



Catalogue

Version 2019

2019 EN



ZCC Cutting Tools Europe GmbH

your Partner | your Value

A

Turning

B

Milling

C

Drilling

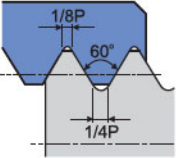

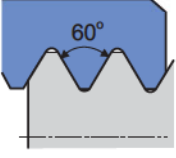

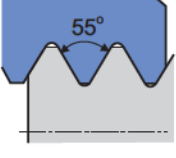

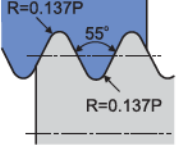

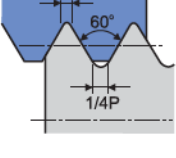

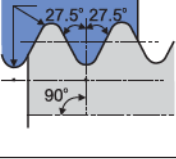

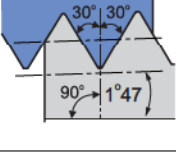

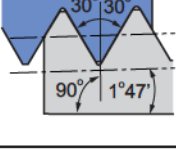

DTechnical
Information**E**

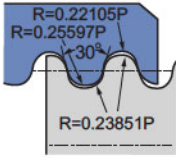

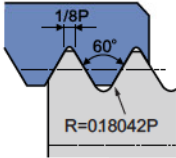

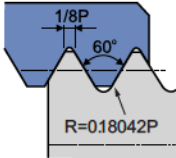

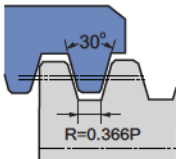

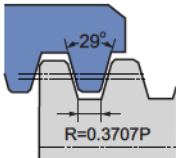

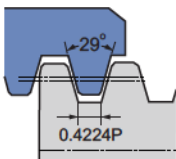

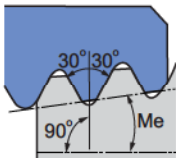

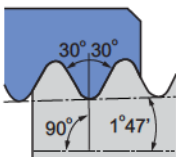

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Threading

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A

	Thread types	Profile	Sectional drawing	Insert	Internal thread pitch [mm]	External thread pitch [mm]	Page
A Turning	ISO metric coarse thread 60° full profile	GM			0,5-6,0	0,5-6,0	A413
	ISO metric coarse thread 60° partial profile	60°			0,5-5,0 (5-48)	0,5-5,0 (5-48)	A415
B Milling	ISO metric coarse thread 55° partial profile	55°			0,5-5,0 (5-48)	0,5-5,0 (5-48)	A416
C Drilling	Whitworth	W			8-16	8-16	A417
	UN unified conventional thread 60° full profile	UN			8-20	8-20	A418
D Technical Information	BSPT Whitworth taper pipe thread	BSPT			11-28	11-28	A419
	NPT American taper pipe thread	NPT			8-27	8-27	A420
E Index	NPTF dryseal American taper pipe thread 60°	NPTF			8-27	8-27	A421

Thread types	Profile	Sectional drawing	Insert	Internal thread pitch [mm]	External thread pitch [mm]	Page
R knuckle thread 30°	R			6-10	6-10	A422
MJ thread for aerospace	MJ			---	1,5-2,0	A423
UNJ unified screw thread	UNJ			---	8-32	A424
TR metrical ISO trapezoidal thread 30°	Tr			1,5-3,0	1,5-3,0	A425
ACME American national thread 29°	AC			8-16	8-16	A426
STUB-ACME thread	STAC			8-16	8-16	A427
API 60° thread	AP			4-5	4-5	A428
API round thread	RD			8-10	8-10	A429

A

Turning

B

Milling

C

Drilling

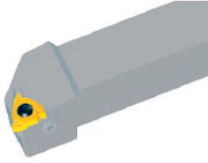

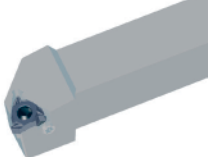

D

Technical Information

E

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	Thread types	Profile	Sectional drawing	Insert	Internal thread pitch [mm]	External thread pitch [mm]	Page
A Turning	API American buttress thread	BUT			5	5	A430
	ISO metric coarse thread 60° full profile (thin type)	GM			0,5-3,0	0,5-3,0	A431
B Milling	ISO metric coarse thread 60° partial profile (thin type)	60°			0,5-3,0 (8-48)	0,5-3,0 (8-48)	A432
	ISO metric coarse thread 55° partial profile (thin type)	55°			0,5-3,0 (8-48)	0,5-3,0 (8-48)	A433
C Drilling	Whitworth (thin type)	W			8-16	8-16	A434
	UN unified conventional thread 60° full profile (thin type)	UN			8-24	8-20	A435
D Technical Information	BSPT Whitworth taper pipe thread (thin type)	BSPT			11-28	11-28	A436
	NPT American taper pipe thread (thin type)	NPT			8-27	8-27	A437

Type	Tool holder	Dimensions [mm]	Page
External thread holder		16×16×100 20×20×125 25×25×150 32×25×170 32×32×170 40×40×250	A439
Internal thread holder		16×125×12 16×150×16 16×150×20 20×150×25 20×180×25 25×150×32 32×200×40 32×250×40 40×300×50 50×350×63	A441
External thread holder (Thin Type)		16×16×100 32×25×170 20×20×125 32×32×170 25×25×150	A443
Internal thread holder (Thin Type)		16×150×20 32×200×40 20×180×25 32×250×40 25×150×32	A444

A

Turning

B

Milling

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Drilling

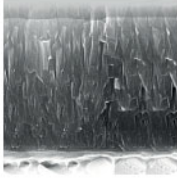

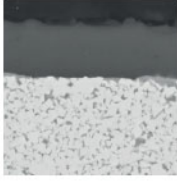
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Threading

Grade	ISO	Micro structure	Grade description
YBG201	P10 - P30 M10 - M30		PVD coated P10-P30/M10-M30 carbide substrate for finishing to medium application of steel and stainless steel. Good wear resistance in a wide application field.
YBG202	P10 - P30 M10 - M25		PVD coated P10-P30/M10-M25 carbide substrate for finishing to medium application of stainless steel and steel (milling). Good wear resistance in a wide application field.
YBG205	P10 - P30 M20 - M40 S15-S25		PVD multilayer coated P10-P30/M20-M40/S15-S25 carbide substrate for finishing to medium application of stainless steel, super alloy and steel (milling). Good wear resistance and thermal stability in a wide application field.

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Turning

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Application fields of grades – Threading

	ISO	HC ¹ (CVD)	HC ¹ (PVD)	HT	HC ²	Ceramic	HW	CBN	PCD
P	P01								
	P10		YBG205						
	P20		YBG201						
	P30		YBG202						
	P40								
M	M01								
	M10		YBG205						
	M20		YBG201						
	M30		YBG202						
	M40								
K	K01								
	K10								
	K20								
	K30								
N	N01								
	N10								
	N20								
	N30								
S	S01								
	S10		YBG205						
	S20		YBG201						
	S30		YBG202						
H	H01								
	H10								
	H20								
	H30								

P	Steel
M	Stainless steel
K	Cast iron

N	Non-ferrous metals
S	Heat-resistant alloys
H	Hardened materials

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

A

Turning

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R T 22. 01 W – 3.50 GM (P) (B)

1 2 3 4 5 6 7 8 9

A

Turning

Type	
Code	Description
R	Right
L	Left

Insert shape	
T 	Z Special

Insert size [mm]	
Code	I.C
11	6,35
16	9,252
22	12,70

1

2

3

B

Milling

Teeth per cutting edge	
Code	Description
01	1
02	2

Application	
Code	Description
W	External thread
N	Internal thread

Pitch		
Code	Pitch range (part profile)	
A	0,5 – 1,5 mm	48 – 16 (TPI)
AG	0,5 – 3,0 mm	48 – 8 (TPI)
G	1,75 – 3,0 mm	14 – 8 (TPI)
N	3,5 – 5,0 mm	7 – 5 (TPI)
Pitch range [mm] (full profile)		
0,50 0,75 1,00 1,25 1,50		
1,75 2,00 2,50 3,00 3,50		
4,00 4,50 5,00 5,50 6,00		
Pitch range (TPI) (full profile)		
4 5 6 8		
10 11 11,5 12		
14 16 18 19		
20 24 27 28		

4

5

6

C

Drilling

D

Technical Information

Thread profile	
Code	Description
GM	ISO metric coarse thread 60°
60	Partial profile 60°
55	Partial profile 55°
W	Whitworth
UN	Unified conventional thread
BSPT	Whitworth taper pipe thread
NPT	American taper pipe thread
NPTF	Dryseal American taper pipe thread
R	Knuckle thread 30°
MJ	Thread for aerospace
UNJ	Unified screw thread
TR	Metrical ISO trapezoidal thread
AC	American national thread
STAC	STUB-ACME thread
AP	API 60° thread
RD	API round thread
BUT	American buttress thread

