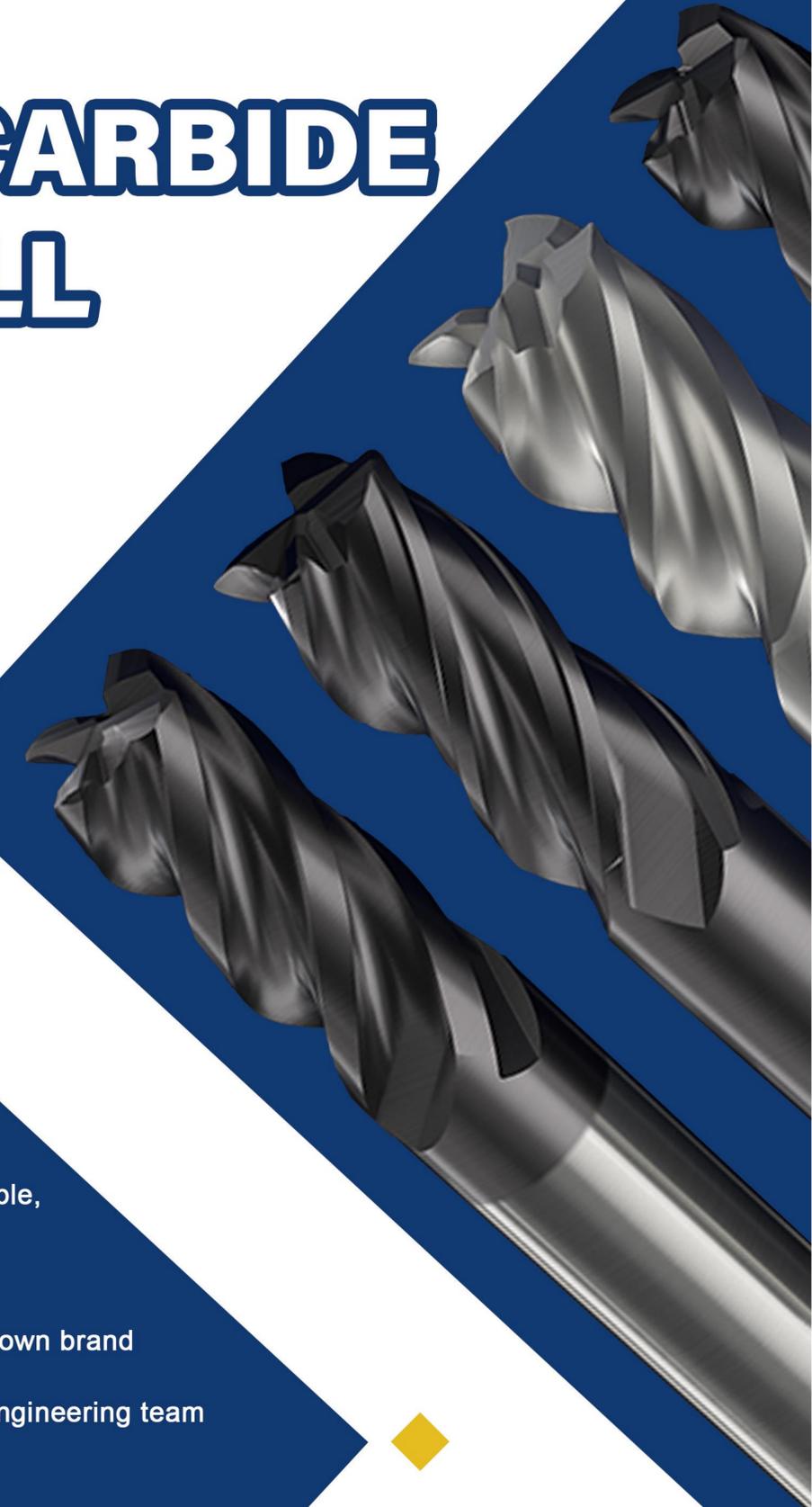


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# SOLID CARBIDE END MILL

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## HN55 Carbide End Mill

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## Carbide Micro End Mill

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**HN55-MBS2** | B08



## Carbide Roughing End Mill

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## Carbide Spot Drill

**HN55-SDS2** | B09



SOLID CARBIDE END MILL

Carbide Chamfering End Mill

HN55-CS3 | B10



Carbide Inner Radius End Mill

HN55-IRS | B11



Carbide Upper and lower Chamfering End Mill

HN55-UDCS4 | B11



Carbide T-type End Mill

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HN55-TDS | B15



Carbide Lollipop End Mill

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ISO Metric Carbide Thread End Mill

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SOLID CARBIDE END MILL

Alloy Reamer

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HN55-CSPR | B20



Center Drill

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Carbide Long Neck End Mill

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## SOLID CARBIDE END MILL

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**HN65-S4-L** | B34



**HN65-B2** | B35



**HN65-B2-L** | B36



**HN65-B4** | B36



**HN65-B4-L** | B37



**HN65-C4** | B38



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### GM Series Carbide End Mill

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### Carbide Unequal Milling Cutter for Stainless Steel

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### Carbide End Mill For Aluminum

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## SOLID CARBIDE END MILL

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**HN55-SDA2** | B51



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**HN55-TSA4** | B54



**HN55-TDA** | B57



**HN55-LPBA2** | B57



**HN60-LWSA** | B58



**HN60-LWTA** | B59



**HN60-LWFA** | B60



### HM Series Carbide End Mill

**HM-S4** | B61



**HM-B2** | B61

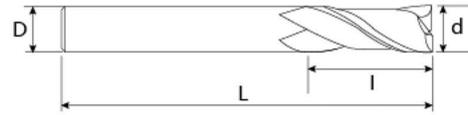


**HM-C4** | B62



## CARBIDE SQUARE END MILL 2FLUTES

### HN55-S2



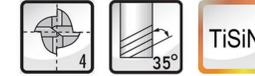
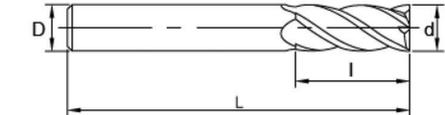
unit:mm

Order NO.	d	D	l	L
HN55-S2-010	1	4	3	50
HN55-S2-015	1.5	4	4.5	50
HN55-S2-020	2	4	5	50
HN55-S2-025	2.5	4	7.5	50
HN55-S2-030	3	3	9	50
HN55-S2-031	3	4	9	50
HN55-S2-035	3.5	4	10	50
HN55-S2-040	4	4	10	50
HN55-S2-030L	3	3	12	75
HN55-S2-030XL	3	3	15	100
HN55-S2-040L	4	4	16	75
HN55-S2-040XL	4	4	20	100
HN55-S2-050	5	5	13	50
HN55-S2-051	5	6	13	50
HN55-S2-060	6	6	15	50
HN55-S2-050L	5	5	20	75
HN55-S2-050XL	5	5	25	100
HN55-S2-060L	6	6	24	75
HN55-S2-060XL	6	6	30	100
HN55-S2-080	8	8	20	60

Order NO.	d	D	l	L
HN55-S2-080L	8	8	30	75
HN55-S2-080XL	8	8	35	100
HN55-S2-091	9	10	27	75
HN55-S2-100	10	10	25	75
HN55-S2-100L	10	10	40	100
HN55-S2-120	12	12	30	75
HN55-S2-120L	12	12	45	100
HN55-S2-140	14	14	45	100
HN55-S2-160	16	16	45	100
HN55-S2-180	18	18	45	100
HN55-S2-200	20	20	45	100
HN55-S2-060XXL	6	6	45	150
HN55-S2-080XXL	8	8	50	150
HN55-S2-100XL	10	10	55	150
HN55-S2-120XL	12	12	55	150
HN55-S2-140L	14	14	70	150
HN55-S2-160L	16	16	75	150
HN55-S2-180L	18	18	75	150
HN55-S2-200L	20	20	75	150

## CARBIDE SQUARE END MILL 4FLUTES LONG LENGTH

### HN55-S4-L



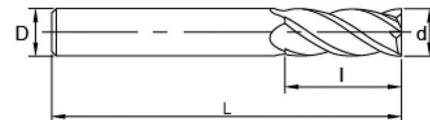
unit:mm

Order NO.	d	D	l	L
HN55-S4-030L	3	3	12	75
HN55-S4-040L	4	4	16	75
HN55-S4-050L	5	5	20	75
HN55-S4-060L	6	6	24	75
HN55-S4-080L	8	8	30	75
HN55-S4-100L	10	10	40	100
HN55-S4-120L	12	12	45	100
HN55-S4-030XL	3	3	15	100
HN55-S4-040XL	4	4	20	100
HN55-S4-050XL	5	5	25	100
HN55-S4-010L	1	4	4	75
HN55-S4-020L	2	4	8	75
HN55-S4-031L	3	4	12	75
HN55-S4-041L	4	6	16	75

Order NO.	d	D	l	L
HN55-S4-041XL	4	6	20	100
HN55-S4-060XL	6	6	30	100
HN55-S4-080XL	8	8	35	100
HN55-S4-100XL	10	10	55	150
HN55-S4-120XL	12	12	50	150
HN55-S4-060XXL	6	6	45	150
HN55-S4-080XXL	8	8	50	150
HN55-S4-140L	14	14	70	150
HN55-S4-160L	16	16	75	150
HN55-S4-180L	18	18	70	150
HN55-S4-200L	20	20	75	150
HN55-S4-051L	5	6	20	75
HN55-S4-051XL	5	6	25	100
HN55-S4-120XL	12	12	55	150

## CARBIDE SQUARE END MILL 4FLUTES

### HN55-S4



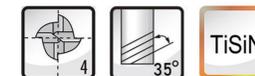
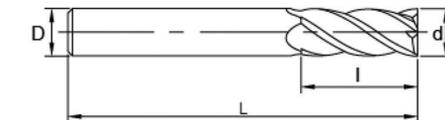
unit:mm

Order NO.	d	D	l	L
HN55-S4-010	1	4	3	50
HN55-S4-015	1.5	4	4.5	50
HN55-S4-020	2	4	6	50
HN55-S4-021	2	6	6	50
HN55-S4-025	2.5	4	7.5	50
HN55-S4-030	3	3	9	50
HN55-S4-031	3	4	9	50
HN55-S4-032	3	6	9	50
HN55-S4-035	3.5	4	10	50
HN55-S4-040	4	4	10	50
HN55-S4-041	4	6	12	50
HN55-S4-050	5	5	13	50
HN55-S4-051	5	6	13	50
HN55-S4-060	6	6	15	50
HN55-S4-071	7	8	17	60
HN55-S4-080	8	8	20	60

Order NO.	d	D	l	L
HN55-S4-091	9	10	23	75
HN55-S4-100	10	10	25	75
HN55-S4-111	11	12	27	75
HN55-S4-120	12	12	30	75
HN55-S4-140	14	14	45	100
HN55-S4-151	15	16	45	100
HN55-S4-160	16	16	45	100
HN55-S4-180	18	18	45	100
HN55-S4-200	20	20	45	100
HN55-S4-250	25	25	45	100
HN55-S4-040-12	4	4	12	50
HN55-S4-060-18	6	6	18	50
HN55-S4-080-24	8	8	24	60
HN55-S4-100-30	10	10	30	75
HN55-S4-120-35	12	12	35	75

## CARBIDE SQUARE END MILL 4FLUTES OVERLONG LENGTH

### HN55-S4-200L

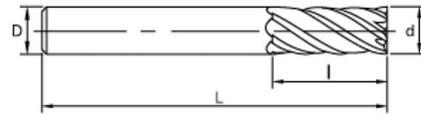


unit:mm

Order NO.	d	D	l	L
HN55-S4-080XXXL	8	8	60	200
HN55-S4-100XXL	10	10	70	200
HN55-S4-120XXL	12	12	70	200
HN55-S4-140XL	14	14	100	200
HN55-S4-160XL	16	16	100	200
HN55-S4-200XL	20	20	100	200

## CARBIDE SQUARE END MILL 6 FLUTES

### HN55-S6

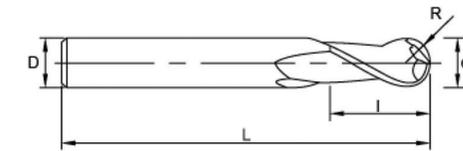


unit:mm

Order NO.	d	D	l	L
HN55-S6-060	6	6	18	50
HN55-S6-080	8	8	24	60
HN55-S6-100	10	10	30	75
HN55-S6-100L	10	10	40	100
HN55-S6-120	12	12	32	75
HN55-S6-120L	12	12	45	100
HN55-S6-160	16	16	45	100
HN55-S6-060L	6	6	24	75
HN55-S6-080L	8	8	32	75
HN55-S6-160L	16	16	75	150

## CARBIDE BALL NOSE END MILL 2 FLUTES LONG LENGTH

### HN55-B2-L



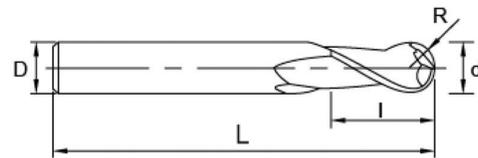
unit:mm

Order NO.	R	d	D	l	L
HN55-B2-030L	1.5	3	3	6	75
HN55-B2-040L	2	4	4	8	75
HN55-B2-050L	2.5	5	5	10	75
HN55-B2-060L	3	6	6	12	75
HN55-B2-080L	4	8	8	16	75
HN55-B2-100L	5	10	10	20	100
HN55-B2-120L	6	12	12	24	100
HN55-B2-030XL	1.5	3	3	6	100
HN55-B2-040XL	2	4	4	8	100
HN55-B2-050XL	2.5	5	5	10	100
HN55-B2-010L	0.5	1	4	2	75
HN55-B2-020L	1	2	4	4	75

Order NO.	R	d	D	l	L
HN55-B2-060XL	3	6	6	12	100
HN55-B2-080XL	4	8	8	16	100
HN55-B2-100XL	5	10	10	20	150
HN55-B2-120XL	6	12	12	24	150
HN55-B2-060XXL	3	6	6	12	150
HN55-B2-080XXL	4	8	8	16	150
HN55-B2-140L	7	14	14	28	150
HN55-B2-160L	8	16	16	32	150
HN55-B2-180L	9	18	18	36	150
HN55-B2-200L	10	20	20	40	150
HN55-B2-010XL	0.5	1	4	2	100
HN55-B2-020XL	1	2	4	4	100

## CARBIDE BALL NOSE END MILL 2 FLUTES

### HN55-B2

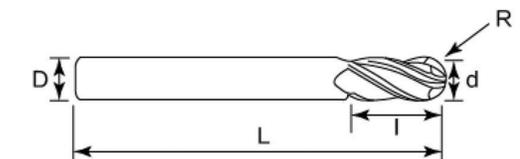


unit:mm

Order NO.	R	d	D	l	L
HN55-B2-010	0.5	1	4	2	50
HN55-B2-015	0.75	1.5	4	3	50
HN55-B2-020	1	2	4	4	50
HN55-B2-025	1.25	2.5	4	5	50
HN55-B2-030	1.5	3	3	6	50
HN55-B2-031	1.5	3	4	6	50
HN55-B2-032	1.5	3	6	6	50
HN55-B2-035	1.75	3.5	4	7	50
HN55-B2-040	2	4	4	8	50
HN55-B2-041	2	4	6	8	50
HN55-B2-050	2.5	5	5	10	50
HN55-B2-051	2.5	5	6	10	50
HN55-B2-060	3	6	6	12	50
HN55-B2-080	4	8	8	16	60
HN55-B2-100	5	10	10	20	75
HN55-B2-120	6	12	12	24	75
HN55-B2-140	7	14	14	28	100
HN55-B2-160	8	16	16	32	100
HN55-B2-180	9	18	18	36	100
HN55-B2-200	10	20	20	40	100

## CARBIDE BALL NOSE END MILL 4 FLUTES

### HN55-B4

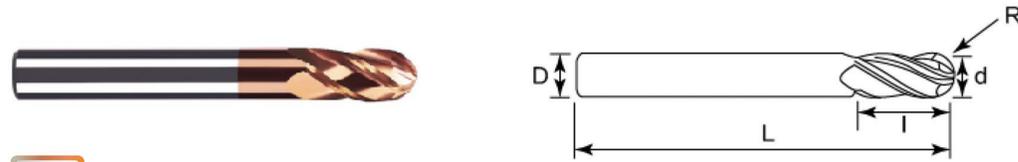


unit:mm

Order NO.	R	d	D	l	L
HN55-B4-010	0.5	1	4	2	50
HN55-B4-015	0.75	1.5	4	3	50
HN55-B4-020	1	2	4	4	50
HN55-B4-025	1.25	2.5	4	5	50
HN55-B4-030	1.5	3	3	6	50
HN55-B4-031	1.5	3	4	6	50
HN55-B4-035	1.75	3.5	4	7	50
HN55-B4-040	2	4	4	8	50
HN55-B4-050	2.5	5	5	10	50

