

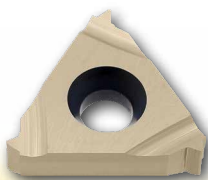
Partial Profile Thread Turning Inserts 車牙刀片泛牙型



- 11 or 16 size inserts, 60° or 55°.
- A(0.5~1.5), AG(0.5~3.0) and G(1.75~3.0).
- Left hand or right hand inserts.
- 11 或 16 尺寸的車牙刀片, 60°或 55°
- A(0.5~1.5 螺距), AG(0.5~3.0 螺距) 和 G(1.75~3.0 螺距)
- 提供左手或右手刀片

→ Page C095, C102

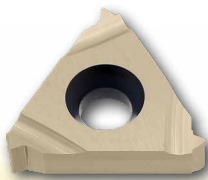
ISO Metric Thread Turning Inserts 車牙刀片 ISO M 牙



- 11 or 16 size inserts, 60°.
- 0.35~3.0 pitch.
- Left hand or right hand inserts.
- 11 或 16 尺寸的車牙刀片, 60°
- 0.35~3.0 螺距
- 提供左手或右手刀片

→ Page C096

American UN Thread Turning Inserts 車牙刀片 UN 牙



- 11 or 16 size inserts, 60°.
- 32~8 TPI.
- Left hand or right hand inserts.
- 11 或 16 尺寸的車牙刀片, 60°
- 每英吋牙數 32 ~ 8(TPI)
- 提供左手或右手刀片

→ Page C098

Designations for Threading Insert 車牙刀片型號編碼

16

①

I

②

R

③

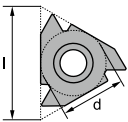
A

④

60

⑤

① Insert Size



l (mm)	d (inch)
11	1/4
16	3/8

② Application

E	External
I	Internal

③ Hand of Tool

R	Right Hand
L	Left Hand

④ Thread Pitch or TPI

Partial Profile

	TP (mm)	TPI
A	0.5 ~ 1.5	48 ~ 16
AG	0.5 ~ 3.0	48 ~ 8
G	1.75 ~ 3.0	14 ~ 8

Full Profile

Value by number

TP (mm)	TPI
0.75	34
⋮	⋮
3.00	8

⑤ Thread Standard

Partial Profile

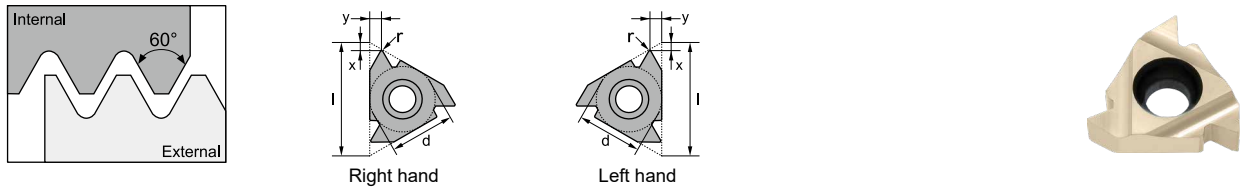
55°	Partial Profile 55°
60°	Partial Profile 60°

Full Profile

ISO	ISO Metric 60°
UN	American UN 60°
W	Whitworth 55°

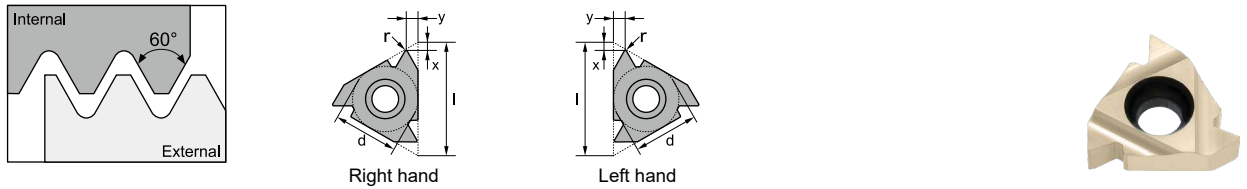
Threading Inserts - Partial Profile 60° 車牙刀片 - 60° 泛牙型

External 外徑



Order No. 訂購編碼	Designation	Pitch		Dimensions (mm)					Working Material					
		TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H
I11ERA606025	11ERA60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I11ELA606025	11ELA60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I16ERA606025	16ERA60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16ELA606025	16ELA60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16ERAG606025	16ERAG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16ELAG606025	16ELAG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16ERG606025	16ERG60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●		○	○
I16ELG606025	16ELG60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●		○	○

Internal 內徑

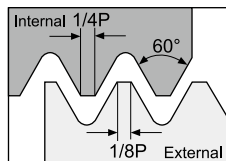


Order No. 訂購編碼	Designation	Pitch		Dimensions (mm)					Working Material					
		TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H
I11IRA606025	11IRA60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I11ILA606025	11ILA60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I16IRA606025	16IRA60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16ILA606025	16ILA60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16IRAG606025	16IRAG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16ILAG606025	16ILAG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16IRG606025	16IRG60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○
I16ILG606025	16ILG60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○

