INSIGHT

High Performance
Automatic lathe tools

深圳市晨日精密五金工具有限公司
Shenzhen ChenRi Precision Hardware Tools Co., Ltd.

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Global:http://insight-t.com
Mainland China:http://szchenri.com

Series 131 （Right-hand Version）

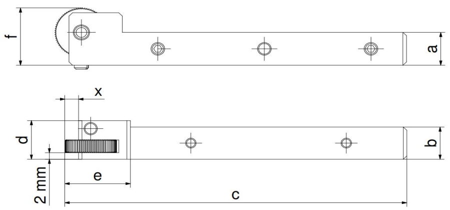
Ideal for all knurling profiles, features exceptionally easy handling

Product features:

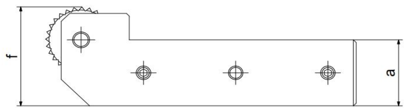
- All holders equipped with Click-Pin® system
- – for fast retooling of the knurling wheels
- Set screws in shank for clearance angle correction
- Carbide pin

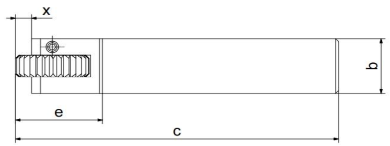
Order No. (Right-hand Version)	Model	Knurling Wheel (Ø x w x b)[mm]	Workpiece Ø [mm]	Order No. Pin
INS-13108U150404	131-08	10/15x4x4	3-50	06TER1015
INS-13112U100404	131-12	10x4x4	3-50	06TER1015
INS-13112U150404	131-12	10/15x4x4	3-50	06TER1015
INS-13112U150404	131-12	15x4x4	3-50	06TER1036
INS-13112U150604	131-12	15x6x4	3-50	06TER1036
INS-13116U150604	131-16	15x6x4	3-50	06TER1036
INS-13116U200806	131-16	20x8x6	8-200	06TER1018
INS-13116U201006	131-16	20x10x6	8-200	06TER1018
INS-13116U201206	131-16	20x12x6	8-200	06TER1018
INS-13116U201506	131-16	20x15x6	8-200	06TER1018
INS-13120U200806	131-20	20x8x6	8-200	06TER1018
INS-13120U201006	131-20	20x10x6	8-200	06TER1018
INS-13120U201206	131-20	20x12x6	8-200	06TER1018
INS-13120U201506	131-20	20x15x6	8-200	06TER1018
INS-13125U250806	131-25	25x8x6	8-200	06TER1018
INS-13125U201006	131-25	20x10x6	8-200	06TER1018
INS-13125U201206	131-25	20x12x6	8-200	06TER1018
INS-13125U201506	131-25	20x15x6	8-200	06TER1018

Series 131 （Right-hand Version）



Order No. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-13108U150404	8	8	99	12	19	15.5	1.5 / 4
INS-13112U100404	12	12	99	12	19	19.5	1.5 / 4
INS-13112U150404	12	12	109.5	20	29.5	24.5	1.5 / 4
INS-13112U150404	12	12	109.5	20	29.5	24.5	1.5 / 4
INS-13112U150604	12	12	109.5	20	29.5	24.5	1.5 / 4
INS-13116U150604	16	16	109.5	20	29.5	28.5	3 / 5.5
INS-13116U200806	16	16	113.5	20	33.5	28.5	6.5
INS-13116U201006	16	16	113.5	20	33.5	28.5	6.5
INS-13116U201206	16	16	113.5	20	33.5	28.5	6.5
INS-13116U201506	16	16	113.5	20	33.5	28.5	6.5





Order No. (Righthand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-13120U200806	20	20	109.5	20	29.5	32.5	3 / 5.5
INS-13120U201006	20	20	109.5	20	29.5	32.5	3 / 5.5
INS-13120U201206	20	20	109.5	20	29.5	32.5	3 / 5.5
INS-13120U201506	20	20	109.5	20	29.5	32.5	3 / 5.5
INS-13125U250806	25	20	109.5	20	29.5	37.5	3 / 5.5
INS-13125U201006	25	20	109.5	20	29.5	37.5	3 / 5.5
INS-13125U201206	25	20	109.5	20	29.5	37.5	3 / 5.5
INS-13125U201506	25	20	109.5	20	29.5	37.5	3 / 5.5