Chip breaker

8

Insert thickness [mm]	
Code	Description
B	Thin type

9

E

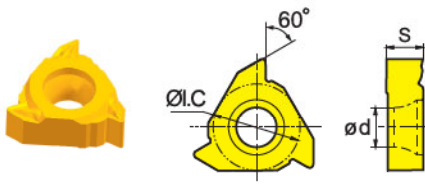
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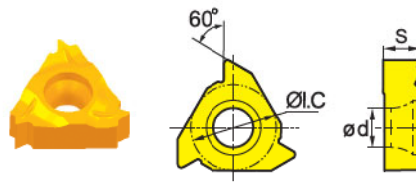
Threading inserts

R/LT**N/W	I.C	S	d
11	6.35	3.18	2.8
16	9.525	3.97	4.4
22	12.7	5.56	5.5

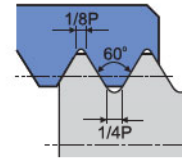
ISO metric coarse thread 60° full profile



External right hand
Internal left hand



Internal right hand
External left hand



ISO 965-1980 DIN 13
GB-T 197-2003 Tolerance: 6g-6H

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)		Internal	HC ¹ (PVD)	
			YBG201	YBG205		YBG201	YBG205
11	0.50	-			RT11.01N-0.50GM	○	
11		-			LT11.01N-0.50GM	○	
11	0.75	-			RT11.01N-0.75GM	●	
11		-			LT11.01N-0.75GM	○	
11	1.00	-			RT11.01N-1.00GM	○ ●	
11		-			LT11.01N-1.00GM	●	
11	1.25	-			RT11.01N-1.25GM	●	
11		-			LT11.01N-1.25GM	●	
11	1.50	-			RT11.01N-1.50GM	○ ●	
11		-			LT11.01N-1.50GM	●	
11	1.75	-			RT11.01N-1.75GM	○	
11		-			LT11.01N-1.75GM	●	
11	2.00	-			RT11.01N-2.00GM	○ ○	
11		-			LT11.01N-2.00GM	●	
16	0.50	-			RT16.01N-0.50GM	○	
16		-			LT16.01N-0.50GM	○	
16	0.75	-			RT16.01N-0.75GM	○	
16		-			LT16.01N-0.75GM	○	
16	1.00	RT16.01W-1.00GM	○ ●		RT16.01N-1.00GM	○	
16		LT16.01W-1.00GM	●		LT16.01N-1.00GM	●	
16	1.25	RT16.01W-1.25GM	○ ●		RT16.01N-1.25GM	○	
16		LT16.01W-1.25GM	●		LT16.01N-1.25GM	●	
16	1.50	RT16.01W-1.50GM	○ ●		RT16.01N-1.50GM	○ ●	
16		LT16.01W-1.50GM	●		LT16.01N-1.50GM	●	
16	1.75	RT16.01W-1.75GM	○ ●		RT16.01N-1.75GM	○	
16		LT16.01W-1.75GM	●		LT16.01N-1.75GM	●	
16	2.00	RT16.01W-2.00GM	○ ●		RT16.01N-2.00GM	○ ●	

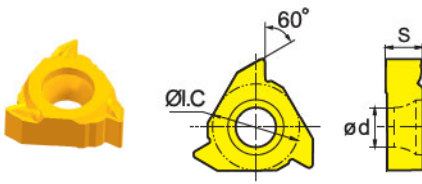
● Ex stock ○ On demand

HC¹ Coated carbide

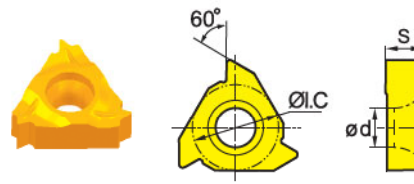
R/LT**N/W	I.C	S	d
11	6.35	3.18	2.8
16	9.525	3.97	4.4
22	12.7	5.56	5.5

Threading inserts

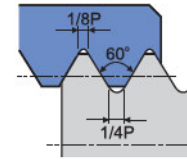
ISO metric coarse thread 60° full profile



External right hand
Internal left hand



Internal right hand
External left hand





ISO 965-1980 DIN 13
GB-T 197-2003 Tolerance: 6g-6H

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	2.00	LT16.01W-2.00GM	●				LT16.01N-2.00GM	●			
16	2.50	RT16.01W-2.50GM	○	●			RT16.01N-2.50GM	○	●		
16		LT16.01W-2.50GM	●				LT16.01N-2.50GM	●			
16	3.00	RT16.01W-3.00GM	○	●			RT16.01N-3.00GM	○	●		
16		LT16.01W-3.00GM	●				LT16.01N-3.00GM	●			
22	3.50	RT22.01W-3.50GM	○	●			RT22.01N-3.50GM	○	●		
22		LT22.01W-3.50GM	●				LT22.01N-3.50GM	●			
22	4.00	RT22.01W-4.00GM	○	●			RT22.01N-4.00GM	○	●		
22		LT22.01W-4.00GM	●				LT22.01N-4.00GM	●			
22	4.50	RT22.01W-4.50GM	○	●			RT22.01N-4.50GM	○	●		
22		LT22.01W-4.50GM	○				LT22.01N-4.50GM	●			
22	5.00	RT22.01W-5.00GM	○				RT22.01N-5.00GM	○			
22		LT22.01W-5.00GM	●				LT22.01N-5.00GM	●			
22	5.50	RT22.01W-5.50GM	○				RT22.01N-5.50GM	○			
22		LT22.01W-5.50GM	○				LT22.01N-5.50GM	●			
22	6.00	RT22.01W-6.00GM	○	●			RT22.01N-6.00GM	○	●		
22		LT22.01W-6.00GM	●				LT22.01N-6.00GM	●			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439-A440	A441-A442

System code > A412

Grade selection > A411

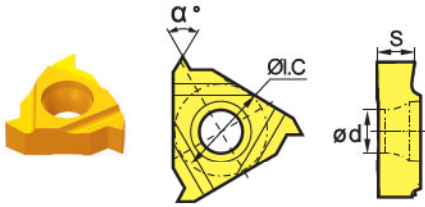
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Cutting data > A446

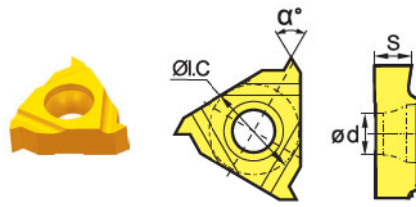
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4
22	12.7	5.56	5.5

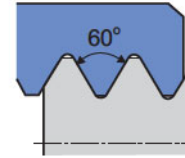
ISO metric coarse thread 60° partial profile



External right hand
Internal left hand



Internal right hand
External left hand



ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	0.50 - 1.50	RT16.01W-A60	○	●			RT16.01N-A60	○			
16		LT16.01W-A60	●				LT16.01N-A60	●			
16	0.50 - 3.00	RT16.01W-AG60	○	●			RT16.01N-AG60	○			
16		LT16.01W-AG60	●				LT16.01N-AG60	●	○		
16	1.75 - 3.00	RT16.01W-G60	○				RT16.01N-G60	○			
16		LT16.01W-G60	●				LT16.01N-G60	○			
16		RT16.01W-G60P*	○	○			RT16.01N-G60P*	○			
16		LT16.01W-G60P*	●				LT16.01N-G60P*	○			
22	3.50 - 5.00	RT22.01W-N60P*	○	●			RT22.01N-N60P*	○	●		
22		LT22.01W-N60P*	○				LT22.01N-N60P*	○			

● Ex stock ○ On demand
P*: Inserts with chip-breakers

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
A439-A440	A441-A442

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Turning

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Technical Information

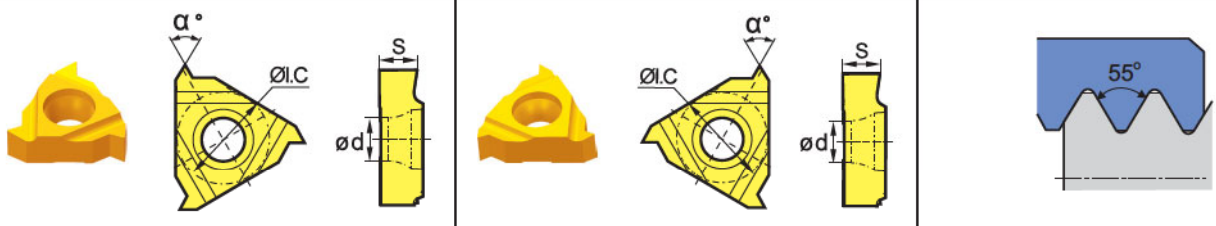
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R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4
22	12.7	5.56	5.5