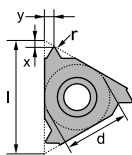
Threading Inserts - ISO Metric 60°

車牙刀片 - ISO 公制 60° 螺紋

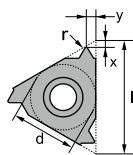
External 外徑



Tolerance Class : 6g/6H



Right hand



Left hand

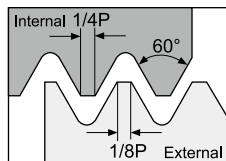


Order No. 訂購編碼	Designation	Pitch	Dimensions (mm)					Working Material					
		TP (mm)	d	l	r	x	y	P	M	K	N	S	H
I16ER035ISO6025	16ER0.35ISO-CP6025	0.35	3/8"	16	0.04	0.8	0.4	●	●	●		○	○
I16EL035ISO6025	16EL0.35ISO-CP6025	0.35	3/8"	16	0.04	0.8	0.4	●	●	●		○	○
I16ER040ISO6025	16ER0.40ISO-CP6025	0.40	3/8"	16	0.04	0.7	0.4	●	●	●		○	○
I16ER045ISO6025	16ER0.45ISO-CP6025	0.45	3/8"	16	0.05	0.7	0.4	●	●	●		○	○
I16ER050ISO6025	16ER0.50ISO-CP6025	0.50	3/8"	16	0.05	0.6	0.6	●	●	●		○	○
I16EL050ISO6025	16EL0.50ISO-CP6025	0.50	3/8"	16	0.05	0.6	0.6	●	●	●		○	○
I16ER060ISO6025	16ER0.60ISO-CP6025	0.60	3/8"	16	0.07	0.6	0.6	●	●	●		○	○
I16ER070ISO6025	16ER0.70ISO-CP6025	0.70	3/8"	16	0.07	0.6	0.6	●	●	●		○	○
I16ER075ISO6025	16ER0.75ISO-CP6025	0.75	3/8"	16	0.08	0.6	0.6	●	●	●		○	○
I16EL075ISO6025	16EL0.75ISO-CP6025	0.75	3/8"	16	0.08	0.6	0.6	●	●	●		○	○
I16ER080ISO6025	16ER0.80ISO-CP6025	0.80	3/8"	16	0.09	0.6	0.6	●	●	●		○	○
I16EL080ISO6025	16EL0.80ISO-CP6025	0.80	3/8"	16	0.09	0.6	0.6	●	●	●		○	○
I16ER100ISO6025	16ER1.00ISO-CP6025	1.00	3/8"	16	0.12	0.7	0.7	●	●	●		○	○
I16EL100ISO6025	16EL1.00ISO-CP6025	1.00	3/8"	16	0.12	0.7	0.7	●	●	●		○	○
I16ER125ISO6025	16ER1.25ISO-CP6025	1.25	3/8"	16	0.15	0.8	0.9	●	●	●		○	○
I16EL125ISO6025	16EL1.25ISO-CP6025	1.25	3/8"	16	0.15	0.8	0.9	●	●	●		○	○
I16ER150ISO6025	16ER1.50ISO-CP6025	1.50	3/8"	16	0.18	0.8	1.0	●	●	●		○	○
I16EL150ISO6025	16EL1.50ISO-CP6025	1.50	3/8"	16	0.18	0.8	1.0	●	●	●		○	○
I16ER175ISO6025	16ER1.75ISO-CP6025	1.75	3/8"	16	0.21	0.9	1.2	●	●	●		○	○
I16EL175ISO6025	16EL1.75ISO-CP6025	1.75	3/8"	16	0.21	0.9	1.2	●	●	●		○	○
I16ER200ISO6025	16ER2.00ISO-CP6025	2.00	3/8"	16	0.25	1.0	1.3	●	●	●		○	○
I16EL200ISO6025	16EL2.00ISO-CP6025	2.00	3/8"	16	0.25	1.0	1.3	●	●	●		○	○
I16ER250ISO6025	16ER2.50ISO-CP6025	2.50	3/8"	16	0.31	1.1	1.5	●	●	●		○	○
I16EL250ISO6025	16EL2.50ISO-CP6025	2.50	3/8"	16	0.31	1.1	1.5	●	●	●		○	○
I16ER300ISO6025	16ER3.00ISO-CP6025	3.00	3/8"	16	0.38	1.2	1.6	●	●	●		○	○
I16EL300ISO6025	16EL3.00ISO-CP6025	3.00	3/8"	16	0.38	1.2	1.6	●	●	●		○	○

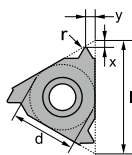
Threading Inserts - ISO Metric 60°

車牙刀片 - ISO 公制 60° 螺紋

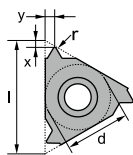
Internal 內徑



Tolerance Class : 6g/6H



Right hand



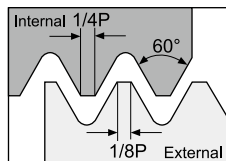
Left hand



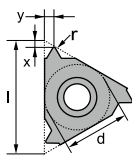
Order No. 訂購編碼	Designation	Pitch	Dimensions (mm)					Working Material					
		TP (mm)	d	l	r	x	y	P	M	K	N	S	H
I11IR035ISO6025	11IR0.35ISO-CP6025	0.35	1/4"	11	0.02	0.8	0.3	●	●	●		○	○
I11IL035ISO6025	11IL0.35ISO-CP6025	0.35	1/4"	11	0.02	0.8	0.3	●	●	●		○	○
I11IR040ISO6025	11IR0.40ISO-CP6025	0.40	1/4"	11	0.02	0.8	0.4	●	●	●		○	○
I11IR050ISO6025	11IR0.50ISO-CP6025	0.50	1/4"	11	0.03	0.6	0.6	●	●	●		○	○
I11IL050ISO6025	11IL0.50ISO-CP6025	0.50	1/4"	11	0.03	0.6	0.6	●	●	●		○	○
I11IR070ISO6025	11IR0.70ISO-CP6025	0.70	1/4"	11	0.04	0.6	0.6	●	●	●		○	○
I11IR075ISO6025	11IR0.75ISO-CP6025	0.75	1/4"	11	0.04	0.6	0.6	●	●	●		○	○
I11IL075ISO6025	11IL0.75ISO-CP6025	0.75	1/4"	11	0.04	0.6	0.6	●	●	●		○	○
I11IR080ISO6025	11IR0.80ISO-CP6025	0.80	1/4"	11	0.04	0.6	0.6	●	●	●		○	○
I11IR100ISO6025	11IR1.00ISO-CP6025	1.00	1/4"	11	0.05	0.6	0.7	●	●	●		○	○
I11IL100ISO6025	11IL1.00ISO-CP6025	1.00	1/4"	11	0.05	0.6	0.7	●	●	●		○	○
I11IR125ISO6025	11IR1.25ISO-CP6025	1.25	1/4"	11	0.07	0.8	0.8	●	●	●		○	○
I11IL125ISO6025	11IL1.25ISO-CP6025	1.25	1/4"	11	0.07	0.8	0.8	●	●	●		○	○
I11IR150ISO6025	11IR1.50ISO-CP6025	1.50	1/4"	11	0.08	0.8	1.0	●	●	●		○	○
I11IL150ISO6025	11IL1.50ISO-CP6025	1.50	1/4"	11	0.08	0.8	1.0	●	●	●		○	○
I16IR075ISO6025	16IR0.75ISO-CP6025	0.75	3/8"	16	0.04	0.6	0.6	●	●	●		○	○
I16IL075ISO6025	16IL0.75ISO-CP6025	0.75	3/8"	16	0.04	0.6	0.6	●	●	●		○	○
I16IR080ISO6025	16IR0.80ISO-CP6025	0.80	3/8"	16	0.04	0.6	0.6	●	●	●		○	○
I16IL080ISO6025	16IL0.80ISO-CP6025	0.80	3/8"	16	0.04	0.6	0.6	●	●	●		○	○
I16IR100ISO6025	16IR1.00ISO-CP6025	1.00	3/8"	16	0.05	0.6	0.7	●	●	●		○	○
I16IL100ISO6025	16IL1.00ISO-CP6025	1.00	3/8"	16	0.05	0.6	0.7	●	●	●		○	○
I16IR125ISO6025	16IR1.25ISO-CP6025	1.25	3/8"	16	0.07	0.8	0.9	●	●	●		○	○
I16IL125ISO6025	16IL1.25ISO-CP6025	1.25	3/8"	16	0.07	0.8	0.9	●	●	●		○	○
I16IR150ISO6025	16IR1.50ISO-CP6025	1.50	3/8"	16	0.10	0.8	1.0	●	●	●		○	○
I16IL150ISO6025	16IL1.50ISO-CP6025	1.50	3/8"	16	0.10	0.8	1.0	●	●	●		○	○
I16IR175ISO6025	16IR1.75ISO-CP6025	1.75	3/8"	16	0.12	0.9	1.2	●	●	●		○	○
I16IL175ISO6025	16IL1.75ISO-CP6025	1.75	3/8"	16	0.12	0.9	1.2	●	●	●		○	○
I16IR200ISO6025	16IR2.00ISO-CP6025	2.00	3/8"	16	0.13	1.0	1.3	●	●	●		○	○
I16IL200ISO6025	16IL2.00ISO-CP6025	2.00	3/8"	16	0.13	1.0	1.3	●	●	●		○	○
I16IR250ISO6025	16IR2.50ISO-CP6025	2.50	3/8"	16	0.15	1.1	1.5	●	●	●		○	○
I16IL250ISO6025	16IL2.50ISO-CP6025	2.50	3/8"	16	0.15	1.1	1.5	●	●	●		○	○
I16IR300ISO6025	16IR3.00ISO-CP6025	3.00	3/8"	16	0.18	1.1	1.5	●	●	●		○	○
I16IL300ISO6025	16IL3.00ISO-CP6025	3.00	3/8"	16	0.18	1.1	1.5	●	●	●		○	○

