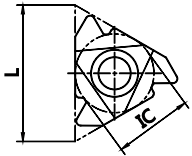


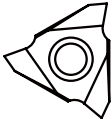




THREADING



INSERTS

1. Insert size	
L(mm)	IC
06	5/32"
08	3/16"
11	1/4"
16	3/8"
22	1/2"
27	5/8"



2. Insert style	
Non -	
U Type -	
V Type -	

3. Type of insert	
E External	N Internal
	
E	N
Right insert (picture)	

4. RH/LH insert	
R Right hand	L Left hand
	
R	L
External insert (picture)	

16
1

2

E
3

R
4

1.50
5

ISO
6

-M
7

BM1525
8

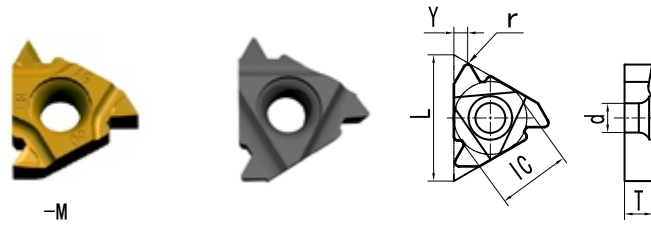
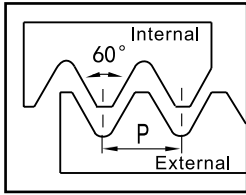
5. Pitch		
Full profile pitch range		
mm	tpi	
0.6-6.0	48-4	
Partial profile pitch range		
	mm	tpi
A	0.5-1.5	48-16
AG	0.5-3.0	48-8
G	1.75-3.0	14-8
N	3.5-5.0	7-5
Q	5.5-6.0	4.5-4
V	6.0-10.0	4-2.5

6. Standard	
60-60°	Partial profile 60°
55-55°	Partial profile 55°
ISO-ISO	ISO metric
UN-60°	American UN
W-55°	Whitworth for BSW BSP
NPT-60°	NPT
NPTF-60°	NPTF
BSPT-55°	British standard pipe thread
TR-30°	Trapeze DIN103
ACME-29°	American ACME
STACME-29°	American STUB ACME
RD-30°	Round DIN403
SAGE-	DIN513

7. Groove type
M- chip breaker
Non-polished groove type

8. Material Code
BM1525 general material, stainless steel preferred
BM1820 stainless steel preferred
DP1825 steel, cast iron
BN1020 aluminum alloy,

ISO 60°



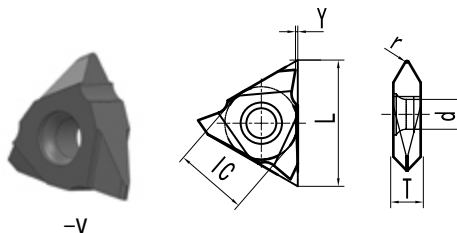
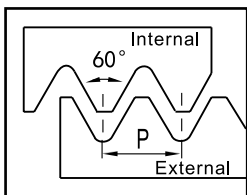
-M

Right	Left	pitch	Material								Dimensions (mm)						
			PMK				P		N		r	Y	L	IC	d	T	
			BM1525		BM1820		BP1825		BN1020								
mm	R	L	R	L	R	L	R	L	R	L							
		1.0	●	○								0.14	0.7				
16ER1.50ISO-M		1.5	●	○								0.22	1.0	16	9.525	4.0	3.65
16ER2.00ISO-M		2.0	●	○								0.29	1.3				
16ER2.50ISO-M		2.5	●	○								0.36	1.5				
16ER3.00ISO-M		3.0	●	○								0.43	1.6				
22ER3.50ISO-M		3.5	●	○								0.51	2.0	22	12.7	5.1	4.9
22ER4.00ISO-M		4.0	●	○								0.58	2.0				
22ER5.00ISO-M		5.0	●	○								0.72	2.4				
22ER6.00ISO-M		6.0	●	○								0.87	2.7				
11ER0.50ISO	11EL0.50ISO	0.5	●	○			○	●				0.07	0.6	11	6.35	3.0	3.18
11ER0.75ISO	11EL0.75ISO	0.75	●	○			○	●				0.11	0.6				
11ER1.00ISO	11EL1.00ISO	1.0	●	○			○	●				0.14	0.7				
11ER1.25ISO	11EL1.25ISO	1.25	●	○			○	●				0.18	0.9				
11ER1.50ISO	11EL1.50ISO	1.5	●	○			○	●				0.22	1.0				
11ER1.75ISO	11EL1.75ISO	1.75	●	○			○	●				0.25	1.1				
11ER2.00ISO	11EL2.00ISO	2.0	●	○			○	●				0.29	1.0				
16ER0.50ISO	16EL0.50ISO	0.5	●	○			○	●				0.07	0.6				
16ER0.75ISO	16EL0.75ISO	0.75	●	○			○	●				0.11	0.6	16	9.525	4.0	3.65
16ER1.00ISO	16EL1.00ISO	1.0	●	○			○	●				0.14	0.7				
16ER1.25ISO	16EL1.25ISO	1.25	●	○			○	●				0.18	0.9				
16ER1.50ISO	16EL1.50ISO	1.5	●	○			○	●				0.22	1.0				
16ER1.75ISO	16EL1.75ISO	1.75	●	○			○	●				0.25	1.2				
16ER2.00ISO	16EL2.00ISO	2	●	○			○	●				0.29	1.3				
16ER2.50ISO	16EL2.50ISO	2.5	●	○			○	●				0.36	1.5				
16ER3.00ISO	16EL3.00ISO	3.0	●	○			○	●				0.43	1.6				
16ER3.50ISO	16EL3.50ISO	3.5	●	○			○	●				0.51	1.6				
22ER3.00ISO	22EL3.00ISO	3.0	●	○			○	●				0.43	2.0	22	12.7	5.1	4.9
22ER3.50ISO	22EL3.50ISO	3.5	●	○			○	●				0.51	2.0				
22ER4.00ISO	22EL4.00ISO	4.0	●	○			○	●				0.58	2.0				
22ER4.50ISO	22EL4.50ISO	4.5	●	○			○	●				0.65	2.2				
22ER5.00ISO	22EL5.00ISO	5.0	●	○			○	●				0.72	2.4				
22ER5.50ISO	22EL5.50ISO	5.5	●	○			○	●				0.79	2.5				
22ER6.00ISO	22EL6.00ISO	6.0	●	○			○	●				0.87	2.7				
27ER5.50ISO	27EL5.50ISO	5.5	●	○			○	●				0.79					
27ER6.00ISO	27EL6.00ISO	6.0	●	○			○	●				0.87		27	15.875	6.35	6.4

● Stock ○ Extraordinary stock

INSERTS

ISO 60°

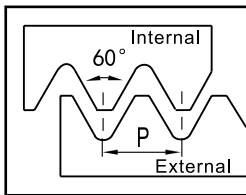


INSERTS

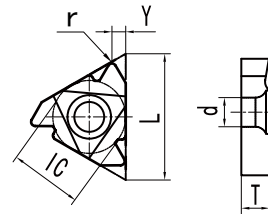
Right	Left	pitch	Material								Dimensions (mm)						
			PMK		P		N										
			BM1525		BM1820		BP1825		BN1020								
			mm	R	L	R	L	R	L	R	L	r	Y	L	IC	d	T
16VER1.00ISO		1.0	●		○							0.14	0.7	16	9.525	4.0	3.65
16VER1.50ISO		1.5	●		○							0.22	1.0				
16VER2.00ISO		2.0	●		○							0.29	1.3				
16VER2.50ISO		2.5	●		○							0.36	1.5				
16VER3.00ISO		3.0	●		○							0.43	1.6				
22VER3.00ISO		3.0	●		○							0.43	2.0	22	12.7	5.1	4.76
22VER4.00ISO		4.0	●		○							0.58	2.0				
22VER5.00ISO		5.0	●		○							0.72	2.4				
27VER6.00ISO		6.0	●		○							0.87	2.7	27	15.875	6.35	6.4
27VER8.00ISO		8.0	○	○								0.87					8.7
27VER10.01ISO		10.0	○	○								0.07					10.0

● Stock ○ Extraordinary stock

ISO 60°



-M

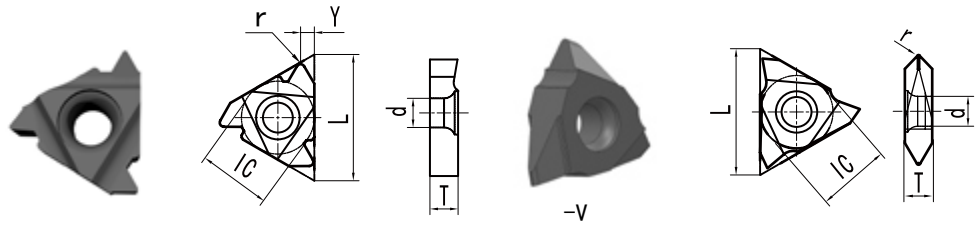
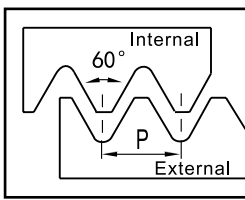


Right	Left	pitch	Material										Dimensions (mm)						
			PMK		P		N												
			BM1525	BM1820	BP1025	BP1825	BN1020					r	Y	L	IC	d	T		
			R	L	R	L	R	L	R	L	R							L	
11NR1.00ISO-M		1.0				●								0.07	0.7	11	6.35	3.0	3.18
11NR1.25ISO-M		1.25				●							0.11	1.0					
11NR1.50ISO-M		1.5				●							0.14	1.0					
16NR1.00ISO-M		1.0	●	○									0.07	0.7	16	9.525	4.0	3.65	
16NR1.50ISO-M		1.5	●	○									0.11	1.0					
16NR2.00ISO-M		2.0	●	○									0.14	1.3					
16NR2.50ISO-M		2.5	●	○									0.18	1.5					
16NR3.00ISO-M		3.0	●	○									0.22	1.6					
22NR3.50ISO-M		3.5	●	○									0.25	2.0	22	12.7	5.1	4.9	
22NR4.00ISO-M		4.0	●	○									0.29	2.0					
22NR5.00ISO-M		5.0	●	○									0.36	2.4					
22NR6.00ISO-M		6.0	●	○									0.43	2.7					
06NR0.50ISO	06NL0.50ISO	0.5	●										0.04		06		2.1	1.91	
06NR0.75ISO	06NL0.75ISO	0.75	●										0.05						
06NR1.00ISO	06NL1.00ISO	1.0	●										0.07						
06NR1.25ISO	06NL1.25ISO	1.25	●										0.09						
06NR1.50ISO	06NL1.50ISO	1.5	●										0.11						
08NR1.75ISO	08NL1.75ISO	0.5	●	○					○		●		0.04		08	4.76	2.1	2.38	
08NR0.75ISO	08NL0.75ISO	0.75	●	○					○		●		0.05						
08NR1.00ISO	08NL1.00ISO	1.0	●	○					○		●		0.07						
08NR1.25ISO	08NL1.25ISO	1.25	●	○					○		●		0.09						
08NR1.50ISO	08NL1.50ISO	1.5	●	○					○		●		0.11						
08NR1.75ISO	08NL1.75ISO	1.75	●	○					○		●		0.13						
11NR0.50ISO	11NL0.50ISO	0.5	●	○					○		●		0.04	0.6	11	6.35	3.0	3.18	
11NR0.75ISO	11NL0.75ISO	0.75	●	○					○		●		0.05	0.6					
11NR1.00ISO	11NL1.00ISO	1.0	●	○					○		●		0.07	0.7					
11NR1.25ISO	11NL1.25ISO	1.25	●	○					○		●		0.09	0.9					
11NR1.50ISO	11NL1.50ISO	1.5	●	○					○		●		0.11	1.0					
11NR1.75ISO	11NL1.75ISO	1.75	●	○					○		●		0.13	1.1					
11NR2.00ISO	11NL2.00ISO	2.0	●	○					○		●		0.14	1.0					
11NR2.50ISO	11NL2.50ISO	2.5	●	○					○		●		0.18	1.0					
16NR0.50ISO	16NL0.50ISO	0.5	●	○					○		●		0.04	0.6	16	9.525	4.0	3.65	
16NR0.75ISO	16NL0.75ISO	0.75	●	○					○		●		0.05	0.6					
16NR1.00ISO	16NL1.00ISO	1	●	○					○		●		0.07	0.7					
16NR1.25ISO	16NL1.25ISO	1.25	●	○					○		●		0.09	0.9					
16NR1.50ISO	16NL1.50ISO	1.5	●	○					○		●		0.11	1.0					
16NR1.75ISO	16NL1.75ISO	1.75	●	○					○		●		0.13	1.2					
16NR2.00ISO	16NL2.00ISO	2	●	○					○		●		0.14	1.3					

● Stock ○ Extraordinary stock

INSERTS

ISO 60°

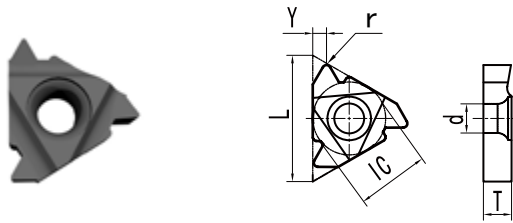


INSERTS

Right	Left	pitch	Material								Dimensions (mm)					
			P M K				P		N							
			BM1525		BM1820		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L	R	L						
16NR2.50ISO	16NL2.50ISO	2.5	●	○	○					0.18	1.5	16	9.525	4.0	3.65	
16NR3.00ISO	16NL3.00ISO	3.0	●	○	○					0.22	1.6					
16NR3.50ISO	16NL3.50ISO	3.5	●	○	○					0.25	1.6					
22NR3.00ISO	22NL3.00ISO	3.0	●	○	○					0.22	2.0	22	12.7	5.1	4.9	
22NR3.50ISO	22NL3.50ISO	3.5	●	○	○					0.25	2.0					
22NR4.00ISO	22NL4.00ISO	4.0	●	○	○					0.29	2.0					
22NR4.50ISO	22NL4.50ISO	4.5	●		○					0.32	2.2					
22NR5.00ISO	22NL5.00ISO	5.0	●		○					0.36	2.4					
22NR5.50ISO	22NL5.50ISO	5.5	●		○					0.4	2.5					
22NR6.00ISO	22NL6.00ISO	6.0	●		○					0.43	2.7	27	15.875	6.35	6.4	
27NR5.50ISO	27NL5.50ISO	5.5	○	○						0.4						
27NR6.00ISO	27NL6.00ISO	6.0								0.43						
16VNR1.00ISO		1.0	●	○						0.07		16	9.525	4.0	3.65	
16VNR1.50ISO		1.5	●	○						0.11						
16VNR2.00ISO		2.0	●	○						0.14						
16VNR2.50ISO		2.5	●	○						0.18						
16VNR3.00ISO		3.0	●	○						0.22						
22VNR3.00ISO		3.0	●							0.22		22	12.7	5.1	4.9	
22VNR4.00ISO		4.0	●	○						0.29						
22VNR5.00ISO		5.0	●	○						0.36						
27VNR6.00ISO		6.0	●	○						0.43		27	15.875	6.35	6.4	
27VNR8.00ISO		8.0	○	○											8.7	
27VNR10.0ISO		10.0	○	○											10.0	

● Stock ○ Extraordinary stock

MJ-60°

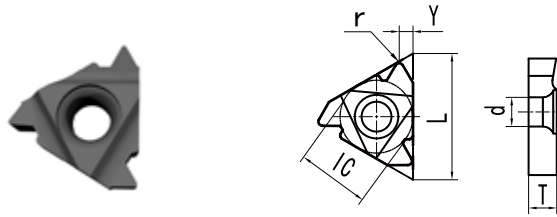


Right	Left	pitch	Material				Dimensions (mm)					
			PM		S							
			BM1525		BS1525		r	Y	L	IC	d	T
			R	L	R	L						
11ER0.75MJ	11EL0.75MJ	0.75	●		●		-	0.6	11	6.35	3.0	3.18
11ER0.8MJ	11EL0.8MJ	0.8	●		●		-	0.6				
11ER1.0MJ	11EL1.0MJ	1.0	●		●		-	0.6				
11ER1.0MJ	11EL1.0MJ	1.0	●		●		-	0.7				
11ER1.25MJ	11EL1.25MJ	1.25	●		●		-	0.9				
11ER1.5MJ	11EL1.5MJ	1.25	●		●		-	1.0				
11ER2.0MJ	11EL2.0MJ	2.0	●		●		-	1.3				
16ER0.7MJ	16EL0.7MJ	0.7	●		●		-	0.6	16	9.525	4.0	3.65
16ER0.75MJ	16EL0.75MJ	0.75	●		●		-	0.6				
16ER0.8MJ	16EL0.8MJ	0.8	●		●		-	0.6				
16ER1.0MJ	16EL1.0MJ	1.0	●		●		-	0.7				
16ER1.25MJ	16EL1.25MJ	1.25	●		●		-	0.9				
16ER1.5MJ	16EL1.5MJ	1.5	●		●		-	1.0				
16ER2.0MJ	16EL2.0MJ	2.0	●		●		-	1.3				
16ER2.5MJ	16EL2.5MJ	2.5	●		●		-	1.5				
16ER3.0MJ	16EL3.0MJ	3.0	●		●		-	1.6				

● Stock ○ Extraordinary stock

INSERTS

MJ-60°

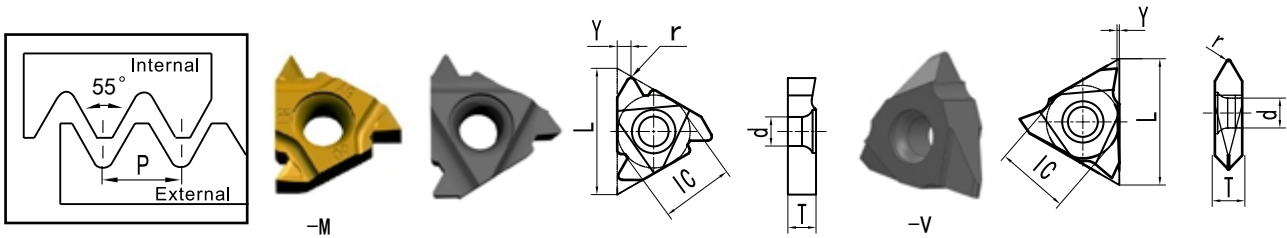


INSERTS

Right	Left	pitch	Material				Dimensions (mm)					
			PM		S							
			BM1525		BS1525		r	Y	L	IC	d	T
			R	L	R	L						
11NR0.75MJ	11NL0.75MJ	0.75	●		●		-	0.6	11	6.35	3.0	3.18
11NR0.8MJ	11NL0.8MJ	0.8	●		●		-	0.6				
11NR1.0MJ	11NL1.0MJ	1.0	●		●		-	0.6				
11NR1.0MJ	11NL1.0MJ	1.0	●		●		-	0.7				
11NR1.25MJ	11NL1.25MJ	1.25	●		●		-	0.9				
11NR1.5MJ	11NL1.5MJ	1.25	●		●		-	1.0				
11NR2.0MJ	11NL2.0MJ	2.0	●		●		-	1.0				
16NR0.7MJ	16NL0.7MJ	0.7	●		●		-	0.6	16	9.525	4.0	3.65
16NR0.75MJ	16NL0.75MJ	0.75	●		●		-	0.6				
16NR0.8MJ	16NL0.8MJ	0.8	●		●		-	0.6				
16NR1.0MJ	16NL1.0MJ	1.0	●		●		-	0.7				
16NR1.25MJ	16NL1.25MJ	1.25	●		●		-	0.9				
16NR1.5MJ	16NL1.5MJ	1.5	●		●		-	1.0				
16NR2.0MJ	16NL2.0MJ	2.0	●		●		-	1.3				
16NR2.5MJ	16NL2.5MJ	2.5	●		●		-	1.5				
16NR3.0MJ	16NL3.0MJ	3.0	●		●		-	1.6				