Threading inserts

ISO metric coarse thread 55° partial profile



External right hand
Internal left hand



Internal right hand
External left hand

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	0.50 - 1.50	RT16.01W-A55	○				RT16.01N-A55	○			
16		LT16.01W-A55	●				LT16.01N-A55	○			
16	0.50 - 3.00	RT16.01W-AG55	○	●			RT16.01N-AG55	○	●		
16		LT16.01W-AG55	○				LT16.01N-AG55	●			
16	1.75 - 3.00	RT16.01W-G55	○				RT16.01N-G55	○			
16		LT16.01W-G55	●				LT16.01N-G55	○			
16		RT16.01W-G55P*	○				RT16.01N-G55P*	○			
16		LT16.01W-G55P*	●				LT16.01N-G55P*	●			
22	3.50 - 5.00	RT22.01W-N55P*	○				RT22.01N-N55P*	○			

● Ex stock ○ On demand
P*: Inserts with chip-breakers

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439-A440	A441-A442

System code > A412

Grade selection > A411

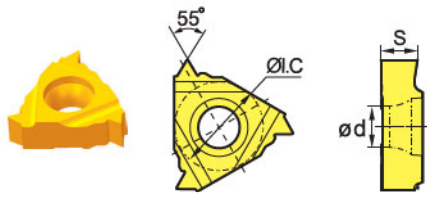
Technical info > A447

Cutting data > A446

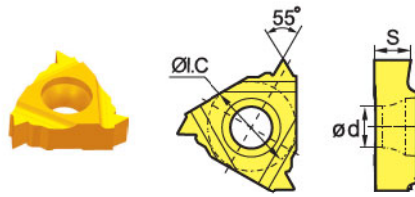
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

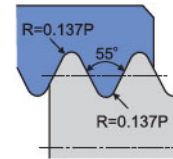
Whitworth



External right hand
Internal left hand



Internal right hand
External left hand



ISO 228-1:1982 DIN 259
B.S.84: 1956 Tolerance: Medium Class 1

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	8.00	RT16.01W-8W	○				RT16.01N-8W	○			
16		LT16.01W-8W	●				LT16.01N-8W	●			
16	9.00	-					RT16.01N-9W	○			
16		LT16.01W-9W	○				LT16.01N-9W	○			
16	10.00	RT16.01W-10W	○				RT16.01N-10W	○			
16		LT16.01W-10W	○				LT16.01N-10W	○			
16	11.00	RT16.01W-11W	○	●			RT16.01N-11W	○	●		
16		LT16.01W-11W	●				LT16.01N-11W	○			
16	12.00	RT16.01W-12W	○				RT16.01N-12W	○			
16		LT16.01W-12W	○				LT16.01N-12W	○			
16	14.00	RT16.01W-14W	○	●			RT16.01N-14W	○	●		
16		-					LT16.01N-14W	○			
16	16.00	RT16.01W-16W	○	●			RT16.01N-16W	○	●		
16		LT16.01W-16W	○				LT16.01N-16W	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
A439-A440	A441-A442

System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446

A

Turning

B

Milling

C

Drilling

D

Technical Information

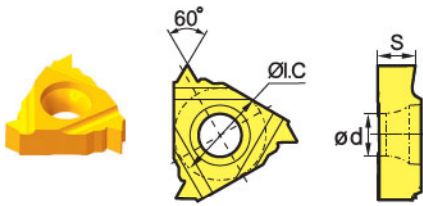
E

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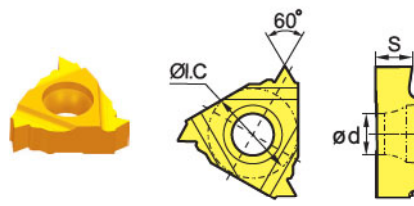
R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

Threading inserts

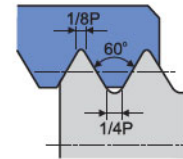
UN unified conventional thread 60° full profile



External right hand
Internal left hand



Internal right hand
External left hand





AS;E B1.1-1989
Tolerance: 2A-2B

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)		Internal	HC ¹ (PVD)	
			YBG201	YBG205		YBG201	YBG205
16	8.00	RT16.01W-8UN	○		RT16.01N-8UN	○	
16		LT16.01W-8UN	○		LT16.01N-8UN	○	
16	10.00	RT16.01W-10UN	○		RT16.01N-10UN	○	
16		LT16.01W-10UN	○		LT16.01N-10UN	○	
16	12.00	RT16.01W-12UN	○		RT16.01N-12UN	○	
16		LT16.01W-12UN	○		LT16.01N-12UN	○	
16	14.00	RT16.01W-14UN	○		RT16.01N-14UN	○	
16		LT16.01W-14UN	○		LT16.01N-14UN	○	
16	16.00	RT16.01W-16UN	○		RT16.01N-16UN	○	
16		LT16.01W-16UN	○		LT16.01N-16UN	○	
16	18.00	RT16.01W-18UN	○		RT16.01N-18UN	○	
16		LT16.01W-18UN	○		LT16.01N-18UN	○	
16	20.00	RT16.01W-20UN	○		RT16.01N-20UN	○	
16		LT16.01W-20UN	○		LT16.01N-20UN	○	
16	24.00	-			RT16.01N-24UN	○	
16		-			LT16.01N-24UN	○	

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439-A440	A441-A442

System code > A412

Grade selection > A411

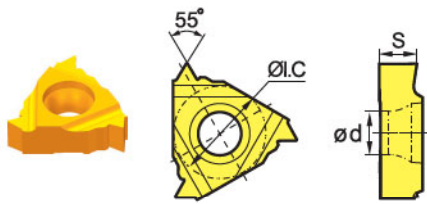
Technical info > A447

Cutting data > A446

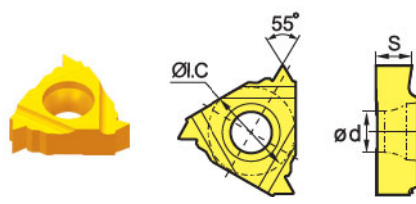
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

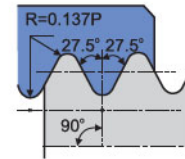
BSPT Whitworth taper pipe thread



External right hand
Internal left hand



Internal right hand
External left hand



ISO 7-1:1984 B.S.21:1985
Standard BSPT

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	11.00	RT16.01W-11BSPT	○				RT16.01N-11BSPT	○			
16		LT16.01W-11BSPT	●				LT16.01N-11BSPT	○			
16	14.00	RT16.01W-14BSPT	○				RT16.01N-14BSPT	○			
16		LT16.01W-14BSPT	○				LT16.01N-14BSPT	○			
16	19.00	RT16.01W-19BSPT	○				RT16.01N-19BSPT	○			
16		LT16.01W-19BSPT	○				LT16.01N-19BSPT	○			
16	28.00	RT16.01W-28BSPT	○				RT16.01N-28BSPT	○			
16		LT16.01W-28BSPT	○				LT16.01N-28BSPT	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
A439-A440	A441-A442

System code > A412

Grade selection > A411

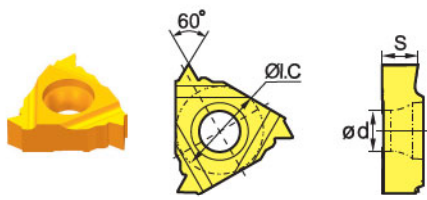
Technical info > A447

Cutting data > A446

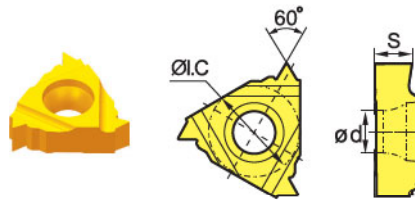
R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

Threading inserts

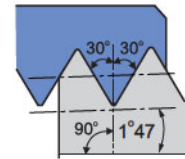
NPT American taper pipe thread



External right hand
Internal left hand



Internal right hand
External left hand





ASME B1.20.1-1983
Standard NPT

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				
			YBG201	YBG205	Internal	YBG201	YBG205
16	8.00	RT16.01W-8NPT	○		RT16.01N-8NPT	○	
16		LT16.01W-8NPT	○		LT16.01N-8NPT	○	
16	11.50	RT16.01W-11.5NPT	○		RT16.01N-11.5NPT	○	
16		LT16.01W-11.5NPT	○		LT16.01N-11.5NPT	○	
16	14.00	RT16.01W-14NPT	○	○	RT16.01N-14NPT	○	
16		LT16.01W-14NPT	○		LT16.01N-14NPT	○	
16	18.00	RT16.01W-18NPT	○		RT16.01N-18NPT	○	
16		LT16.01W-18NPT	○		LT16.01N-18NPT	○	
16	27.00	RT16.01W-27NPT	○		RT16.01N-27NPT	○	
16		LT16.01W-27NPT	○		LT16.01N-27NPT	○	