Series 132（Right-hand Version）

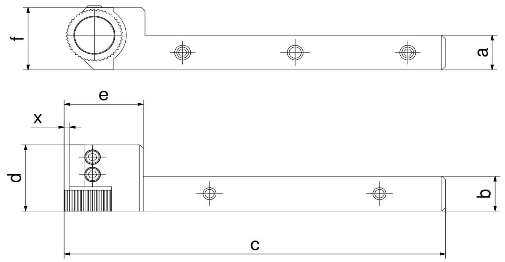
Ideal for all knurling profiles and applications up to a shoulder

Product features:

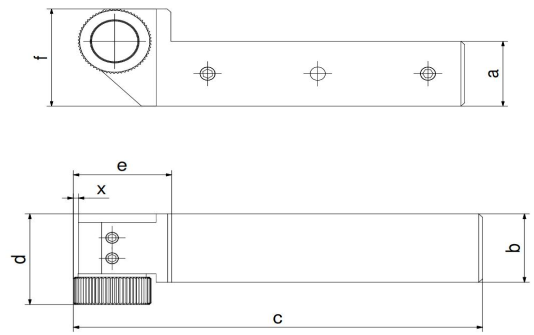
- Knurling wheel fixed by means of carbide bolt
- Set screws in shank for clearance angle correction
- Modular shank design: Shank size 10 x 10 mm optionally adaptable

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin	Order No. Washer	Order No. Grub screw
INS-13212U150606/11	132-12	15x6x6 A11	3 – 50	06TER0444	21BHR0375	06TER2147
INS-13216U150606/11	132-16	15x6x6 A11	3 – 50	06TER0444	21BHR0375	06TER2147
INS-13220U200808/12	132-20	20x8x8 A12	8 – 110	06TER0444	21BHR0375	06TER2147
INS-13225U200808/12	132-25	20x8x8 A12	8 – 110	06TER0444	21BHR0375	06TER2147

Series 132（Right-hand Version）



Order No. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-13212U150606/11	12	12	101	19	21	20	1.5
INS-13216U150606/11	16	16	101	19	21	24	1.5



Order No. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-13220U200808/12	20	20	105.3	26.5	25.3	30	1.3
INS-13225U200808/12	25	20	105.3	26.5	25.3	35	1.3

Series 141 （Right-hand Version）

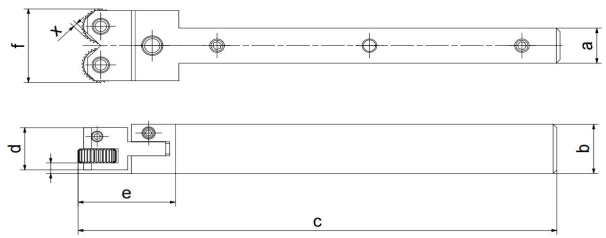
Excellent for axial profiling, features flexible centring

Product features:

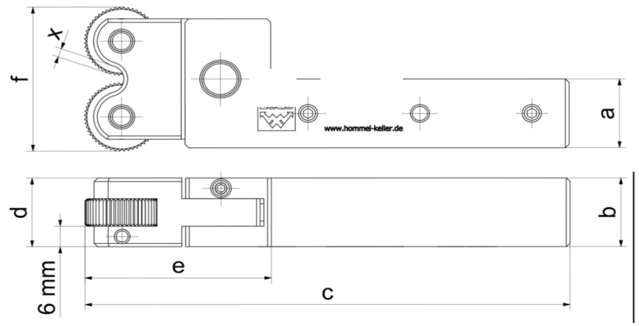
- Shank size 20 x 20/25 mm with Click-Pin® system – for fast retooling of the knurling wheels
- Knurling head with flexible centring
- Set screws in shank for clearance angle correction
- Carbide pins

Order No.	Model	Knurling wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin	Order No. Grub screw	Order No. Knurling head
INS-14112M100404	141-12	10x4x4	3 – 25	06TER0960	06TER2154	21BHR0528
INS-14112M150604	141-12	15x6x4	6 – 60	06TER0964	06TER2155	21BHR0529
INS-14116M150604	141-16	15x6x4	6 – 60	06TER0964	06TER2155	21BHR0529
INS-14116M200806	141-16	20x8x6	10 – 110	06TER1018	06TER1016	21BHR1795
INS-14120M200806	141-20	20x8x6	10 – 110	06TER1018	06TER1016	21BHR1795