Turning

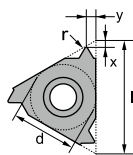
External 外徑



Tolerance Class : 2A/2B



Right hand

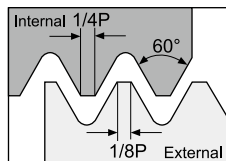


Left hand

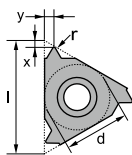


Order No. 訂購編碼	Designation	Pitch	Dimensions (mm)					Working Material					
		TPI	d	l	r	x	y	P	M	K	N	S	H
I11ER32UN6025	11ER32UN-CP6025	32	1/4"	11	0.09	0.6	0.6	●	●	●		○	○
I11ER28UN6025	11ER28UN-CP6025	28	1/4"	11	0.10	0.6	0.7	●	●	●		○	○
I11EL28UN6025	11EL28UN-CP6025	28	1/4"	11	0.10	0.6	0.7	●	●	●		○	○
I11ER18UN6025	11ER18UN-CP6025	18	1/4"	11	0.17	0.8	1.0	●	●	●		○	○
I11ER16UN6025	11ER16UN-CP6025	16	1/4"	11	0.18	0.9	1.1	●	●	●		○	○
I16ER40UN6025	16ER40UN-CP6025	40	3/8"	16	0.06	0.6	0.6	●	●	●		○	○
I16EL40UN6025	16EL40UN-CP6025	40	3/8"	16	0.06	0.6	0.6	●	●	●		○	○
I16ER36UN6025	16ER36UN-CP6025	36	3/8"	16	0.07	0.6	0.6	●	●	●		○	○
I16EL36UN6025	16EL36UN-CP6025	36	3/8"	16	0.07	0.6	0.6	●	●	●		○	○
I16ER32UN6025	16ER32UN-CP6025	32	3/8"	16	0.09	0.6	0.6	●	●	●		○	○
I16EL32UN6025	16EL32UN-CP6025	32	3/8"	16	0.09	0.6	0.6	●	●	●		○	○
I16ER28UN6025	16ER28UN-CP6025	28	3/8"	16	0.10	0.6	0.7	●	●	●		○	○
I16EL28UN6025	16EL28UN-CP6025	28	3/8"	16	0.10	0.6	0.7	●	●	●		○	○
I16ER26UN6025	16ER26UN-CP6025	26	3/8"	16	0.11	0.7	0.8	●	●	●		○	○
I16EL26UN6025	16EL26UN-CP6025	26	3/8"	16	0.11	0.7	0.8	●	●	●		○	○
I16ER24UN6025	16ER24UN-CP6025	24	3/8"	16	0.12	0.7	0.8	●	●	●		○	○
I16EL24UN6025	16EL24UN-CP6025	24	3/8"	16	0.12	0.7	0.8	●	●	●		○	○
I16ER20UN6025	16ER20UN-CP6025	20	3/8"	16	0.15	0.8	0.9	●	●	●		○	○
I16EL20UN6025	16EL20UN-CP6025	20	3/8"	16	0.15	0.8	0.9	●	●	●		○	○