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439-A440	A441-A442

System code > A412

Grade selection > A411

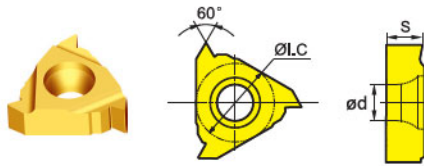
Technical info > A447

Cutting data > A446

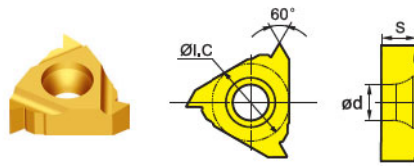
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

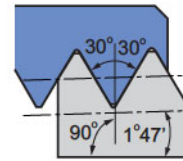
NPTF dryseal American taper pipe thread 60°



External right hand
Internal left hand



Internal right hand
External left hand





ASME B1.20.1-1983
Tolerance: 2

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	8.00	-					RT16.01N-8NPTF				
16	11.50	RT16.01W-11.5NPTF	○				RT16.01N-11.5NPTF	○			
16	14.00	RT16.01W-14NPTF	○				RT16.01N-14NPTF	○			
16	18.00	RT16.01W-18NPTF	○				RT16.01N-18NPTF	○			
16	27.00	-					RT16.01N-27NPTF	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439	A441

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446

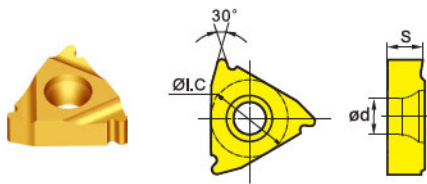
A

Threading inserts

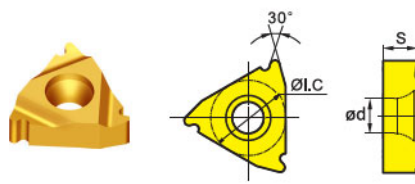
R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

Turning

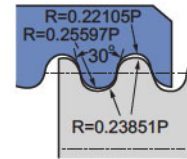
R knuckle thread 30°



External right hand
Internal left hand



Internal right hand
External left hand



DIN 405
Tolerance: 7

B

Milling

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	6.00	RT16.01W-6R	○				RT16.01N-6R	○	○		
16	8.00	RT16.01W-8R	○				RT16.01N-8R	○	○		
16	10.00	RT16.01W-10R	○				RT16.01N-10R	○	○		



● Ex stock ○ On demand

HC¹ Coated carbide

C

Drilling

Tool holders

SWR/L	SNR/L
	
A439	A441

D

Technical Information

E

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System code > A412

Grade selection > A411

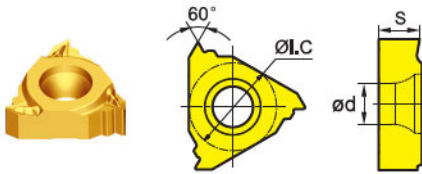
Technical info > A447

Cutting data > A446

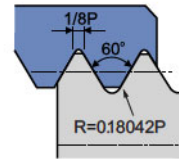
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

MJ thread for aerospace



External right hand
Internal left hand



ISO 5855-1999
Tolerance: 4

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	1.50	RT16.01W-1.50MJ	○				-				

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L



A439

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446

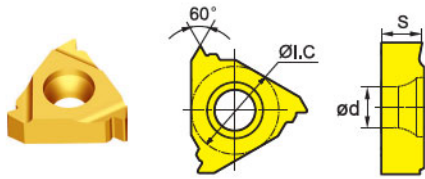


A

Threading inserts

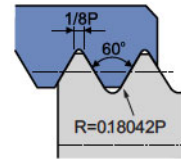
R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

Turning



External right hand
Internal left hand

UNJ unified screw thread



ISO 3161-1999
Tolerance: 3A

B

Milling

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	10.00	RT16.01W-10UNJ	○				-				
16	12.00	RT16.01W-12UNJ	○				-				
16	14.00	RT16.01W-14UNJ	○				-				
16	16.00	RT16.01W-16UNJ	○				-				
16	18.00	RT16.01W-18UNJ	○				-				
16	20.00	RT16.01W-20UNJ	○				-				
16	24.00	RT16.01W-24UNJ	○				-				
16	28.00	RT16.01W-28UNJ	○				-				
16	32.00	RT16.01W-32UNJ	○				-				

● Ex stock ○ On demand

HC¹ Coated carbide

C

Drilling

Tool holders

SWR/L



A439

D

Technical Information

E

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System code > A412

Grade selection > A411

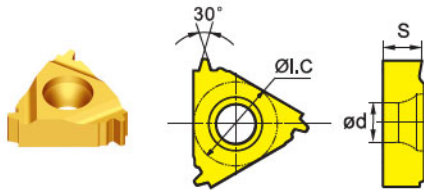
Technical info > A447

Cutting data > A446

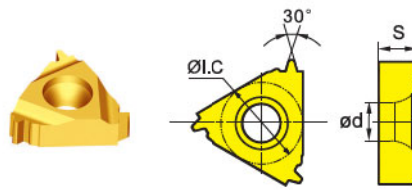
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

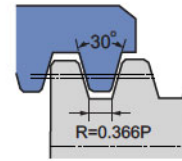
TR metrical ISO trapezoidal thread 30°



External right hand
Internal left hand



Internal right hand
External left hand





ISO 2901-2904
Tolerance: 7

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	1.50	RT16.01W-1.50TR	○				RT16.01N-1.50TR	●			
16	2.00	RT16.01W-2.00TR	○	○			RT16.01N-2.00TR	○	○		
16	3.00	RT16.01W-3.00TR	○	○			RT16.01N-3.00TR	○	●		

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439	A441

A

Turning

B

Milling

C

Drilling

D

Technical Information

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System code > A412

Grade selection > A411

Technical info > A447

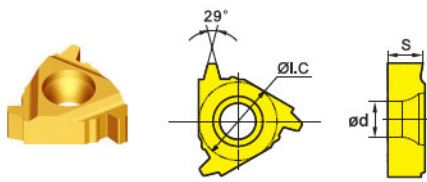
Cutting data > A446



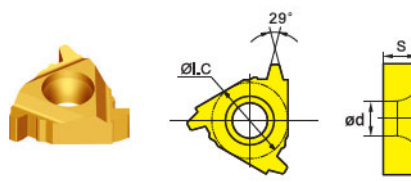
R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

Threading inserts

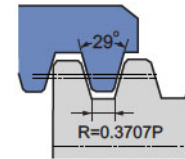
ACME American national thread 29°



External right hand
Internal left hand



Internal right hand
External left hand





ANSI B1.5-1988
Tolerance: 2G

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	8.00	RT16.01W-8AC	○				RT16.01N-8AC	○			
16	10.00	RT16.01W-10AC	○				RT16.01N-10AC	○			
16	12.00	RT16.01W-12AC	○				RT16.01N-12AC	○			
16	14.00	RT16.01W-14AC	○				RT16.01N-14AC	○			
16	16.00	RT16.01W-16AC	○				RT16.01N-16AC	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439	A441

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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System code > A412

Grade selection > A411

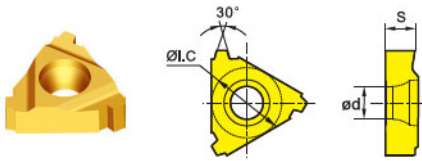
Technical info > A447

Cutting data > A446

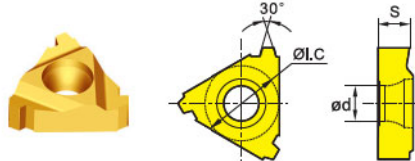
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4

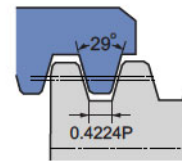
STUB-ACME thread



External right hand
Internal left hand



Internal right hand
External left hand



ANSI B1.8-1988
Tolerance: API Standard

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	8.00	RT16.01W-8STAC	○				RT16.01N-8STAC	○			
16	10.00	RT16.01W-10STAC	○				RT16.01N-10STAC	○			
16	12.00	RT16.01W-12STAC	○				RT16.01N-12STAC	○			
16	14.00	RT16.01W-14STAC	○				RT16.01N-14STAC	○			
16	16.00	RT16.01W-16STAC	○				RT16.01N-16STAC	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
A439	A441