Order NO.	R	d	D	l	L
HN55-B4-051	2.5	5	6	10	50
HN55-B4-060	3	6	6	12	50
HN55-B4-080	4	8	8	16	60
HN55-B4-100	5	10	10	20	75
HN55-B4-120	6	12	12	24	75
HN55-B4-140	7	14	14	28	100
HN55-B4-160	8	16	16	32	100
HN55-B4-180	9	18	18	36	100
HN55-B4-200	10	20	20	40	100

## CARBIDE BALL NOSE END MILL 4 FLUTES LONG LENGTH HN55-B4-L



unit:mm

Order NO.	R	d	D	l	L
HN55-B4-030L	1.5	3	3	6	75
HN55-B4-040L	2	4	4	8	75
HN55-B4-050L	2.5	5	5	10	75
HN55-B4-060L	3	6	6	12	75
HN55-B4-080L	4	8	8	16	75
HN55-B4-100L	5	10	10	20	100
HN55-B4-120L	6	12	12	24	100
HN55-B4-030XL	1.5	3	3	6	100
HN55-B4-040XL	2	4	4	8	100
HN55-B4-050XL	2.5	5	5	10	100
HN55-B4-060XL	3	6	6	12	100
HN55-B4-080XL	4	8	8	16	100
HN55-B4-100XL	5	10	10	20	150
HN55-B4-120XL	6	12	12	24	150
HN55-B4-060XXL	3	6	6	12	150
HN55-B4-080XXL	4	8	8	16	150
HN55-B4-140L	7	14	14	28	150
HN55-B4-160L	8	16	16	32	150
HN55-B4-180L	9	18	18	36	150
HN55-B4-200L	10	20	20	40	150
HN55-B4-020L	1	2	4	4	75

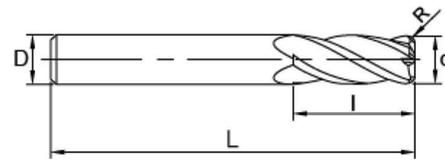
## CARBIDE CORNER RADIUS END MILL 4 FLUTES HN55-C4



unit:mm

Order NO.	R	d	D	l	L
HN55-C4-0102	0.2	1	4	3	50
HN55-C4-01502	0.2	1.5	4	4.5	50
HN55-C4-01503	0.3	1.5	4	4.5	50
HN55-C4-02002	0.2	2	4	6	50
HN55-C4-02003	0.3	2	4	6	50
HN55-C4-02005	0.5	2	4	6	50
HN55-C4-02502	0.2	2.5	4	7.5	50
HN55-C4-02505	0.5	2.5	4	7.5	50
HN55-C4-0302X	0.2	3	4	9	50
HN55-C4-0303	0.3	3	4	9	50
HN55-C4-0305X	0.5	3	4	9	50
HN55-C4-0305	0.5	3	3	9	50
HN55-C4-0310X	1	3	4	9	50
HN55-C4-0310	1	3	3	9	50
HN55-C4-0402	0.2	4	4	10	50
HN55-C4-0403	0.3	4	4	10	50
HN55-C4-0405	0.5	4	4	10	50
HN55-C4-0405X	0.5	4	4	20	100
HN55-C4-0410	1	4	4	10	50
HN55-C4-05051	0.5	5	6	15	50
HN55-C4-0505	0.5	5	5	15	50
HN55-C4-0510X	1	5	6	15	50
HN55-C4-0510	1	5	5	15	50
HN55-C4-0602	0.2	6	6	15	50
HN55-C4-0603	0.3	6	6	15	50
HN55-C4-0605	0.5	6	6	15	50
HN55-C4-0610	1	6	6	15	50
HN55-C4-0615	1.5	6	6	15	50
HN55-C4-0802	0.2	8	8	20	60
HN55-C4-0805	0.5	8	8	20	60
HN55-C4-0810	1	8	8	20	60
HN55-C4-0815	1.5	8	8	20	60
HN55-C4-0820	2	8	8	20	60
HN55-C4-0825	2.5	8	8	20	60
HN55-C4-1002	0.2	10	10	25	75
HN55-C4-1005	0.5	10	10	25	75
HN55-C4-1010	1	10	10	25	75
HN55-C4-1015	1.5	10	10	25	75
HN55-C4-1020	2	10	10	25	75
HN55-C4-1030	3	10	10	25	75
HN55-C4-1202	0.2	12	12	30	75
HN55-C4-1205	0.5	12	12	30	75
HN55-C4-1210	1	12	12	30	75
HN55-C4-1215	1.5	12	12	30	75
HN55-C4-1220	2	12	12	30	75
HN55-C4-1230	3	12	12	30	75
HN55-C4-1605	0.5	16	16	45	100
HN55-C4-1610	1	16	16	45	100
HN55-C4-1620	2	16	16	45	100
HN55-C4-1630	3	16	16	45	100
HN55-C4-2005	0.5	20	20	45	100
HN55-C4-2010	1	20	20	45	100

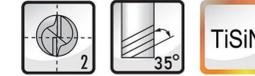
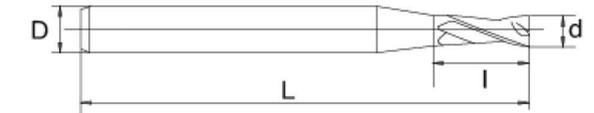
## CARBIDE CORNER RADIUS END MILL 4FLUTES LONG LENGTH HN55-C4-L



unit:mm

Order NO.	R	d	D	l	L
HN55-C4-0305L	0.5	3	3	12	75
HN55-C4-0305XL	0.5	3	3	15	100
HN55-C4-0310L	1	3	3	12	75
HN55-C4-0310XL	1	3	3	15	100
HN55-C4-0405L	0.5	4	4	12	75
HN55-C4-0410L	1	4	4	12	75
HN55-C4-0410XL	1	4	4	20	100
HN55-C4-0505L	0.5	5	5	15	75
HN55-C4-0505XL	0.5	5	5	18	100
HN55-C4-0510L	1	5	5	15	75
HN55-C4-0510XL	1	5	5	18	100
HN55-C4-0602L	0.2	6	6	24	75
HN55-C4-0602XL	0.2	6	6	30	100
HN55-C4-0605L	0.5	6	6	24	75
HN55-C4-0605XL	0.5	6	6	30	100
HN55-C4-0605XXL	0.5	6	6	45	150
HN55-C4-0610L	1	6	6	24	75
HN55-C4-0610XL	1	6	6	30	100
HN55-C4-0610XXL	1	6	6	45	150
HN55-C4-0802L	0.2	8	8	25	75
HN55-C4-0802XL	0.2	8	8	35	100
HN55-C4-0805L	0.5	8	8	25	75
HN55-C4-0805XL	0.5	8	8	35	100
HN55-C4-0805XXL	0.5	8	8	50	150
HN55-C4-0810L	1	8	8	25	75
HN55-C4-0810XL	1	8	8	35	100
HN55-C4-0810XXL	1	8	8	50	150
HN55-C4-0820XL	2	8	8	35	100
HN55-C4-1002L	0.2	10	10	40	100
HN55-C4-1005L	0.5	10	10	40	100
HN55-C4-1005XL	0.5	10	10	55	150
HN55-C4-1010L	1	10	10	40	100
HN55-C4-1010XL	1	10	10	55	150
HN55-C4-1020L	2	10	10	40	100
HN55-C4-1030L	3	10	10	40	100
HN55-C4-1202L	0.2	12	12	45	100
HN55-C4-1205L	0.5	12	12	45	100
HN55-C4-1205XL	0.5	12	12	55	150
HN55-C4-1210L	1	12	12	45	100
HN55-C4-1210XL	1	12	12	55	150
HN55-C4-1220L	2	12	12	45	100
HN55-C4-1230L	3	12	12	45	100
HN55-C4-1605L	0.5	16	16	75	150
HN55-C4-1610L	1	16	16	75	150
HN55-C4-2005L	0.5	20	20	75	150
HN55-C4-2010L	1	20	20	75	150

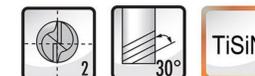
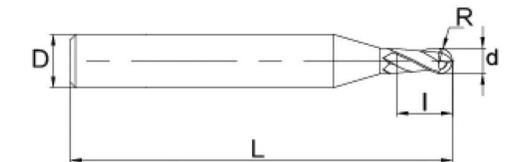
## CARBIDE MICRO END MILL HN55-MSS2



unit:mm

Order NO.	d	D	l	L
HN55-MSS2-002	0.2	4	0.4	50
HN55-MSS2-003	0.3	4	0.6	50
HN55-MSS2-004	0.4	4	0.8	50
HN55-MSS2-005	0.5	4	1	50
HN55-MSS2-006	0.6	4	1.2	50
HN55-MSS2-007	0.7	4	1.4	50
HN55-MSS2-008	0.8	4	1.6	50
HN55-MSS2-009	0.9	4	1.8	50

## CARBIDE MICRO BALL NOSE END MILL HN55-MBS2

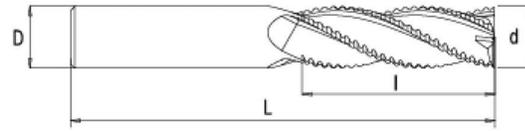


unit:mm

Order NO.	R	d	D	l	L
HN55-MBS2-002	0.1	0.2	4	0.4	50
HN55-MBS2-003	0.15	0.3	4	0.6	50
HN55-MBS2-004	0.2	0.4	4	0.8	50
HN55-MBS2-005	0.25	0.5	4	1	50
HN55-MBS2-006	0.3	0.6	4	1.2	50
HN55-MBS2-007	0.35	0.7	4	1.4	50
HN55-MBS2-008	0.4	0.8	4	1.6	50
HN55-MBS2-009	0.45	0.9	4	1.8	50

## CARBIDE ROUGHING END MILL 4 FLUTES

### HN55-RS4

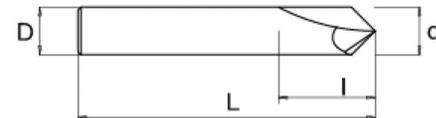


unit:mm

Order NO.	d	D	l	L
HN55-RS4-040	4	4	10	50
HN55-RS4-051	5	6	13	50
HN55-RS4-060	6	6	15	50
HN55-RS4-080	8	8	20	60
HN55-RS4-100	10	10	25	75
HN55-RS4-120	12	12	30	75
HN55-RS4-140	14	14	45	100
HN55-RS4-160	16	16	45	100
HN55-RS4-180	18	18	45	100
HN55-RS4-200	20	20	45	100
HN55-RS4-040XL	4	4	16	100
HN55-RS4-060XL	6	6	24	100
HN55-RS4-080XL	8	8	35	100
HN55-RS4-100L	10	10	40	100
HN55-RS4-120L	12	12	45	100

## CARBIDE SPOT DRILL 2 FLUTES

### HN55-SDS2



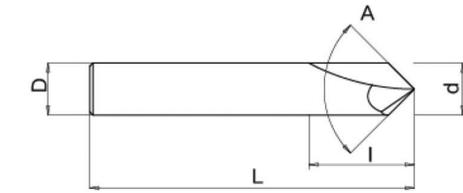
unit:mm

Order NO.	d	D	l	L
HN55-SDS2-030	3	3	8	50
HN55-SDS2-040	4	4	10	50
HN55-SDS2-050	5	5	15	50
HN55-SDS2-060	6	6	15	50
HN55-SDS2-080	8	8	20	60
HN55-SDS2-100	10	10	25	75
HN55-SDS2-120	12	12	30	75
HN55-SDS2-140	14	14	45	100

Order NO.	d	D	l	L
HN55-SDS2-160	16	16	45	100
HN55-SDS2-180	18	18	45	100
HN55-SDS2-200	20	20	45	100
HN55-SDS2-100L	10	10	40	100
HN55-SDS2-120L	12	12	40	100
HN55-SDS2-040XL	4	4	16	100
HN55-SDS2-060XL	6	6	24	100
HN55-SDS2-080XL	8	8	32	100

## CARBIDE CHAMFERING END MILL 3 FLUTES

### HN55-CS3

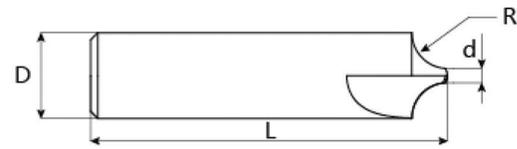


unit:mm

Order NO.	d	D	l	L	Angle
HN55-CS3-030-60	3	3	8	50	60°
HN55-CS3-040-60	4	4	10	50	60°
HN55-CS3-050-60	5	5	13	50	60°
HN55-CS3-060-60	6	6	15	50	60°
HN55-CS3-080-60	8	8	20	60	60°
HN55-CS3-100-60	10	10	25	60	60°
HN55-CS3-120-60	12	12	30	60	60°
HN55-CS3-140-60	14	14	45	100	60°
HN55-CS3-160-60	16	16	45	100	60°
HN55-CS3-180-60	18	18	45	100	60°
HN55-CS3-200-60	20	20	45	100	60°
HN55-CS3-040XL-60	4	4	16	100	60°
HN55-CS3-060XL-60	6	6	24	100	60°
HN55-CS3-080XL-60	8	8	32	100	60°
HN55-CS3-100L-60	10	10	40	100	60°
HN55-CS3-120L-60	12	12	40	100	60°
HN55-CS3-030-90	3	3	8	50	90°
HN55-CS3-040-90	4	4	10	50	90°
HN55-CS3-050-90	5	5	13	50	90°
HN55-CS3-060-90	6	6	15	50	90°
HN55-CS3-080-90	8	8	20	60	90°
HN55-CS3-100-90	10	10	25	60	90°
HN55-CS3-120-90	12	12	30	60	90°
HN55-CS3-140-90	14	14	45	100	90°
HN55-CS3-160-90	16	16	45	100	90°
HN55-CS3-180-90	18	18	45	100	90°
HN55-CS3-200-90	20	20	45	100	90°
HN55-CS3-040XL-90	4	4	16	100	90°
HN55-CS3-060XL-90	6	6	24	100	90°
HN55-CS3-080XL-90	8	8	32	100	90°
HN55-CS3-100L-90	10	10	40	100	90°
HN55-CS3-120L-90	12	12	40	100	90°
HN55-CS3-030-120	3	3	8	50	120°
HN55-CS3-040-120	4	4	10	50	120°
HN55-CS3-050-120	5	5	13	50	120°
HN55-CS3-060-120	6	6	15	50	120°
HN55-CS3-080-120	8	8	20	60	120°
HN55-CS3-100-120	10	10	25	60	120°
HN55-CS3-120-120	12	12	30	60	120°
HN55-CS3-140-120	14	14	45	100	120°
HN55-CS3-160-120	16	16	45	100	120°
HN55-CS3-180-120	18	18	45	100	120°
HN55-CS3-200-120	20	20	45	100	120°
HN55-CS3-040XL-120	4	4	16	100	120°
HN55-CS3-060XL-120	6	6	24	100	120°
HN55-CS3-080XL-120	8	8	32	100	120°
HN55-CS3-100L-120	10	10	40	100	120°
HN55-CS3-120L-120	12	12	40	100	120°

## CARBIDE INNER RADIUS END MILL

## HN55-IRS



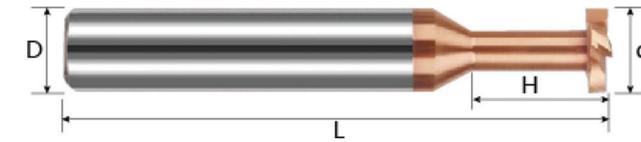
unit:mm

Order NO.	R	d	D	L
HN55-IRS-D3R0.5	0.5	3	4	50
HN55-IRS-D2.5R0.75	0.75	2.5	4	50
HN55-IRS-D2R1	1	2	4	50
HN55-IRS-D4R1	1	4	6	50
HN55-IRS-D3R1.5	1.5	3	6	50
HN55-IRS-D3R2.5	2	2	6	50
HN55-IRS-D4R2	2	4	8	60