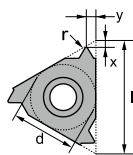
External 外徑



Tolerance Class : 2A/2B



Right hand



Left hand

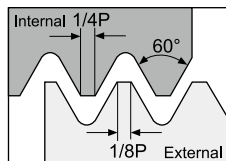


Order No. 訂購編碼	Designation	Pitch	Dimensions (mm)					Working Material					
		TPI	d	l	r	x	y	P	M	K	N	S	H
I16ER18UN6025	16ER18UN-CP6025	18	3/8"	16	0.17	0.8	1.0	●	●	●		○	○
I16EL18UN6025	16EL18UN-CP6025	18	3/8"	16	0.17	0.8	1.0	●	●	●		○	○
I16ER16UN6025	16ER16UN-CP6025	16	3/8"	16	0.18	0.9	1.1	●	●	●		○	○
I16EL16UN6025	16EL16UN-CP6025	16	3/8"	16	0.18	0.9	1.1	●	●	●		○	○
I16ER14UN6025	16ER14UN-CP6025	14	3/8"	16	0.22	1.0	1.2	●	●	●		○	○
I16EL14UN6025	16EL14UN-CP6025	14	3/8"	16	0.22	1.0	1.2	●	●	●		○	○
I16ER13UN6025	16ER13UN-CP6025	13	3/8"	16	0.24	1.0	1.3	●	●	●		○	○
I16EL13UN6025	16EL13UN-CP6025	13	3/8"	16	0.24	1.0	1.3	●	●	●		○	○
I16ER12UN6025	16ER12UN-CP6025	12	3/8"	16	0.26	1.1	1.4	●	●	●		○	○
I16EL12UN6025	16EL12UN-CP6025	12	3/8"	16	0.26	1.1	1.4	●	●	●		○	○
I16ER115UN6025	16ER11.5UN-CP6025	11.5	3/8"	16	0.27	1.1	1.5	●	●	●		○	○
I16EL115UN6025	16EL11.5UN-CP6025	11.5	3/8"	16	0.27	1.1	1.5	●	●	●		○	○
I16ER11UN6025	16ER11UN-CP6025	11	3/8"	16	0.28	1.1	1.5	●	●	●		○	○
I16EL11UN6025	16EL11UN-CP6025	11	3/8"	16	0.28	1.1	1.5	●	●	●		○	○
I16ER10UN6025	16ER10UN-CP6025	10	3/8"	16	0.32	1.1	1.5	●	●	●		○	○
I16EL10UN6025	16EL10UN-CP6025	10	3/8"	16	0.32	1.1	1.5	●	●	●		○	○
I16ER9UN6025	16ER9UN-CP6025	9	3/8"	16	0.36	1.2	1.7	●	●	●		○	○
I16EL9UN6025	16EL9UN-CP6025	9	3/8"	16	0.36	1.2	1.7	●	●	●		○	○
I16ER8UN6025	16ER8UN-CP6025	8	3/8"	16	0.41	1.2	1.6	●	●	●		○	○
I16EL8UN6025	16EL8UN-CP6025	8	3/8"	16	0.41	1.2	1.6	●	●	●		○	○

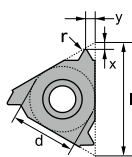
Threading Inserts - American UN 60°

車牙刀片 - 美制 UN 60° 螺紋

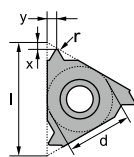
Internal 內徑



Tolerance Class : 2A/2B



Right hand

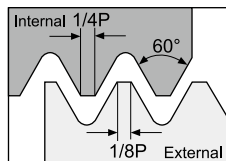


Left hand

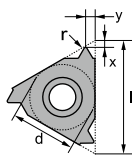


Order No. 訂購編碼	Designation	Pitch	Dimensions (mm)					Working Material					
		TPI	d	l	r	x	y	P	M	K	N	S	H
I11IR32UN6025	11IR32UN-CP6025	32	1/4"	11	0.04	0.6	0.6	●	●	●		○	○
I11IL32UN6025	11IL32UN-CP6025	32	1/4"	11	0.04	0.6	0.6	●	●	●		○	○
I11IR28UN6025	11IR28UN-CP6025	28	1/4"	11	0.04	0.6	0.7	●	●	●		○	○
I11IL28UN6025	11IL28UN-CP6025	28	1/4"	11	0.04	0.6	0.7	●	●	●		○	○
I11IR24UN6025	11IR24UN-CP6025	24	1/4"	11	0.05	0.7	0.8	●	●	●		○	○
I11IL24UN6025	11IL24UN-CP6025	24	1/4"	11	0.05	0.7	0.8	●	●	●		○	○
I11IR20UN6025	11IR20UN-CP6025	20	1/4"	11	0.06	0.8	0.9	●	●	●		○	○
I11IL20UN6025	11IL20UN-CP6025	20	1/4"	11	0.06	0.8	0.9	●	●	●		○	○
I11IR18UN6025	11IR18UN-CP6025	18	1/4"	11	0.07	0.8	1.0	●	●	●		○	○
I11IL18UN6025	11IL18UN-CP6025	18	1/4"	11	0.07	0.8	1.0	●	●	●		○	○
I11IR16UN6025	11IR16UN-CP6025	16	1/4"	11	0.09	0.9	1.1	●	●	●		○	○
I11IL16UN6025	11IL16UN-CP6025	16	1/4"	11	0.09	0.9	1.1	●	●	●		○	○
I16IR40UN6025	16IR40UN-CP6025	40	3/8"	16	0.03	0.6	0.6	●	●	●		○	○
I16IL40UN6025	16IL40UN-CP6025	40	3/8"	16	0.03	0.6	0.6	●	●	●		○	○
I16IR36UN6025	16IR36UN-CP6025	36	3/8"	16	0.03	0.6	0.6	●	●	●		○	○
I16IL36UN6025	16IL36UN-CP6025	36	3/8"	16	0.03	0.6	0.6	●	●	●		○	○
I16IR32UN6025	16IR32UN-CP6025	32	3/8"	16	0.04	0.6	0.6	●	●	●		○	○
I16IL32UN6025	16IL32UN-CP6025	32	3/8"	16	0.04	0.6	0.6	●	●	●		○	○
I16IR28UN6025	16IR28UN-CP6025	28	3/8"	16	0.04	0.6	0.7	●	●	●		○	○
I16IL28UN6025	16IL28UN-CP6025	28	3/8"	16	0.04	0.6	0.7	●	●	●		○	○
I16IR26UN6025	16IR26UN-CP6025	26	3/8"	16	0.04	0.7	0.8	●	●	●		○	○
I16IL26UN6025	16IL26UN-CP6025	26	3/8"	16	0.04	0.7	0.8	●	●	●		○	○
I16IR24UN6025	16IR24UN-CP6025	24	3/8"	16	0.05	0.7	0.8	●	●	●		○	○
I16IL24UN6025	16IL24UN-CP6025	24	3/8"	16	0.05	0.7	0.8	●	●	●		○	○
I16IR20UN6025	16IR20UN-CP6025	20	3/8"	16	0.06	0.8	0.9	●	●	●		○	○
I16IL20UN6025	16IL20UN-CP6025	20	3/8"	16	0.06	0.8	0.9	●	●	●		○	○