Series 141 （Right-hand Version）



Order No. (Right-hand version)	Dimensions [mm]					
	a	b	c	d	e	f	x
INS-14112M100404	12	12	105.5	12	25.5	22.5	1
INS-14112M150604	12	12	119	16	39	33	1.5
INS-14116M150604	16	16	119	16	39	33	1.5



Order No. (Right-hand version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-14116M200806	16	16	130	20	50	42	2.5
INS-14120M200806	20	20	130	20	50	42	2.5

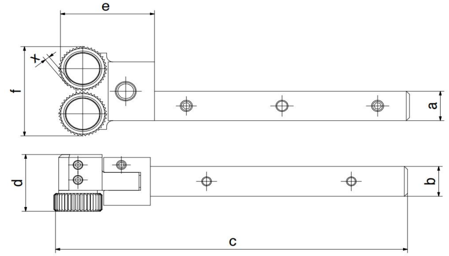
Series 142（Right-hand Version）

Excellent for all axial profiling and applications up to ashoulder

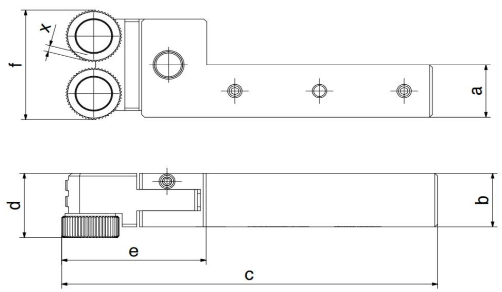
Product features:
- Knurling wheels fixed by means of carbide bolt
- Knurling head with flexible centring
- Set screws in shank for clearance angle correction

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin	Order No. Grub screw	Order No. Washer	Order No. Knurling head
INS-14212M150606/11	142-12	15x6x6 A11	3 – 40	06TER0444	06TER2154	21BHR0375	21BHR1797
INS-14216M150606/11	142-16	15x6x6 A11	3 – 40	06TER0444	06TER2154	21BHR0375	21BHR1797
INS-14216M200808/12	142-16	20x8x8 A12	10 – 110	06TER0444	06TER2154	21BHR0375	21BHR0532
INS-14220M200808/12	142-20	20x8x8 A12	10 – 110	06TER0445	06TER2147	21BHR0380	21BHR0533
INS-14225M200808/12	142-25	20x8x8 A12	10 – 110	06TER0445	06TER2147	21BHR0380	21BHR0533

Series 142（Right-hand Version）



Order No. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-14212M150606/11	12	12	110	19	30	30.4	1.5
INS-14216M150606/11	16	16	118	19	39	33	1.5
INS-14216M200808/12	16	16	130	24	50	42	1.2



Order no. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-14220M200808/12	20	20	130	24	50	42	1.2
INS-14225M200808/12	25	20	130	24	50	46	1.2

Series 161（Right-hand Version）

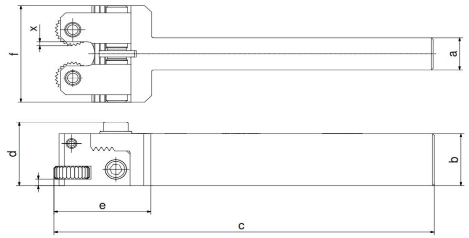
Ideal for very small workpiece diameters, features gentle tangential

Product features:

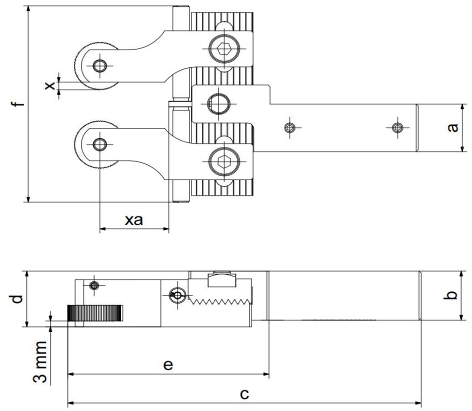
- Knurl holder is easily adjustable to workpiece diameter by means of synchronous spindle
- Set screws in shank for clearance angle correction
- Carbide pins with surface secured by set screw

