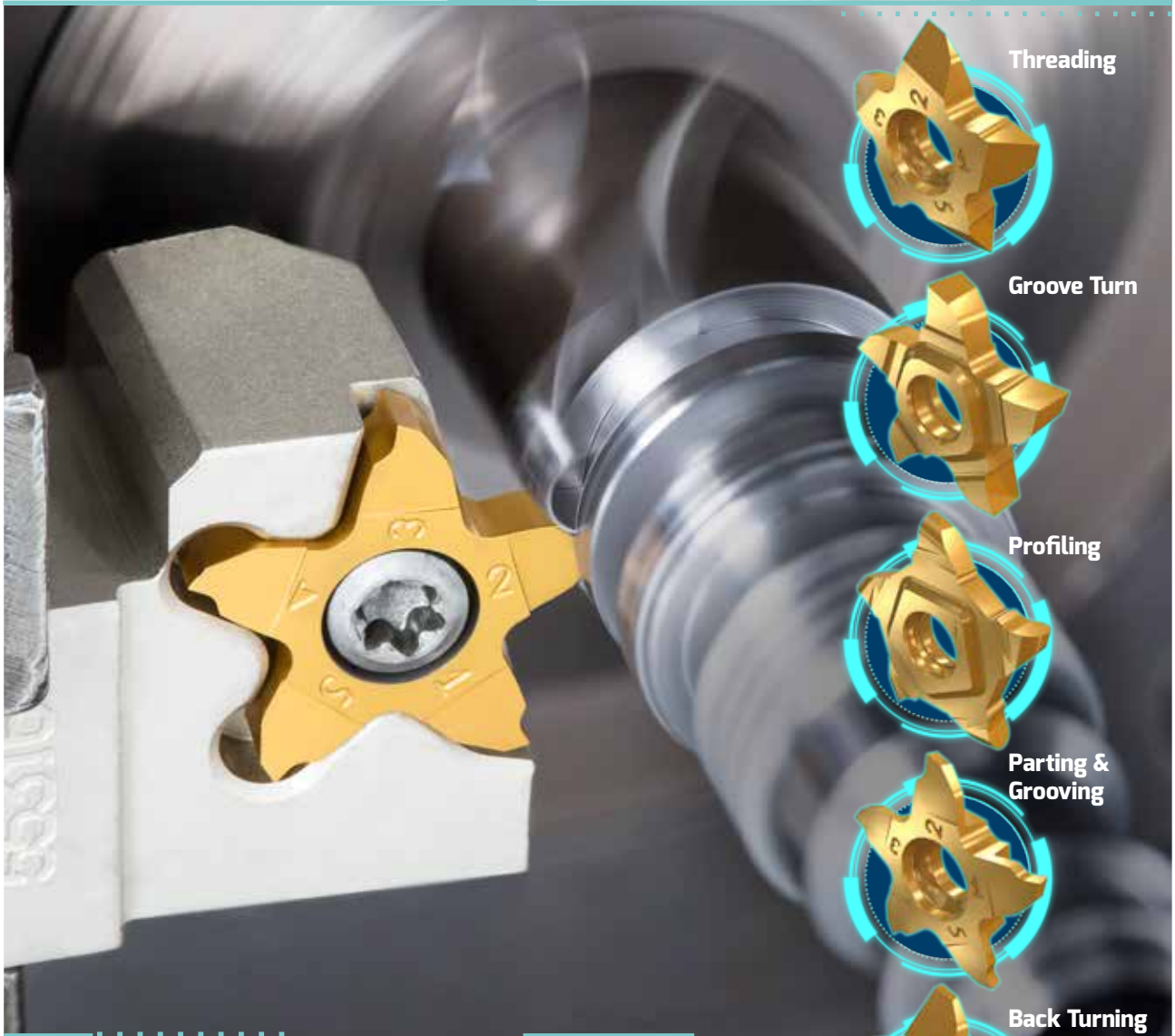


PENTACUT

PARTING & GROOVING LINE

Mini Penta for Grooving & Parting Next to Shoulder 0.25-3.18 mm

Miniature Master



Pentagonal Insert with **5 Cutting Edges**
for Grooving & Parting Miniature Parts
Next to Shoulder



For Grooving,
Parting, Turning
& Threading
Application



For Every Type
of Material



Innovative



Cost Effective
Insert

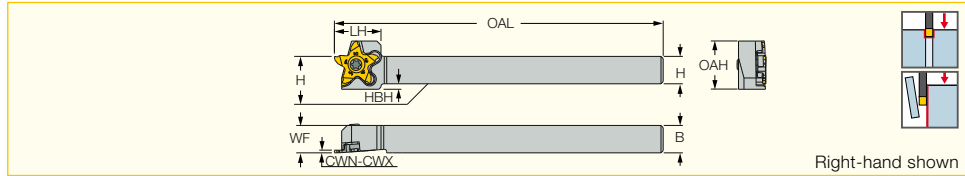


Left & Right Insert Widths:
0.25 - 3.18 mm

LOGIQGRIP
ISCAR CHESS LINES

PCHRS/LS-17

Tools Carrying Inserts with 5 Cutting Edges for Grooving, Parting and Recessing Next to High Shoulders