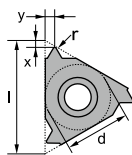
Internal 內徑



Tolerance Class : 2A/2B



Right hand



Left hand

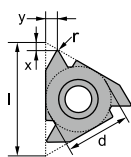
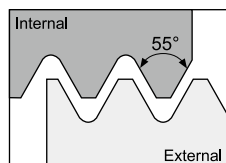


Order No. 訂購編碼	Designation	Pitch	Dimensions (mm)					Working Material					
		TPI	d	l	r	x	y	P	M	K	N	S	H
I16IR18UN6025	16IR18UN-CP6025	18	3/8"	16	0.07	0.8	1.0	●	●	●		○	○
I16IL18UN6025	16IL18UN-CP6025	18	3/8"	16	0.07	0.8	1.0	●	●	●		○	○
I16IR16UN6025	16IR16UN-CP6025	16	3/8"	16	0.09	0.9	1.1	●	●	●		○	○
I16IL16UN6025	16IL16UN-CP6025	16	3/8"	16	0.09	0.9	1.1	●	●	●		○	○
I16IR14UN6025	16IR14UN-CP6025	14	3/8"	16	0.10	0.9	1.2	●	●	●		○	○
I16IL14UN6025	16IL14UN-CP6025	14	3/8"	16	0.10	0.9	1.2	●	●	●		○	○
I16IR13UN6025	16IR13UN-CP6025	13	3/8"	16	0.11	1.0	1.3	●	●	●		○	○
I16IL13UN6025	16IL13UN-CP6025	13	3/8"	16	0.11	1.0	1.3	●	●	●		○	○
I16IR12UN6025	16IR12UN-CP6025	12	3/8"	16	0.12	1.1	1.4	●	●	●		○	○
I16IL12UN6025	16IL12UN-CP6025	12	3/8"	16	0.12	1.1	1.4	●	●	●		○	○
I16IR115UN6025	16IR11.5UN-CP6025	11.5	3/8"	16	0.13	1.1	1.5	●	●	●		○	○
I16IL115UN6025	16IL11.5UN-CP6025	11.5	3/8"	16	0.13	1.1	1.5	●	●	●		○	○
I16IR11UN6025	16IR11UN-CP6025	11	3/8"	16	0.14	1.1	1.5	●	●	●		○	○
I16IL11UN6025	16IL11UN-CP6025	11	3/8"	16	0.14	1.1	1.5	●	●	●		○	○
I16IR10UN6025	16IR10UN-CP6025	10	3/8"	16	0.15	1.1	1.5	●	●	●		○	○
I16IL10UN6025	16IL10UN-CP6025	10	3/8"	16	0.15	1.1	1.5	●	●	●		○	○
I16IR9UN6025	16IR9UN-CP6025	9	3/8"	16	0.17	1.2	1.7	●	●	●		○	○
I16IL9UN6025	16IL9UN-CP6025	9	3/8"	16	0.17	1.2	1.7	●	●	●		○	○
I16IR8UN6025	16IR8UN-CP6025	8	3/8"	16	0.19	1.1	1.5	●	●	●		○	○
I16IL8UN6025	16IL8UN-CP6025	8	3/8"	16	0.19	1.1	1.5	●	●	●		○	○

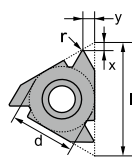
Threading Inserts - Partial Profile 55°

車牙刀片 - 55° 泛牙型

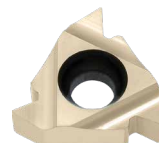
External 外徑



Right hand

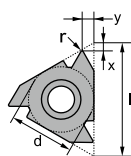
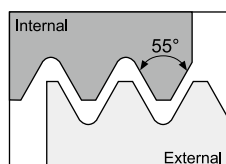


Left hand

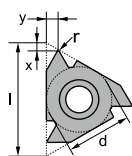


Order No. 訂購編碼	Designation	Pitch		Dimensions (mm)					Working Material					
		TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H
I11ERA556025	11ERA55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I11ELA556025	11ELA55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I16ERA556025	16ERA55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16ELA556025	16ELA55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16ERAG556025	16ERAG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16ELAG556025	16ELAG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16ERG556025	16ERG55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●		○	○
I16ELG556025	16ELG55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●		○	○

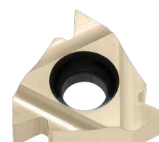
Internal 內徑



Right hand

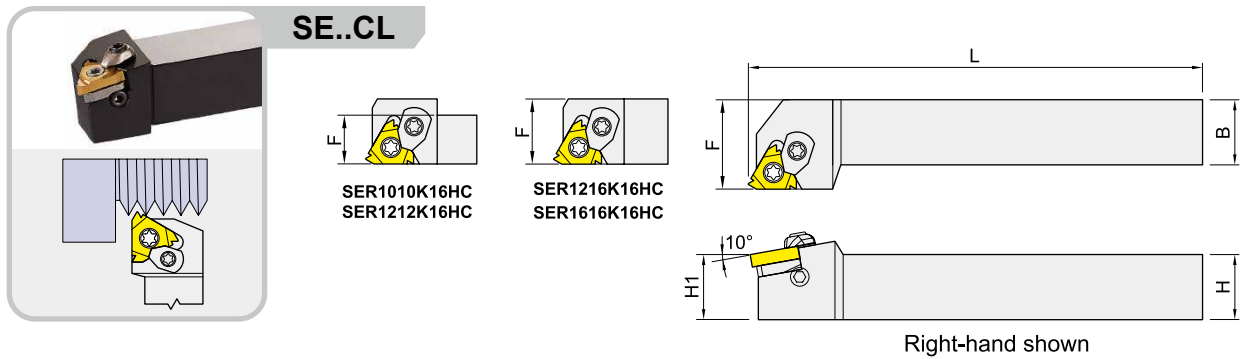


Left hand



Order No. 訂購編碼	Designation	Pitch		Dimensions (mm)					Working Material					
		TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H
I11IRA556025	11IRA55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I11ILA556025	11ILA55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
I16IRA556025	16IRA55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16ILA556025	16ILA55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
I16IRAG556025	16IRAG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16ILAG556025	16ILAG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
I16IRG556025	16IRG55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○
I16ILG556025	16ILG55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○