A

Turning

B

Milling

C

Drilling

D

Technical Information

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System code > A412

Grade selection > A411

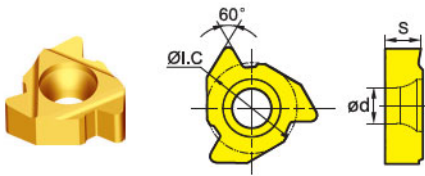
Technical info > A447

Cutting data > A446

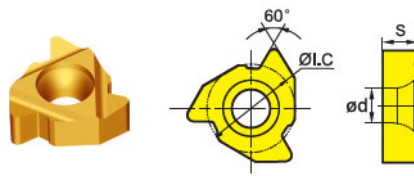
R/LT**N/W	I.C	S	d
22	12.7	5.56	5.5

Threading inserts

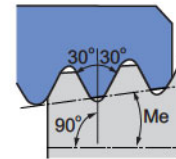
API 60° thread



External right hand
Internal left hand



Internal right hand
External left hand



Me = taper, 2i.p.f-4°46', 3i.p.f-7°01'
API SPEC7:1990 Tolerance: API Standard

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)		Internal	HC ¹ (PVD)	
			YBG201	YBG205		YBG201	YBG205
22	4.00	RT22.01W-4AP382	○		RT22.01N-4AP382	○	
22		RT22.01W-4AP383	○		RT22.01N-4AP383	○	
22		RT22.01W-4AP502	○		RT22.01N-4AP502	○	
22		RT22.01W-4AP503	○		RT22.01N-4AP503	○	
22	5.00	RT22.01W-5AP403	○		RT22.01N-5AP403	○	

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
A439	A441

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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System code > A412

Grade selection > A411

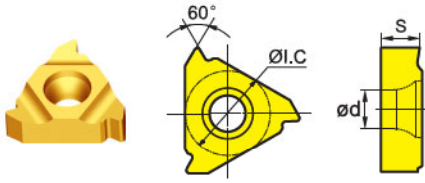
Technical info > A447

Cutting data > A446

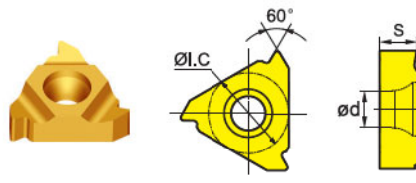
Threading inserts

R/LT**N/W	I.C	S	d
16	9.525	3.97	4.4
22	12.7	5.56	5.5

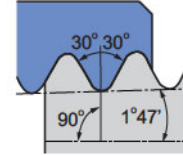
API round thread



External right hand
Internal left hand



Internal right hand
External left hand





API spec.5B
Tolerance: API RD

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG201	YBG205				YBG201	YBG205		
16	8.00	RT16.01W-8RD	○				RT16.01N-8RD	○			
16	10.00	RT16.01W-10RD	○				RT16.01N-10RD	○			
22	8.00	RT22.01W-8RD	○				RT22.01N-8RD	○			
22	10.00	RT22.01W-10RD	○				RT22.01N-10RD	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR/L	SNR/L
	
A439	A441

System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446

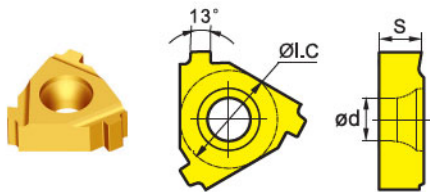
A

Threading inserts

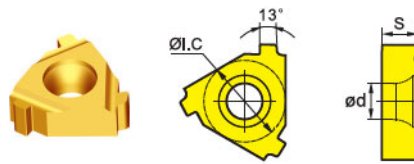
R/LT**N/W	I.C	S	d
22	12.7	5.56	5.5

Turning

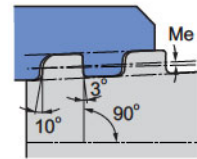
API American buttress thread



External right hand
Internal left hand



Internal right hand
External left hand



Me=taper 3/4i.p.f.1°47'-1°47' for Ø 4 1/2-13 3/8"
1 i.p.f.--2°23' for Ø16" SEPC.5B.1979 Tol.: API Std.

B

Milling

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)		Internal	HC ¹ (PVD)	
			YBG201	YBG205		YBG201	YBG205
22	5.00	RT22.01W-5BUT	<input type="radio"/>	<input type="radio"/>	RT22.01N-5BUT	<input type="radio"/>	<input type="radio"/>

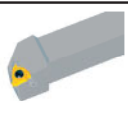

● Ex stock ○ On demand

HC¹ Coated carbide

C

Drilling

Tool holders

SWR/L	SNR/L
	
A439	A441

D

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System code > A412

Grade selection > A411

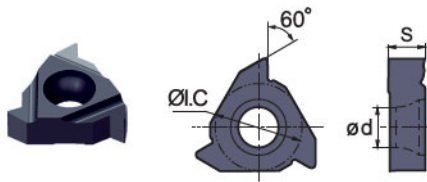
Technical info > A447

Cutting data > A446

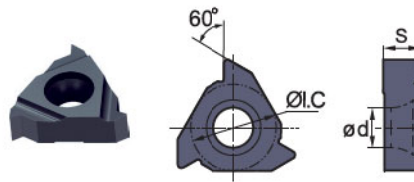
Threading inserts (thin type)

R/LT**N/W	I.C	S	d
16	9.525	3.52	4

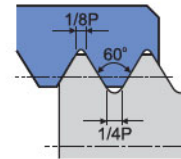
ISO metric coarse thread 60° full profile (thin type)



External right hand
Internal left hand



Internal right hand
External left hand



ISO 965-1980 DIN 13
GB-T 197-2003 Tolerance: 6g/6H

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG202	YBG205				YBG202	YBG205		
16	0,50	RT16.01W-0.50GMB	●				RT16.01N-0.50GMB	●			
16	0,75	RT16.01W-0.75GMB	●				RT16.01N-0.75GMB	●			
16	1,00	RT16.01W-1.00GMB	●	○			RT16.01N-1.00GMB	●	●		
16		RT16.01W-1.00GMPB*	●	●			RT16.01N-1.00GMPB*	●	●		
16	1,25	RT16.01W-1.25GMB	●	●			RT16.01N-1.25GMB	●	●		
16		RT16.01W-1.25GMPB*	●	●			RT16.01N-1.25GMPB*	●	●		
16	1,50	RT16.01W-1.50GMB	●	○			RT16.01N-1.50GMB	●	●		
16		RT16.01W-1.50GMPB*	●	●			RT16.01N-1.50GMPB*	●	●		
16	1,75	RT16.01W-1.75GMB	●	●			RT16.01N-1.75GMB	●	●		
16		RT16.01W-1.75GMPB*	●	●			RT16.01N-1.75GMPB*	●	●		
16	2,00	RT16.01W-2.00GMB	●	○			RT16.01N-2.00GMB	●	●		
16		RT16.01W-2.00GMPB*	●	●			RT16.01N-2.00GMPB*	●	●		
16	2,50	RT16.01W-2.50GMB	●	○			RT16.01N-2.50GMB	●	●		
16		RT16.01W-2.50GMPB*	●	●			RT16.01N-2.50GMPB*	●	●		
16	3,00	RT16.01W-3.00GMB	●	○			RT16.01N-3.00GMB	●	○		
16		RT16.01W-3.00GMPB*	●	●			RT16.01N-3.00GMPB*	●	○		

● Ex stock ○ On demand
PB*: Inserts with chip-breakers

HC¹ Coated carbide

Tool holders

SWR	SNR
A443	A444

System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446



A

Turning

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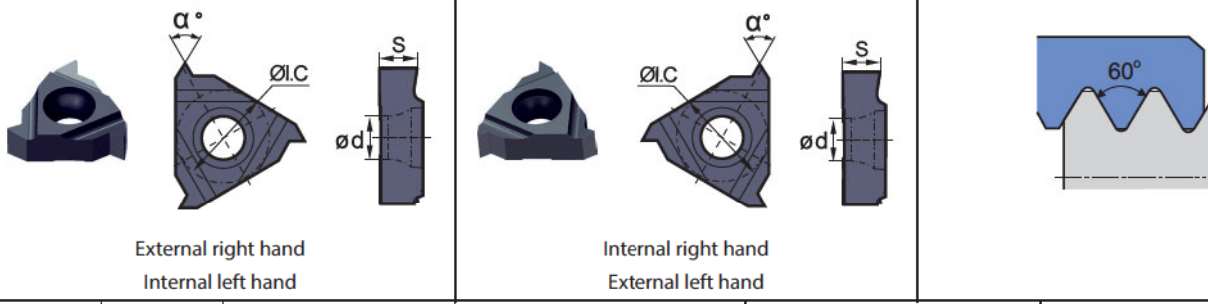
A

Threading inserts (thin type)

R/LT**N/W	I.C	S	d
16	9.525	3.52	4

Turning

ISO metric coarse thread 60° partial profile (thin type)



B

Milling

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG202	YBG205				YBG202	YBG205		
16	0.50 - 1.50	RT16.01W-A60B	●				RT16.01N-A60B	●			
16	0.50 - 3.00	RT16.01W-AG60B	●				RT16.01N-AG60B	●			
16		RT16.01W-AG60PB*	● ●				-				
16	1.75 - 3.00	RT16.01W-G60B	● ○				RT16.01N-G60B	●			