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin	Order No. Grub screw	Order No. Jaws
INS-16112M100404	161-12	10x4x4	0-12.5	06TER0964	06TER2155	21BHR9748
INS-16116M100404	161-16	10x4x4	0-12.5	06TER0964	06TER2155	21BHR9748
INS-16116M200806	161-16	20x8x6	3.6-65	21BHR1248	06TER2147	21BHR1213
INS-16120M200806	161-20	20x8x6	3.6-65	21BHR1248	06TER2147	21BHR1213
INS-16125M200806	161-25	20x8x6	3.6-65	21BHR1248	06TER2147	21BHR1213

Series 161（Right-hand Version）



Order No. (Right-hand Version)	Dimensions [mm]							
	a	b	c	d	e	f	x	xa
INS-16112M100404	12	12	113.4	19.6	33.4	40	2.5	8.9
INS-16116M100404	16	16	113.4	19.6	33.4	40	2.5	8.9
INS-16116M200806	16	16	113.4	19.6	33.4	40	2.5	8.9



Order No. (Right-hand Version)	Dimensions [mm]							
	a	b	c	d	e	f	x	xa
INS-16120M200806	20	25	164.8	28.4	92.8	103	1.5	33.5
INS-16125M200806	25	25	167.3	28.4	95.3	103	4	33.5

Series 162（Right-hand Version）

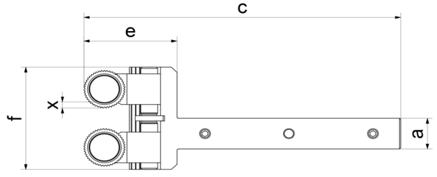
Ideal for very small workpiece diameters

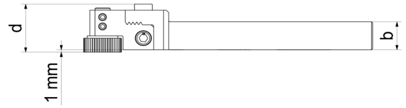
Product features:

- Knurling wheels fixed by means of carbide bolt
- Knurl holder is easily adjustable to workpiece by means of synchro□nous spindle
- Set screws in shank for clearance angle correction
- Modular shank design: Shank size 10 x 10 mm optionally adaptable

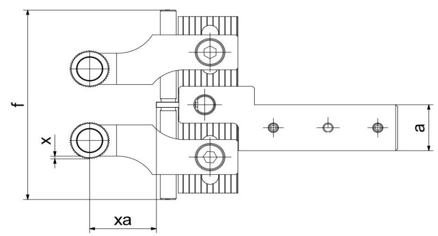
Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin	Order No. Grub screw	Order No. Washer	Order No. Jaws
INS-16212M150606/11	162-12	15x6x6 A11	1-10	06TER0444	06TER2155	21BHR0375	21BHR1673
INS-16216M150606/11	162-16	15x6x6 A11	1-10	06TER0444	06TER2155	21BHR0375	21BHR1673
INS-16216M200808/12	162-16	20x8x8 A12	6-35	06TER0445	06TER2147	21BHR0380	21BHR1214
INS-16220M200808/12	162-20	20x8x8 A12	6-35	06TER0445	06TER2147	21BHR0380	21BHR1214
INS-16225M200808/12	162-25	20x8x8 A12	6-35	06TER0445	06TER2147	21BHR0380	21BHR1214

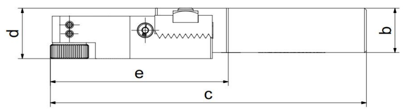
Series 162（Right-hand Version）





Order No. (Right-hand Version)	Dimensions [mm]							
	a	b	c	d	e	f	x	xa
INS-16212M150606/11	12	12	113.4	20.6	33.4	40	2.5	8.9
INS-16216M150606/11	16	16	113.4	20.6	33.4	40	2.5	8.9
INS-16216M200808/12	16	16	113.4	20.6	33.4	40	2.5	8.9





Order No. (Right-hand Version)	Dimensions [mm]							
	a	b	c	d	e	f	x	xa
INS-16220M200808/12	20	25	164.8	28.4	92.8	103	1.5	33.5
INS-16225M200808/12	25	25	164.8	28.4	92.8	103	1.5	33.5