External Threading Tool Holders 外徑車牙刀桿



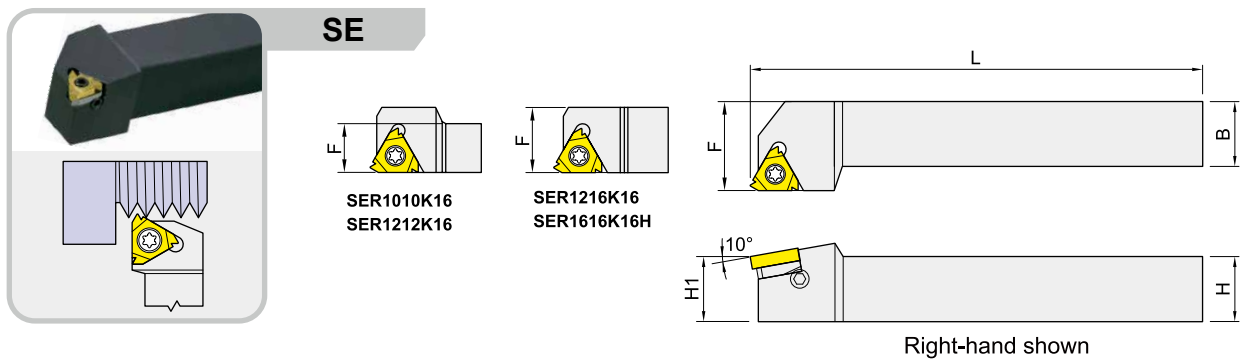
Order No. 訂購編碼	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISE ^R / _L 1010K16HC	10	10	125	10	16ER 16EL	①
ISE ^R / _L 1212K16HC	12	12	125	12		
ISE ^R / _L 1216K16HC	12	16	125	16		
ISE ^R / _L 1616K16HC	16	16	125	16		
ISE ^R / _L 1616K16CL	16	16	125	20		②
ISE ^R / _L 2020K16CL	20	20	125	25		
ISE ^R / _L 2525M16CL	25	25	150	32		
ISE ^R / _L 3232P16CL	32	32	170	40		

Spare parts	Screw 	Shim 	Screw 	Wrench 	Clamp 	Wrench 
①	IMS3509A	-	-	-	-	ITK15
②	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	IMC353V	ITK15

※ SER right hand tools shim is IGXE16, SEL left hand tools shim is IGXN16.

Turning

External Threading Tool Holders 外徑車牙刀桿



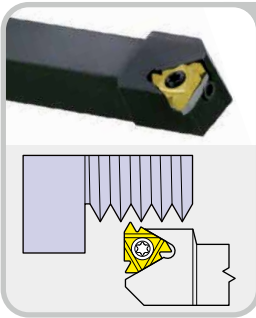
Order No. 訂購編碼	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISE ^R / _L 1216K16	12	16	125	16	16ER 16EL	①
ISE ^R / _L 1010K16H	10	10	125	10		
ISE ^R / _L 1212K16H	12	12	125	12		
ISE ^R / _L 1616K16H	16	16	125	16		
ISE ^R / _L 1616K16	16	16	125	20		②
ISE ^R / _L 2020K16	20	20	125	25		
ISE ^R / _L 2525M16	25	25	150	32		
ISE ^R / _L 3232P16	32	32	170	40		

Spare parts	Screw 	Shim 	Screw 	Wrench 	Wrench
①	IMS3509A	-	-	-	ITK15
②	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	ITK15

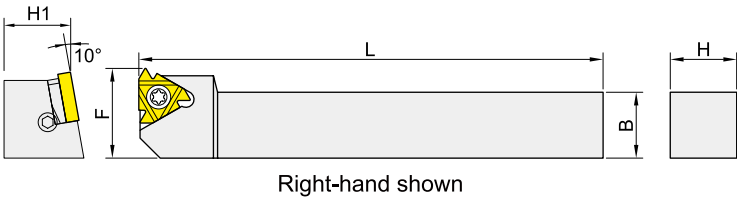
※ SER right hand tools shim is IGXE16, SEL left hand tools shim is IGXN16.

External Threading Tool Holders

外徑車牙刀桿



SKE



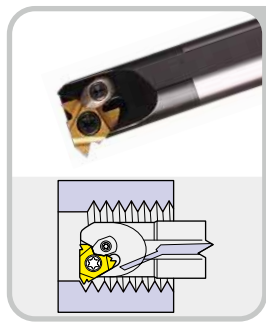
Order No. 訂購編碼	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISKE ^R / _L 1212K16	12	12	125	18	16ER 16EL	①
ISKE ^R / _L 1616K16	16	16	125	22		②
ISKE ^R / _L 2020K16	20	20	125	27		
ISKE ^R / _L 2525M16	25	25	150	34		

Spare parts	Screw 	Shim 	Screw 	Wrench 	Wrench
①	IMS3509A	-	-	-	ITK15
②	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	ITK15

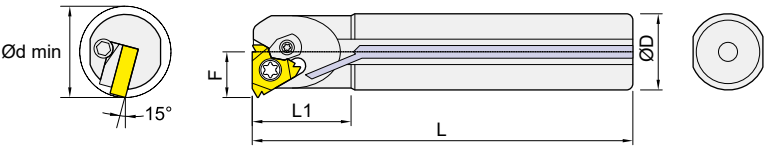
※ SKER right hand tools shim is IGXE16, SKEL left hand tools shim is IGXN16.

Turning

Internal Threading Tool Holders 內徑車牙刀桿



SN..CL

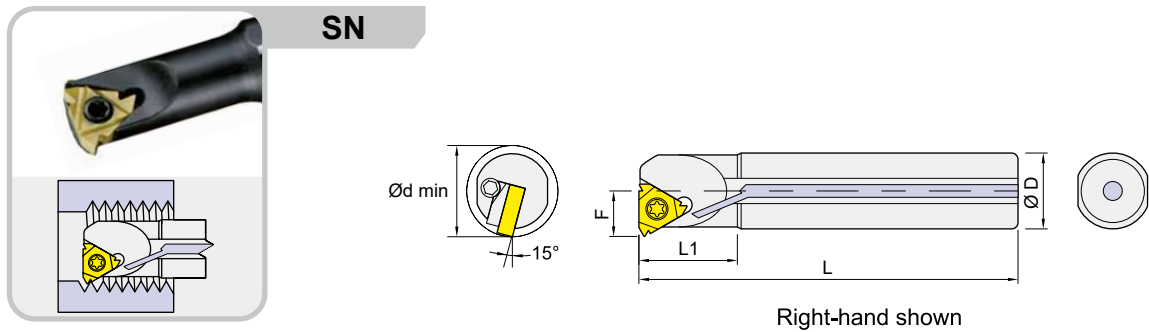


Right-hand shown

Order No. 訂購編碼	Dimensions (mm)					Coolant	Insert	Spare parts
	D	L	L1	F	d min			
ISN ^R / _L 0020R16CL	20	200	40	12	24		16IR 16IL	①
ISN ^R / _L 0025R16CL	25	200	45	14.5	29			
ISN ^R / _L 0032S16CL	32	250	45	18.5	36			
ISN ^R / _L A0020R16CL	20	200	40	12	24	●		
ISN ^R / _L A0025R16CL	25	200	45	14.5	29	●		
ISN ^R / _L A0032S16CL	32	250	45	18.5	36	●		

Spare parts	Screw 	Shim 	Screw 	Wrench 	Clamp 	Wrench
①	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	IMC353V	ITK15

※ SNR right hand tools shim is IGXN16, SNL left hand tools shim is IGXE16.