Right-hand shown

Designation	H	B	CWN ⁽¹⁾	CWX ⁽²⁾	WF	OAL	LH	HBH	OAH
PCHR/LS 10-17	10.0	10.0	0.25	3.18	10.00	120.00	17.0	2.0	17.6
PCHR/LS 12-17	12.0	12.0	0.25	3.18	12.00	120.00	17.0	-	17.6
PCHR/LS 16-17	16.0	16.0	0.25	3.18	16.00	120.00	17.0	-	21.6
PCHR/LS 20-17	20.0	20.0	0.25	3.18	20.00	120.00	17.0	-	25.6

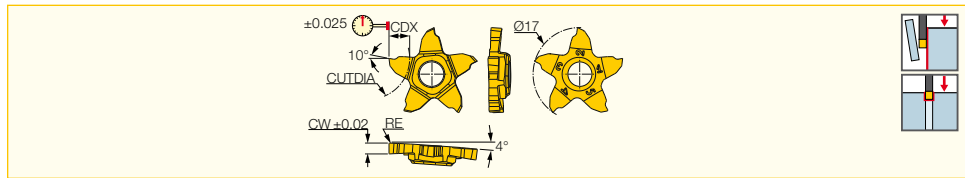
⁽¹⁾ Cutting width minimum
⁽²⁾ Cutting width maximum

Spare Parts

Designation		
PCHLS 10-17	SR M4-39432	T-1508/5
PCHRS 10-17	SR M4-39432L	T-1508/5
PCHLS 12-17	SR M4-39432	T-1508/5
PCHRS 12-17	SR M4-39432L	T-1508/5
PCHLS 16-17	SR M4-39432	T-1508/5
PCHRS 16-17	SR M4-39432L	T-1508/5
PCHLS 20-17	SR M4-39432	T-1508/5
PCHRS 20-17	SR M4-39432L	T-1508/5

PENTA 17-P-RS/LS

Pentagonal Inserts for Parting and Grooving Soft Materials, Thin and Miniature Parts

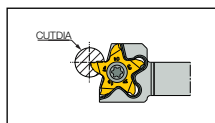
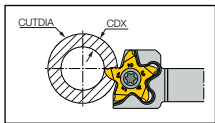


Designation	Dimensions					IC1008	Recommended Machining Data
	CW	RE	CDX	CUTDIA	f groove (mm/rev)		
PENTA 17N025P000R/LS	0.25	0.00	0.60	1.2	●	0.02-0.03	
PENTA 17N030P000R/LS	0.30	0.00	0.60	1.2	●	0.02-0.03	
PENTA 17N033P000R/LS	0.33	0.00	0.60	1.2	●	0.02-0.03	
PENTA 17N043P000R/LS	0.43	0.00	1.00	2.0	●	0.02-0.04	
PENTA 17N050P000R/LS	0.50	0.00	2.00	4.0	●	0.02-0.04	
PENTA 17N075P000R/LS	0.75	0.00	2.50	5.0	●	0.02-0.04	
PENTA 17N080P000R/LS	0.80	0.00	2.50	5.0	●	0.02-0.04	
PENTA 17N095P000R/LS	0.95	0.00	3.00	6.0	●	0.02-0.05	
PENTA 17N100P010R/LS	1.00	0.10	3.00	6.0	●	0.02-0.05	
PENTA 17N100P050R/LS	1.00	0.50	3.00	6.0	●	0.02-0.05	
PENTA 17N120P010R/LS	1.20	0.10	3.00	6.0	●	0.02-0.05	
PENTA 17N140P010R/LS	1.40	0.10	3.00	6.0	●	0.02-0.05	
PENTA 17N150P010R/LS	1.50	0.10	4.00	8.0	●	0.02-0.07	
PENTA 17N157P010R/LS	1.57	0.10	4.00	8.0	●	0.02-0.07	
PENTA 17N157P079R/LS	1.57	0.79	4.00	8.0	●	0.02-0.07	
PENTA 17N170P010R/LS	1.70	0.10	4.00	8.0	●	0.02-0.07	
PENTA 17N178P010R/LS	1.78	0.10	4.00	8.0	●	0.02-0.07	
PENTA 17N196P010R/LS	1.96	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N200P010R/LS	2.00	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N200P100R/LS	2.00	1.00	4.00	8.0	●	0.02-0.08	
PENTA 17N222P010R/LS	2.22	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N230P010R/LS	2.30	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N239P010R/LS	2.39	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N239P120R/LS	2.39	1.20	4.00	8.0	●	0.02-0.08	
PENTA 17N247P010R/LS	2.47	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N250P010R/LS	2.50	0.10	4.00	8.0	●	0.02-0.08	
PENTA 17N270P010R/LS	2.70	0.10	4.00	8.0	●	0.02-0.09	
PENTA 17N287P010R/LS	2.87	0.10	4.00	8.0	●	0.02-0.10	
PENTA 17N300P010R/LS	3.00	0.10	4.00	8.0	●	0.02-0.10	
PENTA 17N318P010R/LS	3.18	0.10	4.00	8.0	●	0.02-0.10	