Series 213/231（Right-hand Version）

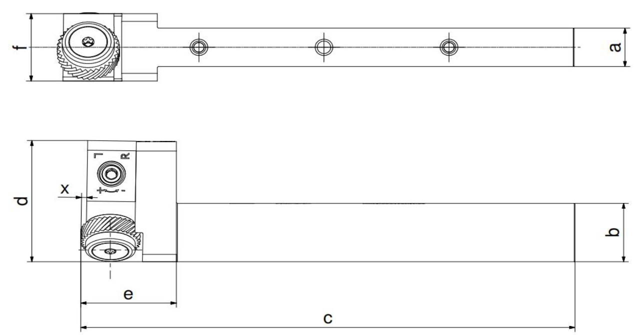
Perfect efficiency due to modular design, convin□cing process reliability due to sturdy construction

Product features:

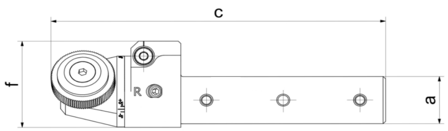
- **Scaling and positioning aids**
- **Knurling head with flexible centring**
- **Set screws in shank for clearance angle correction**
- **Coated carbide bearing bushes for improved antifrictional property**

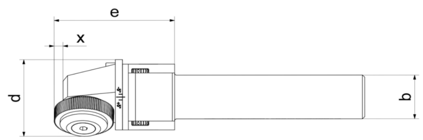
Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. E-Kit (Washer, Bushing, Screw)	Order No. Washer	Order No. Screw
INS-21312M150408	213-12	15x4x8	3 – 50	21BHR0792	06TER0125	06TER0443
INS-21316M150408	213-16	15x4x8	3 – 50	21BHR0792	06TER0125	06TER0443
INS-21316M21.50508	213-16	21.5x5x8	3 – 65	21BHR0792	06TER0125	06TER0443
INS-21320M250608	213-20	25x6x8	10 – 300	21BHR0506	21BHR0016	06TER0864
INS-23120M250608	231-20	25x6x8	10 – 300	21BHR0506	21BHR0016	06TER0864
INS-23125M250608	231-25	25x6x8	10 – 300	21BHR0506	21BHR0016	06TER0864

Series 213/231（Right-hand Version）



Order No. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-21312M150408	10	10	104.1	36.2	24.1	25.3	1.2
INS-21316M150408	12	12	104.1	36.2	24.1	25.3	1.2
INS-21316M21.50508	16	16	104.1	36.2	24.1	29.3	1.2





Order No. (Right-hand Version)	Dimensions [mm]						
	a	b	c	d	e	f	x
INS-21320M250608	20	20	130.4	35	50.4	36.3	3.7
INS-23120M250608	20	20	130.4	35	50.4	36.3	3.7
INS-23125M250608	25	25	130.8	35	50.8	40	3.7

Series 240（Right-hand Version）

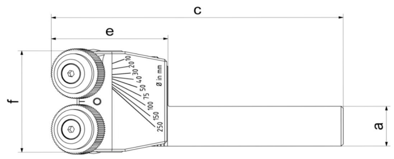
Excellent for stringent requirements – convincing stability in harsh continuous

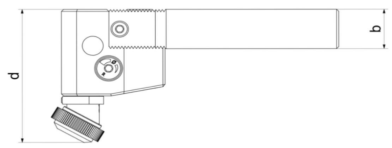
Product features:

- Conversion to alternative full shank dimensions is poss
- Modular shank design: Shank size 10 x 10 mm optionally adaptable
- Fine adjustment of centre height of the cut knurling hea
- Fine adjustment of the clearance angle by means of synchronous adjustment spindle

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. E-Kit (Washer, Bushing, Screw)	Order No. Washer	Order No. Screw
INS-24012M150408	240-12	15x4x8	3-50	21BHR0792	06TER0125	06TER0390
INS-24016M150408	240-16	15x4x8	3-50	21BHR0792	06TER0125	06TER0390
INS-24016M21.50508	240-16	21.5x5x8	10-250	21BHR0506	21BHR0016	06TER0864
INS-24020M21.50508	240-20	21.5x5x8	10-250	21BHR0506	21BHR0016	06TER0864
INS-24025M21.50508	240-25	21.5x5x8	10-250	21BHR0506	21BHR0016	06TER0864
INS-24025M250608	240-25	25x6x8	10-250	21BHR0506	21BHR0016	06TER0864