Order NO.	R	d	D	L
HN55-IRS-D1R2.5	2.5	1	6	50
HN55-IRS-D2R3	3	2	8	60
HN55-IRS-D2R4	4	2	10	60
HN55-IRS-D2R5	5	2	12	60
HN55-IRS-D4R6	6	4	16	70
HN55-IRS-D4R8	8	4	20	70

## CARBIDE T-TYPE END MILL

## HN55-TSS4



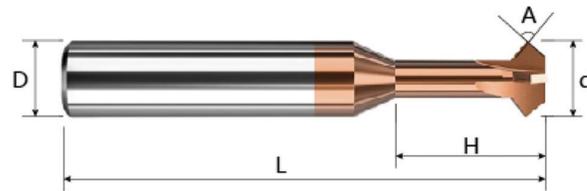
unit:mm

Order NO.	d	D	H	L
HN55-TSS4-020-005	2	4	0.5	50
HN55-TSS4-020-006	2	4	0.6	50
HN55-TSS4-020-007	2	4	0.7	50
HN55-TSS4-020-008	2	4	0.8	50
HN55-TSS4-020-009	2	4	0.9	50
HN55-TSS4-020-010	2	4	1	50
HN55-TSS4-020-011	2	4	1.1	50
HN55-TSS4-020-012	2	4	1.2	50
HN55-TSS4-020-013	2	4	1.3	50
HN55-TSS4-020-014	2	4	1.4	50
HN55-TSS4-020-015	2	4	1.5	50
HN55-TSS4-020-016	2	4	1.6	50
HN55-TSS4-020-017	2	4	1.7	50
HN55-TSS4-020-018	2	4	1.8	50
HN55-TSS4-020-019	2	4	1.9	50
HN55-TSS4-020-020	2	4	2	50
HN55-TSS4-030-005	3	4	0.5	50
HN55-TSS4-030-006	3	4	0.6	50
HN55-TSS4-030-007	3	4	0.7	50
HN55-TSS4-030-008	3	4	0.8	50
HN55-TSS4-030-009	3	4	0.9	50
HN55-TSS4-030-010	3	4	1	50
HN55-TSS4-030-011	3	4	1.1	50
HN55-TSS4-030-012	3	4	1.2	50
HN55-TSS4-030-013	3	4	1.3	50
HN55-TSS4-030-014	3	4	1.4	50
HN55-TSS4-030-015	3	4	1.5	50
HN55-TSS4-030-016	3	4	1.6	50
HN55-TSS4-030-017	3	4	1.7	50
HN55-TSS4-030-018	3	4	1.8	50
HN55-TSS4-030-019	3	4	1.9	50
HN55-TSS4-030-020	3	4	2	50
HN55-TSS4-030-021	3	4	2.1	50
HN55-TSS4-030-022	3	4	2.2	50
HN55-TSS4-030-023	3	4	2.3	50
HN55-TSS4-030-024	3	4	2.4	50
HN55-TSS4-030-025	3	4	2.5	50
HN55-TSS4-030-026	3	4	2.6	50
HN55-TSS4-030-027	3	4	2.7	50
HN55-TSS4-030-028	3	4	2.8	50

Order NO.	d	D	H	L
HN55-TSS4-030-029	3	4	2.9	50
HN55-TSS4-030-030	3	4	3	50
HN55-TSS4-040-005	4	4	0.5	50
HN55-TSS4-040-006	4	4	0.6	50
HN55-TSS4-040-007	4	4	0.7	50
HN55-TSS4-040-008	4	4	0.8	50
HN55-TSS4-040-009	4	4	0.9	50
HN55-TSS4-040-010	4	4	1	50
HN55-TSS4-040-011	4	4	1.1	50
HN55-TSS4-040-012	4	4	1.2	50
HN55-TSS4-040-013	4	4	1.3	50
HN55-TSS4-040-014	4	4	1.4	50
HN55-TSS4-040-015	4	4	1.5	50
HN55-TSS4-040-016	4	4	1.6	50
HN55-TSS4-040-017	4	4	1.7	50
HN55-TSS4-040-018	4	4	1.8	50
HN55-TSS4-040-019	4	4	1.9	50
HN55-TSS4-040-020	4	4	2	50
HN55-TSS4-040-021	4	4	2.1	50
HN55-TSS4-040-022	4	4	2.2	50
HN55-TSS4-040-023	4	4	2.3	50
HN55-TSS4-040-024	4	4	2.4	50
HN55-TSS4-040-025	4	4	2.5	50
HN55-TSS4-040-026	4	4	2.6	50
HN55-TSS4-040-027	4	4	2.7	50
HN55-TSS4-040-028	4	4	2.8	50
HN55-TSS4-040-029	4	4	2.9	50
HN55-TSS4-040-030	4	4	3	50
HN55-TSS4-040-031	4	4	3.1	50
HN55-TSS4-040-032	4	4	3.2	50
HN55-TSS4-040-033	4	4	3.3	50
HN55-TSS4-040-034	4	4	3.4	50
HN55-TSS4-040-035	4	4	3.5	50
HN55-TSS4-040-036	4	4	3.6	50
HN55-TSS4-040-037	4	4	3.7	50
HN55-TSS4-040-038	4	4	3.8	50
HN55-TSS4-040-039	4	4	3.9	50
HN55-TSS4-040-040	4	4	4	50
HN55-TSS4-040-045	4	4	4.5	50
HN55-TSS4-040-050	4	4	5	50

## CARBIDE UPPER AND LOWER CHAMFERING END MILL

## HN55-UDCS4



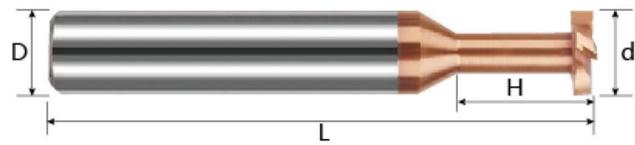
unit:mm

Order NO.	d	D	H	L	Angle
HN55-UDCS4-020-60	2	4	3	50	60°
HN55-UDCS4-030-60	3	4	4	50	60°
HN55-UDCS4-040-60	4	4	8	50	60°
HN55-UDCS4-051-60	5	6	10	50	60°
HN55-UDCS4-060-60	6	6	10	50	60°
HN55-UDCS4-080-60	8	8	12	60	60°
HN55-UDCS4-100-60	10	10	15	60	60°
HN55-UDCS4-120-60	12	12	18	60	60°
HN55-UDCS4-020-90	2	4	3	50	90°
HN55-UDCS4-030-90	3	4	4	50	90°
HN55-UDCS4-040-90	4	4	8	50	90°
HN55-UDCS4-051-90	5	6	10	50	90°

Order NO.	d	D	H	L	Angle
HN55-UDCS4-060-90	6	6	10	50	90°
HN55-UDCS4-080-90	8	8	12	60	90°
HN55-UDCS4-100-90	10	10	15	60	90°
HN55-UDCS4-120-90	12	12	18	60	90°
HN55-UDCS4-020-120	2	4	3	50	120°
HN55-UDCS4-030-120	3	4	4	50	120°
HN55-UDCS4-040-120	4	4	8	50	120°
HN55-UDCS4-051-120	5	6	10	50	120°
HN55-UDCS4-060-120	6	6	10	50	120°
HN55-UDCS4-080-120	8	8	12	60	120°
HN55-UDCS4-100-120	10	10	15	60	120°
HN55-UDCS4-120-120	12	12	18	60	120°

## CARBIDE T-TYPE END MILL

### HN55-TSS4



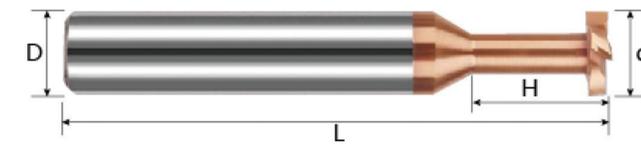
unit:mm

Order NO.	d	D	H	L
HN55-TSS4-060-005	6	6	0.5	50
HN55-TSS4-060-006	6	6	0.6	50
HN55-TSS4-060-007	6	6	0.7	50
HN55-TSS4-060-008	6	6	0.8	50
HN55-TSS4-060-009	6	6	0.9	50
HN55-TSS4-060-010	6	6	1	50
HN55-TSS4-060-011	6	6	1.1	50
HN55-TSS4-060-012	6	6	1.2	50
HN55-TSS4-060-013	6	6	1.3	50
HN55-TSS4-060-014	6	6	1.4	50
HN55-TSS4-060-015	6	6	1.5	50
HN55-TSS4-060-016	6	6	1.6	50
HN55-TSS4-060-017	6	6	1.7	50
HN55-TSS4-060-018	6	6	1.8	50
HN55-TSS4-060-019	6	6	1.9	50
HN55-TSS4-060-020	6	6	2	50
HN55-TSS4-060-021	6	6	2.1	50
HN55-TSS4-060-022	6	6	2.2	50
HN55-TSS4-060-023	6	6	2.3	50
HN55-TSS4-060-024	6	6	2.4	50
HN55-TSS4-060-025	6	6	2.5	50
HN55-TSS4-060-026	6	6	2.6	50
HN55-TSS4-060-027	6	6	2.7	50
HN55-TSS4-060-028	6	6	2.8	50
HN55-TSS4-060-029	6	6	2.9	50
HN55-TSS4-060-030	6	6	3	50
HN55-TSS4-060-031	6	6	3.1	50
HN55-TSS4-060-032	6	6	3.2	50
HN55-TSS4-060-033	6	6	3.3	50
HN55-TSS4-060-034	6	6	3.4	50
HN55-TSS4-060-035	6	6	3.5	50
HN55-TSS4-060-036	6	6	3.6	50
HN55-TSS4-060-037	6	6	3.7	50
HN55-TSS4-060-038	6	6	3.8	50
HN55-TSS4-060-039	6	6	3.9	50
HN55-TSS4-060-040	6	6	4	50
HN55-TSS4-060-045	6	6	4.5	50
HN55-TSS4-060-050	6	6	5	50
HN55-TSS4-060-060	6	6	6	50
HN55-TSS4-080-005	8	8	0.5	60

Order NO.	d	D	H	L
HN55-TSS4-080-006	8	8	0.6	60
HN55-TSS4-080-007	8	8	0.7	60
HN55-TSS4-080-008	8	8	0.8	60
HN55-TSS4-080-009	8	8	0.9	60
HN55-TSS4-080-010	8	8	1	60
HN55-TSS4-080-011	8	8	1.1	60
HN55-TSS4-080-012	8	8	1.2	60
HN55-TSS4-080-013	8	8	1.3	60
HN55-TSS4-080-014	8	8	1.4	60
HN55-TSS4-080-015	8	8	1.5	60
HN55-TSS4-080-016	8	8	1.6	60
HN55-TSS4-080-017	8	8	1.7	60
HN55-TSS4-080-018	8	8	1.8	60
HN55-TSS4-080-019	8	8	1.9	60
HN55-TSS4-080-020	8	8	2	60
HN55-TSS4-080-021	8	8	2.1	60
HN55-TSS4-080-022	8	8	2.2	60
HN55-TSS4-080-023	8	8	2.3	60
HN55-TSS4-080-024	8	8	2.4	60
HN55-TSS4-080-025	8	8	2.5	60
HN55-TSS4-080-026	8	8	2.6	60
HN55-TSS4-080-027	8	8	2.7	60
HN55-TSS4-080-028	8	8	2.8	60
HN55-TSS4-080-029	8	8	2.9	60
HN55-TSS4-080-030	8	8	3	60
HN55-TSS4-080-031	8	8	3.1	60
HN55-TSS4-080-032	8	8	3.2	60
HN55-TSS4-080-033	8	8	3.3	60
HN55-TSS4-080-034	8	8	3.4	60
HN55-TSS4-080-035	8	8	3.5	60
HN55-TSS4-080-036	8	8	3.6	60
HN55-TSS4-080-037	8	8	3.7	60
HN55-TSS4-080-038	8	8	3.8	60
HN55-TSS4-080-039	8	8	3.9	60
HN55-TSS4-080-040	8	8	4	60
HN55-TSS4-080-045	8	8	4.5	60
HN55-TSS4-080-050	8	8	5	60
HN55-TSS4-080-060	8	8	6	60
HN55-TSS4-080-080	8	8	8	60

## CARBIDE T-TYPE END MILL

### HN55-TSS4



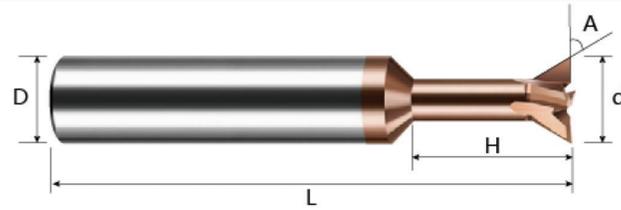
unit:mm

Order NO.	d	D	H	L
HN55-TSS4-100-005	10	10	0.5	60
HN55-TSS4-100-006	10	10	0.6	60
HN55-TSS4-100-007	10	10	0.7	60
HN55-TSS4-100-008	10	10	0.8	60
HN55-TSS4-100-009	10	10	0.9	60
HN55-TSS4-100-010	10	10	1	60
HN55-TSS4-100-011	10	10	1.1	60
HN55-TSS4-100-012	10	10	1.2	60
HN55-TSS4-100-013	10	10	1.3	60
HN55-TSS4-100-014	10	10	1.4	60
HN55-TSS4-100-015	10	10	1.5	60
HN55-TSS4-100-016	10	10	1.6	60
HN55-TSS4-100-017	10	10	1.7	60
HN55-TSS4-100-018	10	10	1.8	60
HN55-TSS4-100-019	10	10	1.9	60
HN55-TSS4-100-020	10	10	2	60
HN55-TSS4-100-021	10	10	2.1	60
HN55-TSS4-100-022	10	10	2.2	60
HN55-TSS4-100-023	10	10	2.3	60
HN55-TSS4-100-024	10	10	2.4	60
HN55-TSS4-100-025	10	10	2.5	60
HN55-TSS4-100-026	10	10	2.6	60
HN55-TSS4-100-027	10	10	2.7	60
HN55-TSS4-100-028	10	10	2.8	60
HN55-TSS4-100-029	10	10	2.9	60
HN55-TSS4-100-030	10	10	3	60
HN55-TSS4-100-031	10	10	3.1	60
HN55-TSS4-100-032	10	10	3.2	60
HN55-TSS4-100-033	10	10	3.3	60
HN55-TSS4-100-034	10	10	3.4	60
HN55-TSS4-100-035	10	10	3.5	60
HN55-TSS4-100-036	10	10	3.6	60
HN55-TSS4-100-037	10	10	3.7	60
HN55-TSS4-100-038	10	10	3.8	60
HN55-TSS4-100-039	10	10	3.9	60
HN55-TSS4-100-040	10	10	4	60
HN55-TSS4-100-045	10	10	4.5	60
HN55-TSS4-100-050	10	10	5	60
HN55-TSS4-100-055	10	10	5.5	60
HN55-TSS4-100-060	10	10	6	60
HN55-TSS4-100-065	10	10	6.5	60
HN55-TSS4-100-070	10	10	7	60
HN55-TSS4-100-075	10	10	7.5	60
HN55-TSS4-100-080	10	10	8	60
HN55-TSS4-100-100	10	10	10	60