● Ex stock ○ On demand
PB*: Inserts with chip-breakers

HC¹ Coated carbide

C

Drilling

Tool holders	
SWR	SNR
A443	A444

D

Technical Information

E

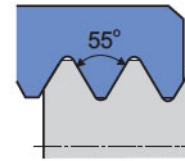
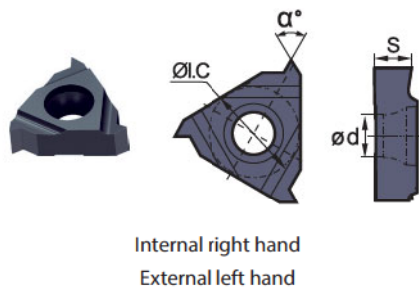
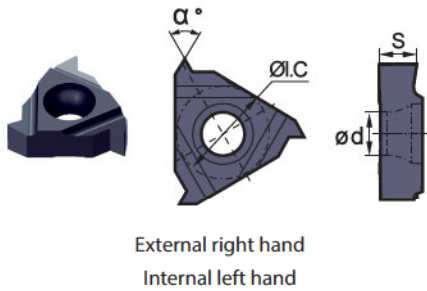
Index



Threading inserts (thin type)

R/LT**N/W	I.C	S	d
16	9.525	3.52	4

ISO metric coarse thread 55° partial profile (thin type)

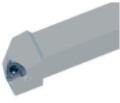



ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG202	YBG205				YBG202	YBG205		
16	0.50 - 1.50	RT16.01W-A55B	●				RT16.01N-A55B	○			
16	0.50 - 3.00	RT16.01W-AG55B	●				RT16.01N-AG55B	○			
16		RT16.01W-AG55PB*	●	○			-				
16	1.75 - 3.00	RT16.01W-G55B	●				RT16.01N-G55B	●			

● Ex stock ○ On demand
PB*: Inserts with chip-breakers

HC¹ Coated carbide

Tool holders

SWR	SNR
	
A443	A444

System code > A412

Grade selection > A411

Technical info > A447

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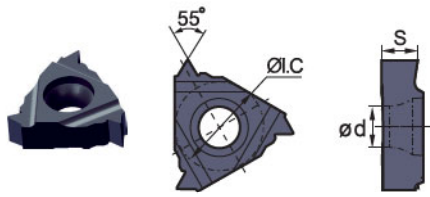
A

Threading inserts (thin type)

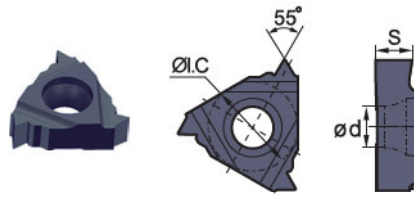
R/LT**N/W	I.C	S	d
16	9.525	3.52	4

Turning

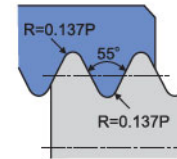
Whitworth (thin type)



External right hand
Internal left hand



Internal right hand
External left hand



ISO 965-1980 DIN 13
GB-T 197-2003 Tolerance: Medium Class A

B

Milling

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG202	YBG205				YBG202	YBG205		
16	8.00	RT16.01W-8WB	○				RT16.01N-8WB	○			
16	9.00	RT16.01W-9WB	●				RT16.01N-9WB	○			
16	10.00	RT16.01W-10WB	○				RT16.01N-10WB	●			
16	11.00	RT16.01W-11WB	●	○			RT16.01N-11WB	●			
16		-					RT16.01N-11WPB*	●	●		
16	12.00	RT16.01W-12WB	●				RT16.01N-12WB	●			
16	14.00	RT16.01W-14WB	●				RT16.01N-14WB	○			
16		-					RT16.01N-14WPB*	●	●		
16	16.00	RT16.01W-16WB	○				RT16.01N-16WB	○	○		

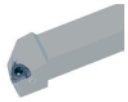

● Ex stock ○ On demand
PB*: Inserts with chip-breakers

HC¹ Coated carbide

C

Drilling

Tool holders

SWR	SNR
	
A443	A444

D

Technical Information

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System code > A412

Grade selection > A411

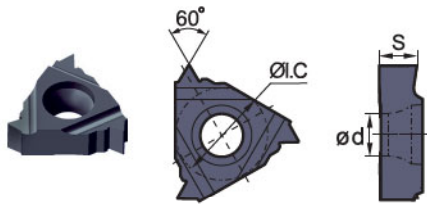
Technical info > A447

Cutting data > A446

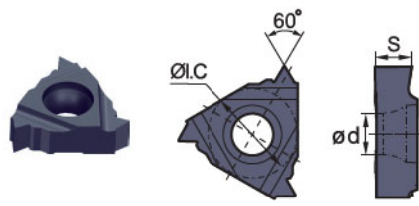
Threading inserts (thin type)

R/LT**N/W	I.C	S	d
16	9.525	3.52	4

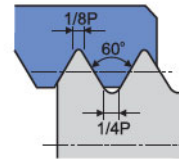
UN unified conventional thread 60° full profile (thin type)



External right hand
Internal left hand



Internal right hand
External left hand





ASME B1.1-1989
Tolerance: 2A/2B

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG202	YBG205				YBG202	YBG205		
16	8.00	RT16.01W-8UNB	●				RT16.01N-8UNB	●			
16	10.00	RT16.01W-10UNB	●				RT16.01N-10UNB	●			
16	12.00	RT16.01W-12UNB	●				RT16.01N-12UNB	●			
16	14.00	RT16.01W-14UNB	●				RT16.01N-14UNB	○			
16	16.00	RT16.01W-16UNB	●				RT16.01N-16UNB	●			
16	18.00	RT16.01W-18UNB	○				RT16.01N-18UNB	○			
16	20.00	RT16.01W-20UNB	●				RT16.01N-20UNB	●			
16	24.00	-					RT16.01N-24UNB	○			

● Ex stock ○ On demand

HC¹ Coated carbide

Tool holders

SWR	SNR
	
A443	A444

System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446



A

Turning

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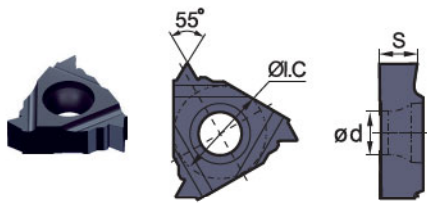
A

Threading inserts (thin type)

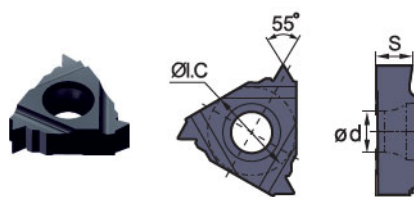
R/LT**N/W	I.C	S	d
16	9.525	3.52	4

Turning

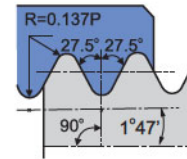
BSPT Whitworth taper pipe thread (thin type)



External right hand
Internal left hand



Internal right hand
External left hand



ASME B1.1-1989
Standard BSPT

B

Milling

ISO	Pitch (T.Pi)	External	HC ¹ (PVD)		Internal	HC ¹ (PVD)	
			YBG202	YBG205		YBG202	YBG205
16	11.00	RT16.01W-11BSPTB	●	○	RT16.01N-11BSPTB	○	○
16	14.00	RT16.01W-14BSPTB	●		RT16.01N-14BSPTB	○	
16		RT16.01W-14BSPTPB*	●		RT16.01N-14BSPTPB*	○	●
16	19.00	RT16.01W-19BSPTB	●		RT16.01N-19BSPTB	○	
16	28.00	RT16.01W-28BSPTB	○		RT16.01N-28BSPTB	○	

● Ex stock ○ On demand
PB*: Inserts with chip-breakers

HC¹ Coated carbide

C

Drilling

Tool holders	
SWR	SNR
A443	A444

D

Technical Information

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System code > A412

Grade selection > A411

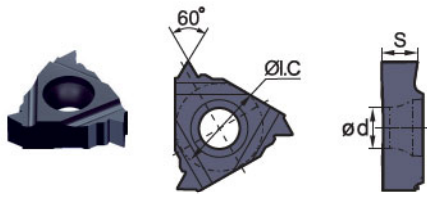
Technical info > A447

Cutting data > A446

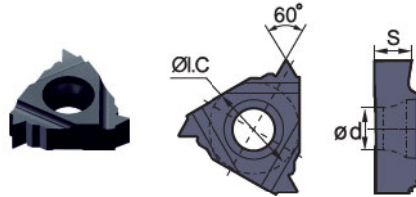
Threading inserts (thin type)

R/LT**N/W	I.C	S	d
16	9.525	3.52	4

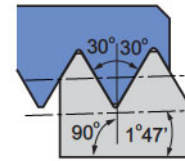
NPT American taper pipe thread (thin type)