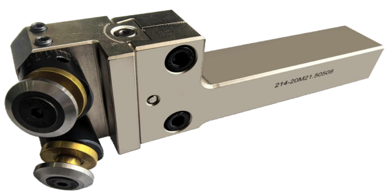
Series 240（Right-hand Version）





Order No. (Right-hand Version)	Dimensions [mm]					
	a	b	c	d	e	f
INS-24012M150408	12	12	116	37.7	36	32.7
INS-24016M150408	16	16	116	39.7	36	32.7
INS-24016M21.50508	16	20	133.3	68	53.3	53
INS-24020M21.50508	20	20	133.3	67.7	53.3	53
INS-24025M21.50508	25	20	133.3	67.8	53.3	52.9
INS-24025M250608	25	20	133.3	67.8	53.3	52.9

Series 214（Right-hand Version）



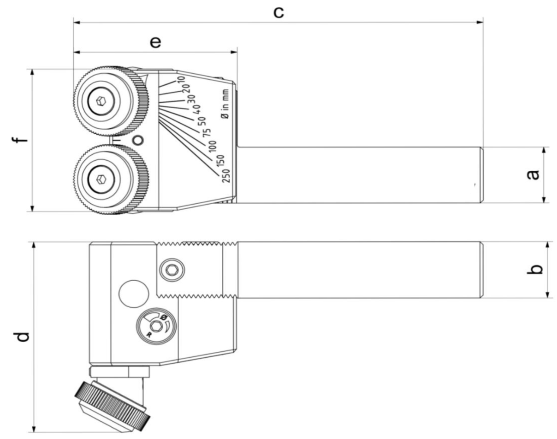
Excellent for stringent requirements – convincing stability in harsh continuous use

Product features:

- Conversion to alternative full shank dimensions is possible
- Modular shank design: Shank size 10 x 10 mm optionally adaptable
- Fine adjustment of centre height of the cut knurling head
- Fine adjustment of the clearance angle by means of synchronous adjustment spindle

Order No.	Model	Knrling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. E-Kit (Washer, Bushing, Screw)	Order No. Washer	Order No. Screw
INS-21416M21.50508	214-16	21.5x5x8	10 – 250	21BHR0506	21BHR0016	06TER0864
INS-21420M21.50508	214-20	21.5x5x8	10 – 250	21BHR0506	21BHR0016	06TER0864
INS-21425M250608	214-25	25x6x8	10 – 250	21BHR0506	21BHR0016	06TER0864

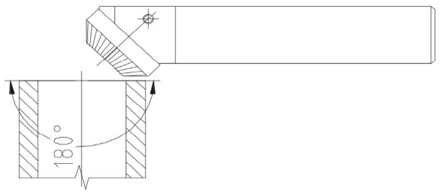
Series 214（Right-hand Version）



Order No. (Right-hand Version)	Dimensions [mm]					
	a	b	c	d	e	f
INS-21416M21.50508	16	20	133.3	68	53.3	53
INS-21420M21.50508	20	20	133.3	67.7	53.3	53
INS-21425M250608	25	20	133.3	67.8	53.3	52.9

Series 311- 45° （Right-hand Version）

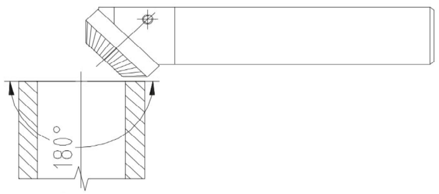
1. Conical knurling
2. Conical/inner/face knurling
3. Face knurling
4. up to a shoulder

Order No.	Model	Knurling Wheel
INS-31112121645°	311-12	12*16-45°
INS-31116161645°	311-16	16*16-45°
INS-31120202045°	311-20	20*20-45°
INS-31125252545°	311-25	25*25-45°

Series 312 - 45° （Right-hand Version）

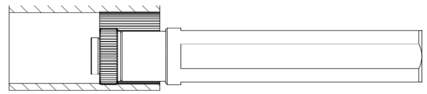
Conical knurling

Order No.	Model	Knurling Wheel
INS-31212121645°	312-12	12*12-45°
INS-31216161645°	312-16	16*16-45°
INS-31220202045°	312-20	20*20-45°
INS-31225252545°	312-25	25*25-45°

Series 331 （Right-hand Version）

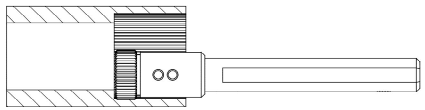
Knurling within a bore

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]
INS-33116U150604	331-16	15x6x4
INS-33120U150604	331-20	15x6x4
INS-33125U200806	331-25	20x8x6