● Stock ○ Extraordinary stock

W-55°

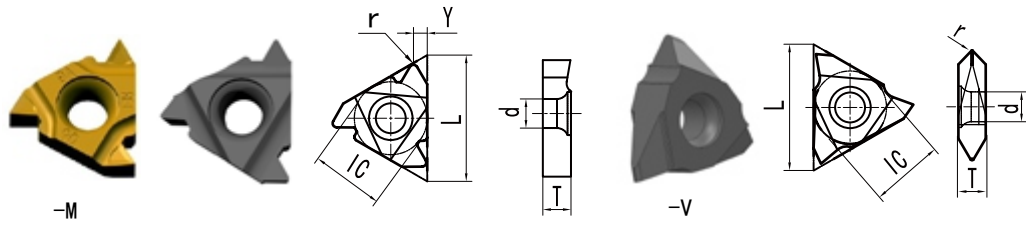
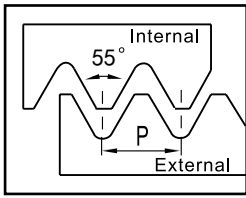


Right	Left	pitch	Material								Dimensions (mm)								
			PMK		P		N												
			BM1525	BM1820	BP1825	BN1020													
			tpi	R	L	R	L	R	L	R	L	r	Y	L	IC	d	T		
16ER14W-M		14	●					○	○	0.25	1.1	16	9.525	4.0	3.65				
16ER11W-M		11	●					○	○	0.32	1.4								
11ER28W	11EL28W	28						○	○	0.13	0.8	11	6.35	3.0	3.18				
11ER26W	11EL26W	26						○	○	0.14	0.8								
11ER24W	11EL24W	24						○	○	0.15	0.8								
11ER20W	11EL20W	20						○	○	0.18	1.0								
11ER19W	11EL19W	19						○	○	0.19	1.0								
11ER18W	11EL18W	18						○	○	0.2	1.0								
11ER16W	11EL16W	16						○	○	0.22	1.0								
11ER14W	11EL14W	14						○	○	0.25	1.0								
16ER28W	16EL28W	28	●					○	○	0.13	0.9					16	9.525	4.0	3.65
16ER26W	16EL26W	26								0.14	0.9								
16ER24W	16EL24W	24	●					○	○	0.15	0.9								
16ER20W	16EL20W	20	●					○	○	0.18	0.9								
16ER19W	16EL19W	19	●					○	○	0.19	0.9								
16ER18W	16EL18W	18	●					○	○	0.2	0.9								
16ER16W	16EL16W	16	●					○	○	0.22	0.9								
16ER14W	16EL14W	14	●					○	○	0.25	1.1								
16ER12W	16EL12W	12	●					○	○	0.29	1.4								
16ER11W	16EL11W	11	●					○	○	0.32	1.4								
16ER10W	16EL10W	10	●					○	○	0.35	1.4	22	12.7	5.1	4.9				
16ER9W	16EL9W	9	●					○	○	0.39	1.7								
16ER8W	16EL8W	8	●					○	○	0.44	1.7								
16ER7W	16EL7W	7								0.5	1.7								
22ER7W	22EL7W	7								0.5	2.4								
22ER6W	22EL6W	6	●					○	○	0.59	2.4								
22ER5W	22EL5W	5	●					○	○	0.7	2.6								
22ER4.5W	22EL4.5W	4.5								0.79	2.7								
22ER4W	22EL4W	4	●					○	○	0.89	2.7								
27ER4.5W	27EL4.5W	4.5								0.79						27	15.875	6.35	6.4
27ER4W	27EL4W	4								0.89		8.7							
27VER4W	27VEL4W	4								0.89		10.5							
27VER3W	27VEL3W	3								1.16									
27VER2.5W	27VEL2.5W	2.5								1.4									

● Stock ○ Extraordinary stock

INSERTS

W-55°

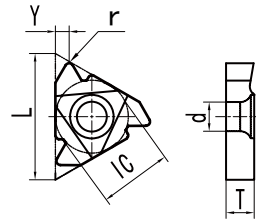
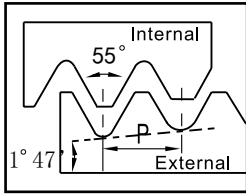


INSERTS

Right	Left	pitch	Material								Dimensions (mm)					
			PMK		P		N									
			BM1525	BM1820	BP1825	BN1020										
			R	L	R	L	R	L	R	L	r	Y	L	IC	d	T
		14	●					○	○	0.25	0.9	16	9.525	4.0	3.65	
16NR11W-M		11	●					○	○	0.32	1.1					
11NR28W	11NL28W	28						○	○	0.13	0.8	11	6.35	3.0	3.18	
11NR26W	11NL26W	26						○	○	0.14	0.8					
11NR24W	11NL24W	24						○	○	0.15	0.8					
11NR20W	11NL20W	20						○	○	0.18	1.0					
11NR19W	11NL19W	19						○	○	0.19	1.0					
11NR18W	11NL18W	18						○	○	0.2	1.0					
11NR16W	11NL16W	16						○	○	0.22	1.0					
11NR14W	11NL14W	14						○	○	0.25	1.0					
16NR28W	16NL28W	28	●					○	○	0.13	0.9	16	9.525	4.0	3.65	
16NR26W	16NL26W	26								0.14	0.9					
16NR24W	16NL24W	24	●					○	○	0.15	0.9					
16NR20W	16NL20W	20	●					○	○	0.18	0.9					
16NR19W	16NL19W	19	●					○	○	0.19	0.9					
16NR18W	16NL18W	18	●					○	○	0.2	0.9					
16NR16W	16NL16W	16	●					○	○	0.22	0.9					
16NR14W	16NL14W	14	●					○	○	0.25	1.1					
16NR12W	16NL12W	12	●					○	○	0.29	1.4					
16NR11W	16NL11W	11	●					○	○	0.32	1.4					
16NR10W	16NL10W	10	●					○	○	0.35	1.4					
16NR9W	16NL9W	9	●					○	○	0.39	1.7					
16NR8W	16NL8W	8	●					○	○	0.44	1.7					
16NR7W	16NL7W	7								0.5	1.7					
22NR7W	22NL7W	7								0.5	2.4	22	12.7	5.1	4.9	
22NR6W	22NL6W	6	●					○	○	0.59	2.4					
22NR5W	22NL5W	5	●					○	○	0.7	2.6					
22NR4.5W	22NL4.5W	4.5								0.79	2.7					
22NR4W	22NL4W	4	●					○	○	0.89	2.7					
27NR4.5W	27NL4.5W	4.5								0.79						27
27NR4W	27NL4W	4								0.89		8.7				
27VNR4W	27VNL4W	4								0.89						
27VNR3W	27VNL3W	3								1.16						
27VNR2.5W	27VNL2.5W	2.5								1.4			10.5			

● Stock ○ Extraordinary stock

BSPT-55°

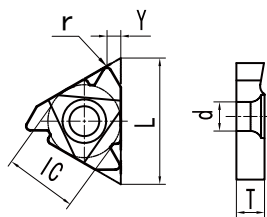
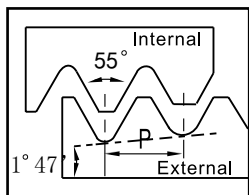


Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020							
			tpi	R	L	R	L	R	L	r	Y	L	IC	d
11ER28BSPT	11EL28BSPT	28	●	○	○	○	○	○	0.13	0.8	11	6.35	3.0	3.18
11ER19BSPT	11EL19BSPT	19	●	○	○	○	○	0.19	1.0					
11ER14BSPT	11EL14BSPT	14	●	○	○	○	○	0.25	1.0					
16ER28BSPT	16EL28BSPT	28	●	○	○	○	○	0.13	1.0	16	9.525	4.0	3.65	
16ER19BSPT	16EL19BSPT	19	●	○	○	○	○	0.19	1.0					
16ER14BSPT	16EL14BSPT	14	●	○	○	○	○	0.25	1.0					
16ER11BSPT	16EL11BSPT	11	●	○	○	○	○	0.32	1.0					

● Stock ○ Extraordinary stock

INSERTS

BSPT-55°

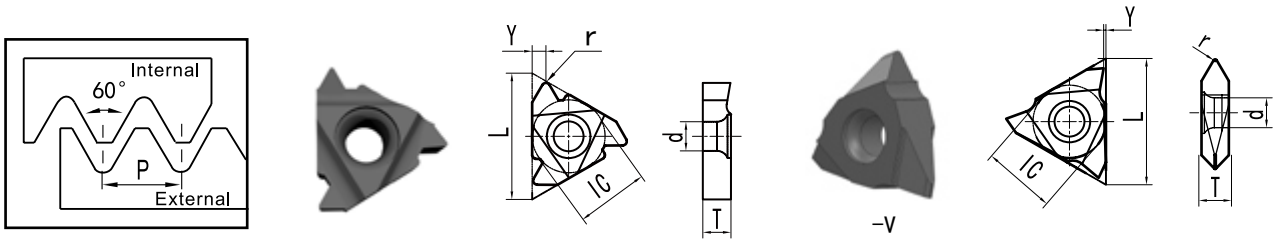


INSERTS

Right	Left	pitch	Material						Dimensions (mm)						
			P M K		P		N								
			BM1525		BP1825		BN1020								
			tpi	R	L	R	L	R	L	r	Y	L	IC	d	T
11NR28BSPT	11NL28BSPT	28	●	○	○	○	○	○	○	0.13	0.8	11	6.35	3.0	3.18
11NR19BSPT	11NL19BSPT	19	●	○	○	○	○	○	0.19	1.0					
11NR14BSPT	11NL14BSPT	14	●	○	○	○	○	○	0.25	1.0					
16NR28BSPT	16NL28BSPT	28	●	○	○	○	○	○	○	0.13	1.0	16	9.525	4.0	3.65
16NR19BSPT	16NL19BSPT	19	●	○	○	○	○	○	0.19	1.0					
16NR14BSPT	16NL14BSPT	14	●	○	○	○	○	○	0.25	1.0					
16NR11BSPT	16NL11BSPT	11	●	○	○	○	○	○	0.32	1.0					

● Stock ○ Extraordinary stock

UN-60°

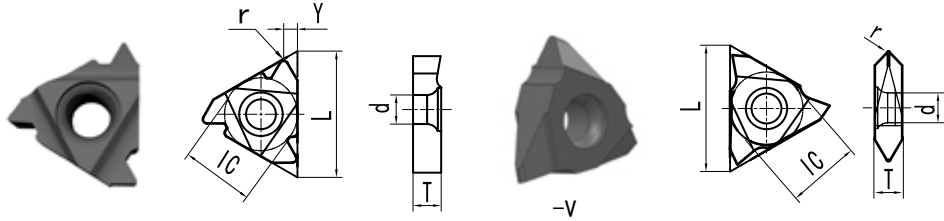
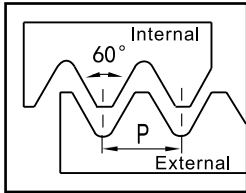


Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
11ER32UN	11EL32UN	32							0.11	0.8	11	6.35	3.0	3.18
11ER28UN	11EL28UN	28							0.13	0.8				
11ER24UN	11EL24UN	24							0.16	0.8				
11ER20UN	11EL20UN	20							0.18	0.8				
11ER18UN	11EL18UN	18							0.2	0.8				
11ER16UN	11EL16UN	16							0.23	1.0				
11ER14UN	11EL14UN	14							0.26	1.0				
11ER12UN	11EL12UN	12							0.3	1.1				
16ER32UN	16EL32UN	32							0.11	0.8	16	9.525	4.0	3.65
16ER28UN	16EL28UN	28							0.13	0.8				
16ER24UN	16EL24UN	24	●	○	○		○		0.16	0.8				
16ER20UN	16EL20UN	20	●	○	○		○		0.18	0.8				
16ER18UN	16EL18UN	18	●	○	○		○		0.2	0.8				
16ER16UN	16EL16UN	16	●	○	○		○		0.23	1.0				
16ER14UN	16EL14UN	14	●	○	○		○		0.26	1.2				
16ER12UN	16EL12UN	12	●	○	○		○		0.3	1.2				
16ER11UN	16EL11UN	11							0.33	1.4				
16ER10UN	16EL10UN	10	●	○	○		○		0.36	1.4				
16ER9UN	16EL9UN	9							0.41	1.6				
16ER8UN	16EL8UN	8	●	○	○		○		0.46	1.6				
22ER7UN	22EL7UN	7							0.52	2.3	22	12.7	5.1	4.9
22ER6UN	22EL6UN	6	○	○					0.61	2.3				
22ER5UN	22EL5UN	5							0.75	2.5				
22ER4.5UN	22EL4.5UN	4.5							0.83	2.6				
22ER4UN	22EL4UN	4	○	○	○				0.93	2.9				
27ER4.5UN	27EL4.5UN	4.5							2.6	27				
27ER4UN	27EL4UN	4							2.9					
27VER4UN	27VEL4UN	4							4.35					
27VER3UN	27VEL3UN	3							5.0					

● Stock ○ Extraordinary stock

INSERTS

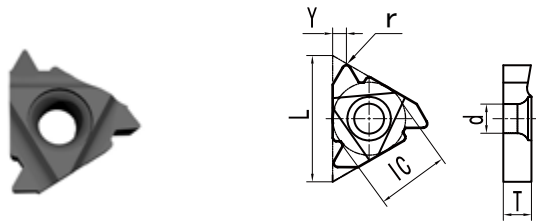
UN-60°



Right	Left	pitch	Material						Dimensions (mm)						
			P M K		P		N		r	Y	L	IC	d	T	
			BM1525		BP1825		BN1020								
			tpi	R	L	R	L	R	L						
11NR32UN	11NL32UN	32	○		○	○	○	0.05	0.8	11	6.35	3.0	3.18		
11NR28UN	11NL28UN	28	○		○	○	○	0.07	0.8						
11NR24UN	11NL24UN	24	●		○	○	○	0.08	0.8						
11NR20UN	11NL20UN	20	●		○	○	○	0.09	0.8						
11NR18UN	11NL18UN	18	●		○	○	○	0.1	0.8						
11NR16UN	11NL16UN	16	●		○	○	○	0.11	1.0						
11NR14UN	11NL14UN	14	●		○	○	○	0.13	1.0						
11NR12UN	11NL12UN	12	●		○	○	○	0.15	1.1						
16NR32UN	16NL32UN	32						0.05	0.8	16	9.525	4.0	3.65		
16NR28UN	16NL28UN	28						0.07	0.8						
16NR24UN	16NL24UN	24	●		○	○	○	0.08	0.8						
16NR20UN	16NL20UN	20	●		○	○	○	0.09	0.8						
16NR18UN	16NL18UN	18	●		○	○	○	0.1	0.8						
16NR16UN	16NL16UN	16	●		○	○	○	0.11	1.0						
16NR14UN	16NL14UN	14	●		○	○	○	0.13	1.2						
16NR12UN	16NL12UN	12	●		○	○	○	0.15	1.2						
16NR11UN	16NL11UN	11						0.16	1.4						
16NR10UN	16NL10UN	10	●		○	○	○	0.18	1.4						
16NR9UN	16NL9UN	9						0.2	1.4						
16NR8UN	16NL8UN	8	●		○	○	○	0.23	1.4						
22NR7UN	22NL7UN	7						0.26	2.3	22	12.7	5.1	4.9		
22NR6UN	22NL6UN	6						0.32	2.3						
22NR5UN	22NL5UN	5						0.38	2.5						
22NR4.5UN	22NL4.5UN	4.5						0.41	2.5						
22NR4UN	22NL4UN	4						0.46	2.5						
27NR4.5UN	27NL4.5UN	4.5							2.5	27	15.875	6.35	6.4		
27NR4UN	27NL4UN	4							2.5				8.7		
27VNR4UN	27VNL4UN	4													
27VNR3UN	27VNL3UN	3													

● Stock ○ Extraordinary stock

UNJ-60°

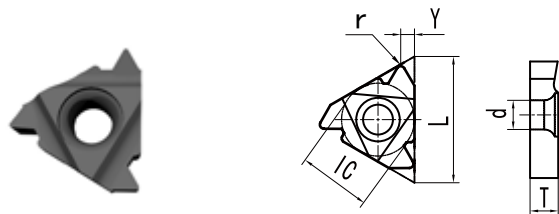


Right	Left	pitch	Material				Dimensions (mm)					
			P M		S		r	Y	L	IC	d	T
			BM1525		BS1525							
tpi	R	L	R	L								
11ER48UNJ	11EL48UNJ	48					-	0.5	11	6.35	3.0	3.18
11ER44UNJ	11EL44UNJ	44					-	0.6				
11ER40UNJ	11EL40UNJ	40					-	0.6				
11ER36UNJ	11EL36UNJ	36					-	0.6				
11ER32UNJ	11EL32UNJ	32					-	0.7				
11ER28UNJ	11EL28UNJ	28					-	0.7				
11ER24UNJ	11EL24UNJ	24					-	0.8				
11ER20UNJ	11EL20UNJ	20					-	0.9				
11ER18UNJ	11EL18UNJ	18					-	1.0				
11ER16UNJ	11EL16UNJ	16					-	1.1				
11ER14UNJ	11EL14UNJ	14			○		-	1.2				
16ER48UNJ	16EL48UNJ	48	●		○		-	0.5	16	9.525	4.0	3.65
16ER44UNJ	16EL44UNJ	44	●		○		-	0.6				
16ER40UNJ	16EL40UNJ	40	●		○		-	0.6				
16ER36UNJ	16EL36UNJ	36	●		○		-	0.6				
16ER32UNJ	16EL32UNJ	32	●		○		-	0.7				
16ER28UNJ	16EL28UNJ	28	●				-	0.7				
16ER24UNJ	16EL24UNJ	24	●		○		-	0.8				
16ER20UNJ	16EL20UNJ	20	●				-	0.9				
16ER18UNJ	16EL18UNJ	18	○	○	○		-	1.0				
16ER16UNJ	16EL16UNJ	16					-	1.1				
16ER14UNJ	16EL14UNJ	14					-	1.2				
16ER13UNJ	16EL13UNJ	13					-	1.3				
16ER12UNJ	16EL12UNJ	12					-	1.3				
16ER11UNJ	16EL11UNJ	11	○	○	○		-	1.5				
16ER10UNJ	16EL10UNJ	10					-	1.5				
16ER9UNJ	16EL9UNJ	9					-	1.7				
16ER8UNJ	16EL8UNJ	8					-	1.6				

● Stock ○ Extraordinary stock

INSERTS

UNJ-60°

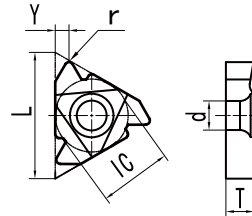
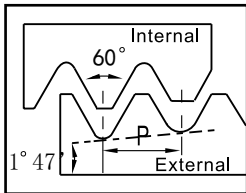