External right hand
Internal left hand



Internal right hand
External left hand





ASME B1.20.1-1983
Standard NPT

ISO	Pitch (T.P.i)	External	HC ¹ (PVD)				Internal	HC ¹ (PVD)			
			YBG202	YBG205				YBG202	YBG205		
16	8.00	RT16.01W-8NPTB	○				RT16.01N-8NPTB	○			
16	11.50	RT16.01W-11.5NPTB	○				RT16.01N-11.5NPTB	●			
16		-					RT16.01N-11.5NPTPB*	○ ●			
16	14.00	RT16.01W-14NPTB	○ ●				RT16.01N-14NPTB	○			
16		-					RT16.01N-14NPTPB*	○ ●			
16	18.00	RT16.01W-18NPTB	●				RT16.01N-18NPTB	○			
16	27.00	RT16.01W-27NPTB	○				RT16.01N-27NPTB	○			

● Ex stock ○ On demand
PB*: Inserts with chip-breakers

HC¹ Coated carbide

Tool holders

SWR	SNR
	
A443	A444

System code > A412

Grade selection > A411

Technical info > A447

Cutting data > A446

A

Turning

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

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S W R 20 20 K 16 (B)

1 2 3 4 5 6 7 8

A

Turning

Clamping system		
Code	Description	
S	Screw clamping	
C	Top clamping	

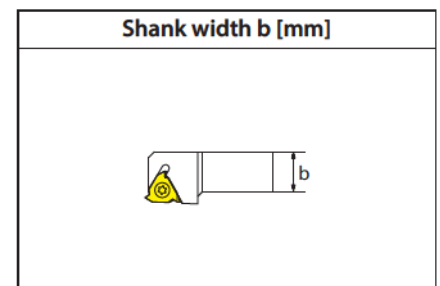
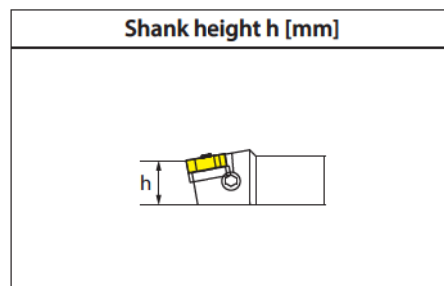
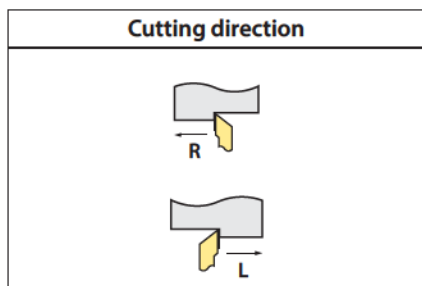
Application	
Code	Description
W	External thread tool holder
N	Internal thread tool holder

B

1

2

Milling



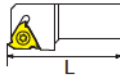
3

4

5

C

Drilling

Shank length L [mm]	
	
Code	L
H	100
K	125
M	150
P	170
Q	180
R	200
S	250
T	300

Insert size [mm]	
Code	Height
11	6,35
16	9,525
22	12,7

6

7

D

Technical Information

Holder for thin thread inserts (B type)

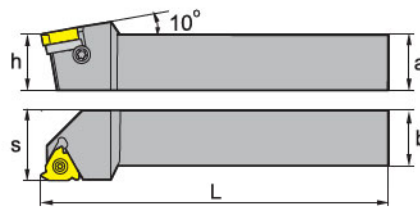
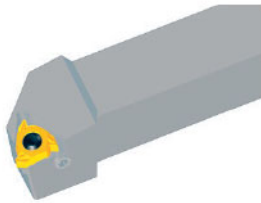
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Threading tool holder (external)

SWR/L



Article	*	Stock	Dimensions [mm]					Inserts
			a	b	L	h	s	
SWR1616H16		●	16	16	100	16	20	RT16.01W-****
SWR2020K16		●	20	20	125	20	25	RT16.01W-****
SWR2525M16		●	25	25	150	25	32	RT16.01W-****
SWR3225P16		●	32	25	170	32	32	RT16.01W-****
SWR3232P16		●	32	32	170	32	40	RT16.01W-****
SWR2525M22		●	25	25	150	25	32	RT22.01W-****
SWR3225P22		●	32	25	170	32	32	RT22.01W-****
SWR3232P22		●	32	32	170	32	40	RT22.01W-****
SWR4040S22		○	40	40	250	40	50	RT22.01W-****

● Ex stock ○ On demand

* With internal cooling

Spare parts			
	Insert	RT16.01W-****	RT22.01W-****
	h	16-32	25-40
	Screw	I60M3.5x12 (2.7 Nm)	I60M5x17 (6.7 Nm)
	Screw (shim)	SM4x8C	SM5x8.5C
	Shim	MT16-__M	MT22-__M
	Wrench (screw)	WT15IP	WT20IP

Insert
Medium Cut
A413

System code > A438

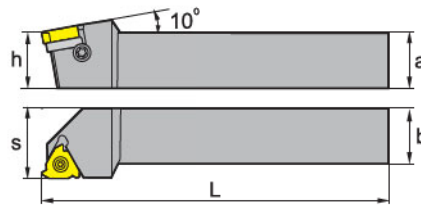
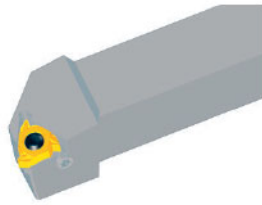
Grade selection > A411

Technical info > A447

Cutting data > A446

Threading tool holder (external)

SWR/L



Article	*	Stock	Dimensions [mm]					Inserts
			a	b	L	h	s	
SWL1616H16		●	16	16	100	16	20	LT16.01W-****
SWL2020K16		●	20	20	125	20	25	LT16.01W-****
SWL2525M16		●	25	25	150	25	32	LT16.01W-****
SWL3225P16		●	32	25	170	32	32	LT16.01W-****
SWL3232P16		○	32	32	170	32	40	LT16.01W-****
SWL2525M22		●	25	25	150	25	32	LT22.01W-****
SWL3225P22		○	32	25	170	32	32	LT22.01W-****
SWL3232P22		●	32	32	170	32	40	LT22.01W-****
SWL4040S22		○	40	40	250	40	50	LT22.01W-****

● Ex stock ○ On demand

* With internal cooling

Spare parts			
	Insert	LT16.01W-****	LT22.01W-****
	h	16-32	25-40
	Screw	I60M3.5x12 (2.7 Nm)	I60M5x17 (6.7 Nm)
	Screw (shim)	SM4x8C	SM5x8.5C
	Shim	MT16-__M	MT22-__M
	Wrench (screw)	WT15IP	WT20IP

Insert
Medium Cut
A413

System code > A438

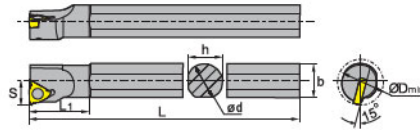
Grade selection > A411

Technical info > A447

Cutting data > A446

Threading tool holder (internal)

SNR/L




Article	*	Stock	Dimensions [mm]							Inserts
			ød	b	L	h	s	L ₁	D _{min}	
SNR0016K11	●	●	16	16	125	15	10	20.9	12	RT11.01N-****
SNR0016M11	●	●	16	15.5	150	15	10.5	25.9	16	RT11.01N-****
SNR0016M16	●	●	16	15.5	150	15	12	27	20	RT16.01N-****
SNR0020M16	●	●	20	19	150	18	14	28.7	25	RT16.01N-****
SNR0020Q16	●	●	20	19	180	18	14	34	25	RT16.01N-****
SNR0025M16	●	●	25	24	150	23	17	28.8	32	RT16.01N-****
SNR0032R16	●	●	32	31	200	30	22	30.9	40	RT16.01N-****
SNR0032S16	●	●	32	31	250	30	22	30.9	40	RT16.01N-****
SNR0040T16	●	●	40	38.5	300	37	27	31.5	50	RT16.01N-****
SNR0050U16	○	○	50	49.5	350	49	35	40.2	63	RT16.01N-****
SNR0020Q22	●	●	20	21.5	180	18	15	35	25	RT22.01N-****
SNR0025R22	●	●	25	24	200	23	19	39	32	RT22.01N-****
SNR0032S22	●	●	32	31	250	30	22	36.4	40	RT22.01N-****
SNR0040T22	●	●	40	38.5	300	37	27	37.2	50	RT22.01N-****
SNR0050U22	●	●	50	48.5	350	47	35	42.6	63	RT22.01N-****

● Ex stock ○ On demand

* With internal cooling

Spare parts						
	Insert	RT11.01N-****	RT16.01N-****	RT16.01N-****	RT22.01N-****	RT22.01N-****
	ød	16	16	20-50	20	25-50
	Screw	I60M2.5x6.5 (1.0 Nm)	I60M3.5x8 (2.7 Nm)	I60M3.5x12 (2.7 Nm)	I60M5*10 (6.7 Nm)	I60M5x17 (6.7 Nm)
	Screw (shim)			SM4x8C		SM5x8.5C
	Shim			MT16-__M		MT22-__M
	Wrench (screw)	WT07IP	WT15IP	WT15IP	WT20IP	WT20IP