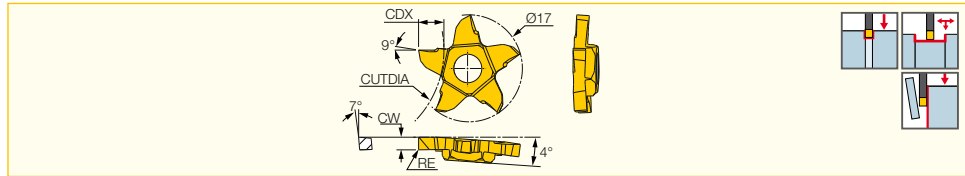
PENTA 17N...P...RS/LS - Precision Grooving & Parting Off Inserts

Designation	CW±0.02	RE	CDX	CUTDIA as a function of depth of cut (CDX)						Parting to center CUTDIA					
				CDX≤2.3	CDX≤2.5	CDX≤3.0	CDX≤3.5	CDX≤3.8	CDX≤4.0						
PENTA 17N025P000RS/LS	0.25	0.00	0.6*	-	-	-	-	-	-						
PENTA 17N030P000RS/LS	0.30	0.00	0.6*	-	-	-	-	-	-						
PENTA 17N033P000RS/LS	0.30	0.00	0.6*	-	-	-	-	-	-						
PENTA 17N043P000RS/LS	0.43	0.00	1.0*	-	-	-	-	-	-						
PENTA 17N050P000RS/LS	0.50	0.00	2.0*	-	-	-	-	-	-	4					
PENTA 17N075P000RS/LS	0.75	0.00	2.5	N.L.	400	-	-	-	-	5					
PENTA 17N080P000RS/LS	0.80	0.00	2.5	N.L.		-	-	-	-						
PENTA 17N095P000RS/LS	0.95	0.00		N.L.		-	-	-	-						
PENTA 17N100P010RS/LS	1.00	0.10	3.0	N.L.	400	100	-	-	-	6					
PENTA 17N100P050RS/LS	1.00	0.50		N.L.			-	-	-						
PENTA 17N120P010RS/LS	1.20	0.10		N.L.			-	-	-						
PENTA 17N140P010RS/LS	1.40	0.10		N.L.			-	-	-						
PENTA 17N150P010RS/LS	1.50	0.10		N.L.											
PENTA 17N157P010RS/LS	1.57	0.10		N.L.											
PENTA 17N157P079RS/LS	1.57	0.79		N.L.											
PENTA 17N170P010RS/LS	1.70	0.10		N.L.											
PENTA 17N178P010RS/LS	1.78	0.10		N.L.											
PENTA 17N196P010RS/LS	1.96	0.10		N.L.											
PENTA 17N200P010RS/LS	2.00	0.10	4.0	N.L.	400	100	55	32	20						
PENTA 17N200P100RS/LS	2.00	1.00		N.L.											
PENTA 17N222P010RS/LS	2.22	0.10		N.L.											
PENTA 17N230P010RS/LS	2.30	0.10		N.L.											
PENTA 17N239P010RS/LS	2.39	0.10		N.L.											
PENTA 17N239P120RS/LS	2.39	1.20		N.L.											
PENTA 17N247P010RS/LS	2.47	0.10		N.L.											
PENTA 17N250P010RS/LS	2.50	0.10		N.L.											
PENTA 17N270P010RS/LS	2.70	0.10		N.L.											
PENTA 17N287P010RS/LS	2.87	0.10		N.L.											
PENTA 17N300P010RS/LS	3.00	0.10		N.L.											
PENTA 17N318P010RS/LS	3.18	0.10		N.L.	400	100	55	32	25						

* N.L. = NO LIMIT



PENTA 17-NP-RS/LS
Pentagonal Inserts for Precision Grooving and Turning Next to High Shoulder Applications