INSERTS

Right	Left	pitch	Material				Dimensions (mm)					
			PM		S		r	Y	L	IC	d	T
			BM1525		BS1525							
			R	L	R	L						
11NR48UNJ	11NL48UNJ	48					-	0.5	11	6.35	3.0	3.18
11NR44UNJ	11NL44UNJ	44					-	0.6				
11NR40UNJ	11NL40UNJ	40					-	0.6				
11NR36UNJ	11NL36UNJ	36					-	0.6				
11NR32UNJ	11NL32UNJ	32					-	0.7				
11NR28UNJ	11NL28UNJ	28					-	0.7				
11NR24UNJ	11NL24UNJ	24					-	0.8				
11NR20UNJ	11NL20UNJ	20					-	0.9				
11NR18UNJ	11NL18UNJ	18					-	1.0				
11NR16UNJ	11NL16UNJ	16					-	1.1				
11NR14UNJ	11NL14UNJ	14			○		-	1.2				
16NR48UNJ	16NL48UNJ	48	●		○		-	0.5	16	9.525	4.0	3.65
16NR44UNJ	16NL44UNJ	44	●		○		-	0.6				
16NR40UNJ	16NL40UNJ	40	●		○		-	0.6				
16NR36UNJ	16NL36UNJ	36	●		○		-	0.6				
16NR32UNJ	16NL32UNJ	32	●		○		-	0.7				
16NR28UNJ	16NL28UNJ	28	●				-	0.7				
16NR24UNJ	16NL24UNJ	24	●		○		-	0.8				
16NR20UNJ	16NL20UNJ	20	●				-	0.9				
16NR18UNJ	16NL18UNJ	18	○	○	○		-	1.0				
16NR16UNJ	16NL16UNJ	16					-	1.1				
16NR14UNJ	16NL14UNJ	14					-	1.2				
16NR13UNJ	16NL13UNJ	13					-	1.3				
16NR12UNJ	16NL12UNJ	12					-	1.3				
16NR11UNJ	16NL11UNJ	11	○	○	○		-	1.5				
16NR10UNJ	16NL10UNJ	10					-	1.5				
16NR9UNJ	16NL9UNJ	9					-	1.7				
16NR8UNJ	16NL8UNJ	8					-	1.6				

● Stock ○ Extraordinary stock

NPT-60°

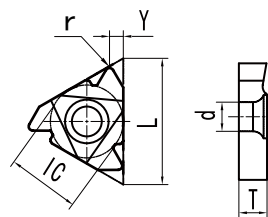
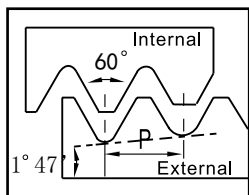


Right	Left	pitch	Material						Dimensions (mm)						
			P M K		P		N								
			BM1525		BP1825		BN1020								
			tpi	R	L	R	L	R	L	r	Y	L	IC	d	T
11ER27NPT	11EL27NPT	27	●								1.0	11	6.35	3.0	3.18
11ER18NPT	11EL18NPT	18	●						0.03	1.0					
11ER14NPT	11EL14NPT	14	●						0.04	1.1					
16ER27NPT	16EL27NPT	27	●	○						1.0	16	9.525	4.0	3.65	
16ER18NPT	16EL18NPT	18	●	○					0.03	1.0					
16ER14NPT	16EL14NPT	14	●	○					0.04	1.3					
16ER11.5NPT	16EL11.5NPT	11.5	●	○					0.05	1.5					
16ER8NPT	16EL8NPT	8	●	○					0.07	1.8					

● Stock ○ Extraordinary stock

INSERTS

NPT-60°

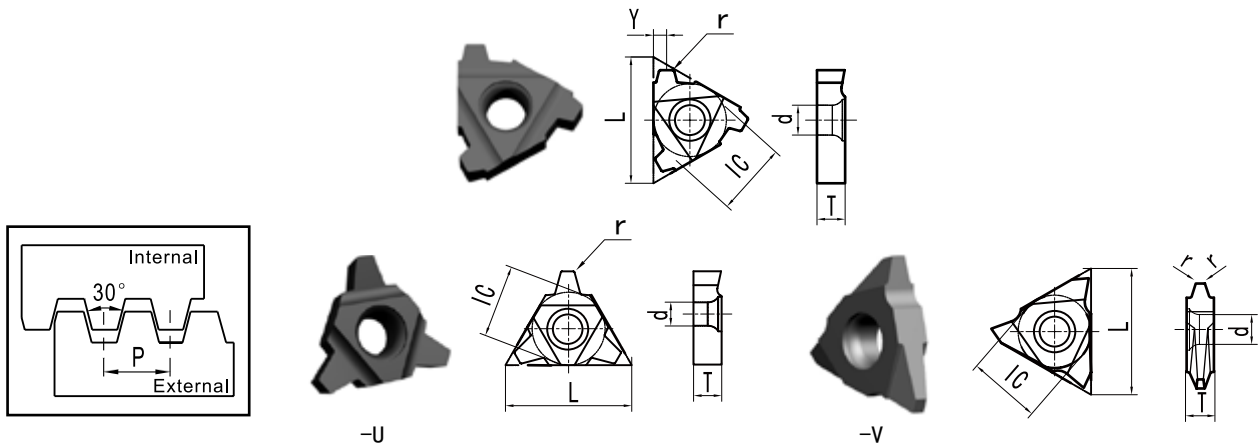


INSERTS

Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
11NR27NPT	11NL27NPT	27	●		○					1.0	11	6.35	3.0	3.18
11NR18NPT	11NL18NPT	18	●	○	○	○		0.03	1.0					
11NR14NPT	11NL14NPT	14	●	○	○	○		0.04	1.1					
16NR27NPT	16NL27NPT	27	●	○	○	○			1.0	16	9.525	4.0	3.65	
16NR18NPT	16NL18NPT	18	●	○	○	○		0.03	1.0					
16NR14NPT	16NL14NPT	14	●	○	○	○		0.04	1.3					
16NR11.5NPT	16NL11.5NPT	11.5	●	○	○	○		0.05	1.5					
16NR8NPT	16NL8NPT	8	●	○	○	○		0.07	1.8					

● Stock ○ Extraordinary stock

TR-30°

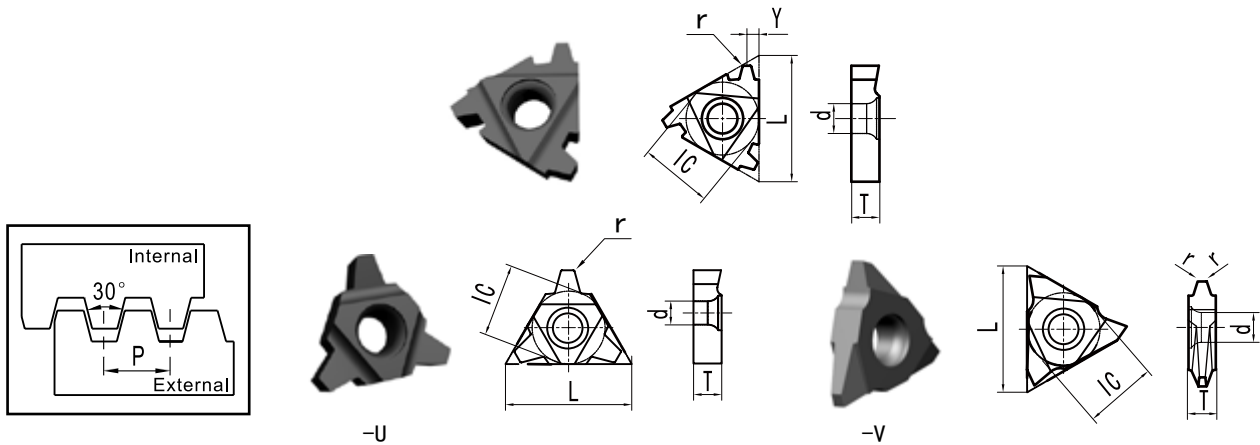


Right	Left	pitch	Material						Dimensions (mm)							
			PMK		P		N		r	Y	L	IC	d	T		
			BM1525		BP1825		BN1020									
			R	L	R	L	R	L	R	L	R	L	R	L		
16ER1.5TR	16EL1.5TR	1.5	●								0.1	1.1	16	9.525	4.0	3.65
16ER2.0TR	16EL2.0TR	2.0	●								0.1	1.3				
16ER3.0TR	16EL3.0TR	3.0	●								0.1	1.5				
22ER4.0TR	22EL4.0TR	4.0	●								0.1	1.9	22	12.7	5.1	4.9
22ER5.0TR	22EL5.0TR	5.0	●								0.1	2.2				
22ER6.0TR	22EL6.0TR	6.0	●								0.25	2.3				
27ER6.0TR	27EL6.0TR	6.0	●								0.25	2.5	27	15.875	6.35	6.4
27ER7.0TR	27EL7.0TR	7.0	●								0.25	2.7				
22VER4.0TR	22VEL4.0TR	4.0	●								0.1	-				
22VER5.0TR	22VEL5.0TR	5.0	●								0.1	-	22	12.7	5.1	4.76
22VER6.0TR	22VEL6.0TR	6.0	●								0.25	-				
27VER6.0TR	27VEL6.0TR	6.0	●								0.25	-				
27VER7.0TR	27VEL7.0TR	7.0	●								0.25	-	27	15.875	6.35	6.4
27VER8.0TR	27VEL8.0TR	8.0	●								0.25	-				
27VER9.0TR	27VEL9.0TR	9.0	●								0.25	-				
27VER10TR	27VEL10TR	10.0	●								0.3	-				8.7
27VER12TR	27VEL12TR	12.0	●								0.5	-				
35VER14TR	35VEL14TR	14.0	○								0.5	-	35	20	6.35	10.7
16UER3.0TR		3.0	●								0.1	-	16	9.525	4.0	3.65
16UER4.0TR		4.0	●								0.1	-				
16UER5.0TR		5.0	●								0.1	-				
16UER6.0TR		6.0	●								0.25	-	22	12.7	5.1	4.9
22UER6.0TR		6.0	●								0.25	-				
22UER7.0TR		7.0	●								0.25	-				
22UER8.0TR		8.0	●								0.25	-	27	15.875	6.35	6.4
27UER7.0TR		7.0	●								0.25	-				
27UER8.0TR		8.0	●								0.25	-				
27UER9.0TR		9.0	●								0.25	-				
27UER10.0TR		10.0	●								0.3	-				

● Stock ○ Extraordinary stock

INSERTS

TR-30°

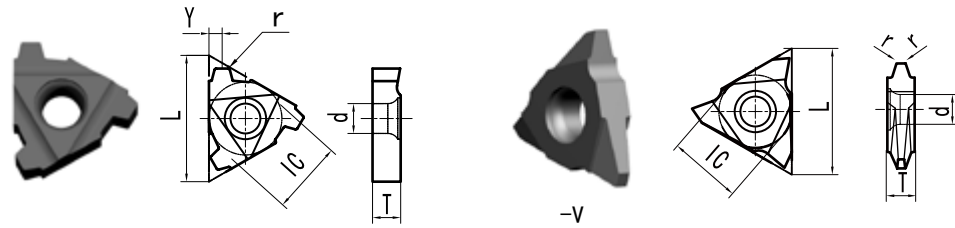
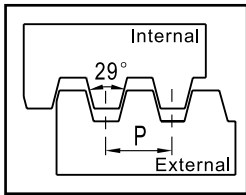


INSERTS

Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
11NR1.5TR	11NL1.5TR	1.5	●						0.1	0.7	11	6.35	3.0	3.18
11NR2.0TR	11NL2.0TR	2.0	●					0.1	0.85					
16NR1.5TR	16NL1.5TR	1.5	●					0.1	1.1					
16NR2.0TR	16NL2.0TR	2.0	●					0.1	1.3	16	9.525	4.0	3.65	
16NR3.0TR	16NL3.0TR	3.0	●					0.1	1.5					
22NR4.0TR	22NL4.0TR	4.0	●					0.1	1.9					
22NR5.0TR	22NL5.0TR	5.0	●					0.1	2.2	22	12.7	5.1	4.9	
22NR6.0TR	22NL6.0TR	6.0	●					0.25	2.3					
27NR6.0TR	27NL6.0TR	6.0	●					0.25	2.5					
27NR7.0TR	27NL7.0TR	7.0	●					0.25	2.7	27	15.875	6.35	6.4	
22VNR4.0TR	22VNL4.0TR	4.0	●					0.1	-					
22VNR5.0TR	22VNL5.0TR	5.0	●					0.1	-					
22VNR6.0TR	22VNL6.0TR	6.0	●					0.25	-	22	12.7	5.1	4.76	
27VNR6.0TR	27VNL6.0TR	6.0	●					0.25	-					
27VNR7.0TR	27VNL7.0TR	7.0	●					0.25	-					
27VNR8.0TR	27VNL8.0TR	8.0	●					0.25	-	27	15.875	6.35	6.4	
27VNR9.0TR	27VNL9.0TR	9.0	●					0.25	-					
27VNR10TR	27VNL10TR	10.0	●					0.3	-					
27VNR12TR	27VNL12TR	12.0	●					0.5	-	27	15.875	6.35	8.7	
35VER14TR	35VEL14TR	14.0	○					0.5	-					
16UNR3.0TR		3.0	●					0.1	-					
16UNR4.0TR		4.0	●					0.1	-	16	9.525	4.0	3.65	
16UNR5.0TR		5.0	●					0.1	-					
16UNR6.0TR		6.0	●					0.25	-					
22UNR6.0TR		6.0	●					0.25	-	22	12.7	5.1	4.9	
22UNR7.0TR		7.0	●					0.25	-					
22UNR8.0TR		8.0	●					0.25	-					
27UNR7.0TR		7.0	●					0.25	-	27	15.875	6.35	6.4	
27UNR8.0TR		8.0	●					0.25	-					
27UNR9.0TR		9.0	●					0.25	-					
27UNR10.0TR		10.0	●					0.3	-					

● Stock ○ Extraordinary stock

ACME-29°

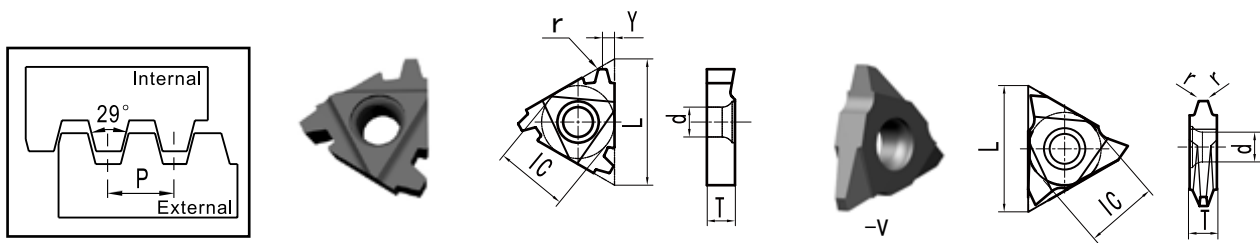


Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020							
			tpi	R	L	R	L	R	L	r	Y	L	IC	d
16ER16ACME	16EL16ACME	16	●						0.08	1.1	16	9.525	4.0	3.65
16ER14ACME	16EL14ACME	14	●					0.08	1.2					
16ER12ACME	16EL12ACME	12	●					0.1	1.2					
16ER10ACME	16EL10ACME	10	●					0.12	1.4					
16ER8ACME	16EL8ACME	8	●					0.12	1.5					
16ER6ACME	16EL6ACME	6	●					0.2	1.5					
22ER6ACME	22EL6ACME	6	●					0.2	2.1	22	12.7	5.1	4.76	
22ER5ACME	22EL5ACME	5	●					0.25	2.1					
22ER4ACME	22EL4ACME	4	●					0.3	2.3					
27ER4ACME	27EL4ACME	4	●					0.3	2.1	27	15.875	6.35	6.4	
22VER6ACME	22VEL6ACME	6	●					0.2		22	12.7	5.1	4.76	
22VER5ACME	22VEL5ACME	5	●					0.25						
22VER4ACME	22VEL4ACME	4	●					0.3						
27VER3.5ACME	27VEL3.5ACME	3.5	●					0.3	2.4	27	15.875	6.35	6.4	
27VER3ACME	27VEL3ACME	3	●					0.3	2.4					

● Stock ○ Extraordinary stock

INSERTS

ACME-29°

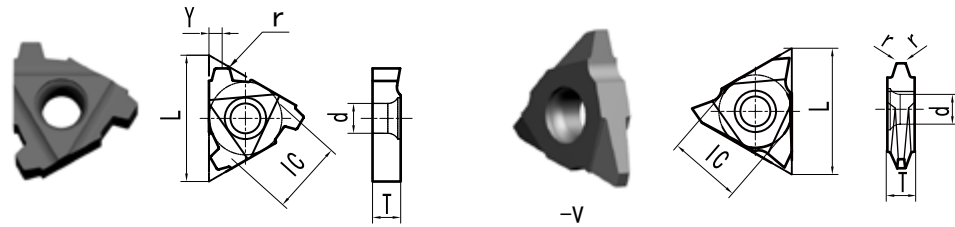
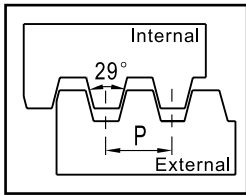


INSERTS

Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
	11NL16ACME	16	●						0.08	1.1	11	6.35	3.0	3.18
11NR14ACME	11NL14ACME	14	●						0.08	1.2				
16NR16ACME	16NL16ACME	16	●						0.08	1.1	16	9.525	4.0	3.65
16NR14ACME	16NL14ACME	14	●						0.08	1.2				
16NR12ACME	16NL12ACME	12	●						0.1	1.2				
16NR10ACME	16NL10ACME	10	●						0.12	1.4				
16NR8ACME	16NL8ACME	8	●						0.12	1.5				
16NR6ACME	16NL6ACME	6	●						0.2	1.5				
22NR6ACME	22NL6ACME	6	●						0.2	2.1				
22NR5ACME	22NL5ACME	5	●						0.25	2.1	22	12.7	5.1	4.76
22NR4ACME	22NL4ACME	4	●						0.3	2.3				
27NR4ACME	27NL4ACME	4	●						0.3	2.1	27	15.875	6.35	6.4
22VNR6ACME	22VNL6ACME	6	●						0.2					
22VNR5ACME	22VNL5ACME	5	●						0.25		22	12.7	5.1	4.76
22VNR4ACME	22VNL4ACME	4	●						0.3					
27VNR3.5ACME	27VNL3.5ACME	3.5	●						0.3	2.4	27	15.875	6.35	6.4
27VNR3ACME	27VNL3ACME	3	●						0.3	2.4				

● Stock ○ Extraordinary stock

STUB ACME-29°

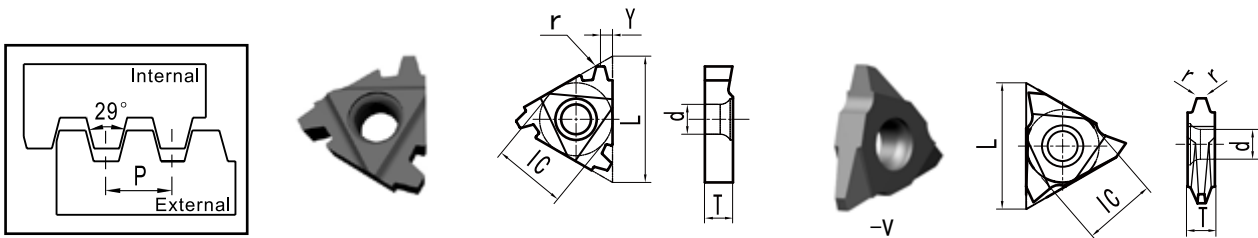


Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N		r	Y	L	IC	d	T
			BM1525	BP1825	BN1020									
tpi	R	L	R	L	R	L								
16ER16STACME	16EL16STACME	16	●						0.08	1.0	16	9.525	4.0	3.65
16ER14STACME	16EL14STACME	14	●					0.08	1.1					
16ER12STACME	16EL12STACME	12	●					0.1	1.2					
16ER10STACME	16EL10STACME	10	●					0.1	1.3					
16ER8STACME	16EL8STACME	8	●					0.16	1.5					
16ER6STACME	16EL6STACME	6	●					0.2	1.5					
22ER6STACME	22EL6STACME	6	●					0.2	1.8	22	12.7	5.1	4.9	
22ER5STACME	22EL5STACME	5	●					0.25	2.3					
22ER4STACME	22EL4STACME	4	●					0.3	2.3					
27ER4STACME	27EL4STACME	4	●					0.3	2.5	27	15.875	6.35	6.4	
27VER3STACME	27VEL3STACME	3	●					0.3						