Order NO.	d	D	H	L
HN55-TSS4-120-005	12	12	0.5	60
HN55-TSS4-120-006	12	12	0.6	60
HN55-TSS4-120-007	12	12	0.7	60
HN55-TSS4-120-008	12	12	0.8	60
HN55-TSS4-120-009	12	12	0.9	60
HN55-TSS4-120-010	12	12	1	60
HN55-TSS4-120-011	12	12	1.1	60
HN55-TSS4-120-012	12	12	1.2	60
HN55-TSS4-120-013	12	12	1.3	60
HN55-TSS4-120-014	12	12	1.4	60
HN55-TSS4-120-015	12	12	1.5	60
HN55-TSS4-120-016	12	12	1.6	60
HN55-TSS4-120-017	12	12	1.7	60
HN55-TSS4-120-018	12	12	1.8	60
HN55-TSS4-120-019	12	12	1.9	60
HN55-TSS4-120-020	12	12	2	60
HN55-TSS4-120-021	12	12	2.1	60
HN55-TSS4-120-022	12	12	2.2	60
HN55-TSS4-120-023	12	12	2.3	60
HN55-TSS4-120-024	12	12	2.4	60
HN55-TSS4-120-025	12	12	2.5	60
HN55-TSS4-120-026	12	12	2.6	60
HN55-TSS4-120-027	12	12	2.7	60
HN55-TSS4-120-028	12	12	2.8	60
HN55-TSS4-120-029	12	12	2.9	60
HN55-TSS4-120-030	12	12	3	60
HN55-TSS4-120-031	12	12	3.1	60
HN55-TSS4-120-032	12	12	3.2	60
HN55-TSS4-120-033	12	12	3.3	60
HN55-TSS4-120-034	12	12	3.4	60
HN55-TSS4-120-035	12	12	3.5	60
HN55-TSS4-120-036	12	12	3.6	60
HN55-TSS4-120-037	12	12	3.7	60
HN55-TSS4-120-038	12	12	3.8	60
HN55-TSS4-120-039	12	12	3.9	60
HN55-TSS4-120-040	12	12	4	60
HN55-TSS4-120-045	12	12	4.5	60
HN55-TSS4-120-050	12	12	5	60
HN55-TSS4-120-055	12	12	5.5	60
HN55-TSS4-120-060	12	12	6	60
HN55-TSS4-120-065	12	12	6.5	60
HN55-TSS4-120-070	12	12	7	60
HN55-TSS4-120-075	12	12	7.5	60
HN55-TSS4-120-080	12	12	8	60
HN55-TSS4-120-100	12	12	10	60
HN55-TSS4-120-120	12	12	12	60

## CARBIDE T-TYPE DOVETAIL GROOVE END MILL

## HN55-TDS



TiSiN

unit:mm

Order NO.	d	D	H	L	Angle
HN55-TDS4-020-45	2	4	4	50	45°
HN55-TDS4-030-45	3	4	6	50	45°
HN55-TDS4-040-45	4	4	8	50	45°
HN55-TDS4-050-45	5	6	10	50	45°
HN55-TDS4-060-45	6	6	10	50	45°
HN55-TDS4-080-45	8	8	12	60	45°
HN55-TDS4-100-45	10	10	15	60	45°
HN55-TDS4-120-45	12	12	18	60	45°
HN55-TDS4-020-30	2	4	4	50	30°
HN55-TDS4-030-30	3	4	6	50	30°
HN55-TDS4-040-30	4	4	8	50	30°
HN55-TDS4-050-30	5	6	10	50	30°

Order NO.	d	D	H	L	Angle
HN55-TDS4-060-30	6	6	10	50	30°
HN55-TDS4-080-30	8	8	12	60	30°
HN55-TDS4-100-30	10	10	15	60	30°
HN55-TDS4-120-30	12	12	18	60	30°
HN55-TDS4-020-60	2	4	4	50	60°
HN55-TDS4-030-60	3	4	6	50	60°
HN55-TDS4-040-60	4	4	8	50	60°
HN55-TDS4-050-60	5	6	10	50	60°
HN55-TDS4-060-60	6	6	10	50	60°
HN55-TDS4-080-60	8	8	12	60	60°
HN55-TDS4-100-60	10	10	15	60	60°
HN55-TDS4-120-60	12	12	18	60	60°

## CARBIDE LOLLIPOP END MILL

## HN55-LPBS2



TiSiN

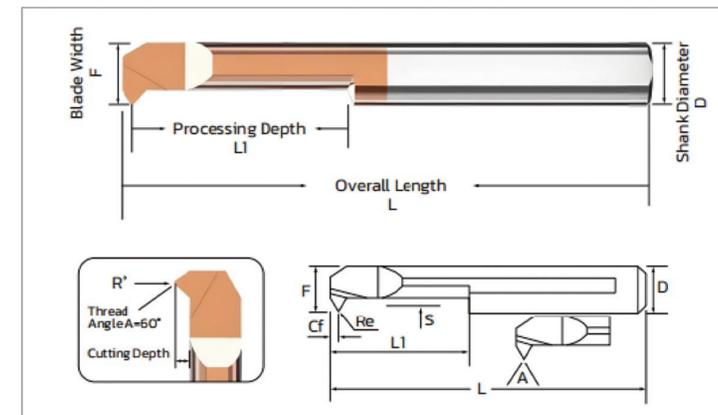
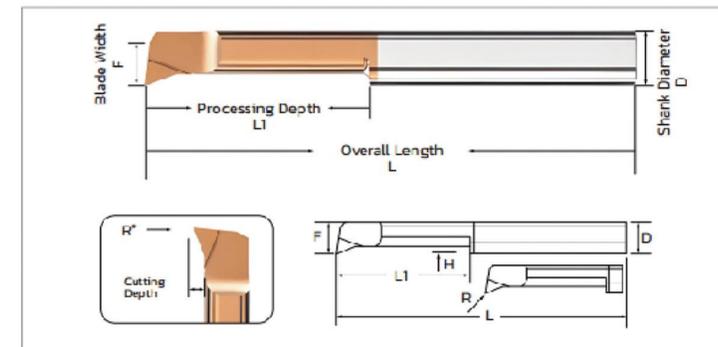
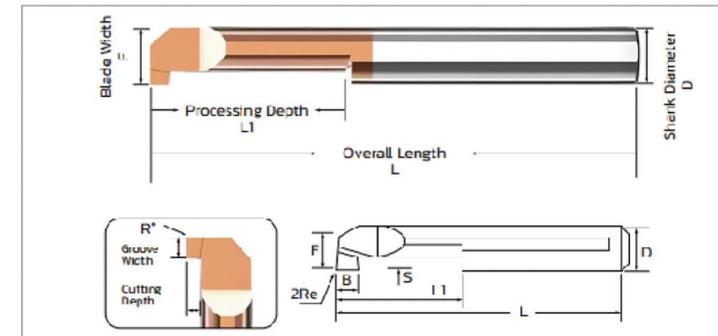
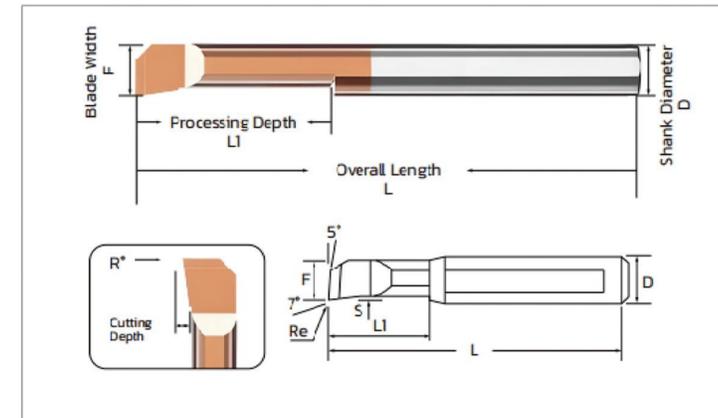
unit:mm

Order NO.	R	D	L
HN55-LPBS2-020	R1	D4	50
HN55-LPBS2-030	R1.5	D4	50
HN55-LPBS2-040	R2	D4	50
HN55-LPBS2-051	R2.5	D6	50
HN55-LPBS2-060	R3	D6	50

Order NO.	R	D	L
HN55-LPBS2-080	R4	D8	60
HN55-LPBS2-100	R5	D10	60
HN55-LPBS2-120	R6	D12	60
HN55-LPBS2-060XL	R3	D6	100

## CARBIDE MICRO BORING TOOL

## MTR/MGR/MPR/MIR



Order NO.	Description/mm		
	D	R	I
MTR-1-R0.05-L4	1	0.05	4
MTR-1.5-R0.1-L6	1.5	0.1	6
MTR-2-R0.1-L10	2	0.1	10
MTR-3-R0.1-L15	3	0.1	15
MTR-4-R0.1-L15	4	0.1	15
MTR-5-R0.2-L22	5	0.2	22
MTR-6-R0.2-L22	6	0.2	22
MTR-8-R0.2-L22	8	0.2	22

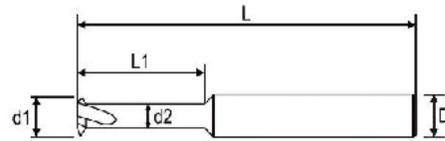
Order NO.	Description/mm		
	D	B	L1
MGR-3-B0.7-L10	3	0.7	10
MGR-4-B1-L10	4	1	10
MGR-5-B1-L22	5	1	22
MGR-5-B2-L22	5	2	22
MGR-6-B1-L22	6	1	22
MGR-6-B2-L22	6	2	22

Order NO.	Description/mm		
	D	R	I
MPR-3-R0.1-L15	3	0.1	15
MPR-5-R0.2-L22	5	0.2	22
MPR-6-R0.2-L22	6	0.2	22
MPR-2-R0.1-L10	2	0.1	10
MPR-4-R0.1-L15	4	0.1	15

Order NO.	Description/mm		
	D	A	I
MIR-3-A60-L15	3	60	15
MIR-4-A60-L15	4	60	15
MIR-5-A60-L22	5	60	22
MIR-6-A60-L22	6	60	22

## ISO METRIC CARBIDE THREAD END MILL

## HN60-LWSS

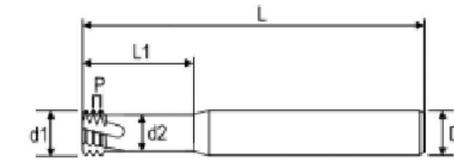


unit:mm

Order NO.	Pitch	Dimensions				Flute
	p	D	d1	L1	L	Z
HN60-LWSS-M1.0	0.25	4	0.7	3.1	50	3
HN60-LWSS-M1.2	0.25	4	0.9	3.8	50	3
HN60-LWSS-M1.4	0.3	4	1.05	4.4	50	3
HN60-LWSS-M1.6	0.35	4	1.2	5	50	3
HN60-LWSS-M2	0.4	4	1.5	6.2	50	3
HN60-LWSS-M2.5	0.45	4	1.95	7.7	50	3
HN60-LWSS-M3	0.5	4	2.4	9.2	50	3
HN60-LWSS-M3.5	0.6	4	2.75	12	50	3
HN60-LWSS-M4	0.7	4	3.15	13	50	3
HN60-LWSS-M5	0.5-0.8	4	3.9	16	50	3
HN60-LWSS-M6	0.5-1.0	6	4.85	20	57	4
HN60-LWSS-M8-1.25	0.5-1.25	6	5.9	25	57	4
HN60-LWSS-M12-1.0	0.5-1.0	10	9.9	35	70	5
HN60-LWSS-M10-1.5	1.0-1.50	8	7.9	32	65	5
HN60-LWSS-M12-1.75	1.0-1.75	10	9.9	38	70	5
HN60-LWSS-M16-2.0	1.25-2.0	12	11.6	45	80	5

## ISO METRIC CARBIDE THREAD END MILL

## HN60-LWTS

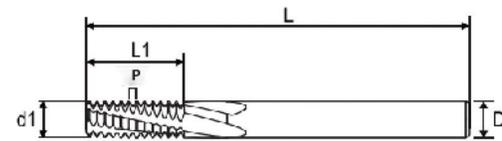


unit:mm

Order NO.	Pitch	Dimensions				Flute
	p	D	d1	L1	L	Z
HN60-LWTS-M1.0	0.25	4	0.7	2.8	50	3
HN60-LWTS-M1.2	0.25	4	0.9	3.2	50	3
HN60-LWTS-M1.4	0.3	4	1.05	3.4	50	3
HN60-LWTS-M1.6	0.35	4	1.2	3.5	50	3
HN60-LWTS-M1.8	0.35	4	1.4	3.8	50	3
HN60-LWTS-M2	0.4	4	1.55	4.3	50	3
HN60-LWTS-M2.5	0.45	4	1.95	5.3	50	3
HN60-LWTS-M3	0.5	4	2.4	6.6	50	3
HN60-LWTS-M3.5	0.6	4	2.75	7.6	50	3
HN60-LWTS-M4	0.7	4	3.15	8.6	50	3
HN60-LWTS-M5	0.8	4	3.9	10.5	50	3
HN60-LWTS-M6	1	6	4.8	14	57	3
HN60-LWTS-M8-0.75	0.75	6	5.95	16.6	50	3
HN60-LWTS-M8-1.25	1.25	6	5.95	16.5	57	3
HN60-LWTS-M10	1.5	8	7.95	22	60	4
HN60-LWTS-M12	1.75	10	9.9	27	70	4
HN60-LWTS-M14-1.5	1.5	12	11.9	30	75	4
HN60-LWTS-M16-1.5	1.5	12	11.9	30	75	4
HN60-LWTS-M14-2.0	2	12	11.6	33	75	4
HN60-LWTS-M16-2.0	2	12	11.6	33	75	4

## ISO METRIC CARBIDE THREAD END MILL

## HN60-LWFS

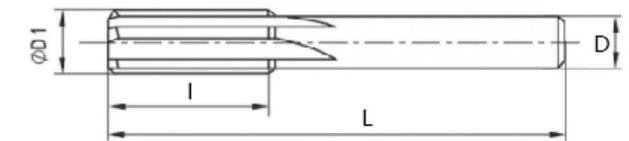


unit:mm

Order NO.	Pitch	Dimensions				Flute Z
	p	D	d1	L1	L	
HN60-LWFS-M3	0.5	4	2.4	6	50	3
HN60-LWFS-M3.5	0.6	4	2.8	7	50	3
HN60-LWFS-M4	0.7	4	3.15	8.4	50	3
HN60-LWFS-M6-0.75	0.75	4	3.9	12	50	3
HN60-LWFS-M8-0.75	0.75	6	5.9	16	57	3
HN60-LWFS-M5	0.8	4	3.9	10.4	50	3
HN60-LWFS-M6-1.0	1	6	4.8	12	57	3
HN60-LWFS-M8-1.0	1	6	5.9	16	57	3
HN60-LWFS-M10-1.0	1	8	7.9	20	65	3
HN60-LWFS-M12-1.0	1	10	9.9	24	70	4
HN60-LWFS-M8-1.25	1.25	6	5.9	16.2	57	3
HN60-LWFS-M10-1.25	1.25	8	7.9	20	65	3
HN60-LWFS-M10-1.5	1.5	8	7.9	19.5	65	3
HN60-LWFS-M12-1.25	1.25	10	9.9	24	70	3
HN60-LWFS-M12-1.5	1.5	10	9.9	24	70	4
HN60-LWFS-M12-1.75	1.75	10	9.9	25	70	4
HN60-LWFS-M14-1.5	1.5	12	11.9	30	75	4
HN60-LWFS-M16-1.5	1.5	12	11.9	30	75	4
HN60-LWFS-M14-2.0	2	12	11.6	30	75	4
HN60-LWFS-M16-2.0	2	12	11.6	30	75	4

## ALLOY STRAIGHT REAMER

## HN55-CSTR

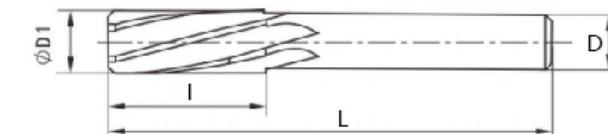


unit:mm

Order NO.	Description/mm			Flute
	D	I	L	
HN55-CSTR4-040XL	4	50	100	4
HN55-CSTR4-050XL	5	50	100	4
HN55-CSTR6-060XL	6	50	100	6
HN55-CSTR6-080XL	8	50	100	6
HN55-CSTR6-100L	10	50	100	6
HN55-CSTR6-120L	12	50	100	6

## ALLOY SPIRAL REAMER

## HN55-CSPR

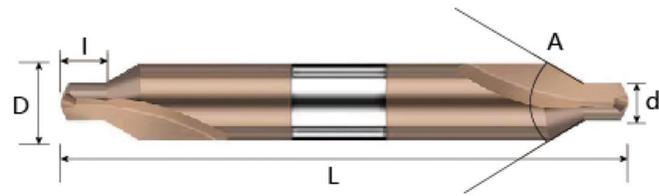


unit:mm

Order NO.	Description/mm			Flute
	D	I	L	
HN55-CSPR4-020	2	15	50	4
HN55-CSPR4-030	3	20	50	4
HN55-CSPR4-040	4	25	50	4
HN55-CSPR4-050-60	5	30	60	4
HN55-CSPR6-060-60	6	30	60	6
HN55-CSPR6-080L	8	40	75	6
HN55-CSPR6-100	10	40	75	6
HN55-CSPR6-100L	10	50	100	6
HN55-CSPR6-120	12	40	75	6
HN55-CSPR6-120L	12	50	100	6