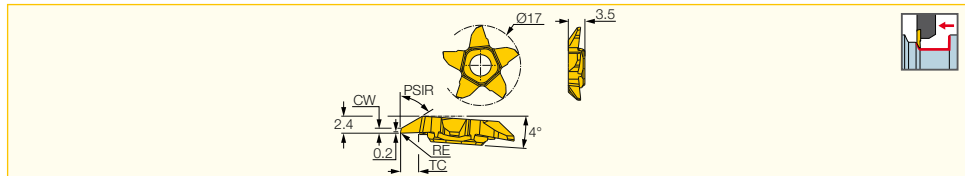
Designation	Dimensions				IC1008	Recommended Machining Data		
	CW	RE	CDX	CUTDIA		a _p (mm)	f turn (mm/rev)	f groove (mm/rev)
PENTA 17-100NP08R/LS	1.00	0.08	3.00	32.0	●	0.05-0.70	0.02-0.06	0.03-0.06
PENTA 17-200NP08R/LS	2.00	0.08	4.00	32.0	●	0.05-2.50	0.05-0.15	0.05-0.09
PENTA 17-300NP08R/LS	3.00	0.08	4.00	32.0	●	0.05-3.10	0.05-0.19	0.05-0.11

• When turning to the opposite side of chipformer, maximum D.O.C. is 0.5 mm

Designation	Dimensions			Dmax as a function of depth of cut (T)				
	W	R	T _{max-r}	T ≤ 2.5	T ≤ 3.0	T ≤ 3.5	T ≤ 3.8	T ≤ 4.0
PENTA 17-100NP08-L/RS	1.00	0.08	3.00	N.L.	100	-	-	-
PENTA 17-200NP08-L/RS	2.00	0.08	4.00	N.L.	100	75	45	32
PENTA 17-300NP08-L/RS	3.00	0.08	4.00	N.L.	100	75	45	32

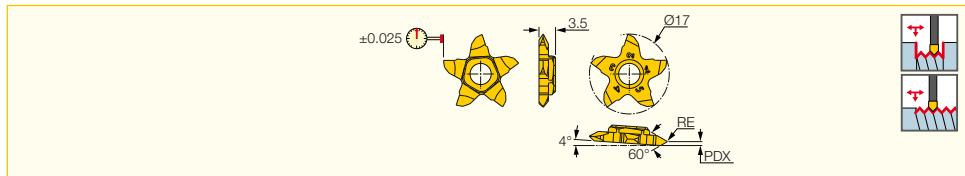
(1) N.L. - No Limit

PENTA 17-ER/EL
Back Turning Pentagonal Inserts for Short Chipping Materials



Designation	Dimensions				IC1008	Recommended Machining Data	
	CW	RE	PSIR	T _c		a _p (mm)	f turn (mm/rev)
PENTA 17EL00-07K0LS	0.70	0.00	60.0	4.0	●	0.05-2.50	0.01-0.15
PENTA 17ER00-07K0RS	0.70	0.00	60.0	4.0	●	0.05-2.50	0.01-0.15
PENTA 17EL08-07K0LS	0.70	0.80	60.0	4.0	●	0.05-2.50	0.01-0.15
PENTA 17ER08-07K0RS	0.70	0.80	60.0	4.0	●	0.05-2.50	0.01-0.15

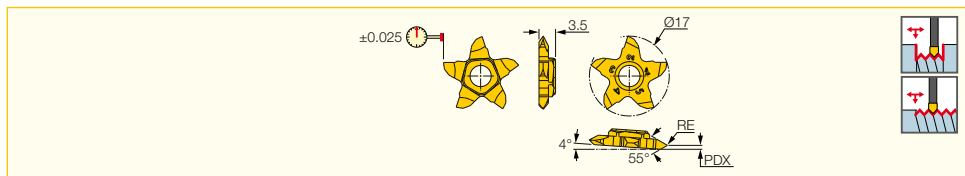
PENTA 17-MT-RS/LS
Precision Ground Pentagonal External Threading Inserts with a 60° Partial Profile



Designation	Dimensions				IC1008
	TPN ⁽¹⁾	TPX ⁽²⁾	RE	PDX	
PENTA 17-MTL003LS	0.30	1.75	0.03	0.8	●
PENTA 17-MTR003RS	0.30	1.75	0.03	0.8	●
PENTA 17-MTL008LS	0.70	3.50	0.08	1.4	●
PENTA 17-MTR008RS	0.70	3.50	0.08	1.4	●

(1) Thread pitch minimum (mm) (2) Thread pitch maximum (mm)

PENTA 17-WT-RS/LS
Precision Ground Pentagonal External Threading Inserts with a 55° Partial Profile



Designation	Dimensions				IC1008
	TPIX ⁽¹⁾	TPIN ⁽²⁾	RE	PDX	
PENTA 17-WTL003LS	72.00	17.00	0.03	0.8	●
PENTA 17-WTR003RS	72.00	17.00	0.03	0.8	●
PENTA 17-WTL008LS	31.00	7.00	0.08	1.4	●
PENTA 17-WTR008RS	31.00	7.00	0.08	1.4	●

(1) Threads per inch maximum (2) Threads per inch minimum