● Stock ○ Extraordinary stock

INSERTS

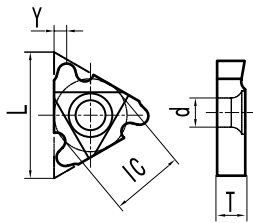
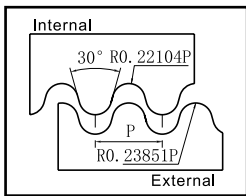
STUB ACME-29°



Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
11NR16STACME	11NL16STACME	16	●						0.08	1.1	11	6.35	3.0	3.18
11NR14STACME	11NL14STACME	14	●					0.08	1.2					
16NR16STACME	16NL16STACME	16	●						0.08	1.1	16	9.525	4.0	3.65
16NR14STACME	16NL14STACME	14	●					0.08	1.2					
16NR12STACME	16NL12STACME	12	●					0.1	1.2					
16NR10STACME	16NL10STACME	10	●					0.12	1.4					
16NR8STACME	16NL8STACME	8	●					0.12	1.5					
16NR6STACME	16NL6STACME	6	●					0.2	1.5					
22NR6STACME	22NL6STACME	6	●					0.2	2.1	22	12.7	5.1	4.76	
22NR5STACME	22NL5STACME	5	●					0.25	2.1					
22NR4STACME	22NL4STACME	4	●					0.3	2.3					
27NR4STACME	27NL4STACME	4	●					0.3	2.1	27	15.875	6.35	6.4	
27VNR3STACME	27VNL3STACME	3	●					0.2						

● Stock ○ Extraordinary stock

RD-30°

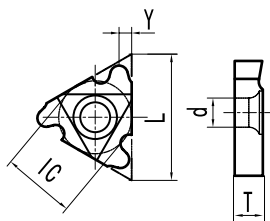
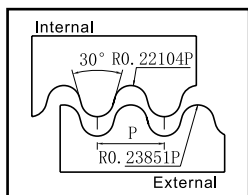


Right	Left	pitch	Material						Dimensions (mm)						
			PMK		P		N								
			BM1525		BP1825		BN1020								
			R	L	R	L	R	L	r	Y	L	IC	d	T	
16ER10RD	16EL10RD	10	●							0.61	1.2	16	9.525	4.0	3.65
16ER8RD	16EL8RD	8	●						0.76	1.3					
16ER6RD	16EL6RD	6	●						1.01	1.7					
22ER6RD	22EL6RD	6	●						1.01	2.0	22	12.7	5.1	4.9	
22ER5RD	22EL5RD	5	●						1.21	2.0					
22ER4RD	22EL4RD	4	●						1.51	2.3					

● stock ○ Extraordinary stock

INSERTS

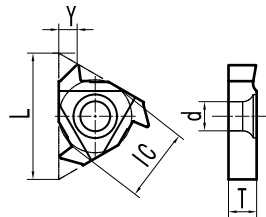
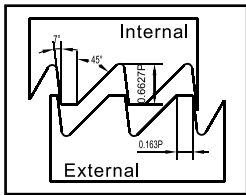
RD-30°



Right	Left	pitch	Material						Dimensions (mm)					
			P M K		P		N		r	Y	L	IC	d	T
			BM1525		BP1825		BN1020							
			R	L	R	L	R	L						
	16NL10RD	10	●						0.56	1.2	16	9.525	4.0	3.65
16NR8RD	16NL8RD	8	●					0.7	1.3					
16NR6RD	16NL6RD	6	●					0.94	1.7					
22NR6RD	22NL6RD	6	●					0.94	2.0	22	12.7	5.1	4.9	
22NR5RD	22NL5RD	5	●					1.12	2.0					
22NR4RD	22NL4RD	4	●					1.4	2.3					

● Stock ○ Extraordinary stock

ABUT

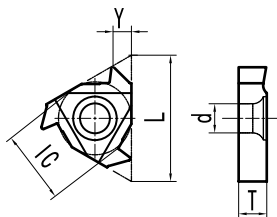
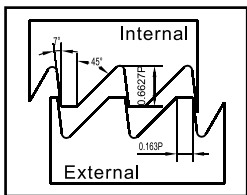


Right	Left	pitch	Material						Dimensions (mm)						
			PMK		P		N								
			BM1525		BP1825		BN1020								
			tpi	R	L	R	L	R	L	r	Y	L	IC	d	T
11ER20ABUT	11EL20ABUT	20	●							-	0.9	11	6.35	3.0	3.18
11ER16ABUT	11EL16ABUT	16	●							-	0.9				
16ER20ABUT	16EL20ABUT	20	●							-	0.9	16	9.525	4.0	3.65
16ER16ABUT	16EL16ABUT	16	●							-	0.9				
16ER12ABUT	16EL12ABUT	12	●							-	1.0				
16ER10ABUT	16EL10ABUT	10	●							-	1.2				
22ER8ABUT	22EL8ABUT	8	●							-	1.3	22	12.7	5.1	4.9
22ER6ABUT	22EL6ABUT	6	●							-	1.5				

● Stock ○ Extraordinary stock

INSERTS

ABUT

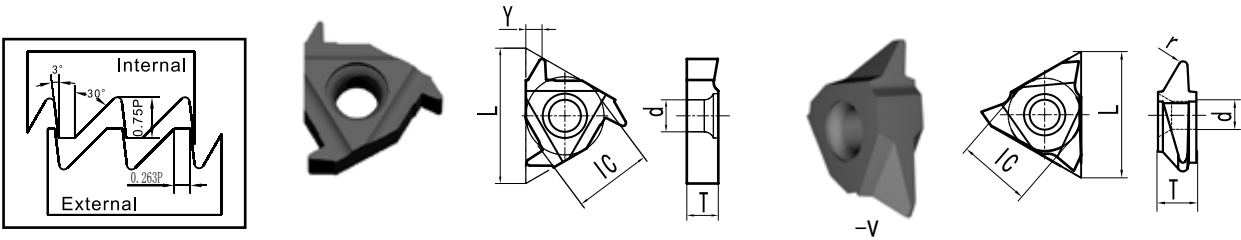


INSERTS

Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
tpi	R	L	R	L	R	L								
11NR20ABUT	11NL20ABUT	20	●						-	0.9	11	6.35	3.0	3.18
11NR16ABUT	11NL16ABUT	16	●						-	0.9				
16NR20ABUT	16NL20ABUT	20	●						-	0.9	16	9.525	4.0	3.65
16NR16ABUT	16NL16ABUT	16	●						-	0.9				
16NR12ABUT	16NL12ABUT	12	●						-	1.0				
16NR10ABUT	16NL10ABUT	10	●						-	1.2				
22NR8ABUT	22NL8ABUT	8	●						-	1.3	22	12.7	5.1	4.9
22NR6ABUT	22NL6ABUT	6	●						-	1.5				

● Stock ○ Extraordinary stock

SAGE

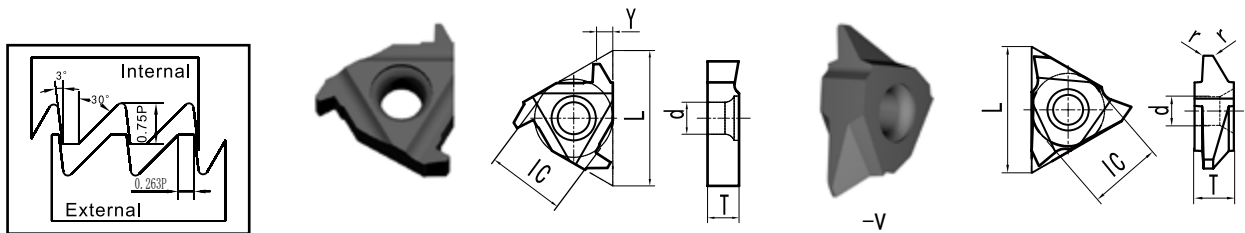


Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N		r	Y	L	IC	d	T
			BM1525	BP1825	BN1020	R	L	R						
mm	R	L	R	L	R	L								
	16EL2. OSAGE	2.0	●						0.25	1.3	16	9.525	4.0	3.65
22ER3. OSAGE	22EL3. OSAGE	3.0	○						0.37	1.9	22	12.7	5.1	4.9
22ER4. OSAGE	22EL4. OSAGE	4.0	●						0.5	2.4				
27ER5. OSAGE	27EL5. OSAGE	5.0	○						0.62	3.3	27	15.875	6.35	6.4
22UER5. OSAGE	22UEL5. OSAGE	5.0	○						0.62	11	22	12.7	5.1	4.9
22UER6. OSAGE	22UEL6. OSAGE	6.0	○						0.75	11				
22VER2. OSAGE	22VEL2. OSAGE	2.0	○						0.25	-	22	12.7	5.1	4.76
22VER3. OSAGE	22VEL3. OSAGE	3.0	○						0.37	-				
22VER4. OSAGE	22VEL4. OSAGE	4.0	○						0.5	-				
27VER5. OSAGE	27VEL5. OSAGE	5.0	○						0.62	-				
27VER6. OSAGE	27VEL5. OSAGE	6.0	●						0.75	2.0	27	15.875	6.35	6.4
27VER7. OSAGE	27VEL7. OSAGE	7.0	●						0.87	2.5				
27VER8. OSAGE	27VEL8. OSAGE	8.0	○						0.99	3.0				

● Stock ○ Extraordinary stock

INSERTS

SAGE

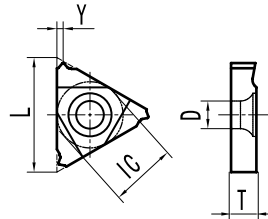
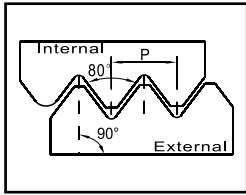


INSERTS

Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
16NR2. OSAGE	16NL2. OSAGE	2.0	●						0.08	1.3	16	9.525	4.0	3.65
22NR3. OSAGE	22NL3. OSAGE	3.0	○						0.1	1.9	22	12.7	5.1	4.9
22NR4. OSAGE	22NL4. OSAGE	4.0	●						0.1	2.4				
27NR5. OSAGE	27NL5. OSAGE	5.0	○						0.1	3.3	27	15.875	6.35	6.4
22UNR5. OSAGE	22UNL5. OSAGE	5.0	○						0.1	11	22	12.7	5.1	4.9
22UNR6. OSAGE	22UNL6. OSAGE	6.0	○						0.2	11				
22VNR2. OSAGE	22VNL2. OSAGE	2.0	○						0.08	-	22	12.7	5.1	4.76
22VNR3. OSAGE	22VNL3. OSAGE	3.0	○						0.1	-				
22VNR4. OSAGE	22VNL4. OSAGE	4.0	○						0.1	-				
27VNR5. OSAGE	27VNL5. OSAGE	5.0	○						0.1	-	27	15.875	6.35	6.4
27VNR6. OSAGE	27VNL5. OSAGE	6.0	●						0.2	2.0				
27VNR7. OSAGE	27VNL7. OSAGE	7.0	●						0.2	2.5				
27VNR8. OSAGE	27VNL8. OSAGE	8.0	○						0.2	3.0				8.7

● Stock ○ Extraordinary stock

Pg-80°

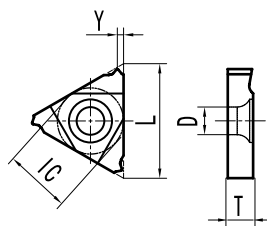
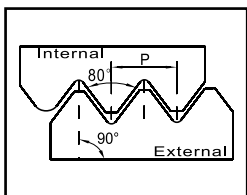


Right	Left	pitch	Material						Dimensions (mm)						
			PMK		P		N								
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T	
		tpi	R	L	R	L	R	L							
11ER20Pg	11EL20Pg	20	●							-	0.9	11	6.35	3.0	3.18
11ER18Pg	11EL18Pg	18	●							-	1				
11ER16Pg	11EL16Pg	16	●							-	1.1				
16ER20Pg	16EL20Pg	20	●							-	0.9	16	9.525	4.0	3.65
16ER18Pg	16EL18Pg	18	●							-	1				
16ER16Pg	16EL16Pg	16	●							-	1.1				

● Stock ○ Extraordinary stock

INSERTS

Pg-80°

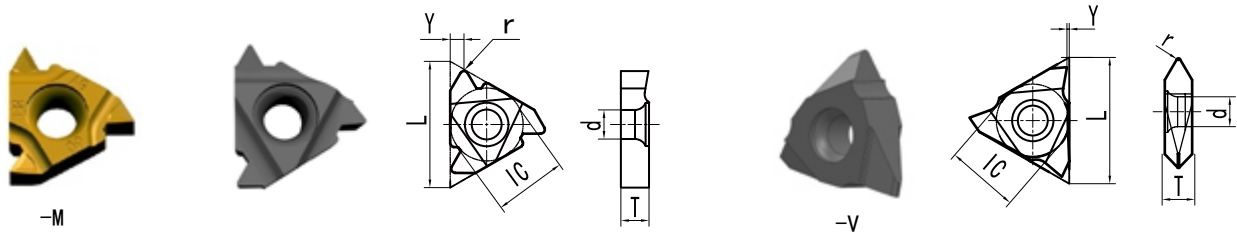


INSERTS

Right	Left	pitch	Material						Dimensions (mm)					
			PMK		P		N							
			BM1525		BP1825		BN1020		r	Y	L	IC	d	T
			R	L	R	L	R	L						
11NR20Pg	11NL20Pg	20	●						-	0.9	11	6.35	3.0	3.18
11NR18Pg	11NL18Pg	18	●					-	1					
11NR16Pg	11NL16Pg	16	●					-	1.1					
16NR20Pg	16NL20Pg	20	●						-	0.9	16	9.525	4.0	3.65
16NR18Pg	16NL18Pg	18	●					-	1					
16NR16Pg	16NL16Pg	16	●					-	1.1					

● Stock ○ Extraordinary stock

Universal type-60°

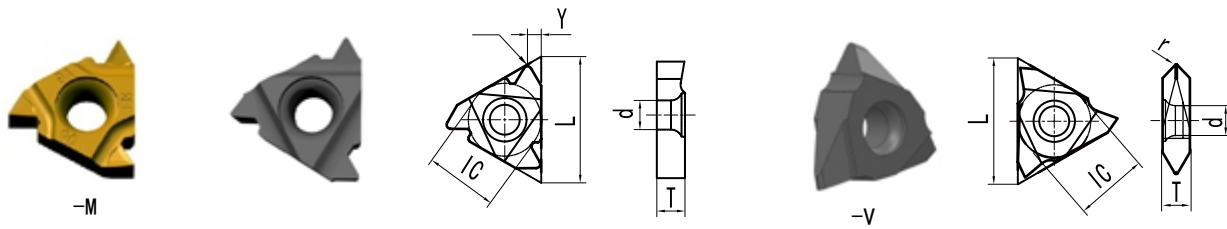


Right	Left	pitch		Material								Dimensions (mm)								
				PMK		P		N												
				BM1525	BM1820	BP1825	BN1020													
mm	tpi	R	L	R	L	R	L	R	L	r	Y	L	IC	d	T					
16ERAG60-M		0.5-3.0	48-8	●		●									0.07	1.7	16	9.525	4.0	3.65
16ERG60-M		1.75-3.0	48-8	●		●								0.25	1.7					
22ERN60-M		3.5-5.0	7-5	●		●									0.4	1.7	22	12.7	5.1	4.9
11ERA60	11ELA60	0.5-1.5	48-16	●	○			●	○	●					0.07	0.9	11	6.35	3.0	3.18
16ERA60	16ELA60	0.5-1.5	48-16	●	○			●	○	●					0.07	0.9	16	9.525	4.0	3.65
16ERAG60	16ELAG60	0.5-3.0	48-8	●	○			●	○	●				0.07	1.7					
16ERG60	16ELG60	1.75-3.0	18-8	●	○			●	○	●				0.25	1.7					
22ERN60	22ELN60	3.5-5.0	7-5	●	○			●	○	●					0.4	2.5	22	12.7	5.1	4.9
27ERQ60	27ELQ60	5.5-6.0	5.5-6	○	○			○	○						0.79		27	15.875	6.35	6.4
16VERAG60	16VELAG60	0.5-3.0	48-8	●	○			○	○						0.07		16	12.7	5.1	3.65
27VERV60	27VELV60	6.0-9.0	4-3	○	○			○	○						0.87		27	15.875	6.35	8.7

● Stock ○ Extraordinary stock

INSERTS

Universal type-60°

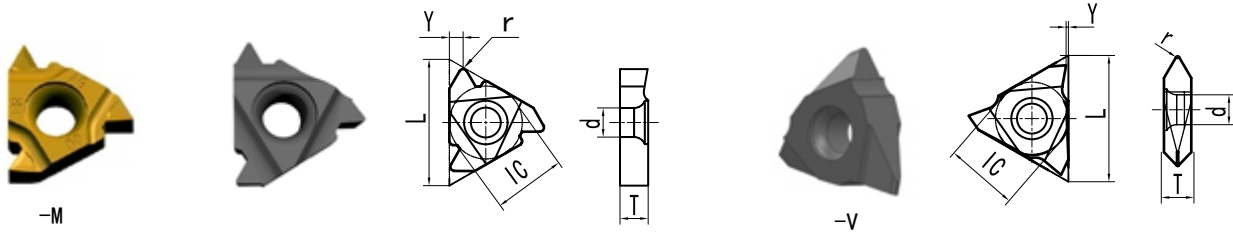


Right	Left	pitch		Material								Dimensions (mm)					
				PMK		P		N									
				BM1525	BM1820	BP1825	BN1020										
mm	tpi	R	L	R	L	R	L	R	L	r	Y	L	IC	d	T		
11NRA60-M		0.5-1.5	48-16	●	●							0.07	0.9	11	6.35	3.0	3.18
16NRAG60-M		0.5-3.0	48-8	●	●							0.07	1.7	16	9.525	4.0	3.65
16NRG60-M		1.75-3.0	48-8	●	●							0.13	1.7				
22NRN60-M		3.5-5.0	7-5	●	●							0.4	1.7	22	12.7	5.1	4.9
06NRA60	06NLA60	0.5-1.5	48-16	●						●		0.07		06		2.1	1.91
08NRA60	08NLA60	0.5-1.5	48-16	●						●		0.07	0.9	08	4.76		2.38
11NRA60	11NLA60	0.5-1.5	48-16	●	○			●	○	●		0.07	0.9	11	6.35	3.0	3.18
16NRA60	16NLA60	0.5-1.5	48-16	●	○			●	○	●		0.07	0.9	16	9.525	4.0	3.65
16NRAG60	16NLAG60	0.5-3.0	48-8	●	○			●	○	●		0.07	1.7				
16NRG60	16NLG60	1.75-3.0	18-8	●	○			●	○	●		0.13	1.7				
22NRN60	22NLN60	3.5-5.0	7-5	●	○			●	○	●		0.4	2.5	22	12.7	5.1	4.9
27NRQ60	27NLQ60	5.5-6.0	5.5-6	○	○			○	○			0.4		27	15.875	6.35	6.4
16VNRAG60	16VNLAG60	0.5-3.0	48-8	●	○			○	○			0.07		16	12.7	5.1	3.65
27VNRV60	27VNLV60	6.0-9.0	4-3	○	○			○	○			0.43		27	15.875	6.35	8.7