## CENTER DRILL

## HN55-CCDS

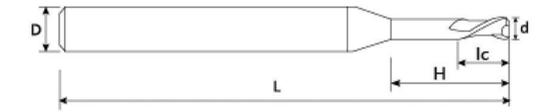


unit:mm

Order NO.	d	D	l	L	Angle
HN55-CCDS-004	0.4	4	0.8	50	60°
HN55-CCDS-005	0.5	4	1	50	60°
HN55-CCDS-006	0.6	4	1.2	50	60°
HN55-CCDS-007	0.7	4	1.4	50	60°
HN55-CCDS-008	0.8	4	1.5	50	60°
HN55-CCDS-009	0.9	4	1.5	50	60°
HN55-CCDS-010	1	4	1.5	50	60°
HN55-CCDS-011	1.1	4	1.8	50	60°
HN55-CCDS-012	1.2	4	1.8	50	60°
HN55-CCDS-013	1.3	4	1.8	50	60°
HN55-CCDS-014	1.4	4	2	50	60°
HN55-CCDS-015	1.5	4	2	50	60°
HN55-CCDS-016	1.6	4	2	50	60°
HN55-CCDS-017	1.7	4	2.2	50	60°
HN55-CCDS-018	1.8	4	2.2	50	60°
HN55-CCDS-019	1.9	4	2.2	50	60°
HN55-CCDS-020-D4	2	4	2.5	50	60°
HN55-CCDS-020-D6	2	6	2.5	50	60°
HN55-CCDS-025	2.5	6	3	50	60°
HN55-CCDS-030-D6	3	6	3.5	50	60°
HN55-CCDS-030-D8	3	8	3.5	60	60°
HN55-CCDS-040-D8	4	8	5	60	60°
HN55-CCDS-040-D10	4	10	5	60	60°
HN55-CCDS-050	5	10	6.5	60	60°
HN55-CCDS-060	6	10	7.5	60	60°
HN55-CCDS-010XL	1	4	1.5	100	60°
HN55-CCDS-015XL	1.5	4	2	100	60°
HN55-CCDS-020XL-D4	2	4	2.5	100	60°
HN55-CCDS-020XL-D6	2	6	2.5	100	60°
HN55-CCDS-030XL-D6	3	6	3.5	100	60°
HN55-CCDS-030XL-D8	3	8	3.5	100	60°
HN55-CCDS-040XL-D8	4	8	5	100	60°
HN55-CCDS-040XL-D10	4	10	5	100	60°
HN55-CCDS-050XL	5	10	6.5	100	60°

## CARBIDE LONG NECK SQUARE END MILL 2 FLUTES

## HN55-LNS2

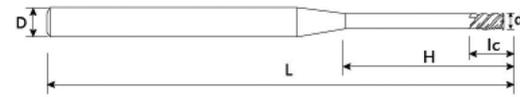


unit:mm

Order NO.	d	D	lc	H	L
HN55-LNS2-01004	1	4	3	4	50
HN55-LNS2-01005	1	4	3	5	50
HN55-LNS2-01006	1	4	3	6	50
HN55-LNS2-01008	1	4	3	8	50
HN55-LNS2-01010	1	4	3	10	50
HN55-LNS2-01012	1	4	3	12	50
HN55-LNS2-01015	1	4	3	15	50
HN55-LNS2-01020	1	4	3	20	50
HN55-LNS2-01506	1.5	4	4.5	6	50
HN55-LNS2-01508	1.5	4	4.5	8	50
HN55-LNS2-01510	1.5	4	4.5	10	50
HN55-LNS2-01512	1.5	4	4.5	12	50
HN55-LNS2-01515	1.5	4	4.5	15	50
HN55-LNS2-01520	1.5	4	4.5	20	50
HN55-LNS2-02008	2	4	6	8	50
HN55-LNS2-02010	2	4	6	10	50
HN55-LNS2-02012	2	4	6	12	50
HN55-LNS2-02015	2	4	6	15	50
HN55-LNS2-02020	2	4	6	20	50
HN55-LNS2-02510	2.5	4	7.5	10	50
HN55-LNS2-02512	2.5	4	7.5	12	50
HN55-LNS2-02515	2.5	4	7.5	15	50
HN55-LNS2-02520	2.5	4	7.5	20	50
HN55-LNS2-03012	3	4	9	12	50
HN55-LNS2-03015	3	4	9	15	50
HN55-LNS2-03020	3	4	9	20	50

**CARBIDE LONG NECK SQUARE END MILL 4 FLUTES**

**HN55-LNS4**

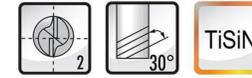
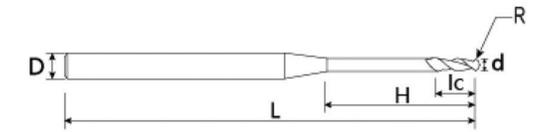


unit:mm

Order NO.	d	D	lc	H	L
HN55-LNS4-01004	1	4	3	4	50
HN55-LNS4-01005	1	4	3	5	50
HN55-LNS4-01006	1	4	3	6	50
HN55-LNS4-01008	1	4	3	8	50
HN55-LNS4-01010	1	4	3	10	50
HN55-LNS4-01012	1	4	3	12	50
HN55-LNS4-01015	1	4	3	15	50
HN55-LNS4-01020	1	4	3	20	50
HN55-LNS4-01506	1.5	4	4.5	6	50
HN55-LNS4-01508	1.5	4	4.5	8	50
HN55-LNS4-01510	1.5	4	4.5	10	50
HN55-LNS4-01512	1.5	4	4.5	12	50
HN55-LNS4-01515	1.5	4	4.5	15	50
HN55-LNS4-01520	1.5	4	4.5	20	50
HN55-LNS4-02008	2	4	6	8	50
HN55-LNS4-02010	2	4	6	10	50
HN55-LNS4-02012	2	4	6	12	50
HN55-LNS4-02015	2	4	6	15	50
HN55-LNS4-02020	2	4	6	20	50
HN55-LNS4-02510	2.5	4	7.5	10	50
HN55-LNS4-02512	2.5	4	7.5	12	50
HN55-LNS4-02515	2.5	4	7.5	15	50
HN55-LNS4-02520	2.5	4	7.5	20	50
HN55-LNS4-03012	3	4	9	12	50
HN55-LNS4-03015	3	4	9	15	50
HN55-LNS4-03020	3	4	9	20	50

**CARBIDE LONG NECK BALL NOSE END MILL 2 FLUTES**

**HN55-LNB2**

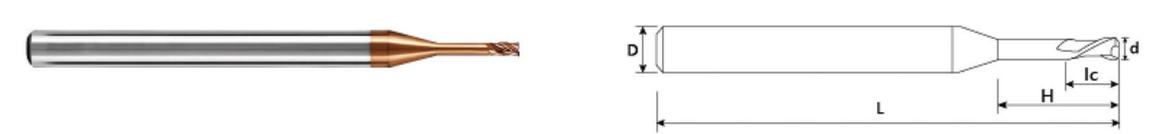


unit:mm

Order NO.	R	d	D	lc	H	L
HN55-LNB2-01004	0.5	1	4	2	4	50
HN55-LNB2-01005	0.5	1	4	2	5	50
HN55-LNB2-01006	0.5	1	4	2	6	50
HN55-LNB2-01008	0.5	1	4	2	8	50
HN55-LNB2-01010	0.5	1	4	2	10	50
HN55-LNB2-01012	0.5	1	4	2	12	50
HN55-LNB2-01015	0.5	1	4	2	15	50
HN55-LNB2-01020	0.5	1	4	2	20	50
HN55-LNB2-01506	0.75	1.5	4	3	6	50
HN55-LNB2-01508	0.75	1.5	4	3	8	50
HN55-LNB2-01510	0.75	1.5	4	3	10	50
HN55-LNB2-01512	0.75	1.5	4	3	12	50
HN55-LNB2-01515	0.75	1.5	4	3	15	50
HN55-LNB2-01520	0.75	1.5	4	3	20	50
HN55-LNB2-02006	1	2	4	4	6	50
HN55-LNB2-02008	1	2	4	4	8	50
HN55-LNB2-02010	1	2	4	4	10	50
HN55-LNB2-02012	1	2	4	4	12	50
HN55-LNB2-02015	1	2	4	4	15	50
HN55-LNB2-02020	1	2	4	4	20	50
HN55-LNB2-02510	1.25	2.5	4	5	10	50
HN55-LNB2-02512	1.25	2.5	4	5	12	50
HN55-LNB2-02515	1.25	2.5	4	5	15	50
HN55-LNB2-02520	1.25	2.5	4	5	20	50

**CARBIDE LONG NECK CORNER RADIUS END MILL 4 FLUTES HN55-LNC4**

**CARBIDE MICRO LONG NECK SQUARE END MILL 2 FLUTES HN55-MLNS2**



unit:mm

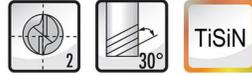
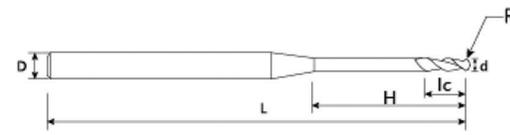
unit:mm

Order NO.	R	d	D	lc	H	L
HN55-LNC4-01006	0.2	1	4	3	6	50
HN55-LNC4-01008	0.2	1	4	3	8	50
HN55-LNC4-01010	0.2	1	4	3	10	50
HN55-LNC4-01012	0.2	1	4	3	12	50
HN55-LNC4-01015	0.2	1	4	3	15	50
HN55-LNC4-01020	0.2	1	4	3	20	50
HN55-LNC4-01506	0.2	1.5	4	4.5	6	50
HN55-LNC4-01508	0.2	1.5	4	4.5	8	50
HN55-LNC4-01510	0.2	1.5	4	4.5	10	50
HN55-LNC4-01512	0.2	1.5	4	4.5	12	50
HN55-LNC4-01515	0.2	1.5	4	4.5	15	50
HN55-LNC4-01520	0.2	1.5	4	4.5	20	50
HN55-LNC4-02008	0.2	2	4	6	8	50
HN55-LNC4-02010	0.2	2	4	6	10	50
HN55-LNC4-02012	0.2	2	4	6	12	50
HN55-LNC4-02015	0.2	2	4	6	15	50
HN55-LNC4-02020	0.2	2	4	6	20	50
HN55-LNC4-02008X	0.5	2	4	6	8	50
HN55-LNC4-02010X	0.5	2	4	6	10	50
HN55-LNC4-02012X	0.5	2	4	6	12	50
HN55-LNC4-02015X	0.5	2	4	6	15	50
HN55-LNC4-02020X	0.5	2	4	6	20	50

Order NO.	d	D	lc	H	L
HN55-MLNS2-00302	0.3	4	0.6	2	50
HN55-MLNS2-00303	0.3	4	0.6	3	50
HN55-MLNS2-00304	0.3	4	0.6	4	50
HN55-MLNS2-00402	0.4	4	0.8	2	50
HN55-MLNS2-00403	0.4	4	0.8	3	50
HN55-MLNS2-00404	0.4	4	0.8	4	50
HN55-MLNS2-00405	0.4	4	0.8	5	50
HN55-MLNS2-00406	0.4	4	0.8	6	50
HN55-MLNS2-00502	0.5	4	1	2	50
HN55-MLNS2-00503	0.5	4	1	3	50
HN55-MLNS2-00504	0.5	4	1	4	50
HN55-MLNS2-00506	0.5	4	1	6	50
HN55-MLNS2-00508	0.5	4	1	8	50
HN55-MLNS2-00510	0.5	4	1	10	50
HN55-MLNS2-00602	0.6	4	1.2	2	50
HN55-MLNS2-00603	0.6	4	1.2	3	50
HN55-MLNS2-00604	0.6	4	1.2	4	50
HN55-MLNS2-00606	0.6	4	1.2	6	50
HN55-MLNS2-00608	0.6	4	1.2	8	50
HN55-MLNS2-00703	0.7	4	1.4	3	50
HN55-MLNS2-00704	0.7	4	1.4	4	50
HN55-MLNS2-00706	0.7	4	1.4	6	50
HN55-MLNS2-00708	0.7	4	1.4	8	50
HN55-MLNS2-00710	0.7	4	1.4	10	50
HN55-MLNS2-00803	0.8	4	1.6	3	50
HN55-MLNS2-00804	0.8	4	1.6	4	50
HN55-MLNS2-00806	0.8	4	1.6	6	50
HN55-MLNS2-00808	0.8	4	1.6	8	50
HN55-MLNS2-00810	0.8	4	1.6	10	50
HN55-MLNS2-00903	0.9	4	1.8	3	50
HN55-MLNS2-00904	0.9	4	1.8	4	50
HN55-MLNS2-00906	0.9	4	1.8	6	50
HN55-MLNS2-00908	0.9	4	1.8	8	50
HN55-MLNS2-00910	0.9	4	1.8	10	50

## CARBIDE LONG NECK BALL NOSE END MILL 2FLUTES

## HN55-MLNB2

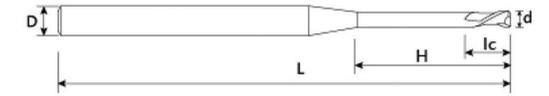


unit:mm

Order NO.	R	d	D	lc	H	L
HN55-MLNB2-00302	R0.15	0.3	4	0.6	2	50
HN55-MLNB2-00303	R0.15	0.3	4	0.6	3	50
HN55-MLNB2-00304	R0.15	0.3	4	0.6	4	50
HN55-MLNB2-00402	R0.2	0.4	4	0.8	2	50
HN55-MLNB2-00403	R0.2	0.4	4	0.8	3	50
HN55-MLNB2-00404	R0.2	0.4	4	0.8	4	50
HN55-MLNB2-00405	R0.2	0.4	4	0.8	5	50
HN55-MLNB2-00406	R0.2	0.4	4	0.8	6	50
HN55-MLNB2-00502	R0.25	0.5	4	1	2	50
HN55-MLNB2-00503	R0.25	0.5	4	1	3	50
HN55-MLNB2-00504	R0.25	0.5	4	1	4	50
HN55-MLNB2-00506	R0.25	0.5	4	1	6	50
HN55-MLNB2-00508	R0.25	0.5	4	1	8	50
HN55-MLNB2-00510	R0.25	0.5	4	1	10	50
HN55-MLNB2-00602	R0.3	0.6	4	1.2	2	50
HN55-MLNB2-00603	R0.3	0.6	4	1.2	3	50
HN55-MLNB2-00604	R0.3	0.6	4	1.2	4	50
HN55-MLNB2-00606	R0.3	0.6	4	1.2	6	50
HN55-MLNB2-00608	R0.3	0.6	4	1.2	8	50
HN55-MLNB2-00703	R0.35	0.7	4	1.4	3	50
HN55-MLNB2-00704	R0.35	0.7	4	1.4	4	50
HN55-MLNB2-00706	R0.35	0.7	4	1.4	6	50
HN55-MLNB2-00708	R0.35	0.7	4	1.4	8	50
HN55-MLNB2-00710	R0.35	0.7	4	1.4	10	50
HN55-MLNB2-00803	R0.4	0.8	4	1.6	3	50
HN55-MLNB2-00804	R0.4	0.8	4	1.6	4	50
HN55-MLNB2-00806	R0.4	0.8	4	1.6	6	50
HN55-MLNB2-00808	R0.4	0.8	4	1.6	8	50
HN55-MLNB2-00810	R0.4	0.8	4	1.6	10	50
HN55-MLNB2-00903	R0.45	0.9	4	1.8	3	50
HN55-MLNB2-00904	R0.45	0.9	4	1.8	4	50
HN55-MLNB2-00906	R0.45	0.9	4	1.8	6	50
HN55-MLNB2-00908	R0.45	0.9	4	1.8	8	50
HN55-MLNB2-00910	R0.45	0.9	4	1.8	10	50