Series 332 （Righthand Version）

Knurling within a bore

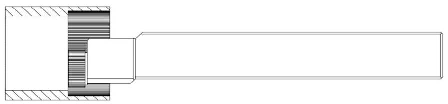
Order No.	Model	Knurling Wheel (Ø x w xb) [mm]
INS-33216U200813	332-16	20x8x13
INS-33220U200813	332-20	20x8x13
INS-33225U200813	332-25	20x8x13

Series 341（Right-hand Version）

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]
INS-34120M200806	341-20	20x8x6
INS-34120M250806	341-25	25x8x6

Series 342（Right-hand Version）

**Knurling within a bore
up to a shoulder**



Order No.	Model	Knurling Wheel (Ø x w xb) [mm]
INS-34220M200813	342-20	20x8x13
INS-34225M200813	342-25	20x8x13

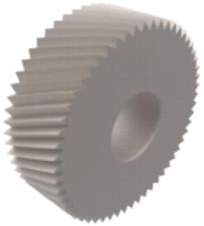
Series 131-30°（Right-hand Version）

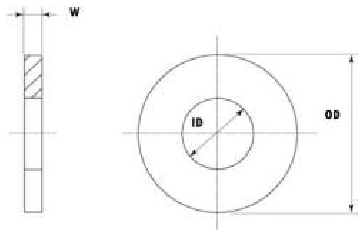
Order No.	Model	Knurling wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin
INS-13116U200806-30°	131-16	20x8x6-30°	8-200	06TER1018
INS-13120U200806-30°	131-20	20x8x6-30°	8-200	06TER1018
INS-13125U200806-30°	131-25	20x8x6-30°	8-200	06TER1018

Series 131-45°（Right-hand Version）

Order No.	Model	Knurling Wheel (Ø x w xb) [mm]	Workpiece Ø [mm]	Order No. Pin
INS-13116U200806-45°	131-16	20x8x6-45°	8-200	06TER1018
INS-13120U200806-45°	131-20	20x8x6-45°	8-200	06TER1018
INS-13125U200806-45°	131-25	20x8x6-45°	8-200	06TER1018

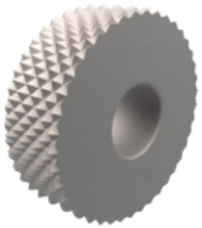
Form Wheel 壓花輪

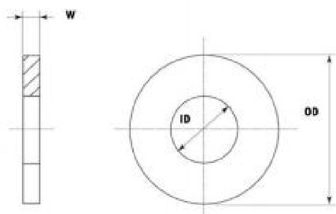




Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
BL	30/45	10	4	4	0.3-1.5
BL	30/45	15	4	4	0.3-1.5
BL	30/45	15	6	4	0.3-1.5
BL	30/45	20	6	6	0.4-1.6
BL	30/45	20	8	6	0.3-2.0
BL	30/45	20	10	6	0.5-2.0
BL	30/45	25	8	6	0.6-1.5

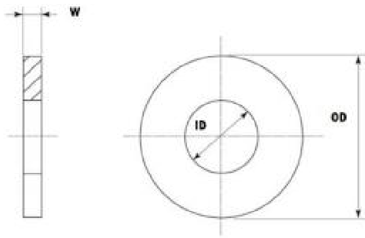
Form Wheel 壓花輪





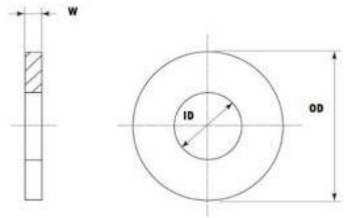
Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
GE	30/45	10	4	4	0.3-1.5
GE	30/45	15	4	4	0.3-1.5
GE	30/45	15	6	4	0.3-1.5
GE	30/45	20	6	6	0.4-2.0
GE	30/45	20	8	6	0.3-2.0
GE	30/45	20	10	6	0.5-2.0
GE	30/45	25	8	6	0.6-2.0