● Stock ○ Extraordinary stock

INSERTS

Universal type-55°

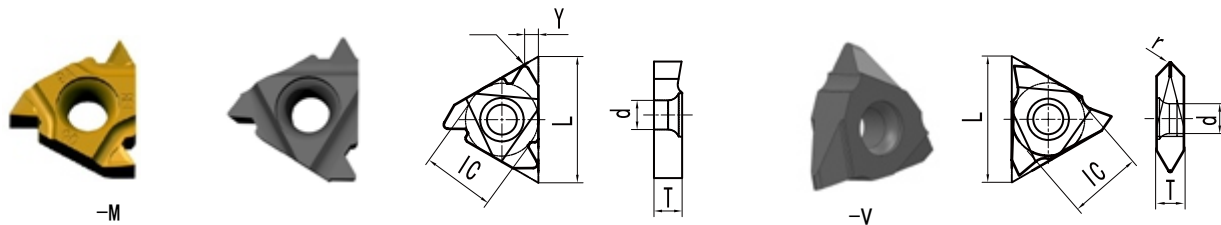


Right	Left	pitch		Material								Dimensions (mm)								
				P M K				P		N										
				BM1525		BM1820		BP1825		BN1020										
mm	tpi	R	L	R	L	R	L	R	L	r	Y	L	IC	d	T					
16ERAG55-M		0.5-3.0	48-8	●		●									0.07	1.5	16	9.525	4.0	3.65
11ERA55	11ELA55	0.5-1.5	48-16	●	○			●	○	●					0.07	0.9	11	6.35	3.0	3.18
16ERA55	16ELA55	0.5-1.5	48-16	●	○			●	○	●					0.07	0.9	16	9.525	4.0	3.65
16ERAG55	16ELAG55	0.5-3.0	48-8	●	○			●	○	●				0.07	1.5					
16ERG55	16ELG55	1.75-3.0	18-8	●	○			●	○	●				0.25	1.5					
22ERN55	22ELN55	3.5-5.0	7-5	●	○			●	○	●					0.4	2.5	22	12.7	5.1	4.9
27ERQ55	27ELQ55	5.5-6.0	4.5-4	○	○			○	○						0.79		27	15.875	6.35	6.4
16VERAG55	16VELAG55	0.5-3.0	48-8	●	○			○	○						0.07		16	12.7	5.1	3.65
27VERV55	27VELV55	6.0-9.0	4-2.5	○	○			○	○						0.89		27	15.875	6.35	8.7

● Stock ○ Extraordinary stock

INSERTS

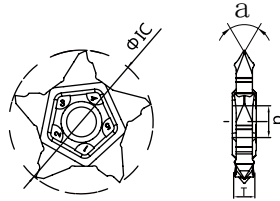
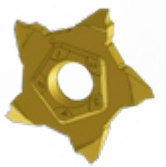
Universal type-55°



Right	Left	pitch		Material								Dimensions (mm)						
				PMK		P		N										
				BM1525	BM1820	BP1825	BN1020	R	L	R	L	R	L	r	Y	L	IC	d
16NRAG55-M		0.5-3.0	48-8	●		●							0.07	1.5	11	6.35	3.0	3.18
06NRA55	06NLA55	0.5-1.5	48-16	●							●		0.07		06		2.1	1.91
08NRA55	08NLA55	0.5-1.5	48-16	●							●		0.07	0.9	08	4.76		2.38
11NRA55	11NLA55	0.5-1.5	48-16	●	○			●	○	●		0.07	0.9	11	6.35	3.0	3.18	
16NRA55	16NLA55	0.5-1.5	48-16	●	○			●	○	●		0.07	1.5	16	9.525	4.0	3.65	
16NRAG55	16NLAG55	0.5-3.0	48-8	●	○			●	○	●		0.07	1.5					
16NRG55	16NLG55	1.75-3.0	18-8	●	○			●	○	●		0.25	1.5					
22NRN55	22NLN55	3.5-5.0	7-5	●	○			●	○	●		0.4	2.5	22	12.7	5.1	4.9	
27NRQ55	27NLQ55	5.5-6.0	4.5-4	○	○			○	○			0.79		27	15.875	6.35	6.4	
16VNRAG55	16VNLAG55	0.5-3.0	48-8	●	○			○	○			0.07		16	12.7	5.1	3.65	
27VNRV55	27VNLV55	6.0-9.0	4-2.5	○	○			○	○			0.89		27	15.875	6.35	8.7	

● Stock ○ Extraordinary stock

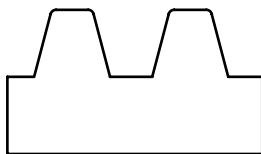
PEN Thread Insert



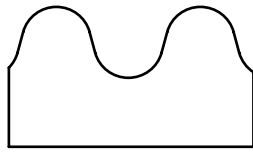
Model	pitch		Angle	Material		Dimensions (mm)			
	mm	tpi		a	P	K	r	IC	d
			BM1820		BN1020				
PEN24-N6001	0.75-1.75	32-14	60	●	○	0.1	24	5.6	4
PEN24-N6002	1.5-2.5	16-10	60	●	○	0.2			
PEN24-N6003	2.0-5.0	13-5	60	●	○	0.3			
PEN24-N5501	-	28-14	55	●	○	0.1			
PEN24-N5502	-	18-10	55	●	○	0.2			
PEN24-N5503	-	12-5	55	●	○	0.3			

● stock ○ Extraordinary stock

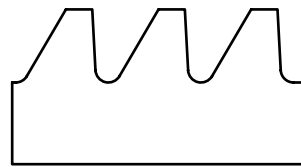
Other thread type can be customized:



TR/ACME



RD

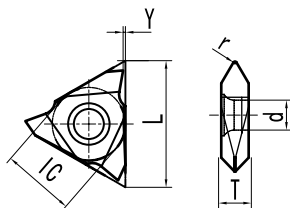


buttress thread



INSERTS

MTT V Type

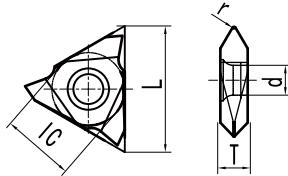


INSERTS

Right	Left	pitch		Material						Dimensions (mm)						
				PMK		P		N								
				mm	tpi	BM1525		BP1825		BN1020		r	Y	T	L	IC
MTTR436001	MTTL436001	1.0-1.75	24-14	●	●	○					0.1	0.4	4.76	22	12.7	5
MTTR436002	MTTL436002	2.0-2.5	13-10	●	●	○				0.2						
MTTR436003	MTTL436003	3.0-3.5	9-7	●	●	●				0.3						
MTTR436004	MTTL436004	4.0-5.0	6-5	●	●	○				0.4						
MTTR435501	MTTL435501	-	24-14	●	●	●				0.1						
MTTR435502	MTTL435502	-	13-10	●	●	●				0.2						
MTTR435503	MTTL435503	-	9-7	●	●	●				0.3						
MTTR435504	MTTL435504	-	6-5	●	○	○				0.4						

● Stock ○ Extraordinary stock

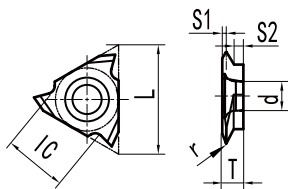
TT V Type



Right	Left	pitch		Material				Dimensions (mm)				
				P M K		N						
				mm	tpi	R	L	R	L	r	L	IC
TT32R6000	TT32L6000	0.5-1.0	48-32	○	○	○		0	16	9.525	4.5	3.18
TT32R6001	TT32L6001	1.0-2.5	28-14	●	○	●		0.1				
TT32R6002	TT32L6002	1.5-2.5	16-10	●	○	●		0.2				
TT32R6003	TT32L6003	2.5	11-10	○	○	○		0.3				
TT32R5501	TT32L5501	-	28-10	○	○	○		0.1				
TT32R5502	TT32L5502	-	14-10	○	○	○		0.2				

● Stock ○ Extraordinary stock

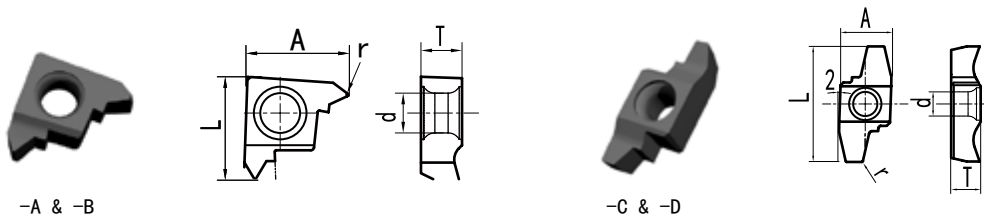
TTX V Type



Right	Left	pitch		Material				Dimensions (mm)						
				P M K		N								
				mm	tpi	R	L	R	L	r	S1	S2	L	IC
TTX32R60003	TTX32L60003	0.5-1.0	48-32	●	○	●		0.03	0.6	1.4	16	9.525	4.5	3.18
TTX32R60005	TTX32L60005	0.5-1.0	48-32	●	○	●		0.05	0.6	1.4				
TTX32R6001	TTX32L6001	1.0-2.5	28-14	●	○	●		0.1	1.1	0.53				
TTX32R5501	TTX32L5501	-	28-9	●	○	●		0.1	1.1	0.5				

● Stock ○ Extraordinary stock

GE Thread Insert

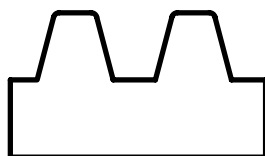


INSERTS

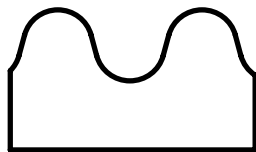
Right	Left	pitch		Material				Dimensions (mm)				
				P M K		N						
				mm	tpi	BM1525	BN1020	R	L	R	L	r
GER6001-A	GEL6001-A	0.5-1.5	48-16	○	○	○		0.1	6.5	6.69	2.5	2.58
GER5501-A	GEL5501-A	-	48-16	○	○	○		0.1				
GER6001-B	GEL6001-B	0.5-1.5	48-16	●	○	●		0.1				
GER6002-B	GEL6002-B	1.0-2.5	25-10	●	○	●		0.2	8.2	8.46	2.7	3.18
GER5501-B	GEL5501-B	-	48-16	○	○	○		0.1				
GER2. OTR-B	GEL2. OTR-B	2.0	-	○	○	○		0.1				
GER3. OTR-B	GEL3. OTR-B	3.0	-					0.1				
GER4. OTR-B	GEL4. OTR-B	4.0	-					0.1	11.5	5.8	2.8	4.0
GER3. OTR-C	GEL3. OTR-C	3.0	-					0.1				
GER4. OTR-C	GEL4. OTR-C	4.0	-					0.2				
GER4. OTR-D	GEL4. OTR-D	4.0	-					0.2	16.5	6.8	3.4	5.0
GER5. OTR-D	GEL5. OTR-D	5.0	-					0.2				
GER6. OTR-D	GEL6. OTR-D	6.0	-					0.2				

● Stock ○ Extraordinary stock

Other thread type can be customized:



TR/ACME



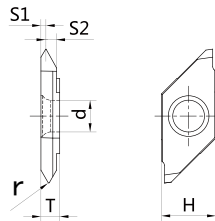
RD



buttress thread

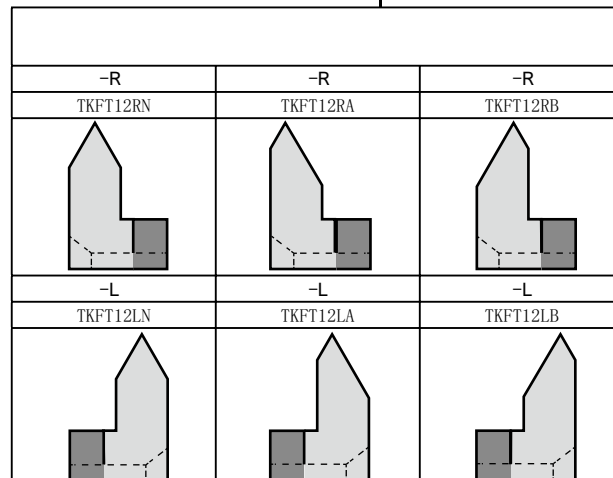
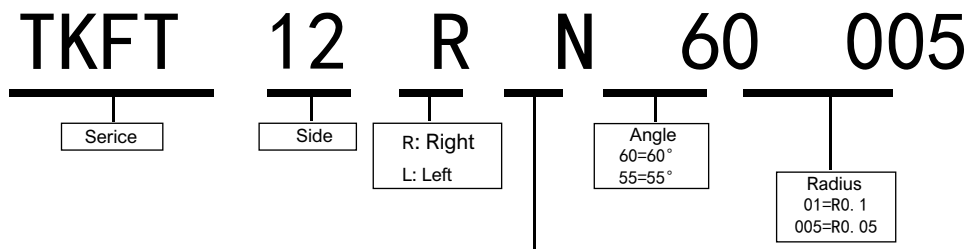


TKFT Thread Insert



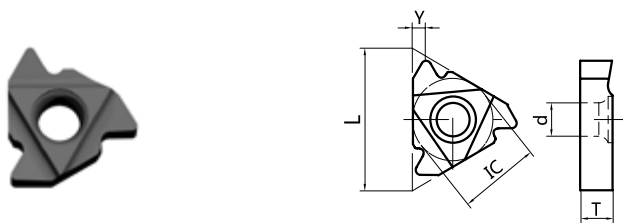
Right	Left	pitch		Material				Dimensions (mm)					
				P M K		N							
				mm	tpi	R	L	R	L	r	S1	S2	H
TKFT12RA60005	TKFT12LA60005	0.5-1.25	48-24	○	○	○		0.05	0.8	1.7	8.7	5	3.0
TKFT12RB60005	TKFT12LB60005	0.5-1.25	48-24	○	○	○		0.05	1.7	0.8			
TKFT12RN6001	TKFT12LN6001	1.0-2.0	24-12	●	○	●		0.1	1.25	1.25			
TKFT12RA55005	TKFT12LA55005	-	48-24	●	○	●		0.05	0.8	1.7			
TKFT12RB55005	TKFT12LB55005	-	48-24	○	○	○		0.05	1.7	0.8			
TKFT12RN5501	TKFT12LN5501	-	24-18	○	○	○		0.1	1.25	1.25			
TKFT16RA60005	TKFT16LA60005	1.0-2.0	24-12					0.05	1.2	2.3	9.5	5	4.0
TKFT16RB60005	TKFT16LB60005	1.0-2.0	24-12					0.05	2.3	1.2			
TKFT16RN6001	TKFT16LN6001	1.0-3.5	24-8					0.1	1.75	1.75			
TKFT16RA6001	TKFT16LA6001	1.0-2.0	24-12					0.1	1.2	2.3			
TKFT16RB6001	TKFT16LB6001	1.0-2.0	24-12					0.1	2.3	1.2			
TKFT16RA55005	TKFT16LA55005	-	24-12					0.05	1.2	2.3			
TKFT16RB55005	TKFT16LB55005	-	24-12					0.05	2.3	1.2			
TKFT16RN5501	TKFT16LN5501	-	24-8					0.1	1.75	1.75			

● stock ○ Extraordinary stock



INSERTS

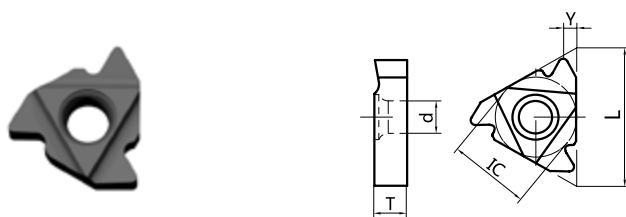
APIRD Thread Insert



Model	pitch	taper	Y	Material		Dimensions (mm)			
				PMK	P	IC	L	d	T
	tpi	IPF	BM1525	BP1825					
16ER10APIRD	10	1:16	1.5	●	○	9.525	16	4.0	3.65
16ER8APIRD	8	1:16	1.6	●	○				

● Stock ○ Extraordinary stock

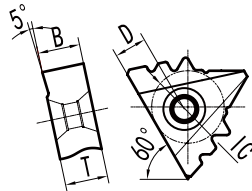
INSERTS



Model	pitch	taper	Y	Material		Dimensions (mm)			
				PMK	P	IC	L	d	T
	tpi	IPF	BM1525	BP1825					
16NR10APIRD	10	1:16	1.5	●	○	9.525	16	4.0	3.65
16NR8APIRD	8	1:16	1.6	●	○				

● Stock ○ Extraordinary stock

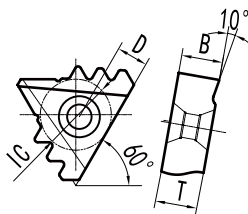
APIRD Thread Insert



Model	pitch	taper	no. of teeth	Material		Dimensions (mm)			
				PMK	PMK	IC	D	B	T
	tpi	IPF		BM1525	BM1820				
22ER10APIRD-4	10	1:16	4			10.17	4.5	5.92	6.0
22ER8APIRD-3	8	1:16	3	●	○				

● Stock ○ Extraordinary stock

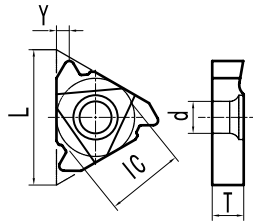
INSERTS



Model	pitch	taper	no. of teeth	Material		Dimensions (mm)			
				PMK	PMK	IC	D	B	T
	tpi	IPF		BM1525	BM1820				
22NR10APIRD-4	10	1:16	4			10.17	4.5	5.92	6.0
22NR8APIRD-3	8	1:16	3	●	○				

● Stock ○ Extraordinary stock

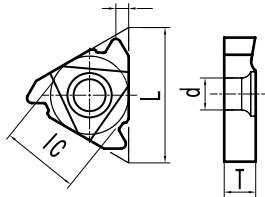
US API Insert



INSERTS

Model	Thread Standard	pitch	taper	Y	Material		Dimensions (mm)				Thread tube Standard
					PMK	P	IC	L	d	T	
					BM1525	BP1825					
22ER4API382	V-0.038R	4	1:6	2.5	○	●	12.7	22	5	4.9	NC23 ~ NC50
22ER4API383	V-0.038R	4	1:4	2.6	○	●					NC56 ~ NC77
22ER4API502	V-0.050	4	1:6	2.8	○	●					6-5/8REG, 5-1/2FH", 6-5/8FH"
22ER4API503	V-0.050	4	1:4	2.8	○	●					5-1/2", 7-5/8", 8-5/8"REG
22ER5API403	V-0.040	5	1:4	2.3	○	●					2-3/8" ~ 4-1/2"REG 3-1/2"FH, 4-1/2"FH
22ER6API551	V-0.055	6	1:8	1.5	○	●					NC10 ~ NC16
27ER4API382	V-0.038R	4	1:6	2.6	○	●	15.875	27	6.5	6.4	NC23 ~ NC50
27ER4API383	V-0.038R	4	1:4	2.8	○	●					NC56 ~ NC77
27ER4API502	V-0.050	4	1:6		○	●					6-5/8REG, 5-1/2FH", 6-5/8FH"
27ER4API503	V-0.050	4	1:4	2.8	○	●					5-1/2", 7-5/8", 8-5/8"REG
27ER5API403	V-0.040	5	1:4	2.3	○	●					2-3/8" ~ 4-1/2"REG