## CARBIDE LONG NECK SQUARE END MILL 2 FLUTES

## HN65-LNS2

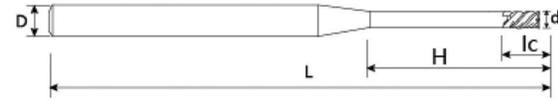


unit:mm

Order NO.	d	D	lc	H	L
HN65-LNS2-01010	1	4	3	10	50
HN65-LNS2-01510	1.5	4	4.5	10	50
HN65-LNS2-02010	2	4	6	10	50
HN65-LNS2-01006	1	4	3	6	50
HN65-LNS2-01008	1	4	3	8	50
HN65-LNS2-01012	1	4	3	12	50
HN65-LNS2-01016	1	4	3	16	50
HN65-LNS2-01020	1	4	3	20	50
HN65-LNS2-01506	1.5	4	4.5	6	50
HN65-LNS2-01508	1.5	4	4.5	8	50
HN65-LNS2-01512	1.5	4	4.5	12	50
HN65-LNS2-01516	1.5	4	4.5	16	50
HN65-LNS2-01520	1.5	4	4.5	20	50
HN65-LNS2-02008	2	4	6	8	50
HN65-LNS2-02012	2	4	6	12	50
HN65-LNS2-02016	2	4	6	16	50
HN65-LNS2-02020	2	4	6	20	50
HN65-LNS2-02510	2.5	4	7.5	10	50
HN65-LNS2-02512	2.5	4	7.5	12	50
HN65-LNS2-02516	2.5	4	7.5	16	50
HN65-LNS2-02520	2.5	4	7.5	20	50
HN65-LNS2-03012	3	4	9	12	50
HN65-LNS2-03016	3	4	9	16	50
HN65-LNS2-03020	3	4	9	20	50

## CARBIDE LONG NECK SQUARE END MILL 4 FLUTES

## HN65-LNS4

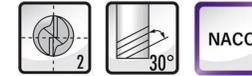
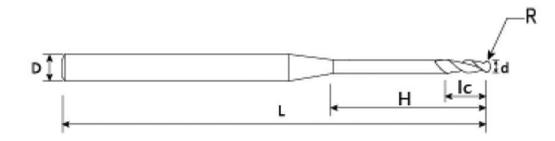


unit:mm

Order NO.	d	D	lc	H	L
HN65-LNS4-01006	1	4	3	6	50
HN65-LNS4-01008	1	4	3	8	50
HN65-LNS4-01010	1	4	3	10	50
HN65-LNS4-01012	1	4	3	12	50
HN65-LNS4-01015	1	4	3	15	50
HN65-LNS4-01020	1	4	3	20	50
HN65-LNS4-01506	1.5	4	4.5	6	50
HN65-LNS4-01508	1.5	4	4.5	8	50
HN65-LNS4-01510	1.5	4	4.5	10	50
HN65-LNS4-01512	1.5	4	4.5	12	50
HN65-LNS4-01515	1.5	4	4.5	15	50
HN65-LNS4-01520	1.5	4	4.5	20	50
HN65-LNS4-02008	2	4	6	8	50
HN65-LNS4-02010	2	4	6	10	50
HN65-LNS4-02012	2	4	6	12	50
HN65-LNS4-02015	2	4	6	15	50
HN65-LNS4-02020	2	4	6	20	50
HN65-LNS4-02510	2.5	4	7.5	10	50
HN65-LNS4-02512	2.5	4	7.5	12	50
HN65-LNS4-02515	2.5	4	7.5	15	50
HN65-LNS4-02520	2.5	4	7.5	20	50
HN65-LNS4-03012	3	4	9	12	50
HN65-LNS4-03015	3	4	9	15	50
HN65-LNS4-03020	3	4	9	20	50
HN65-LNS4-01016	1	4	3	16	50
HN65-LNS4-01516	1.5	4	4.5	16	50
HN65-LNS4-02016	2	4	6	16	50
HN65-LNS4-02516	2.5	4	7.5	16	50
HN65-LNS4-03016	3	4	9	16	50

## CARBIDE LONG NECK CORNER RADIUS END MILL 4 FLUTES

## HN65-LNB2

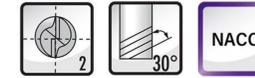
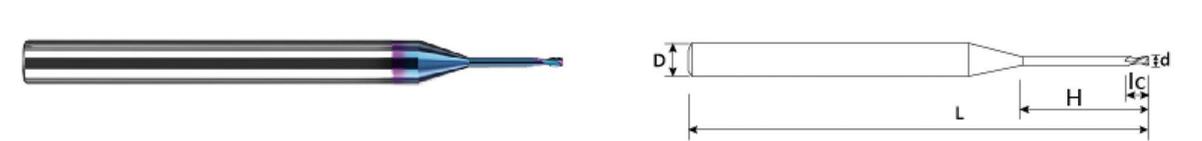


unit:mm

Order NO.	R	d	D	lc	H	L
HN65-LNB2-01006	0.5	1	4	2	6	50
HN65-LNB2-01008	0.5	1	4	2	8	50
HN65-LNB2-01010	0.5	1	4	2	10	50
HN65-LNB2-01012	0.5	1	4	2	12	50
HN65-LNB2-01015	0.5	1	4	2	15	50
HN65-LNB2-01020	0.5	1	4	2	20	50
HN65-LNB2-01506	0.75	1.5	4	3	6	50
HN65-LNB2-01508	0.75	1.5	4	3	8	50
HN65-LNB2-01510	0.75	1.5	4	3	10	50
HN65-LNB2-01512	0.75	1.5	4	3	12	50
HN65-LNB2-01515	0.75	1.5	4	3	15	50
HN65-LNB2-01520	0.75	1.5	4	3	20	50
HN65-LNB2-02008	1	2	4	4	8	50
HN65-LNB2-02010	1	2	4	4	10	50
HN65-LNB2-02012	1	2	4	4	12	50
HN65-LNB2-02015	1	2	4	4	15	50
HN65-LNB2-02020	1	2	4	4	20	50
HN65-LNB2-02510	1.25	2.5	4	5	10	50
HN65-LNB2-02512	1.25	2.5	4	5	12	50
HN65-LNB2-02515	1.25	2.5	4	5	15	50
HN65-LNB2-02520	1.25	2.5	4	5	20	50
HN65-LNB2-03012	1.5	3	4	6	12	50
HN65-LNB2-03020	1.5	3	4	6	20	50
HN65-LNB2-01016	0.5	1	4	2	16	50
HN65-LNB2-01516	0.75	1.5	4	3	16	50
HN65-LNB2-02016	1	2	4	4	16	50
HN65-LNB2-02516	1.25	2.5	4	5	16	50
HN65-LNB2-03016	1.5	3	4	6	16	50

## CARBIDE LONG NECK CORNER RADIUS END MILL 4 FLUTES HN65-LNC4

## CARBIDE MICRO LONG NECK END MILL 2 FLUTES HN65-MLNS2



unit:mm

unit:mm

Order NO.	R	d	D	lc	H	L
HN65-LNC4-01006	0.2	1	4	3	6	50
HN65-LNC4-01008	0.2	1	4	3	8	50
HN65-LNC4-01010	0.2	1	4	3	10	50
HN65-LNC4-01012	0.2	1	4	3	12	50
HN65-LNC4-01015	0.2	1	4	3	15	50
HN65-LNC4-01020	0.2	1	4	3	20	50
HN65-LNC4-01506	0.2	1.5	4	4.5	6	50
HN65-LNC4-01508	0.2	1.5	4	4.5	8	50
HN65-LNC4-01510	0.2	1.5	4	4.5	10	50
HN65-LNC4-01512	0.2	1.5	4	4.5	12	50
HN65-LNC4-01515	0.2	1.5	4	4.5	15	50
HN65-LNC4-01520	0.2	1.5	4	4.5	20	50
HN65-LNC4-02008	0.2	2	4	6	8	50
HN65-LNC4-02010	0.2	2	4	6	10	50
HN65-LNC4-02012	0.2	2	4	6	12	50
HN65-LNC4-02015	0.2	2	4	6	15	50
HN65-LNC4-02020	0.2	2	4	6	20	50
HN65-LNC4-02008X	0.5	2	4	6	8	50
HN65-LNC4-02010X	0.5	2	4	6	10	50
HN65-LNC4-02012X	0.5	2	4	6	12	50
HN65-LNC4-02015X	0.5	2	4	6	15	50
HN65-LNC4-02020X	0.5	2	4	6	20	50
HN65-LNC4-03517	0.2	3.5	4	10.5	17	50

Order NO.	d	D	lc	H	L
HN65-MLNS2-00302	0.3	4	0.6	2	50
HN65-MLNS2-00304	0.3	4	0.6	4	50
HN65-MLNS2-00403	0.4	4	0.8	3	50
HN65-MLNS2-00404	0.4	4	0.8	4	50
HN65-MLNS2-00405	0.4	4	0.8	5	50
HN65-MLNS2-00406	0.4	4	0.8	6	50
HN65-MLNS2-00502	0.5	4	1	2	50
HN65-MLNS2-00503	0.5	4	1	3	50
HN65-MLNS2-00504	0.5	4	1	4	50
HN65-MLNS2-00506	0.5	4	1	6	50
HN65-MLNS2-00508	0.5	4	1	8	50
HN65-MLNS2-00603	0.6	4	1.2	3	50
HN65-MLNS2-00604	0.6	4	1.2	4	50
HN65-MLNS2-00606	0.6	4	1.2	6	50
HN65-MLNS2-00608	0.6	4	1.2	8	50
HN65-MLNS2-00703	0.7	4	1.4	3	50
HN65-MLNS2-00704	0.7	4	1.4	4	50
HN65-MLNS2-00706	0.7	4	1.4	6	50
HN65-MLNS2-00708	0.7	4	1.4	8	50
HN65-MLNS2-00710	0.7	4	1.4	10	50
HN65-MLNS2-00804	0.8	4	1.6	4	50
HN65-MLNS2-00806	0.8	4	1.6	6	50
HN65-MLNS2-00808	0.8	4	1.6	8	50
HN65-MLNS2-00810	0.8	4	1.6	10	50
HN65-MLNS2-00904	0.9	4	1.8	4	50
HN65-MLNS2-00906	0.9	4	1.8	6	50
HN65-MLNS2-00908	0.9	4	1.8	8	50
HN65-MLNS2-00910	0.9	4	1.8	10	50

## CARBIDE MICRO LONG NECK BALL NOSE END MILL 2 FLUTES

## HN65-MLNB2

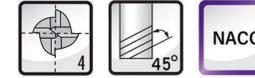


unit:mm

Order NO.	R	d	D	Ic	H	L
HN65-MLNB2-00302	R0.15	0.3	4	0.6	2	50
HN65-MLNB2-00304	R0.15	0.3	4	0.6	4	50
HN65-MLNB2-00403	R0.2	0.4	4	0.8	3	50
HN65-MLNB2-00404	R0.2	0.4	4	0.8	4	50
HN65-MLNB2-00405	R0.2	0.4	4	0.8	5	50
HN65-MLNB2-00406	R0.2	0.4	4	0.8	6	50
HN65-MLNB2-00502	R0.25	0.5	4	1	2	50
HN65-MLNB2-00503	R0.25	0.5	4	1	3	50
HN65-MLNB2-00504	R0.25	0.5	4	1	4	50
HN65-MLNB2-00506	R0.25	0.5	4	1	6	50
HN65-MLNB2-00508	R0.25	0.5	4	1	8	50
HN65-MLNB2-00603	R0.3	0.6	4	1.2	3	50
HN65-MLNB2-00604	R0.3	0.6	4	1.2	4	50
HN65-MLNB2-00606	R0.3	0.6	4	1.2	6	50
HN65-MLNB2-00608	R0.3	0.6	4	1.2	8	50
HN65-MLNB2-00703	R0.35	0.7	4	1.4	3	50
HN65-MLNB2-00704	R0.35	0.7	4	1.4	4	50
HN65-MLNB2-00706	R0.35	0.7	4	1.4	6	50
HN65-MLNB2-00708	R0.35	0.7	4	1.4	8	50
HN65-MLNB2-00710	R0.35	0.7	4	1.4	10	50
HN65-MLNB2-00804	R0.4	0.8	4	1.6	4	50
HN65-MLNB2-00806	R0.4	0.8	4	1.6	6	50
HN65-MLNB2-00808	R0.4	0.8	4	1.6	8	50
HN65-MLNB2-00810	R0.4	0.8	4	1.6	10	50
HN65-MLNB2-00904	R0.45	0.9	4	1.8	4	50
HN65-MLNB2-00906	R0.45	0.9	4	1.8	6	50
HN65-MLNB2-00908	R0.45	0.9	4	1.8	8	50
HN65-MLNB2-00910	R0.45	0.9	4	1.8	10	50

## CARBIDE SQUARE END MILL 4 FLUTES

## HN65-S4



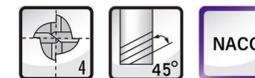
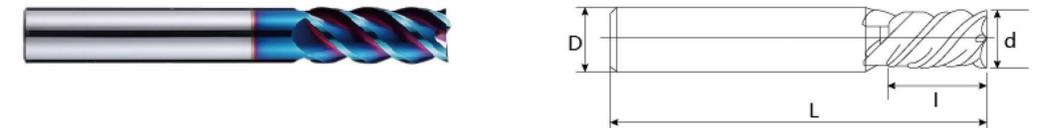
unit:mm

Order NO.	d	D	l	L
HN65-S4-010	1	4	3	50
HN65-S4-015	1.5	4	4	50
HN65-S4-020	2	4	5	50
HN65-S4-025	2.5	4	7	50
HN65-S4-030	3	3	8	50
HN65-S4-031	3	4	8	50
HN65-S4-035	3.5	4	9	50
HN65-S4-040	4	4	10	50
HN65-S4-041	4	6	10	50
HN65-S4-050	5	5	13	50
HN65-S4-051	5	6	13	50
HN65-S4-060	6	6	15	50

Order NO.	d	D	l	L
HN65-S4-071	7	8	21	60
HN65-S4-080	8	8	20	60
HN65-S4-091	9	10	27	75
HN65-S4-100	10	10	25	75
HN65-S4-111	11	12	30	75
HN65-S4-120	12	12	30	75
HN65-S4-131	13	14	45	100
HN65-S4-151	15	16	45	100
HN65-S4-140	14	14	45	100
HN65-S4-160	16	16	45	100
HN65-S4-180	18	18	45	100
HN65-S4-200	20	20	45	100

## CARBIDE SQUARE END MILL 4 FLUTES LONG LENGTH

## HN65-S4-L



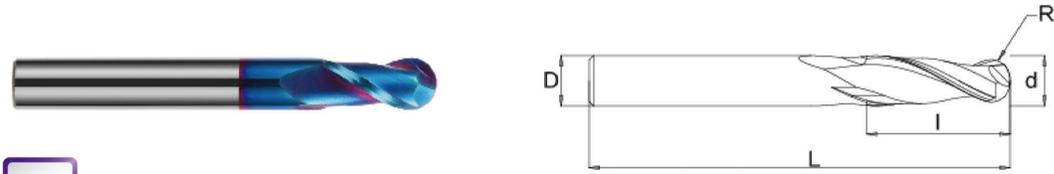
unit:mm

Order NO.	d	D	l	L
HN65-S4-030L	3	3	12	75
HN65-S4-040L	4	4	16	75
HN65-S4-050L	5	5	20	75
HN65-S4-060L	6	6	24	75
HN65-S4-080L	8	8	30	75
HN65-S4-100L	10	10	40	100
HN65-S4-120L	12	12	45	100
HN65-S4-030XL	3	3	15	100
HN65-S4-040XL	4	4	20	100
HN65-S4-050XL	5	5	25	100
HN65-S4-060XL	6	6	30	100

Order NO.	d	D	l	L
HN65-S4-080XL	8	8	35	100
HN65-S4-140L	14	14	75	150
HN65-S4-160L	16	16	75	150
HN65-S4-180L	18	18	75	150
HN65-S4-200L	20	20	80	150
HN65-S4-100XL	10	10	55	150
HN65-S4-120XL	12	12	55	150
HN65-S4-060XXL	6	6	35	150
HN65-S4-080XXL	8	8	40	150
HN65-S4-160XL	16	16	85	200