Order No. 訂購編碼	Dimensions (mm)					Coolant	Insert	Spare parts
	D	L	L1	F	d min			
ISN ^R /L0010K11S10	10	125	22	6.5	13		11IR 11IL	①
ISN ^R /L0012M11S12	12	150	26	8	16			
ISN ^R /LA0010K11S10	10	125	22	6.5	13	●		
ISN ^R /LA0012M11S12	12	150	26	8	16	●		
ISN ^R /L0016Q16	16	180	36	10	19		16IR 16IL	②
ISN ^R /L0020R16	20	200	40	12	24			③
ISN ^R /L0025R16	25	200	45	14.5	29			
ISN ^R /L0032S16	32	250	45	18.5	36			②
ISN ^R /LA0016Q16	16	180	36	10	19	●		
ISN ^R /LA0020R16	20	200	40	12	24	●		
ISN ^R /LA0025R16	25	200	45	14.5	29	●		
ISN ^R /LA0032S16	32	250	45	18.5	36	●		③

Spare parts	Screw 	Wrench 	Shim 	Screw 	Wrench 
①	IMS2507G	ITK08	-	-	-
②	IMS3509A	ITK15	-	-	-
③	IMS3512A	ITK15	IGXN16 or IGXE16	IHTM309	IPL25

※ SNR right hand tools shim is IGXN16, SNL left hand tools shim is IGXE16.

Recommended Cutting Conditions 建議切削數據

Working Material	Vc (m/min)
Carbon Steel (HB85-225)	60 -100 -140
Stainless 300 Series	40 - 80 - 120
Cast Iron (HB140-220)	60 - 90 -120
High Temperature Alloy	25 - 45 - 65
Hardened Steel	20 - 40 -60

Threading Tools

車牙刀具

Depth of Cut And Number of Passes 切深與加工步數

ISO Metric 60° External 外徑

No. of Passes	Pitch (mm)															
	0.5	0.75	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
	Radial infeed per pass (mm)															
1	0.102	0.178	0.178	0.178	0.178	0.229	0.229	0.254	0.279	0.279	0.330	0.330	0.381	0.406	0.432	0.457
2	0.102	0.152	0.152	0.178	0.178	0.203	0.203	0.229	0.254	0.254	0.305	0.330	0.330	0.381	0.406	0.432
3	0.076	0.102	0.127	0.127	0.152	0.178	0.152	0.178	0.203	0.203	0.254	0.254	0.279	0.330	0.330	0.356
4	0.076	0.076	0.076	0.102	0.127	0.152	0.152	0.152	0.178	0.178	0.203	0.229	0.229	0.279	0.279	0.305
5	0.356	0.508	0.533	0.076	0.102	0.127	0.127	0.152	0.152	0.178	0.178	0.229	0.229	0.229	0.229	0.279
6			0.660	0.076	0.076	0.102	0.127	0.127	0.152	0.178	0.178	0.203	0.229	0.229	0.229	0.229
7				0.813	0.965	0.102	0.102	0.127	0.127	0.152	0.152	0.178	0.203	0.203	0.229	0.229
8						0.076	0.076	0.102	0.127	0.152	0.152	0.178	0.178	0.178	0.178	0.203
9							1.143	1.270	0.102	0.127	0.152	0.152	0.152	0.178	0.178	0.203
10									0.076	0.102	0.127	0.127	0.152	0.178	0.178	0.178
11									1.600	0.102	0.102	0.127	0.152	0.152	0.152	0.178
12										0.076	0.076	0.127	0.127	0.152	0.152	0.152
13										1.880	2.210	0.102	0.127	0.127	0.127	0.152
14												0.076	0.102	0.102	0.127	0.152
15												2.515	2.819	3.124	0.127	0.127
16															0.102	0.102
															3.429	3.734

Last pass equals total depth of thread.

ISO Metric 60° Internal 內徑

No. of Passes	Pitch (mm)														
	0.5	0.75	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
	Radial infeed per pass (mm)														
1	0.102	0.178	0.178	0.203	0.254	0.229	0.254	0.279	0.279	0.305	0.330	0.356	0.381	0.381	0.406
2	0.102	0.127	0.152	0.178	0.203	0.203	0.229	0.229	0.229	0.279	0.305	0.330	0.356	0.356	0.406
3	0.076	0.102	0.102	0.127	0.152	0.152	0.178	0.178	0.203	0.229	0.229	0.279	0.305	0.305	0.356
4	0.076	0.076	0.102	0.102	0.102	0.127	0.152	0.152	0.152	0.203	0.203	0.229	0.254	0.254	0.279
5	0.356	0.483	0.076	0.102	0.102	0.102	0.127	0.152	0.152	0.178	0.178	0.203	0.229	0.229	0.229
6			0.610	0.076	0.076	0.102	0.102	0.127	0.152	0.152	0.152	0.178	0.203	0.203	0.229
7				0.787	0.889	0.102	0.102	0.102	0.127	0.152	0.152	0.152	0.178	0.178	0.203
8						0.076	0.076	0.102	0.102	0.152	0.152	0.152	0.152	0.178	0.178
9						1.092	1.219	0.102	0.102	0.127	0.127	0.152	0.152	0.152	0.178
10								0.076	0.102	0.102	0.127	0.152	0.152	0.152	0.152
11								1.499	0.102	0.102	0.102	0.127	0.152	0.152	0.152
12									0.076	0.076	0.102	0.127	0.152	0.152	0.152
13									1.778	2.057	0.102	0.102	0.127	0.152	0.152
14											0.076	0.102	0.102	0.127	0.152
15											2.337	2.642	2.896	0.127	0.127
16														0.102	0.102
														3.200	3.454

Last pass equals total depth of thread.