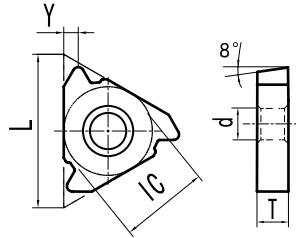
● Stock ○ Extraordinary stock



Model	Thread Standard	pitch	taper	Y	Material		Dimensions (mm)				Thread tube Standard
					PMK	P	IC	L	d	T	
					BM1525	BP1825					
22NR4API382	V-0.038R	4	1:6	2.5	○	●	12.7	22	5	4.9	NC23 ~ NC50
22NR4API383	V-0.038R	4	1:4	2.6	○	●					NC56 ~ NC77
22NR4API502	V-0.050	4	1:6	2.8	○	●					6-5/8REG, 5-1/2FH", 6-5/8FH"
22NR4API503	V-0.050	4	1:4	2.8	○	●					5-1/2", 7-5/8", 8-5/8"REG
22NR5API403	V-0.040	5	1:4	2.3	○	●					2-3/8" ~ 4-1/2"REG 3-1/2"FH, 4-1/2"FH
22NR6API551	V-0.055	6	1:8	1.5	○	●					NC10 ~ NC16
27NR4API382	V-0.038R	4	1:6	2.6	○	●	15.875	27	6.5	6.4	NC23 ~ NC50
27NR4API383	V-0.038R	4	1:4	2.8	○	●					NC56 ~ NC77
27NR4API502	V-0.050	4	1:6		○	●					6-5/8REG, 5-1/2FH", 6-5/8FH"
27NR4API503	V-0.050	4	1:4	2.8	○	●					5-1/2", 7-5/8", 8-5/8"REG
27NR5API403	V-0.040	5	1:4	2.3	○	●					2-3/8" ~ 4-1/2"REG

● Stock ○ Extraordinary stock

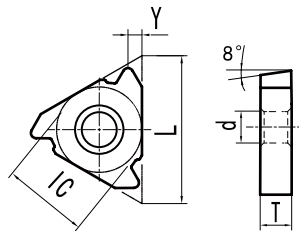
US API Insert



Model	Thread Standard	pitch tpi	taper IPF	Y	Material		Dimensions (mm)				Thread tube Standard
					PMK	P	IC	L	d	T	
					BM1525	BP1825					
4Y1W3	V-0.038R	4	1:6	3.7	○	●	17	29	6.2	5.5	NC23 ~ NC50
4Y2W3	V-0.038R	4	1:4	3.7	○	●					NC56 ~ NC77
5Y3W3	V-0.040	5	1:4	3.7	○	●					2-3/8" ~ 4-1/2" REG 3-1/2" FH 4-1/2" FH
4Y4W3	V-0.050	4	1:4	3.7	○	●					5-1/2", 7-5/8", 8-5/8" REG
4Y5W3	V-0.050	4	1:6	3.7	○	●					6-5/8 REG, 5-1/2 FH", 6-5/8 FH"
4Y5W3-1T	V-0.050	4	1:12	3.7	○	●					6-5/8 REG, 5-1/2 FH", 6-5/8 FH"
4Y7W3	V-0.065	4	1:6	3.7	○	●					4" FH 2-3/8" ~ 5-1/2" IF
MZ4Y1W3	V-0.038R	4	1:16	3.7	○	●					NC23 ~ NC50

● Stock ○ Extraordinary stock

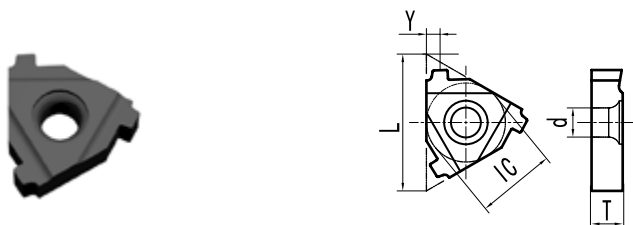
INSERTS



Model	Thread Standard	pitch tpi	taper IPF	Y	Material		Dimensions (mm)				Thread tube Standard
					PMK	P	IC	L	d	T	
					BM1525	BP1825					
4Y1N3	V-0.038R	4	1:6	3.7	○	●	17	29	6.2	5.5	NC23 ~ NC50
4Y2N3	V-0.038R	4	1:4	3.7	○	●					NC56 ~ NC77
5Y3N3	V-0.040	5	1:4	3.7	○	●					2-3/8" ~ 4-1/2" REG 3-1/2" FH 4-1/2" FH
4Y4N3	V-0.050	4	1:4	3.7	○	●					5-1/2", 7-5/8", 8-5/8" REG
4Y5N3	V-0.050	4	1:6	3.7	○	●					6-5/8 REG, 5-1/2 FH", 6-5/8 FH"
4Y5N3-1T	V-0.050	4	1:12	3.7	○	●					6-5/8 REG, 5-1/2 FH", 6-5/8 FH"
4Y7N3	V-0.065	4	1:6	3.7	○	●					4" FH 2-3/8" ~ 5-1/2" IF
MZ4Y1N3	V-0.038R	4	1:16	3.7	○	●					NC23 ~ NC50

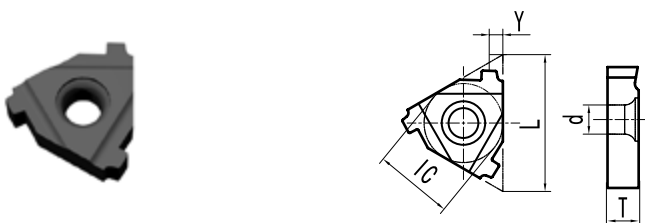
● Stock ○ Extraordinary stock

API BUT Insert (Single-tooth)



Model	pitch	taper	Y	Material		Dimensions (mm)			
				PMK	P	IC	L	d	T
	tpi	IPF	BM1525	BP1825	IC	L	d	T	
22ER5BUT75	5	1:16	1.9	●	●	12.7	22	5.0	4.9
22ER5BUT1	5	1:12	1.9						

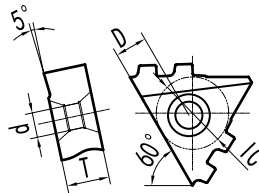
● Stock ○ Extraordinary stock



Model	pitch	taper	Y	Material		Dimensions (mm)			
				PMK	P	IC	L	d	T
	tpi	IPF	BM1525	BP1825	IC	L	d	T	
22NR5BUT75	5	1:16	1.9	●	●	12.7	22	5.0	4.9
22NR5BUT1	5	1:12	1.9						

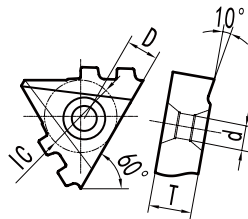
● Stock ○ Extraordinary stock

API BUT Insert (Multiple-tooth)



Model	pitch	taper	no. of teeth	Material		Dimensions (mm)			
				PMK	PMK	IC	D	d	T
	tpi	IPF		BM1525	BM1820				
22ER5BUT75-2	5	1:16	2	●	○	12.7	4.5	4.2	6.0

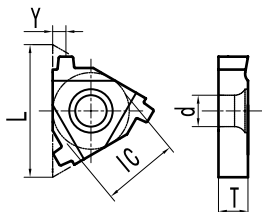
● Stock ○ Extraordinary stock



Model	pitch	taper	no. of teeth	Material		Dimensions (mm)			
				PMK	PMK	IC	D	d	T
	tpi	IPF		BM1525	BM1820				
22NR5BUT75-2	5	1:16	2	●	○	12.7	4.5	4.2	6.0

● Stock ○ Extraordinary stock

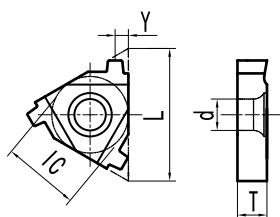
US API EL Insert



Model	pitch	taper	Y	Material		Dimensions (mm)			
				PMK	P	IC	L	d	T
	tpi	IPF	BM1525	BP1825					
22ER6EL	6	1:8	1.9	<input type="radio"/>	<input type="radio"/>	12.7	22	5.0	4.9
22ER5EL	5	1:9.6	1.9	<input type="radio"/>	<input type="radio"/>				

● Stock ○ Extraordinary stock

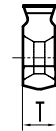
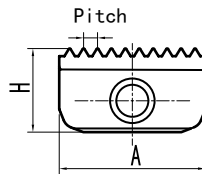
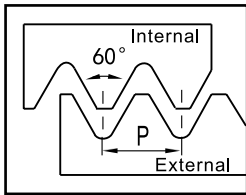
INSERTS



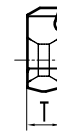
Model	pitch	taper	Y	Material		Dimensions (mm)			
				PMK	P	IC	L	d	T
	tpi	IPF	BM1525	BP1825					
22NR6EL	6	1:8	1.9	<input type="radio"/>	<input type="radio"/>	12.7	22	5.0	4.9
22NR5EL	5	1:9.6	1.9	<input type="radio"/>	<input type="radio"/>				

● Stock ○ Extraordinary stock

ISO-60° Multiple-tooth Insert



DOUBLE-SIDE USE



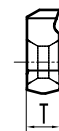
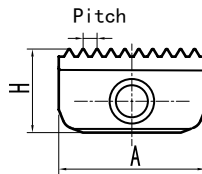
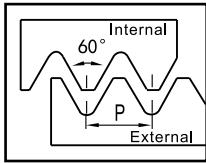
SINGLE SIDE USE

Fig	External	Internal	pitch	Material				Dimensions (mm)			Suitable to Toolholder
				P M K		N					
				BM1525		BN1020					
 SINGLE SIDE USE	12N0.5ISO		0.5	●		○		12	6	2.38	SR00**12 (single)
	12N0.75ISO		0.75	●		○					
	12N1.0ISO		1.0	●		●					
	12N1.25ISO		1.25	●		○					
	12N1.5ISO		1.5	●		●					
 DOUBLE-SIDE USE	14N0.5ISO	14E0.5ISO	0.5	●	●	○		14	7.5	3.1	SR00**14 (single) SR00**14-2 (double)
	14N0.75ISO	14E0.75ISO	0.75	●	●	○					
	14N1.0ISO	14E1.0ISO	1.0	●	●	●					
	14N1.25ISO	14E1.25ISO	1.25	●	●	○					
	14N1.5ISO	14E1.5ISO	1.5	●	●	●					
	14N2.0ISO	14E2.0ISO	2.0	●	●	●					
	14N2.5ISO	14E2.5ISO	2.5	●	●	●					
	21N1.0ISO	21E1.0ISO	1.0	●	●	○		21	12	4.7	SR00**21 (single) SR00**21-2 (double) SR00**21-5 (holder)
	21N1.5ISO	21E1.5ISO	1.5	●	●	●					
	21N1.75ISO	21E1.75ISO	1.75	●	○	○					
	21N2.0ISO	21E2.0ISO	2.0	●	●	●					
	21N2.5ISO	21E2.5ISO	2.5	●	●	●					
	21N3.0ISO	21E3.0ISO	3.0	●	●	●					
	21N3.5ISO		3.5	●		○					
	30N1.5ISO	30E1.5ISO	1.5	●	●	○		30	16	5.5	SR00**30 (single) SR00**30-2 (double) SR00**30-4 (holder)
	30N2.0ISO	30E2.0ISO	2.0	●	●	○					
	30N2.5ISO	30E2.5ISO	2.5	●	●	○					
	30N3.0ISO	30E3.0ISO	3.0	●	●	○					
	30N3.5ISO	30E3.5ISO	3.5	●	○	○					
	30N4.0ISO	30E4.0ISO	4.0	●	○	○					
	30N4.5ISO		4.5	●		○					
	30N5.0ISO		5.0	●	○	○					
	40N1.5ISO	40E1.5ISO	1.5	●	○	○		40	20	6.3	SR00**40 (single) SR00**40-2 (double) SR00**40-4 (holder)
	40N2.0ISO	40E2.0ISO	2.0	●	○	○					
40N3.0ISO	40E3.0ISO	3.0	●		○						
40N3.5ISO		3.5	●	○	○						
40N4.0ISO	40E4.0ISO	4.0	●		○						
40N4.5ISO		4.5	●	○	○						
40N5.0ISO	40E5.0ISO	5.0	●		○						
40N5.5ISO		5.5	●		○						
40N6.0ISO		6.0	●								

● Stock ○ Extraordinary stock

INSERTS




UN-60° Multiple-tooth Insert



DOUBLE-SIDE USE

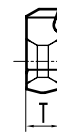
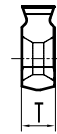
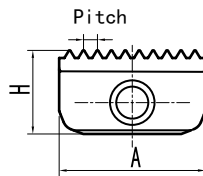
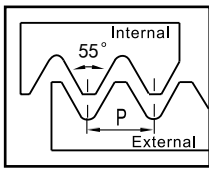
SINGLE SIDE USE

INSERTS

Fig	External	Internal	pitch	Material				Dimensions (mm)			Suitable to Toolholder	
				P M K		N		A	H	T		
				BM1525		BN1020						
tpi	N	E	N	E								
 SINGLE SIDE USE	12N32UN		32	○		○			12	6	2.38	SR00**12 (single)
	12N28UN		28	○		○						
	12N24UN		24	○		○						
	12N20UN		20	○		○						
	12N18UN		18	●		○						
 DOUBLE-SIDE USE	12N16UN		16	○		○			14	7.5	3.1	SR00**14 (single) SR00**14-2 (double)
	14N32UN	14E32UN	32	○		○						
	14N28UN		28	○		○						
	14N27UN		27	○		○						
	14N24UN	14E24UN	24	●	○	○						
	14N20UN	14E20UN	20	●	○	○						
	14N18UN	14E18UN	18	●	○	○						
	14N16UN	14E16UN	16	●	○	○						
	14N14UN	14E14UN	14	●	○	○						
	14N12UN	14E12UN	12	●	○	○						
	14N11UN		11	○		○						
	14N10UN		10	○		○						
	21N24UN	21E24UN	24	●	○	○						
	21N20UN	21E20UN	20	●	○	○						
	21N18UN	21E18UN	18	●	○	○						
	21N16UN	21E16UN	16	●	○	○						
	21N14UN	21E14UN	14	●	○	○						
	21N12UN	21E12UN	12	●	○	○						
	21N10UN	21E10UN	10	●	○	○						
	21N8UN		8	●		○						
	21N7UN		7	●		○						
 DOUBLE-SIDE USE	30N20UN	30E20UN	20	○	○	○		30	16	5.5	SR00**30 (single) SR00**30-2 (double) SR00**30-4 (holder)	
	30N18UN	30E18UN	18	○	○	○						
	30N16UN	30E16UN	16	○	○	○						
	30N14UN	30E14UN	14	○	○	○						
	30N12UN	30E12UN	12	○	○	○						
	30N10UN	30E10UN	10	○	○	○						
	30N8UN	30E8UN	8	●	○	○						
	30N6UN	30E6UN	6	○	○	○						
	30N5UN	30E5UN	5	○	○	○						
	40N16UN	40E16UN	16	○	○	○						
40N14UN	40E14UN	14	○	○	○							
40N12UN	40E12UN	12	○	○	○							
40N10UN	40E10UN	10	○	○	○							
40N8UN	40E8UN	8	●	○	○							
40N6UN	40E6UN	6	○	○	○							
40N4.5UN		4.5	○		○							
40N4UN		4	○		○							

● Stock ○ Extraordinary stock

W-55° Multiple-tooth Insert



DOUBLE SIDE USE

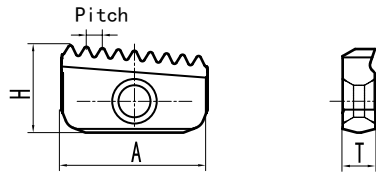
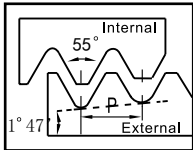
SINGLE SIDE USE

Fig	Suitable to external and internal	pitch	Material		Dimensions (mm)			Suitable to Toolholder
			PMK	N	A	H	T	
			tpi	BM1525	BN1020			
SINGLE SIDE USE	12-19W	19	●	○	12	6	2.38	SR00**12 (single)
 DOUBLE-SIDE USE	14-24W	24	●	○	14	7.5	3.1	SR00**14 (single) SR00**14-2 (double)
	14-20W	20	●	○				
	14-19W	19	●	○				
	14-16W	16	●	○				
	14-14W	14	●	○				
	14-11W	11	●	○				
	21-20W	20	○	○	21	12	4.7	SR00**21 (single) SR00**21-2 (double) SR00**21-5 (holder)
	21-19W	19	●	○				
	21-16W	16	●	○				
	21-14W	14	●	○				
	21-11W	11	●	○	30	16	5.5	SR00**30 (single) SR00**30-2 (double) SR00**30-4 (holder)
	30-16W	16	○	○				
	30-14W	14	○	○				
	30-11W	11	●	○	40	20	6.3	SR00**40 (single) SR00**40-2 (double) SR00**40-4 (holder)
	40-11W	11	●	○				
	40-8W	8	○	○				

● Stock ○ Extraordinary stock

INSERTS

BSPT-55° Multiple-tooth Insert

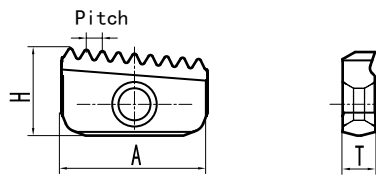
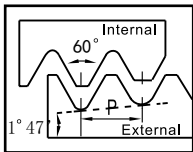


SINGLE SIDE USE


Fig	Suitable to external and internal	pitch	Material		Dimensions (mm)			Suitable to Toolholder
			PMK	N	A	H	T	
			tpi	BM1525	BN1020			
	12-19BSPT	19	○	○	12	6	2.38	SR00**12 (single)
	14-19BSPT	19	●	○	14	7.5	3.1	SR00**14 (single)
	14-14BSPT	14	●	○				SR00**14-2 (double)
	21-14BSPT	14	●	○	21	12	4.7	SR00**21 (single)
	21-11BSPT	11	●	○				SR00**21-2 (double)
								SR00**21-5 (holder)
	30-11BSPT	11	●	○	30	16	5.5	SR00**30 (single)
							SR00**30-2 (double)	
							SR00**30-4 (holder)	
	40-11BSPT	11			40	20	6.3	SR00**40 (single)
								SR00**40-2 (double)
								SR00**40-4 (holder)

● Stock ○ Extraordinary stock

NPT-60° Multiple-tooth Insert



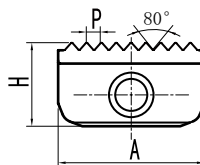
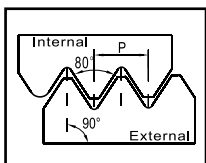
SINGLE SIDE USE

Fig	Suitable to external and internal	pitch	Material		Dimensions (mm)			Suitable to Toolholder
			PMK	N	A	H	T	
			tpi	BM1525	BN1020			
 SINGLE SIDE USE	12-18NPT	18	○	○	12	6	2.38	SR00**12 (single)
	14-18NPT	18	●	○	14	7.5	3.1	SR00**14 (single)
	14-14NPT	14	●	○				SR00**14-2 (double)
	21-14NPT	14	●	○	21	12	4.7	SR00**21 (single)
	21-11.5NPT	11.5	●	○				SR00**21-2 (double)
	30-11.5NPT	11.5	●	○	30	16	5.5	SR00**21-5 (holder)
	30-8NPT	8	●	○				SR00**30 (single)
	40-11.5NPT	11.5			40	20	6.3	SR00**30-2 (double)
	40-8NPT	8						SR00**30-4 (holder)
							SR00**40 (single)	
							SR00**40-2 (double)	
							SR00**40-4 (holder)	