## CARBIDE BALL NOSE END MILL 2 FLUTES

## HN65-B2

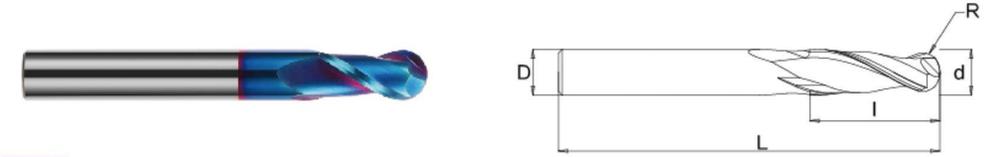


unit:mm

Order NO.	R	d	D	l	L
HN65-B2-010	0.5	1	4	2	50
HN65-B2-015	0.75	1.5	4	3	50
HN65-B2-020	1	2	4	4	50
HN65-B2-025	1.25	2.5	4	5	50
HN65-B2-030	1.5	3	3	6	50
HN65-B2-031	1.5	3	4	6	50
HN65-B2-035	1.75	3.5	4	7	50
HN65-B2-040	2	4	4	8	50
HN65-B2-050	2.5	5	5	10	50
HN65-B2-051	2.5	5	6	10	50
HN65-B2-060	3	6	6	12	50
HN65-B2-080	4	8	8	16	60
HN65-B2-100	5	10	10	20	75
HN65-B2-120	6	12	12	24	75
HN65-B2-140	7	14	14	28	100
HN65-B2-160	8	16	16	32	100
HN65-B2-180	9	18	18	36	100
HN65-B2-200	10	20	20	40	100

## CARBIDE BALL NOSE END MILL 2 FLUTES LONG LENGTH

## HN65-B2-L



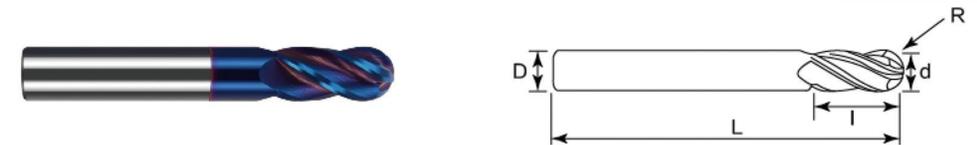
unit:mm

Order NO.	R	d	D	l	L
HN65-B2-030L	1.5	3	3	6	75
HN65-B2-040L	2	4	4	8	75
HN65-B2-050L	2.5	5	5	10	75
HN65-B2-060L	3	6	6	12	75
HN65-B2-080L	4	8	8	16	75
HN65-B2-100L	5	10	10	20	100
HN65-B2-120L	6	12	12	24	100
HN65-B2-030XL	1.5	3	3	6	100
HN65-B2-040XL	2	4	4	8	100
HN65-B2-050XL	2.5	5	5	10	100

Order NO.	R	d	D	l	L
HN65-B2-060XL	3	6	6	12	100
HN65-B2-080XL	4	8	8	16	100
HN65-B2-140L	7	14	14	28	150
HN65-B2-160L	8	16	16	32	150
HN65-B2-180L	9	18	18	36	150
HN65-B2-200L	10	20	20	40	150
HN65-B2-060XXL	3	6	6	12	150
HN65-B2-080XXL	4	8	8	16	150
HN65-B2-100XL	5	10	10	20	150
HN65-B2-120XL	6	12	12	24	150

## CARBIDE BALL NOSE END MILL 4FLUTES

## HN65-B4



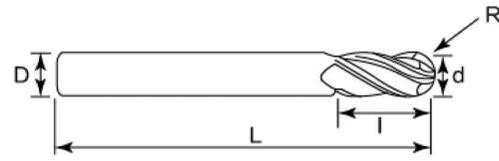
unit:mm

Order NO.	R	d	D	l	L
HN65-B4-010	0.5	1	4	2	50
HN65-B4-015	0.75	1.5	4	3	50
HN65-B4-020	1	2	4	4	50
HN65-B4-025	1.25	2.5	4	5	50
HN65-B4-030	1.5	3	3	6	50
HN65-B4-031	1.5	3	4	6	50
HN65-B4-035	1.75	3.5	4	7	50
HN65-B4-040	2	4	4	8	50
HN65-B4-050	2.5	5	5	10	50

Order NO.	R	d	D	l	L
HN65-B4-051	2.5	5	6	10	50
HN65-B4-060	3	6	6	12	50
HN65-B4-080	4	8	8	16	60
HN65-B4-100	5	10	10	20	75
HN65-B4-120	6	12	12	24	75
HN65-B4-140	7	14	14	28	100
HN65-B4-160	8	16	16	32	100
HN65-B4-180	9	18	18	36	100
HN65-B4-200	10	20	20	40	100

## CARBIDE BALL NOSE END MILL 4 FLUTES LONG LENGTH

## HN65-B4-L

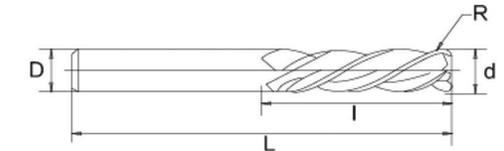


unit:mm

Order NO.	R	d	D	l	L
HN65-B4-030L	1.5	3	3	6	75
HN65-B4-040L	2	4	4	8	75
HN65-B4-050L	2.5	5	5	10	75
HN65-B4-060L	3	6	6	12	75
HN65-B4-080L	4	8	8	16	75
HN65-B4-100L	5	10	10	20	100
HN65-B4-120L	6	12	12	24	100
HN65-B4-030XL	1.5	3	3	6	100
HN65-B4-040XL	2	4	4	8	100
HN65-B4-050XL	2.5	5	5	10	100
HN65-B4-060XL	3	6	6	12	100
HN65-B4-080XL	4	8	8	16	100
HN65-B4-140L	7	14	14	28	150
HN65-B4-160L	8	16	16	32	150
HN65-B4-180L	9	18	18	36	150
HN65-B4-200L	10	20	20	40	150
HN65-B4-060XXL	3	6	6	12	150
HN65-B4-080XXL	4	8	8	16	150
HN65-B4-100XL	5	10	10	20	150
HN65-B4-120XL	6	12	12	24	150

## CARBIDE CORNER RADIUS END MILL 4 FLUTES

## HN65-C4

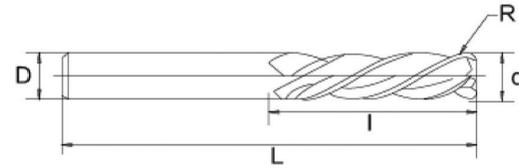


unit:mm

Order NO.	R	d	D	l	L
HN65-C4-0102	0.2	1	4	3	50
HN65-C4-0202	0.2	2	4	5	50
HN65-C4-0205	0.5	2	4	5	50
HN65-C4-0302	0.2	3	3	8	50
HN65-C4-0305	0.5	3	3	8	50
HN65-C4-0310	1	3	3	8	50
HN65-C4-0302X	0.2	3	4	8	50
HN65-C4-0305X	0.5	3	4	8	50
HN65-C4-0310X	1	3	4	8	50
HN65-C4-0402	0.2	4	4	10	50
HN65-C4-0405	0.5	4	4	10	50
HN65-C4-0410	1	4	4	10	50
HN65-C4-0505	0.5	5	5	13	50
HN65-C4-0510	1	5	5	13	50
HN65-C4-0605	0.5	6	6	15	50
HN65-C4-0610	1	6	6	15	50
HN65-C4-0620	2	6	6	15	50
HN65-C4-0805	0.5	8	8	20	60
HN65-C4-0810	1	8	8	20	60
HN65-C4-0820	2	8	8	20	60
HN65-C4-1005	0.5	10	10	25	75
HN65-C4-1010	1	10	10	25	75
HN65-C4-1020	2	10	10	25	75
HN65-C4-1205	0.5	12	12	30	75
HN65-C4-1210	1	12	12	30	75
HN65-C4-1220	2	12	12	30	75
HN65-C4-1405	0.5	14	14	45	100
HN65-C4-1410	1	14	14	45	100
HN65-C4-1605	0.5	16	16	45	100
HN65-C4-1610	1	16	16	45	100
HN65-C4-1805	0.5	18	18	45	100
HN65-C4-1810	1	18	18	45	100
HN65-C4-2005	0.5	20	20	45	100
HN65-C4-2010	1	20	20	45	100

## CARBIDE CORNER RADIUS END MILL 4 FLUTES LONG LENGTH

## HN65-C4-L

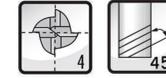
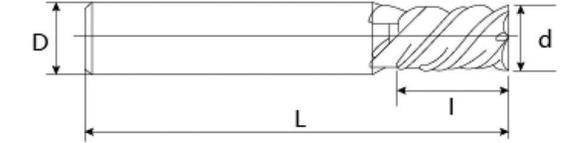


unit:mm

Order NO.	R	d	D	l	L
HN65-C4-0305L	0.5	3	3	12	75
HN65-C4-0310L	1	3	3	12	75
HN65-C4-0405L	0.5	4	4	16	75
HN65-C4-0410L	1	4	4	16	75
HN65-C4-0505L	0.5	5	5	20	75
HN65-C4-0510L	1	5	5	20	75
HN65-C4-0605L	0.5	6	6	24	75
HN65-C4-0610L	1	6	6	24	75
HN65-C4-0805L	0.5	8	8	30	75
HN65-C4-0810L	1	8	8	30	75
HN65-C4-0305XL	0.5	3	3	15	100
HN65-C4-0310XL	1	3	3	15	100
HN65-C4-0405XL	0.5	4	4	20	100
HN65-C4-0410XL	1	4	4	20	100
HN65-C4-0505XL	0.5	5	5	25	100
HN65-C4-0510XL	1	5	5	25	100
HN65-C4-0605XL	0.5	6	6	30	100
HN65-C4-0610XL	1	6	6	30	100
HN65-C4-0805XL	0.5	8	8	35	100
HN65-C4-0810XL	1	8	8	35	100
HN65-C4-1005L	0.5	10	10	40	100
HN65-C4-1010L	1	10	10	40	100
HN65-C4-1205L	0.5	12	12	45	100
HN65-C4-1210L	1	12	12	45	100
HN65-C4-1005XL	0.5	10	10	50	150
HN65-C4-1010XL	1	10	10	50	150
HN65-C4-1205XL	0.5	12	12	50	150
HN65-C4-1210XL	1	12	12	50	150

## GM SERIES CARBIDE SQUARE END MILL 4 FLUTES

## GM-S4



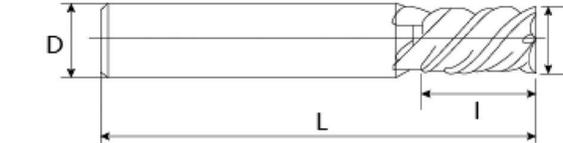
unit:mm

Order NO.	d	D	l	L
GM-S4-010	1	4	3	50
GM-S4-015	1.5	4	4	50
GM-S4-020	2	4	6	50
GM-S4-025	2.5	4	7.5	50
GM-S4-030	3	3	9	50
GM-S4-031	3	4	9	50
GM-S4-040	4	4	12	50
GM-S4-045	4.5	6	12	50

Order NO.	d	D	l	L
GM-S4-050	5	5	15	50
GM-S4-051	5	6	15	50
GM-S4-060	6	6	18	50
GM-S4-071	7	8	24	60
GM-S4-080	8	8	24	60
GM-S4-031L	3	4	12	75
GM-S4-040L	4	4	16	75
GM-S4-051L	5	6	20	75

## GM SERIES CARBIDE SQUARE END MILL 4 FLUTES LONG LENGTH

## GM-S4-L



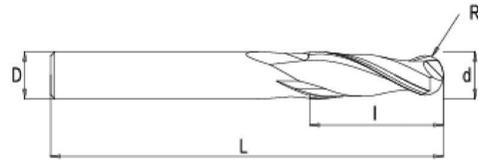
unit:mm

Order NO.	d	D	l	L
GM-S4-060L	6	6	24	75
GM-S4-080L	8	8	30	75
GM-S4-091	9	10	30	75
GM-S4-100	10	10	30	75
GM-S4-111	11	12	30	75
GM-S4-120	12	12	36	75
GM-S4-031XL	3	4	15	100
GM-S4-040XL	4	4	20	100
GM-S4-051XL	5	6	25	100
GM-S4-060XL	6	6	30	100
GM-S4-080XL	8	8	35	100
GM-S4-100L	10	10	40	100
GM-S4-120L	12	12	45	100

Order NO.	d	D	l	L
GM-S4-140L	14	14	45	100
GM-S4-160	16	16	45	100
GM-S4-180	18	18	45	100
GM-S4-200	20	20	45	100
GM-S4-060XXL	6	6	45	150
GM-S4-080XXL	8	8	50	150
GM-S4-100XL	10	10	55	150
GM-S4-120XL	12	12	60	150
GM-S4-140XL	14	14	70	150
GM-S4-160L	16	16	70	150
GM-S4-180L	18	18	70	150
GM-S4-200L	20	20	70	150

## GM SERIES CARBIDE BALL NOSE END MILL 2 FLUTES

## GM-B2



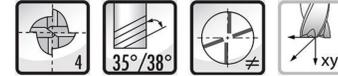
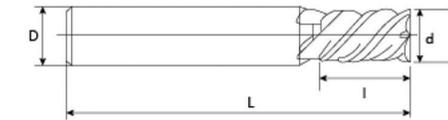
unit:mm

Order NO.	R	d	D	l	L
GM-B2-010	R0.5	1	4	2	50
GM-B2-015	R0.75	1.5	4	3	50
GM-B2-020	R1	2	4	4	50
GM-B2-025	R1.25	2.5	4	5	50
GM-B2-031	R1.5	3	4	6	50
GM-B2-030	R1.5	3	3	6	50
GM-B2-040	R2	4	4	8	50
GM-B2-051	R2.5	5	6	10	50
GM-B2-050	R2.5	5	5	10	50
GM-B2-060	R3	6	6	12	50
GM-B2-080	R4	8	8	16	60
GM-B2-100	R5	10	10	20	75
GM-B2-120	R6	12	12	24	75
GM-B2-140	R7	14	14	28	100
GM-B2-160	R8	16	16	32	100
GM-B2-200	R10	20	20	40	100
GM-B2-031L	R1.5	3	4	6	75
GM-B2-031XL	R1.5	3	4	6	100

Order NO.	R	d	D	l	L
GM-B2-040L	R2	4	4	8	75
GM-B2-040XL	R2	4	4	8	100
GM-B2-051L	R2.5	5	6	10	75
GM-B2-051XL	R2.5	5	6	10	100
GM-B2-060L	R3	6	6	12	75
GM-B2-060XL	R3	6	6	12	100
GM-B2-080L	R4	8	8	16	75
GM-B2-080XL	R4	8	8	16	100
GM-B2-100L	R5	10	10	20	100
GM-B2-120L	R6	12	12	24	100
GM-B2-060XXL	R3	6	6	12	150
GM-B2-080XXL	R4	8	8	16	150
GM-B2-100XL	R5	10	10	20	150
GM-B2-120XL	R6	12	12	24	150
GM-B2-140XL	R7	25	14	28	150
GM-B2-160XL	R8	16	16	32	150
GM-B2-200XL	R10	10	20	40	150

## CARBIDE SQUARE UNEQUAL MILLING CUTTER FOR STAINLESS STEEL 4FLUTES

## HN60-VS4



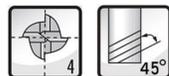
unit:mm

Order NO.	d	l	D	L
HN60-VS4-010	1	3	4	50
HN60-VS4-015	1.5	4	4	50
HN60-VS4-020	2	5	4	50
HN60-VS4-025	2.5	7	4	50
HN60-VS4-030	3	8	4	50
HN60-VS4-031	3	8	4	50
HN60-VS4-040	4	10	4	50
HN60-VS4-050	5	13	5	50
HN60-VS4-051	5	13	6	50
HN60-VS4-060	6	15	6	50
HN60-VS4-080	8	20	8	60
HN60-VS4-100	10	25	10	75
HN60-VS4-120	12	30	12	75
HN60-VS4-140	14	45	14	100
HN60-VS4-160	16	45	16	100
HN60-VS4-180	18	45	18	100
HN60-VS4-200	20	45	20	100
HN60-VS4-030L	3	12	3	75

Order NO.	d	l	D	L
HN60-VS4-040L	4	16	4	75
HN60-VS4-040XL	4	20	4	100
HN60-VS4-050L	5	20	5	75
HN60-VS4-050XL	5	25	5	100
HN60-VS4-060L	6	24	6	75
HN60-VS4-060XL	6	30	6	100
HN60-VS4-080L	8	30	8	75
HN60-VS4-080XL	8	35	8	100
HN60-VS4-080XXL	8	50	8	150
HN60-VS4-100L	10	40	10	100
HN60-VS4-100XL	10	60	10	150
HN60-VS4-120L	12	45	12	100
HN60-VS4-120XL	12	60	12	150
HN60-VS4-140L	14	70	14	150
HN60-VS4-160L	16	75	16	150
HN60-VS4-180L	18	75	18	150
HN60-VS4-200L	20	75	20	150