Insert



Medium Cut

A413

System code > A438

Grade selection > A411

Technical info > A447

Cutting data > A446



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Turning

B

Milling

C

Drilling

D

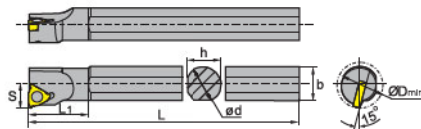
Technical Information

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Threading tool holder (internal)

SNR/L



Article	*	Stock	Dimensions [mm]							Inserts
			ød	b	L	h	s	L ₁	D _{min}	
SNL0016K11	●	●	16	16	125	15	10	20.9	12	LT11.01N-****
SNL0016M11	●	●	16	15.5	150	15	10.5	25.9	16	LT11.01N-****
SNL0016M16	●	●	16	15.5	150	15	12	27	20	LT16.01N-****
SNL0020M16	○	○	20	19	150	18	14	28.7	25	LT16.01N-****
SNL0020Q16	●	●	20	19	180	18	14	34	25	LT16.01N-****
SNL0025M16	●	●	25	24	150	23	17	28.8	32	LT16.01N-****
SNL0032R16	●	●	32	31	200	30	22	30.9	40	LT16.01N-****
SNL0032S16	○	○	32	31	250	30	22	30.9	40	LT16.01N-****
SNL0040T16	●	●	40	38.5	300	37	27	31.5	50	LT16.01N-****
SNL0050U16	○	○	50	49.5	350	49	35	40.2	63	LT16.01N-****
SNL0020Q22	●	●	20	21.5	180	18	15	35	25	LT22.01N-****
SNL0025R22	○	○	25	24	200	23	19	39	32	LT22.01N-****
SNL0032S22	●	●	32	31	250	30	22	36.4	40	LT22.01N-****
SNL0040T22	●	●	40	38.5	300	37	27	37.2	50	LT22.01N-****
SNL0050U22	●	●	50	48.5	350	47	35	42.6	63	LT22.01N-****

● Ex stock ○ On demand

* With internal cooling

Spare parts						
	Insert	LT11.01N-****	LT16.01N-****	LT16.01N-****	LT22.01N-****	LT22.01N-****
	ød	16	16	20-50	20	25-50
	Screw	I60M2.5x6.5 (1.0 Nm)	I60M3.5x8 (2.7 Nm)	I60M3.5x12 (2.7 Nm)	I60M5*10 (6.7 Nm)	I60M5x17 (6.7 Nm)
	Screw (shim)			SM4x8C		SM5x8.5C
	Shim			MT16-__M		MT16-__M
	Wrench (screw)	WT07IP	WT15IP	WT15IP	WT20IP	WT20IP

Insert

Medium Cut

A413

System code > A438

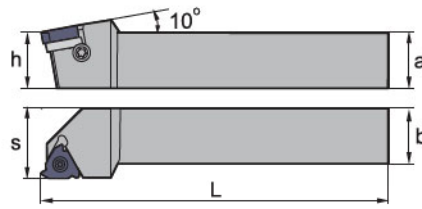
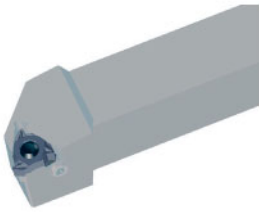
Grade selection > A411

Technical info > A447

Cutting data > A446

Threading tool holder (external)

SWR-B Thin Type



Article	*	Stock	Dimensions [mm]					Inserts
			a	b	L	h	s	
SWR1616H16B	●	●	16	16	100	16	20	RT16.01W-****B
SWR2020K16B	●	●	20	20	125	20	25	RT16.01W-****B
SWR2525M16B	●	●	25	25	150	25	32	RT16.01W-****B
SWR3225P16B	●	●	32	25	170	32	32	RT16.01W-****B
SWR3232P16B	●	●	32	32	170	32	40	RT16.01W-****B

● Ex stock ○ On demand

* With internal cooling

Spare parts		
	Insert	RT16.01W-****B
	h	16-32
	Screw	I60M3.5x12TT (2.7 Nm)
	Screw (shim)	SM4x8C
	Shim	MT16-__M
	Wrench (screw)	WT15IP

Insert
Medium Cut
A432

System code > A438

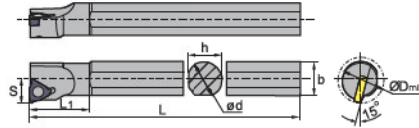
Grade selection > A411

Technical info > A447

Cutting data > A446

Threading tool holder (internal)

SNR-B Thin Type



Article	*	Stock	Dimensions [mm]							Inserts
			ød	b	L	h	s	L ₁	D _{min}	
SNR0016M16B	●	16	15.5	150	15	12	27	20	RT16.01W-****B	
SNR0020Q16B	●	20	19	180	18	14	34	25	RT16.01W-****B	
SNR0025M16B	●	25	24	150	23	17	28.8	32	RT16.01W-****B	
SNR0032R16B	●	32	31	200	30	22	30.9	40	RT16.01W-****B	
SNR0032S16B	●	32	31	250	30	22	30.9	40	RT16.01W-****B	

● Ex stock ○ On demand

* With internal cooling

Spare parts			
	Insert	RT16.01W-****B	RT16.01W-****B
	ød	16	20-32
	Screw	I60M3.5x08TT (2.7 Nm)	I60M3.5x12TT (2.7 Nm)
	Screw (shim)		SM4x8C
	Shim		MT16-__M
	Wrench (screw)	WT15IP	WT15IP

System code > A438

Grade selection > A411

Technical info > A447

Cutting data > A446

Notes

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Threading inserts

	Material group	Composition / structure / heat treatment		Brinell hardness HB	Machining group	Starting values for cutting speed v_c (m/min)			
						HC			
						YBG202	YBG205		
A Turning	P Unalloyed steel	approx. 0,15 % C	annealed	125	1	190	190		
		approx. 0,45 % C	annealed	190	2	175	175		
		approx. 0,45 % C	tempered	250	3	145	145		
		approx. 0,75 % C	annealed	270	4	140	140		
		approx. 0,75 % C	tempered	300	5	135	135		
	B Milling	Low-alloyed steel		annealed	180	6	170	170	
				tempered	275	7	125	125	
				tempered	300	8	115	115	
			tempered	350	9	105	105		
	C Drilling	High-alloyed steel and high-alloyed tool steel		annealed	200	10	125	125	
			hardened and tempered	325	11	95	95		
M Milling	Stainless steel	ferritic/martensitic	annealed	200	12	165	165		
		martensitic	tempered	240	13	135	135		
		austenitic	quench hardened	180	14	155	155		
		austenitic-ferritic		230	15	135	135		
K Milling	Grey cast iron	perlitic/ferritic		180	16	240	240		
		perlitic (martensitic)		260	17	185	185		
	Cast iron with spheroidal graphite	ferritic		160	18	220	220		
		perlitic		250	19	165	165		
	Malleable cast iron	ferritic		130	20	175	175		
		perlitic		230	21	165	165		
N Drilling	Aluminium wrought alloys	cannot be hardened		60	22	800	800		
		hardenable	hardened	100	23	600	600		
	Cast aluminium alloys	$\leq 12\%$ Si, cannot be hardened		75	24	320	320		
		$\leq 12\%$ Si, hardenable	hardened	90	25	240	240		
		$> 12\%$ Si, cannot be hardened		130	26	160	160		
	Copper and copper alloys (bronze/brass)	machining steel, PB > 1%			110	27	160	160	
		CuZn, CuSnZn			90	28	600	600	
	CuSn, Pb-free copper, electrolytic copper			100	29	200	200		
S Milling	Heat-resistant alloys	Fe-based alloys	annealed	200	30	95	95		
			hardened	280	31	50	50		
		Ni or Co bass	annealed	250	32	80	80		
			hardened	350	33	70	70		
		cast	320	34	70	70			
	Titanium alloys	pure titanium		R _m 400	35	145	145		
α and β alloys		hardened	R _m 1050	36	50	50			
H Milling	Hardened steel		hardened and tempered	55 HRC	37				
			hardened and tempered	60 HRC	38				
	Hard cast iron		cast	400	39				
	Hardened cast iron		hardened and tempered	55 HRC	40				
X Milling	Non-metallic materials	Thermoplasts			41				
		Thermosetting plastics			42				
		Plastic, glass-fibre reinforced GFRP			43				
		Plastic, carbon fibre reinforced CFRP			44				
		Graphite			45				
		Wood			46				

Note: The given cutting values are guide values, which were determined under ideal conditions. The values have to be adapted in individual cases. For examples of material for cutting tool groups view page D22.

HC Coated carbide

A

Turning

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Milling

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