00	20.00	60.0	TOGT 10..
22.00	278.00	3.40	32.00	21.00	60.0	TOGT 11..
23.00	289.00	3.40	32.00	22.00	60.0	TOGT 11..
24.00	301.00	3.40	32.00	23.00	60.0	TOGT 11..
25.00	312.00	3.40	32.00	24.00	60.0	TOGT 11..
26.00	324.00	3.60	40.00	25.00	70.0	TOGT 12..
27.00	335.00	3.60	40.00	26.00	70.0	TOGT 12..
28.00	337.00	3.60	40.00	27.00	70.0	TOGT 12..
29.00	360.00	4.57	40.00	27.00	69.0	TOGT 13..
30.00	383.00	4.57	40.00	29.00	69.0	TOGT 13..
31.00	383.00	4.57	40.00	29.00	69.0	TOGT 13..
32.00	395.00	4.57	40.00	30.00	69.0	TOGT 13..

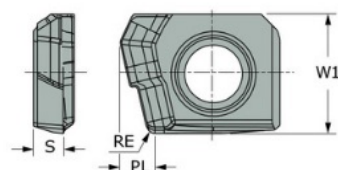
Spare Parts



Diameter Range(mm)	Insert	Solid Carbide Guide Pad
14.00-15.99	TOGT 07..	GPS-05-18-060
16.00-18.00	TOGT 08..	GPS-05-18-075
18.01-20.00	TOGT 09..	GPS-06-20-085
20.01-21.00	TOGT 10..	GPS-06-20-085
21.01-21.99	TOGT 10..	GPS-06-20-100
22.00-25.00	TOGT 11..	GPS-06-20-100
25.01-28.00	TOGT 12..	GPS-06-20-120
28.01-29.99	TOGT 13..	GPS-06-20-120
30.00-32.00	TOGT 13..	GPS-07-20-120
32.01-39.00	TOGT 14..	GPS-07-20-120
39.01-40.00	TOGT 14..	GPS-08-25-155

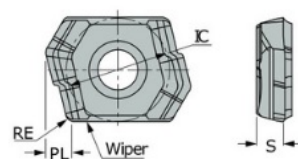
Deep Hole Drilling - Gun Drills

ZSGT



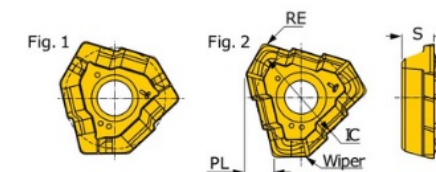
Designation	Dimensions(mm)			
	W1	RE	PL	S
ZSGT 060204R-DT	6.00	0.40	1.800	1.50

LOGT



Designation	Dimensions(mm)			
	IC	RE	PL	S
LOGT 060204R-DT	7.00	0.40	1.800	2.00

LOGT-GT



Designation	Dimensions(mm)				Fig.
	IC	RE	PL	S	
TOGT 070304-DT	7.69	0.40	1.95	230	1
TOGT 080305-DT	8.55	0.50	2.20	2.80	1
TOGT 090305-DT	8.32	0.50	3.00	3.00	2
TOGT 100305-DT	9.23	0.50	3.20	3.30	2
TOGT 110405-DT	10.40	0.50	3.40	3.80	2
TOGT 120405-DT	11.59	0.50	3.60	430	2
TOGT 130408-DT	12.85	0.80	4.57	4.76	2
TOGT 140510-DT	16.85	1.00	5.43	526	2

The Features of CVD Coating

ISO	Grade	Colour	Coating Structure	Features.Application
P Steel	BC1315	Yellow Black	TiCN+Al ₂ O ₃ +(TiN)	Wear-resistant substrate with resistance to plastic deformation, strong and tough coating with excellent bonding force.High-speed, high-efficiency turning of finishing-roughing steel.
	BC1325	Yellow Black	TiCN+Al ₂ O ₃ +(TiN)	A matrix with both wear resistance and chipping resistance,and a tough coating with excellent adhesion.The first choice for Intermittent-general turning of steel.
	BC1335	Yellow Black	TiCN+Al ₂ O ₃ +(TiN)	High toughness matrix,strong and tough coating with excellent bonding force, extremely high processing safety Heavy-duty machining of steel and interrupted turning.
	BC1315A	Yellow Black	TiCN+Al ₂ O ₃ +TiN	High toughness matrix, strong and tough coating with excellnt bonding strength, and extremely high processing safety.Heavy load machining and intermittent turning of steel parts.
	BC1325A	Yellow Black	TiCN+Al ₂ O ₃ +Ti N	Upgraded product performance, with a matrix that combines wear resistance and blade collapse resistance, and a strong and tough coating with excellent bonding strength, the resistance to plastic deformation and crescent pit wear is improved. Longer lifespan for intermittent-general turning steel parts, also for heavy-duty machining.

The Features of PVD Coating

ISO	Grade	Colour	Coating Structure	Features.Application
P Steel	BC3015	Black	AlTiN	Submicron matrix resistant to abrasive wear and a coating with higher aluminum content.Stable milling of cast iron and steel parts.
	BC3025	Black	AlTiN	The Matrix balances hardness and toughness, and the coating with higher aluminum content.Suitable for general milling of cast iron, steel, and stainless steel, with high processing safety.
	BC3825	Bronze	AlTiMeN	Ultra fine grain matrix, newly upgraded nano composite coating with high heat resistance and high toughness.Suitable for general milling of cast iron, steel, and stainless steel, with superior wear resistance,Additional grade for stainless steel turning.
M Stainless Steel	BC3805	Bronze	AlTiMeN	Medium cobalt and ultra fine grain hard alloy matrix.High hardness nano composite PVD coating.The perfect fusion of high-strength,high toughness matrix and wear-resistant surface coating, comprehensive excellent performance.
	BC3824	Bronze	AlTiMeN	Special ultra-fine grain matrix with enhanced toughness and red hardness,and the latest high wear-resistant coating.General high-performance machining for efficient milling of steel, stainless steel, and heat-resistant alloys,as well asfor stainless steel turning.
	BC3525	Purple Black	AlTiMeN	Nano multilayer coating with ultra-fine grain matrix, good wear resistance and oxidation resistance.Stable and long-life milling of steel and stainless steel.
	BC3825	Bronze	AlTiMeN	Submicron matrix, newly upgraded nano composite coating with high heat resistance and toughness.Preferred grade for stainless steel turning, supplementary machining of softer steel.
S Heat Resistant Alloy	BC3605	Bronze	AlTiSiN	Low cobalt,fine-grained wear-resistant and heat-resistant matrix.High hardness coatings deposited by high-energy pulse magnetron sputtering, with higher coating adhesion andHas good wear resistance and heat resistance.Suitable for high-temperature alloy and titanium alloy turning, continuous and stable working conditions processing;
	BC3010	Bronze	AlTiSiN	Superfine grain matrix reinforced with adhesive phase, excellent heat resistance and wear resistance.The high hardness coating deposited by HIPIMS has higher coating adhesion and good wear resistance and heat resistance,Suitable for finishing - semi-finishing turning of heat-resistant alloys and high hardness materials, and general milling.
	BC3525	Purple Black	AlTiMeN	Superfine grain matrix optimized for heat resistance and toughness of heat-resistant alloys,with wear resistance and oxidation resistance Good nano multilayer coating.The preferred grade for general machining of heat-resistant alloys.
	BC3025	Black	AlTiN	Specially reinforced super tough matrix, high aluminum coating, higher cost-effectiveness. Efficient rough milling for steam turbine blades, long-life dry cutting,and also suitable for heat resistance Alloy.



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