● Stock ○ Extraordinary stock

INSERTS

Pg-80° Multiple-tooth Insert



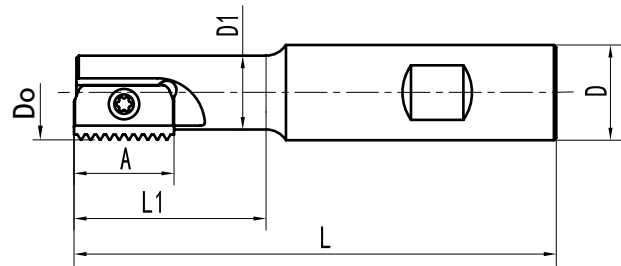
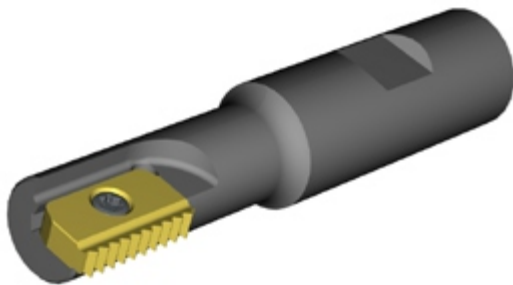
DOUBLE-SIDE USE

Fig	Suitable to external and internal	pitch	Material		Dimensions (mm)			Suitable to Toolholder
			PMK	N	A	H	T	
			tpi	BM1525	BN1020			
	14-18Pg	18	●		14	7.5	3.1	SR00**14 (single) SR00**14-2 (double)
	21-18Pg	18			21	12	4.7	SR00**21 (single) SR00**21-2 (double) SR00**21-5 (holder)
	21-16Pg	16	●					
	30-16Pg	16			30	16	5.5	SR00**30 (single) SR00**30-2 (double) SR00**30-4 (holder)

● Stock ○ Extraordinary stock

Thread milling toolholder

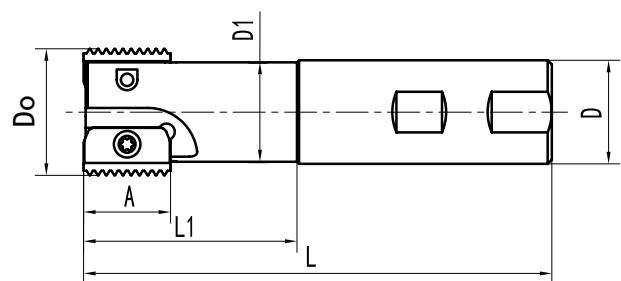
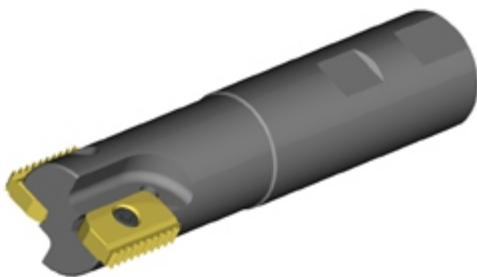
Single insert toolholders



Model	Insert	Dimensions (mm)						Screw	Torx key
		Do	L1	D	D1	L	A		
SR0010H12	12N**	9.5	20	16	7.6	85	12	L60M2.5*6*D3.5	T-8
SR0012F14	14N/E**	12	23	20	8.9	80	14	L60M3*6*D4	T-10
SR0014H14		14.5	26	20	11.2	85	14	L60M3*8*D4	T-10
SR0017H14		17	35	20	13.4	85	14	L60M3*8*D4	T-10
SR0018H21	21N/E**	18	35	20	13.8	85	21	L60M3.5*8*D5.3	T-15
SR0021H21		21	44	20	15.5	94	21	L60M3.5*10*D5.3	T-15
SR0029J30	30N/E**	29	52	25	22	110	30	L60M4*0.5*11.5*D7	T-15
SR0048M40	40N/E**	48	83	40	35	153	40	L60M5*14*D6.6	T-20

*SR0018H21 NOT SUITABLE: 21N/E3.5ISO, 21N/E7UN, 21N/E8UN, 21-11BSPT, 21-11.5NPT

Twin insert toolholders

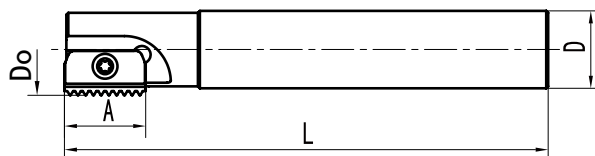
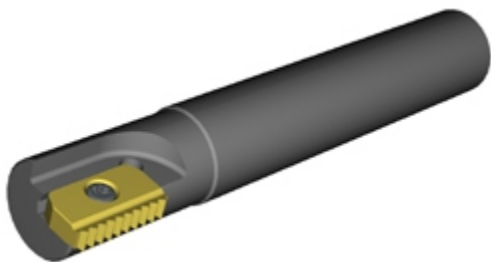


Model	Insert	No. of Insert	Dimensions (mm)						Screw	Torx key
			Do	L1	D	D1	L	A		
SR0020G14-2	14N/E**	2	20	37	20	16	93	14	L60M3*8*D4	T-10
SR0020J14-2		2	20	57	20	16	113	14	L60M3*8*D4	T-10
SR0030J21-2	21N/E**	2	30	52	25	24	113	21	L60M3.5*10*D5.3	T-15
SR0030L21-2		2	30	80	25	24	140	21	L60M3.5*10*D5.3	T-15
SR0040L30-2	30N/E**	2	40	70	32	30	135	30	L60M4*0.5*11.5*D7	T-15
SR0040P30-2		2	40	103	32	30	170	30	L60M4*0.5*11.5*D7	T-15
SR0050M40-2	40N/E**	2	50	80	40	38	153	40	L60M5*14*D6.6	T-20

INSERTS

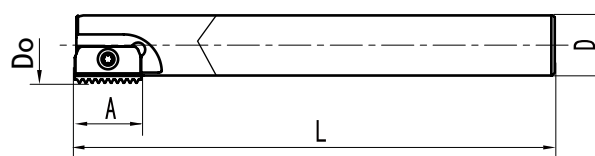
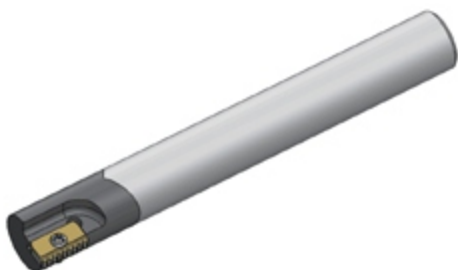
Thread milling toolholder

Extra lengthen toolholders



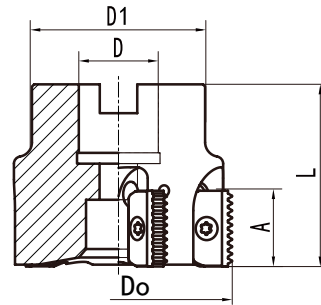
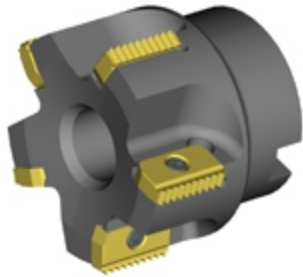
Model	Insert	Dimensions (mm)				Screw	Torx key
		Do	D	L	A		
SR0025K21	21N/E**	25	20	125	21	L60M3.5*10*D5.3	T-15
SR0031M30	30N/E**	31	25	150	30	L60M4*0.5*11.5*D7	T-15
SR0038M30		38	32	150	30	L60M4*0.5*11.5*D7	T-15
SR0038Q40	40N/E**	38	32	180	40	L60M5*14*D6.6	T-20
SR0048R40		48	40	210	40	L60M5*14*D6.6	T-20

Carbide anti-seismic style toolholders



Model	Insert	Dimensions (mm)				Screw	Torx key
		Do	D	L	A		
SR0010K12-WH	12N**	9.9	8	125	12	L60M2.5*6*D3.5	T-8
SR0013J14-WH	14N**	13.2	10	110	14	L60M3*8*D4	T-10
SR0013M14-WH		13.2	10	150	14	L60M3*8*D4	T-10
SR0015P14-WH		15.2	12	175	14	L60M3*8*D4	T-10
SR0021R21-WH	21N**	21.0	16	200	21	L60M3.5*10*D5.5	T-15
SR0027Q30-WH	30N/E**	27.0	20	180	30	L60M4*0.5*11.5*D7	T-15
SR0027S30-WH		27.0	20	270	30	L60M4*0.5*11.5*D7	T-15

Thread milling toolholder



Model	Insert	No. of Insert	Dimensions (mm)					Screw	Torx key
			Do	D	D1	L	A		
SR0063C21-5	21N/E**	5	63	22	48	50	21	L60M3.5*8*D5.3	T-15
SR0063C30-4	30N/E**	4	63	22	48	50	30	L60M4*0.5*11*D7	T-15
SR0080D30-4		4	80	27	60	55	30	L60M4*0.5*11*D7	T-15
SR0100D30-4		4	100	32	78	60	30	L60M4*0.5*11*D7	T-15
SR0080D40-4	40N/E**	4	80	27	60	65	40	L60M5*14*D6.6	T-20
SR0100E40-4		4	100	32	78	70	40	L60M5*14*D6.6	T-20

INSERTS

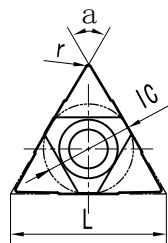
Thread Milling Inserts (U-type)



Grinding



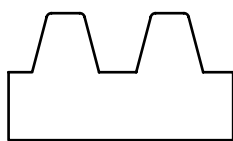
Casting



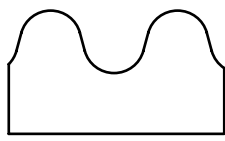
Model	Angle	pitch		Material		Dimensions (mm)			Suitable to Toolholder
				P M K	N	r	IC	L	
	a	mm	tpi	BM1525	BN1020	r	IC	L	
11UIDA60	60	0.5-2.0	48-12	●	○	0.04	6.35	11	SMT**-**11U-*
11UIDD60	60	1.5-3.0	16-8	●	○	0.11			
11UIDC60	60	2.0-4.0	12-6	●	○	0.14			
16UIDE60	60	1.75-3.5	16-7	●	○	0.11	9.525	16	SMT**-**16U-*
16UIDH60	60	3.0-6.0	8-4	●	○	0.24			
22UIDK60	60	4.0-8.0	6-3	●	○	0.30	12.7	22	SMT**-**22U-*
11UIDC60-N	60	2.0-4.0	12-6	●	○	0.14	6.35	11	SMT**-**11U-*
16UIDH60-N	60	3.0-6.0	8-4	●	○	0.24	9.525	16	SMT**-**16U-*
11UIDL55	55	1.5-3.5	28-7	●	○	0.13	6.35	11	SMT**-**11U-*
16UIDL55	55	2.5-3.5	11-7	●	○	0.24	9.525	16	SMT**-**16U-*
16UIDH55	55	3.5-6.0	14-4.5	●	○	0.25			
22UIDK55	55	5.0-8.5	12-3.5	●	○	0.30	12.7	22	SMT**-**22U-*

● Stock ○ Extraordinary stock

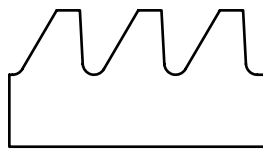
Other thread type can be customized:



TR/ACME



RD

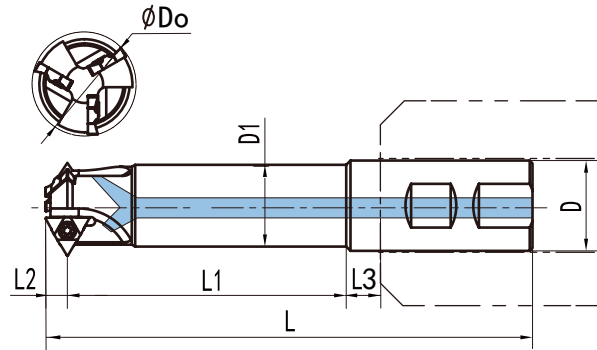
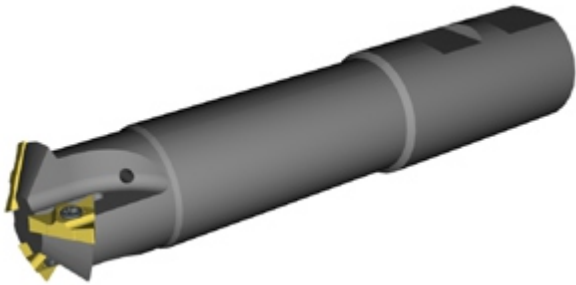


buttress thread



Thread milling toolholder

The toolholder with coolant



Model	Insert	No. of Insert	Dimensions (mm)							Screw	Torx key
			Do	L1	L2	L3	D	D1	L		
SMT15-16H11U-1C	11U1**	1	14.75	40	5.4	7.6	16	11	100	L60M2.5*6*D3.5	T-8
SMT17-16H11U-1C	11U1**	1	17	50	5.4	5.6	16	13	108		
SMT19-20K11U-1C	11U1**	1	19	58	5.4	8.6	20	14	121		
SMT21-25K11U-2C	11U1**	2	21	60	5.4	5.6	25	16	125		
SMT23-25L11U-2C	11U1**	2	23	70	5.4	10.6	25	17.7	140		
SMT26-25M11U-3C	11U1**	3	26	80	5.4	10.6	25	20	150		
SMT26-25P11U-3C	11U1**	3	26	110	5.4	0.6	25	20	170		
SMT29-25M11U-3C	11U1**	3	29	90	5.4	0.6	25	23	150		
SMT31-32P11U-4C	11U1**	4	31	95	5.4	11.6	32	25	170		
SMT36-32P16U-3C	16U1**	3	36.5	95	8	9	32	29	170	L60M3.5*10*D5.3	T-15
SMT42-40R16U-4C	16U1**	4	42	120	8	4	40	34.2	200		
SMT42-40S16U-4C	16U1**	4	42	160	8	14	40	34.2	250		
SMT48-40T16U-4C	16U1**	4	48	190	8	34	40	39.2	300		
SMT50-40T22U-4C	22U1**	4	50	190	11	41	40	39	300	L60M4.5*14*D6.6	T-20

Recommendation: SMT17-16H11U-1C machining M20x2.5, M20x2.0

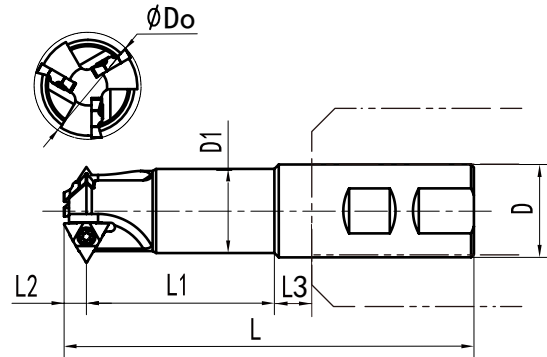
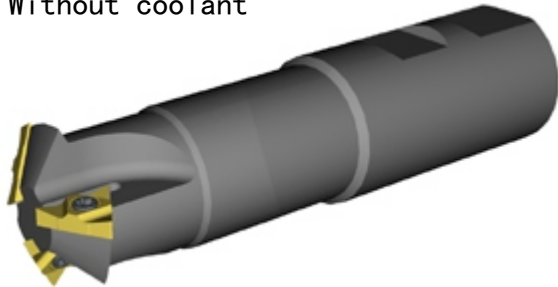
Recommendation: SMT19-20K11U-1C machining M24x3.0, M24x2.5, M24x2.0

Note: the toolholder without coolant can be customized, order by model no. without C of the end

INSERTS

Thread milling toolholder

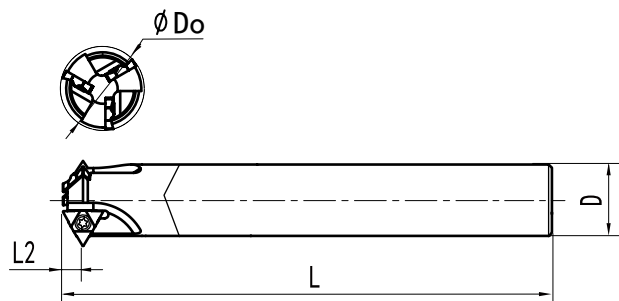
Without coolant



Model	Insert	No. of Insert	Dimensions (mm)							Screw	Torx key
			Do	L1	L2	L3	D	D1	L		
SMT15-16H11U-1	11UI**	1	14.75	40	5.4	7.6	16	11	100	L60M2.5*8*D3.5	T-8
SMT17-16H11U-1	11UI**	1	17	50	5.4	5.6	16	13	108		
SMT19-20H11U-1	11UI**	1	19	38	5.4	8.6	20	14	100		
SMT21-25H11U-2	11UI**	2	21	40	5.4	5.6	25	16	105		
SMT26-25K11U-3	11UI**	3	26	60	5.4	5.6	25	20	125		
SMT26-25M11U-3	11UI**	3	26	80	5.4	10.6	25	20	150		
SMT31-32M11U-4	11UI**	4	31	75	5.4	11.6	32	25	150		
SMT36-32M16U-3	16UI**	3	36.5	75	8	9	32	29	150	L60M3.5*10*D5.3	T-15
SMT42-40P16U-4	16UI**	4	42	90	8	4	40	34.2	170		

Recommendation: SMT17-16H11U-1 machining M20x2.5, M20x2.0

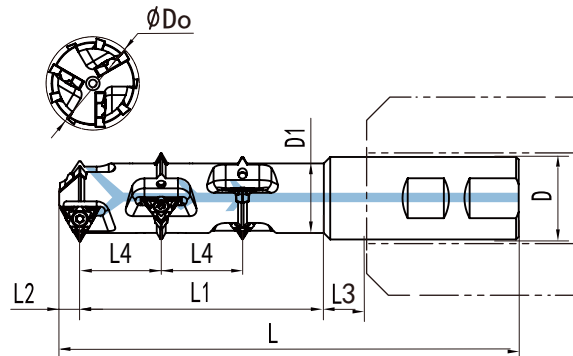
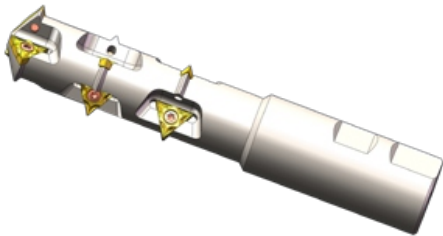
Recommendation: SMT19-20H11U-1 machining M24x3.0, M24x2.5, M24x2.0



Carbide anti-seismic style toolholders

Model	Insert	No. of Insert	Dimensions (mm)				Screw	Torx key
			Do	L2	D	L		
SMT21-14L11U-2-WH	11UI**	2	20.5	5.4	14	136	L60M2.5*8*D3.5	T-8
SMT26-20P11U-3-WH	11UI**	3	26		20	175	L60M2.5*8*D3.5	T-8

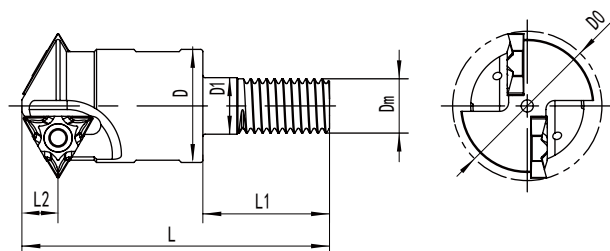
Thread milling toolholder



Multi-layer tooth series toolholder

Model	Insert	TPI	Flutes	No. of Insert	Dimensions (mm)								Screw	Torx key
					D_o	L_1	L_2	L_3	L_4	D	D_1	L		
SMT26-25M11U-24/3-2*3C	11UI**	3	2	3	26	80	5.4	14.6	24	25	20	150	L60M2.5*8*D3.5	T-8
SMT36-32P16U-32/4-3*3C	16UI**	4	3	3	36.5	100	8	4	32	32	29	170	L60M3.5*10*D5.3	T-15

This series of tool bars are not in stock and can be customized according to the order requirements