Depth of Cut And Number of Passes 切深與加工步數

Unified(UN) 60° External 外徑

No. of Passes	TPI												
	32	28	24	20	18	16	14	13	12	11	10	9	8
	Radial infeed per pass (mm)												
1	0.178	0.178	0.178	0.203	0.229	0.229	0.229	0.254	0.279	0.279	0.279	0.279	0.305
2	0.152	0.152	0.178	0.178	0.203	0.203	0.229	0.229	0.229	0.254	0.229	0.229	0.254
3	0.127	0.127	0.152	0.152	0.152	0.152	0.178	0.178	0.203	0.203	0.203	0.203	0.229
4	0.076	0.102	0.127	0.127	0.152	0.152	0.152	0.152	0.152	0.178	0.178	0.178	0.178
5	0.533	0.076	0.076	0.102	0.127	0.127	0.127	0.152	0.152	0.152	0.152	0.152	0.178
6		0.635	0.711	0.076	0.076	0.102	0.102	0.127	0.152	0.152	0.152	0.152	0.152
7				0.838	0.940	0.076	0.102	0.102	0.127	0.127	0.152	0.152	0.152
8						1.041	0.076	0.076	0.076	0.102	0.127	0.127	0.152
9							1.194	1.270	1.372	0.076	0.102	0.127	0.127
10										1.499	0.076	0.102	0.127
11											1.651	0.076	0.102
12												1.778	0.076
13													2.032

Last pass equals total depth of thread.

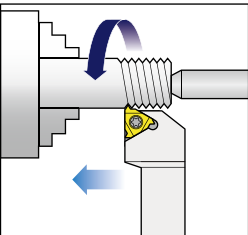
Unified(UN) 60° Internal 內徑

No. of Passes	TPI												
	32	28	24	20	18	16	14	13	12	11	10	9	8
	Radial infeed per pass (mm)												
1	0.178	0.178	0.178	0.203	0.229	0.229	0.229	0.254	0.279	0.279	0.279	0.279	0.305
2	0.152	0.152	0.152	0.178	0.178	0.178	0.203	0.229	0.229	0.229	0.229	0.229	0.279
3	0.102	0.102	0.152	0.127	0.152	0.152	0.152	0.152	0.178	0.178	0.152	0.178	0.203
4	0.076	0.102	0.102	0.102	0.127	0.127	0.152	0.152	0.152	0.152	0.152	0.152	0.178
5	0.508	0.076	0.076	0.102	0.102	0.102	0.102	0.127	0.127	0.152	0.152	0.152	0.152
6		0.610	0.660	0.076	0.076	0.102	0.102	0.102	0.102	0.127	0.127	0.152	0.152
7				0.787	0.864	0.076	0.102	0.102	0.102	0.102	0.102	0.127	0.127
8						0.940	0.076	0.076	0.076	0.102	0.102	0.102	0.102
9							1.118	1.194	1.245	0.076	0.102	0.102	0.102
10										1.397	0.076	0.102	0.102
11											1.499	0.076	0.102
12												1.651	0.076
13													1.880

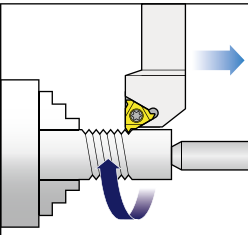
Last pass equals total depth of thread.

Thread Methods 進刀方法

External Right Hand Thread

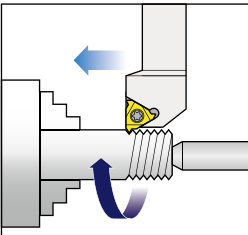


Spindle : Clockwise
Tool : right hand

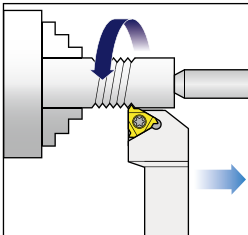


Spindle : Counterclockwise
Tool : left hand

External Left Hand Thread

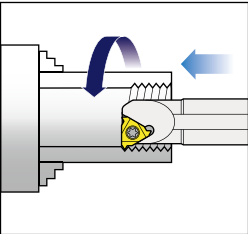


Spindle : Counterclockwise
Tool : left hand

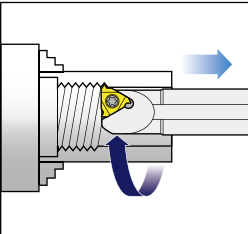


Spindle : Clockwise
Tool : right hand

Internal Right Hand Thread

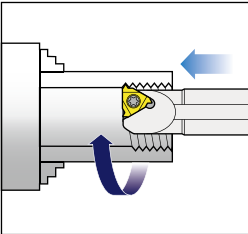


Spindle : Clockwise
Tool : right hand

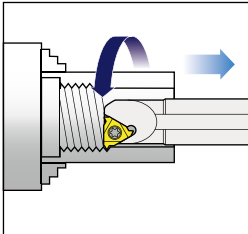


Spindle : Counterclockwise
Tool : left hand

Internal Left Hand Thread



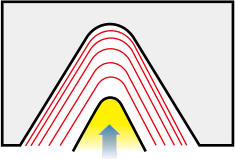
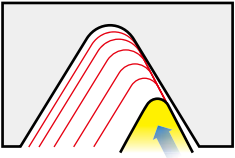
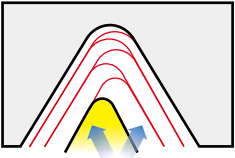
Spindle : Counterclockwise
Tool : left hand



Spindle : Clockwise
Tool : right hand

Turning

Infeed Methods 螺紋加工方法

Infeed Methods	Features
 Radial Infeed	• For pitches of less than 1.5mm or 16 T.P.I. • Most commonly used method on manual lathes. • Equal wear on leading and trailing edge. • Good surface finish on trailing edge. • Use on work hardening materials. • Use on short chipping materials.
 Modified Flank Infeed	• For threads greater than 1.5mm or 16 T.P.I. • Reduced cutting pressure on larger pitches. • Reduced chatter. • Directs chip away from the cutting edge. • Displaced in-feed angle improves surface finish. • First choice for internal threading.
 Alternating Flank Infeed	• Recommended for large pitches. • Recommended for long chipping materials. • Method divides the work between both flanks. • Results in equal wear. • Less cutting pressure. • Not available on all lathes.