Cut Wheel 車花輪



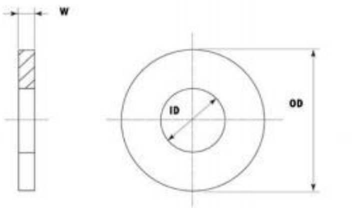
Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
AA	0	8.9	2.4	4	0.3-1.0
AA	0	10	3	6	0.5-1.2
AA	0	14.5	3	5	0.5-1.2
AA	0	15	4	8	0.5-1.2
AA	0	21.5	5	8	0.6-2.0
AA	0	25	6	8	0.5-2.0

Cut Wheel 車花輪



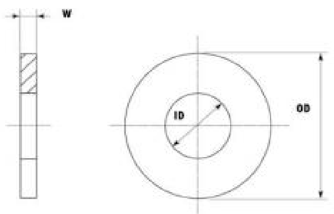
Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
BR	15/30	8.9	2.4	4	0.3-1.0
BR	15/30	10	3	6	0.5-1.2
BR	15/30	14.5	3	5	0.5-1.2
BR	15/30	15	4	8	0.5-1.2
BR	15/30	21.5	5	8	0.6-2.0
BR	15/30	25	6	8	0.5-2.0

Cut Wheel 車花輪



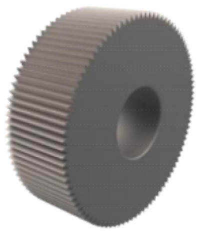
Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
BL	15/30	8.9	2.4	4	0.3-1.0
BL	15/30	10	3	6	0.5-1.2
BL	15/30	14.5	3	5	0.5-1.2
BL	15/30	15	4	8	0.5-1.2
BL	15/30	21.5	5	8	0.6-2.0
BL	15/30	25	6	8	0.5-2.0

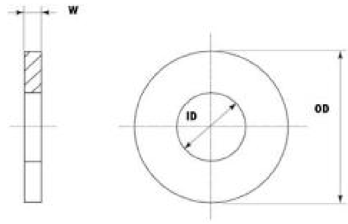
Form Wheel 壓花輪



Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
AA	0	15	6	6	0.3-1.5
AA	0	20	8	8	0.3-1.5
BR	30/45	15	6	6	0.3-1.5
BR	30/45	20	8	8	0.4-1.6
BL	30/45	15	6	6	0.3-2.0
BL	30/45	20	8	8	0.5-2.0

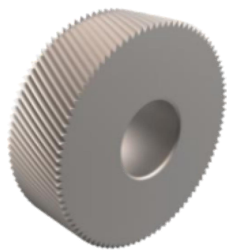
Form Wheel 壓花輪

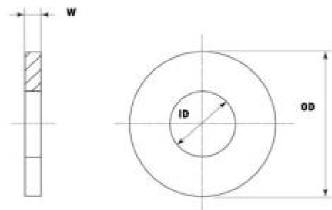




Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
AA	0	10	4	4	0.3-1.5
AA	0	15	4	4	0.3-1.5
AA	0	15	6	4	0.3-1.5
AA	0	20	6	6	0.4-1.6
AA	0	20	8	6	0.3-2.0
AA	0	20	10	6	0.5-2.0
AA	0	25	8	6	0.6-1.5

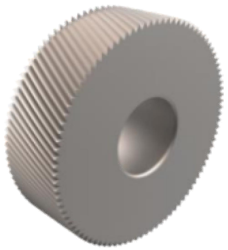
Form Wheel 壓花輪

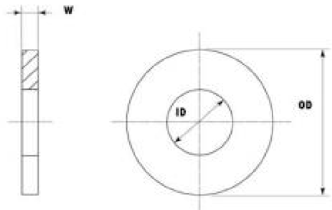




Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
BR	30/45	10	4	4	0.3-1.5
BR	30/45	15	4	4	0.3-1.5
BR	30/45	15	6	4	0.3-1.5
BR	30/45	20	6	6	0.4-1.6
BR	30/45	20	8	6	0.3-2.0
BR	30/45	20	10	6	0.5-2.0
BR	30/45	25	8	6	0.6-1.5

Form Wheel 壓花輪





Profile	Spiral Angle	OD	Width	ID	Pitch(mm)
AA	0	15	6	11	0.3-1.5
AA	0	20	8	12	0.3-1.5
BR	30/45	15	6	11	0.3-1.5
BR	30/45	20	8	12	0.4-1.6
BL	30/45	15	6	11	0.3-2.0
BL	30/45	20	8	12	0.5-2.0

Customized Knurling Tools 客製成型輪