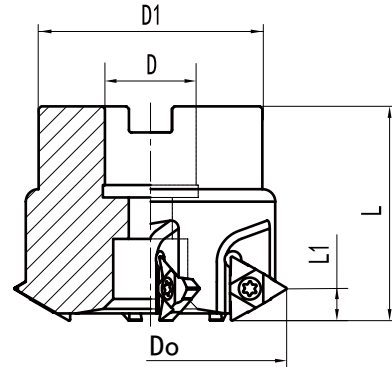
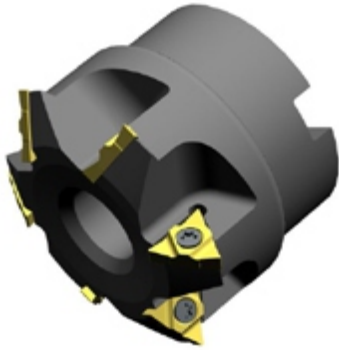
Combined thread milling cutter-head

Model	Insert	No. of Insert	Dimensions (mm)							Holder
			D_o	L_1	L_2	D	D_1	D_m	L	
SMT13.5-10B11U-1C (M5)	11UI**	1	13.5	16	5.2	10	5.5	M5	30	C10***L-M5
SMT17-12B11U-1C (M6)	11UI**	1	17	17	5.2	12	6.5	M6	40	C12***L-M6
SMT21-16C11U-2C (M8)	11UI**	2	20.5	21	5.4	16	8.5	M8	51	C16***L-M8
SMT26-20D11U-3C (M10)	11UI**	3	26	24	5.4	20	10.5	M10	60	C20***L-M10
SMT31-25E11U-4C (M12)	11UI**	4	31	28	5.4	25	12.5	M12	68	C25***L-M12
SMT33-25E16U-2C (M12)	16UI**	2	33	28	8	25	12.5	M12	68	C25***L-M12
SMT40-32E16U-4C (M16)	16UI**	4	40	30	8	32	17	M16	70	C32***L-M16

Recommendation: SMT13.5-10B11U-1C (M5) machining 16x2, M16x1.5, M16x1.0

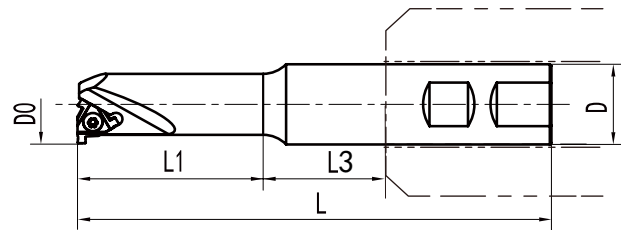
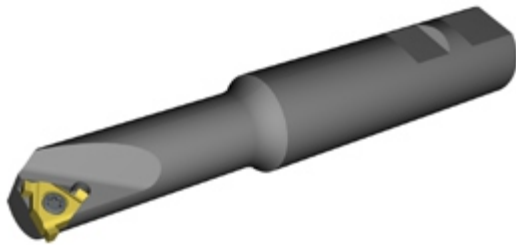
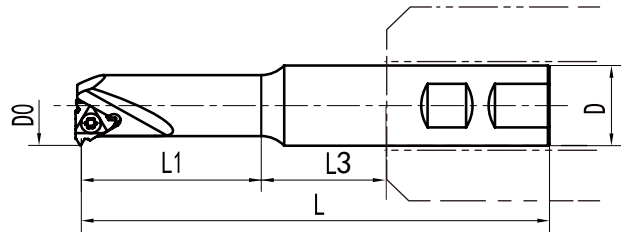
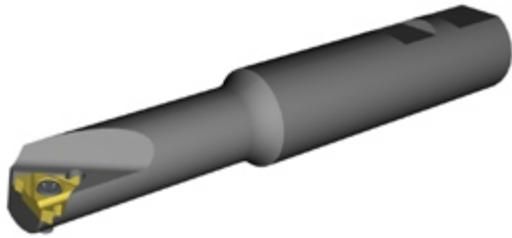
Recommendation: SMT17-12B11U-1C (M6) machining M20x2.5, M20x2.0, M20x1.5

Thread milling toolholder



Model	Insert	No. of Insert	Dimensions (mm)					Screw	Torx key
			Do	L1	D	D1	L		
SMT48-22C16U-4	16U1**	4	48	8	22	40	50	L60M3.5*10*D5.3	T-15
SMT50-22C16U-4	16U1**	4	50	8	22	42	50	L60M3.5*10*D5.3	T-15
SMT56-22C16U-6	16U1**	6	56	8	22	48	50	L60M3.5*10*D5.3	T-15
SMT63-22C16U-6	16U1**	6	63	8	22	50	50	L60M3.5*10*D5.3	T-15
SMT68-22C16U-6	16U1**	6	68	8	22	54	50	L60M3.5*10*D5.3	T-15
SMT68-22C22U-5	22U1**	5	68	11	22	54	50	L60M4.5*14*D6.6	T-20

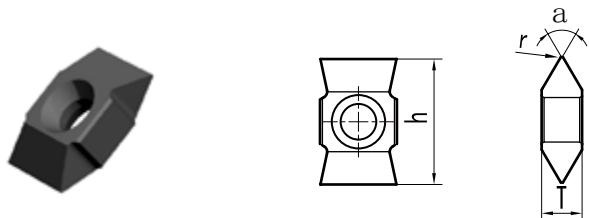
Single insert toolholder



Model	Insert		Dimensions (mm)					Screw	Torx key
	thread	grooving	D ₀	L1	L3	D	L		
SMT09-12F08	08NR**	-	8.2	12	24	12	80	L60M2.0*6*D2.8	T-6
SMT12-12F11	11NR**	T11N**	12	25	11	12	80	L60M2.5*6*D3.5	T-8
SMT18-20K16	16NR**	T16N**	18	35	41	20	125	L60M3.5*8*D5.3	T-15
SMT25-25M16	16NR**	T16N**	25	65	31	25	150	L60M3.5*8*D5.3	T-15
SMT35-32S22	22NR**	T22N**	35	110	82	32	250	L60M4.5*12*D6.6	T-20

INSERTS

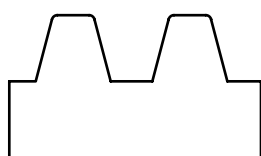
Thread milling inserts



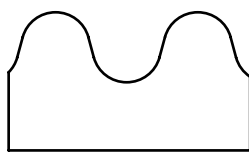
Model	Angle	pitch		Material		Dimensions (mm)			Suitable to Toolholder
				PMK	N	r	h	T	
	a	mm	tpi	BM1525	BN1020				
Dv076001	60	1.0-3.0	24-8			0.04	7	3.18	SMT**V07-**
DV096001	60	1.0-3.0	24-8			0.11	9.525	3.18	SMT**V09-**
DV136001	60	1.5-4.0	16-6			0.14	13.5	3.98	SMT**V13-**
DV156001	60	1.5-4.5	16-6	●	○	0.11	15.5	5	SMT**V15-**
DV156002	60	3.5-6.0	7-4	●	○	0.24	15.5	5	SMT**V15-**
DV196002	60	3.0-6.5	8-4	●	○	0.30	19	6.4	SMT**V19-**
DV155501	55	2.0-5.0	7-4	●	○	0.14	15.5	5	SMT**V15-**
DV195502	55	3.0-6.5	8-4	●	○	0.24	19	6.4	SMT**V19-**

● Stock ○ Extraordinary stock

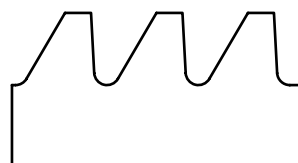
Other thread type can be customized:



TR/ACME



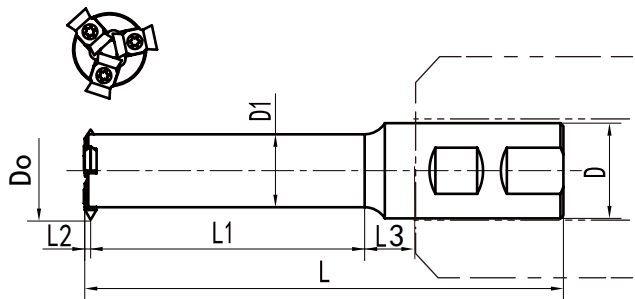
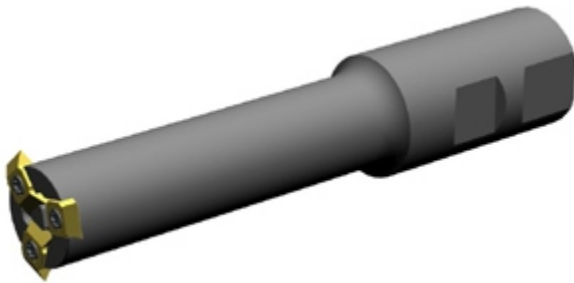
RD



buttress thread

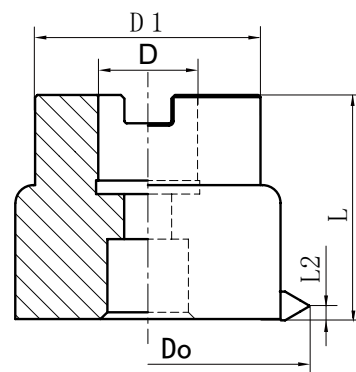
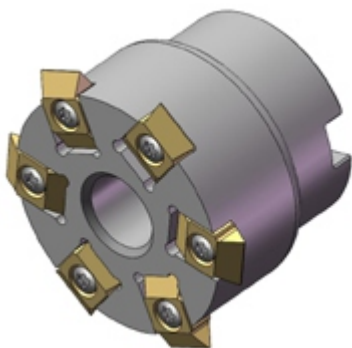


Thread milling toolholder



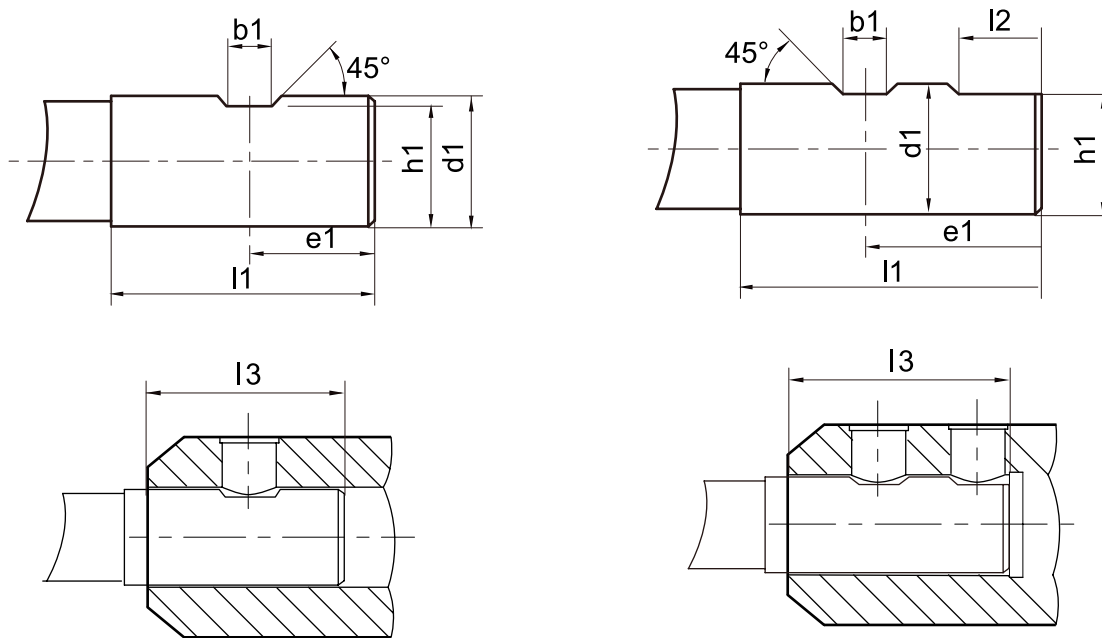
Model	Insert	No. of Insert	Dimensions (mm)							Screw	Torx key
			Do	L1	L2	L3	D	D1	L		
SMT17-25HV07-2	DV07**	2	17	37	1.4	4.6	16	12	90	L60M2.5*8*D3.5	T-7
SMT21-25HV07-3	DV07**	3	20.5	45	1.4	4.6	20	15.9	100	L60M2.5*8*D3.5	T-7
SMT24-25LV09-3	DV09**	3	23.85	75	1.4	9.6	25	19	140	L60M2.5*8*D3.5	T-7
SMT33-32NV13-3	DV13**	3	32.85	90	2.2	7.8	32	24.5	158	L60M3.5*12*D5.3	T-9
SMT40-32LV15-4	DV15**	4	40	70	2.6	4.4	32	30.5	135	L60M4*14*D5.7	T-15
SMT40-32QV15-4	DV15**	4	40	110	2.6	9.4	32	31	180	L60M4*14*D5.7	T-15
SMT40-32RV15-4	DV15**	4	40	145	2.6	4.4	32	31	210	L60M4*14*D5.7	T-15
SMT48-40TV15-6	DV15**	6	47.55	205	2.6	4.4	40	38	280	L60M4*14*D5.7	T-15
SMT53-40RV19-4	DV19**	4	52.55	130	3.3	-	40	40	200	L60M5*14*D6.6	T-20

Thread milling cutter



Model	Insert	No. of Insert	Dimensions (mm)					Screw	Torx key
			Do	L2	D	D1	L		
SMT57-22CV15-6	DV15**	6	57	2.5	22	48	50	L60M4*13*D5.7	T-15
SMT57-22CV15-8	DV15**	8	57	2.5	22	48	50	L60M4*13*D5.7	T-15
SMT72-22CV19-6	DV19**	6	71.5	3.2	22	50	50	L60M5*15*D6.6	T-20
SMT95-27CV19-8	DV19**	8	95	3.2	27	68	50	L60M5*15*D6.6	T-20

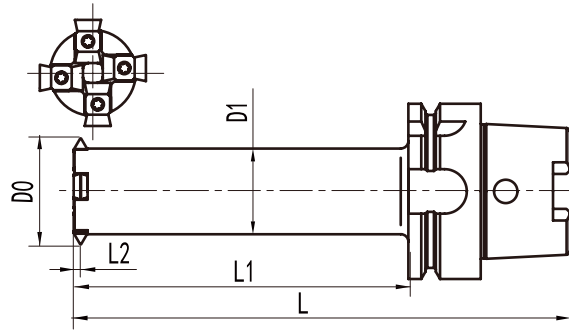
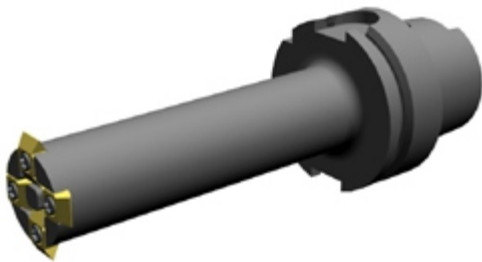
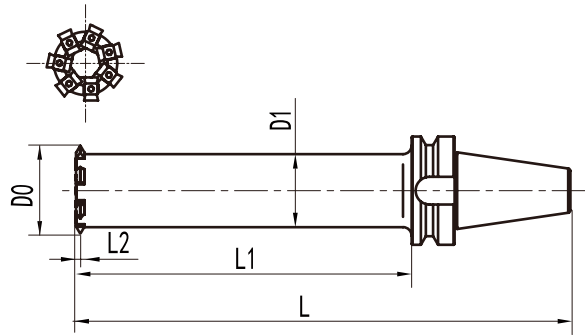
Flatted paralled shank (DIN 1835-B)



INSERTS

Dimensions (mm)						
d1	$l1 ({}_0)$	$b1 ({}^{+0.1}_0)$	$l2 ({}^{+1}_0)$	$e1 ({}_1^0)$	h1	$l3 (\pm 1)$
6	36	4.2	-	18.0	4.8	35
8	36	5.5	-	18.0	6.6	35
10	40	7.0	-	12.0	8.4	39
12	45	8.0	-	22.5	10.4	44
14	45	8.0	-	22.5	12.7	44
16	48	10.0	-	24.0	14.2	47
18	48	10.0	-	24.0	16.2	47
20	50	11.0	-	25.0	18.2	49
25	56	12.0	17	32.0	23.0	54
32	60	14.0	19	36.0	30.0	58
40	70	14.0	19	40.0	38.0	68

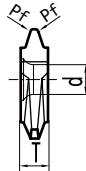
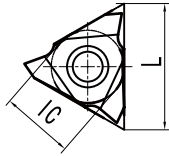
Thread milling toolholder



Model	Insert	No. of Insert	Dimensions (mm)					Taper	Screw	Torx key
			Do	L1	L2	D1	L			
HSK63A-MT40QV15-4	DV15**	4	52.55	120	2.5	30.8	178	HSK63A	L60M4*14*D5.7	T-15
BT40-MT53TV15-7	DV15**	7	52.55	195	2.5	42.5	290	BT40	L60M4*14*D5.7	T-15
BT50-MT63VV15-9	DV15**	9	63	250	2.5	53	390	BT50	L60M4*14*D5.7	T-15
BT40-MT58TV19-5	DV19**	5	57.5	200	3.2	45.5	295	BT40	L60M5*14*D6.6	T-20
BT50-MT67VV19-7	DV19**	7	66.55	250	3.2	54.4	390	BT50	L60M5*14*D6.6	T-20
BT50-MT72WV19-8	DV19**	8	71.5	300	3.2	59.5	450	BT50	L60M5*14*D6.6	

INSERTS

40° Worm milling Inserts



INSERTS

Model	Module	pitch	Material	Dimensions (mm)							
			PMK	Pf	T	IC	L	d			
		mm	BM1525								
22VER1.57-M0.5	0.5	1.57	●	0.15	4.9	12.7	22	5.1			
22VER1.88-M0.6	0.6	1.88	●	0.18	4.9						
22VER2.20-M0.7	0.7	2.20	●	0.21	4.9						
22VER2.36-M0.75	0.75	2.36	●	0.23	4.9						
22VER2.51-M0.8	0.8	2.51	●	0.24	4.9						
22VER2.83-M0.9	0.9	2.83	●	0.27	4.9						
22VER3.14-M1.0	1.0	3.14	●	0.3	4.9						
22VER3.93-M1.25	1.25	3.93	●	0.38	4.9						
22VER4.71-M1.5	1.5	4.71	●	0.45	4.9						
22VER5.03-M1.6	1.6	5.03	●	0.48	4.9						
22VER5.50-M1.75	1.75	5.50	●	0.53	4.9						
22VER6.28-M2.0	2.0	6.28	●	0.6	6.0	15.87	27	6.35			
27VER6.28-M2.0	2.0	6.28	●	0.6	6.4						
27VER7.07-M2.25	2.25	7.07	●	0.68	6.4						
27VER7.85-M2.5	2.5	7.85	●	0.75	6.4						
27VER8.64-M2.75	2.75	8.64	●	0.83	8.7						
27VER9.42-M3.0	3.0	9.42	●	0.9	8.7						
27VER9.90-M3.15	3.15	9.90	●	0.95	8.7						
27VER10.21-M3.25	3.25	10.21	●	0.98	8.7						
27VER11.00-M3.5	3.5	11.0	○	1.05	10.0						
35VER12.57-M4.0	4.0	12.57	○	1.2	10.7				20	35	6.35
35VER14.14-M4.5	4.5	14.14	○	1.35	12.5						
35VER15.71-M5.0	5.0	15.71	○	1.5	12.5						
35VER17.28-M5.5	5.5	17.28		1.65	15.2						
35VER18.85-M6.0	6.0	18.85		1.8	15.2						

● Stock ○ Extraordinary stock