## GM SERIES CARBIDE CORNER RADIUS END MILL 4 FLUTES

## GM-C4



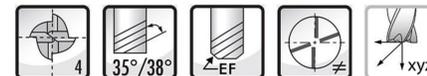
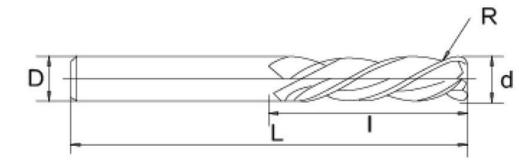
unit:mm

Order NO.	R	d	D	l	L
GM-C4-0102	0.2	1	4	3	50
GM-C4-01502	0.2	1.5	4	4.5	50
GM-C4-01505	0.5	1.5	4	4.5	50
GM-C4-0202	0.2	2	4	6	50
GM-C4-0205	0.5	2	4	6	50
GM-C4-0252	0.2	2.5	4	7	50
GM-C4-0302X	0.2	3	4	8	50
GM-C4-0305X	0.5	3	4	8	50
GM-C4-0402	0.2	4	4	10	50
GM-C4-0405	0.5	4	4	10	50
GM-C4-0410	1	4	4	10	50
GM-C4-0505	0.5	5	6	13	50
GM-C4-0510	1	5	6	13	50
GM-C4-0602	0.2	6	6	15	50
GM-C4-0605	0.5	6	6	15	50
GM-C4-0610	1	6	6	15	50
GM-C4-0802	0.2	8	8	20	60
GM-C4-0805	0.5	8	8	20	60
GM-C4-0810	1	8	8	20	60
GM-C4-0820	2	8	8	20	60
GM-C4-1005	0.5	10	10	25	75

Order NO.	R	d	D	l	L
GM-C4-1010	1	10	10	25	75
GM-C4-1020	2	10	10	25	75
GM-C4-1205	0.5	12	12	30	75
GM-C4-1210	1	12	12	30	75
GM-C4-1220	2	12	12	30	75
GM-C4-1230	3	12	12	30	75
GM-C4-0405L	0.5	4	4	15	75
GM-C4-0605L	0.5	6	6	20	75
GM-C4-0610L	1	6	6	20	75
GM-C4-0805L	0.5	8	8	25	75
GM-C4-0810L	1	8	8	25	75
GM-C4-0405XL	0.5	4	4	16	100
GM-C4-0605XL	0.5	6	6	25	100
GM-C4-0610XL	1	6	6	25	100
GM-C4-0805XL	0.5	8	8	30	100
GM-C4-0810XL	1	8	8	30	100
GM-C4-1005L	0.5	10	10	40	100
GM-C4-1010L	1	10	10	40	100
GM-C4-1205L	0.5	12	12	40	100
GM-C4-1210L	1	12	12	40	100

## CARBIDE CORNER RADIUS UNEQUAL END MILL FOR STAINLESS STEEL 4FLUTES

## HN60-VCS4



unit:mm

Order NO.	R	d	l	D	L
HN60-VCS4-0102	0.2	1	3	4	50
HN60-VCS4-01502	0.2	1.5	4	4	50
HN60-VCS4-0202	0.2	2	6	4	50
HN60-VCS4-0205	0.5	2	6	4	50
HN60-VCS4-0302	0.2	3	8	4	50
HN60-VCS4-0305	0.5	3	8	4	50
HN60-VCS4-0310	1	3	8	4	50
HN60-VCS4-0402	0.2	4	10	4	50
HN60-VCS4-0405	0.5	4	10	4	50
HN60-VCS4-0410	1	4	10	4	50
HN60-VCS4-0505	0.5	5	13	6	50
HN60-VCS4-0510	1	5	13	6	50
HN60-VCS4-0602	0.2	6	15	6	50
HN60-VCS4-0605	0.5	6	15	6	50
HN60-VCS4-0610	1	6	15	6	50
HN60-VCS4-0805	0.5	8	20	8	60
HN60-VCS4-0810	1	8	20	8	60
HN60-VCS4-0820	2	8	20	8	60

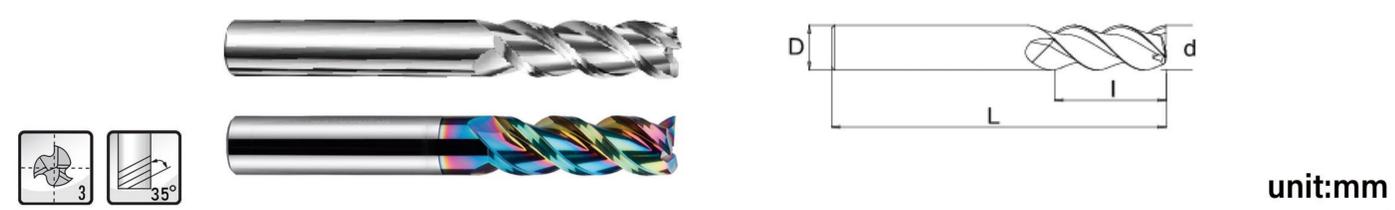
Order NO.	R	d	l	D	L
HN60-VCS4-1005	0.5	10	25	10	75
HN60-VCS4-1010	1	10	25	10	75
HN60-VCS4-1020	2	10	25	10	75
HN60-VCS4-1205	0.5	12	30	12	75
HN60-VCS4-1210	1	12	30	12	75
HN60-VCS4-1220	2	12	30	12	75
HN60-VCS4-0605L	0.5	6	20	6	75
HN60-VCS4-0610L	1	6	20	6	75
HN60-VCS4-0605XL	0.5	6	25	6	100
HN60-VCS4-0610XL	1	6	25	6	100
HN60-VCS4-0805L	0.5	8	25	8	75
HN60-VCS4-0810L	1	8	25	8	75
HN60-VCS4-0805XL	0.5	8	30	8	100
HN60-VCS4-0810XL	1	8	30	8	100
HN60-VCS4-1205L	0.5	12	45	12	100
HN60-VCS4-1210L	1	12	45	12	100
HN60-VCS4-1005L	0.5	10	40	10	100
HN60-VCS4-1010L	1	10	40	10	100

## CARBIDE SQUARE END MILL FOR ALUMINUM 3 FLUTES **HN55-A3**



Order NO.	d	D	l	L	Order NO.	d	D	l	L
HN55-A3-010	1	4	3	50	HN55-A3-010-C	1	4	3	50
HN55-A3-015	1.5	4	4.5	50	HN55-A3-015-C	1.5	4	4.5	50
HN55-A3-020	2	4	6	50	HN55-A3-020-C	2	4	6	50
HN55-A3-025	2.5	4	7.5	50	HN55-A3-025-C	2.5	4	7.5	50
HN55-A3-030	3	3	9	50	HN55-A3-030-C	3	3	9	50
HN55-A3-031	3	4	9	50	HN55-A3-031-C	3	4	9	50
HN55-A3-035	3.5	4	10	50	HN55-A3-035-C	3.5	4	10	50
HN55-A3-040	4	4	12	50	HN55-A3-040-C	4	4	12	50
HN55-A3-050	5	5	15	50	HN55-A3-050-C	5	5	15	50
HN55-A3-051	5	6	15	50	HN55-A3-051-C	5	6	15	50
HN55-A3-060	6	6	18	50	HN55-A3-060-C	6	6	18	50
HN55-A3-080	8	8	24	60	HN55-A3-080-C	8	8	24	60
HN55-A3-100	10	10	30	75	HN55-A3-100-C	10	10	30	75
HN55-A3-120	12	12	35	75	HN55-A3-120-C	12	12	35	75
HN55-A3-140	14	14	45	100	HN55-A3-140-C	14	14	45	100
HN55-A3-160	16	16	45	100	HN55-A3-160-C	16	16	45	100
HN55-A3-180	18	18	45	100	HN55-A3-180-C	18	18	45	100
HN55-A3-200	20	20	45	100	HN55-A3-200-C	20	20	45	100

## CARBIDE SQUARE END MILL FOR ALUMINUM 3 FLUTES OVERLONG LENGTH **HN55-A3-200L**



Order NO.	d	D	l	L
HN55-A3-080XXXL	8	8	50	200
HN55-A3-100XXL	10	10	55	200
HN55-A3-120XXL	12	12	60	200
HN55-A3-140XL	14	14	70	200
HN55-A3-160XL	16	16	70	200
HN55-A3-200XL	20	20	70	200

## CARBIDE SQUARE END MILL FOR ALUMINUM 3 FLUTES LONG LENGTH **HN55-A3-L**



Order NO.	d	D	l	L	Order NO.	d	D	l	L
HN55-A3-030L	3	3	12	75	HN55-A3-030L-C	3	3	12	75
HN55-A3-040L	4	4	16	75	HN55-A3-040L-C	4	4	16	75
HN55-A3-050L	5	5	20	75	HN55-A3-050L-C	5	5	20	75
HN55-A3-060L	6	6	24	75	HN55-A3-060L-C	6	6	24	75
HN55-A3-080L	8	8	30	75	HN55-A3-080L-C	8	8	30	75
HN55-A3-100L	10	10	40	100	HN55-A3-100L-C	10	10	40	100
HN55-A3-120L	12	12	45	100	HN55-A3-120L-C	12	12	45	100
HN55-A3-030XL	3	3	15	100	HN55-A3-030XL-C	3	3	15	100
HN55-A3-040XL	4	4	20	100	HN55-A3-040XL-C	4	4	20	100
HN55-A3-050XL	5	5	25	100	HN55-A3-050XL-C	5	5	25	100
HN55-A3-060XL	6	6	30	100	HN55-A3-060XL-C	6	6	30	100
HN55-A3-080XL	8	8	35	100	HN55-A3-080XL-C	8	8	35	100
HN55-A3-100XL	10	10	50	150	HN55-A3-100XL-C	10	10	50	150
HN55-A3-120XL	12	12	55	150	HN55-A3-120XL-C	12	12	55	150
HN55-A3-060XXL	6	6	35	150	HN55-A3-060XXL-C	6	6	35	150
HN55-A3-080XXL	8	8	40	150	HN55-A3-080XXL-C	8	8	40	150
HN55-A3-140L	14	14	65	150	HN55-A3-140L-C	14	14	65	150
HN55-A3-160L	16	16	70	150	HN55-A3-160L-C	16	16	70	150
HN55-A3-180L	18	18	70	150	HN55-A3-180L-C	18	18	70	150
HN55-A3-200L	20	20	70	150	HN55-A3-200L-C	20	20	70	150

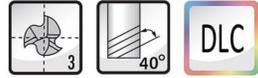
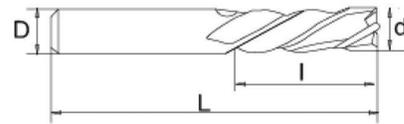
## CARBIDE SQUARE U-GROOVE HIGH GLOSS END MILL FOR ALUMINUM 3 FLUTES **HN55-UA3**



Order NO.	d	D	l	L	Order NO.	d	D	l	L
HN55-UA3-010	1	4	3	50	HN55-UA3-010-C	1	4	3	50
HN55-UA3-015	1.5	4	4	50	HN55-UA3-015-C	1.5	4	4	50
HN55-UA3-020	2	4	6	50	HN55-UA3-020-C	2	4	6	50
HN55-UA3-025	2.5	4	7.5	50	HN55-UA3-025-C	2.5	4	7.5	50
HN55-UA3-031	3	4	9	50	HN55-UA3-031-C	3	4	9	50
HN55-UA3-040	4	4	12	50	HN55-UA3-040-C	4	4	12	50
HN55-UA3-050	5	5	15	50	HN55-UA3-050-C	5	5	15	50
HN55-UA3-051	5	6	15	50	HN55-UA3-051-C	5	6	15	50
HN55-UA3-060	6	6	18	50	HN55-UA3-060-C	6	6	18	50
HN55-UA3-080	8	8	24	60	HN55-UA3-080-C	8	8	24	60
HN55-UA3-100	10	10	30	75	HN55-UA3-100-C	10	10	30	75
HN55-UA3-120	12	12	35	75	HN55-UA3-120-C	12	12	35	75
HN55-UA3-140	14	14	45	100	HN55-UA3-140-C	14	14	45	100
HN55-UA3-160	16	16	45	100	HN55-UA3-160-C	16	16	45	100
HN55-UA3-180	18	18	45	100	HN55-UA3-180-C	18	18	45	100
HN55-UA3-200	20	20	45	100	HN55-UA3-200-C	20	20	45	100
HN55-UA3-100L	10	10	40	100	HN55-UA3-100L-C	10	10	40	100
HN55-UA3-120L	12	12	45	100	HN55-UA3-120L-C	12	12	45	100

CARBIDE SQUARE U-GROOVE HIGH GLOSS END MILL FOR ALUMINUM 3FLUTES LONG LENGTH

## HN55-UA3-L

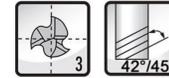
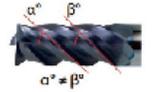
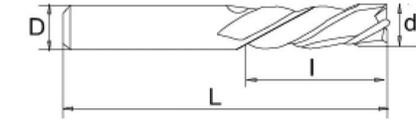


unit:mm

Order NO.	d	D	l	L	Order NO.	d	D	l	L
HN55-UA3-030L	3	3	12	75	HN55-UA3-030L-C	3	3	12	75
HN55-UA3-030XL	3	3	15	100	HN55-UA3-030XL-C	3	3	15	100
HN55-UA3-040L	4	4	16	75	HN55-UA3-040L-C	4	4	16	75
HN55-UA3-040XL	4	4	20	100	HN55-UA3-040XL-C	4	4	20	100
HN55-UA3-050L	5	5	20	75	HN55-UA3-050L-C	5	5	20	75
HN55-UA3-050XL	5	5	25	100	HN55-UA3-050XL-C	5	5	25	100
HN55-UA3-060L	6	6	24	75	HN55-UA3-060L-C	6	6	24	75
HN55-UA3-060XL	6	6	30	100	HN55-UA3-060XL-C	6	6	30	100
HN55-UA3-080L	8	8	30	75	HN55-UA3-080L-C	8	8	30	75
HN55-UA3-080XL	8	8	35	100	HN55-UA3-080XL-C	8	8	35	100
HN55-UA3-100XL	10	10	60	150	HN55-UA3-100XL-C	10	10	60	150
HN55-UA3-120XL	12	12	60	150	HN55-UA3-120XL-C	12	12	60	150
HN55-UA3-140XL	14	14	75	150	HN55-UA3-140XL-C	14	14	75	150
HN55-UA3-160XL	16	16	75	150	HN55-UA3-160XL-C	16	16	75	150
HN55-UA3-180XL	18	18	75	150	HN55-UA3-180XL-C	18	18	75	150
HN55-UA3-200L	20	20	75	150	HN55-UA3-200L-C	20	20	75	150

CARBIDE SQUARE UNEQUAL END MILL FOR ALUMINUM 3 FLUTES WITH DLC COATING

## HN60-VA3-C

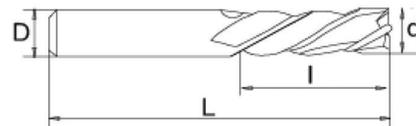


unit:mm

Order NO.	d	D	l	L
HN60-VA3-031-C	3	4	8	50
HN60-VA3-041-C	4	6	10	50
HN60-VA3-051-C	5	6	13	50
HN60-VA3-060-C	6	6	15	50
HN60-VA3-080-C	8	8	20	60
HN60-VA3-100-C	10	10	25	75
HN60-VA3-120-C	12	12	30	75
HN60-VA3-160-C	16	16	40	100
HN60-VA3-200-C	20	20	40	100

CARBIDE SQUARE UNEQUAL END MILL FOR ALUMINUM 3 FLUTES

## HN60-VA3

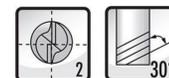
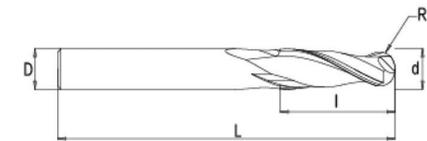


unit:mm

Order NO.	d	D	l	L
HN60-VA3-030	3	3	8	50
HN60-VA3-031	3	4	8	50
HN60-VA3-041	4	6	8	50
HN60-VA3-050	5	5	13	50
HN60-VA3-051	5	6	13	50
HN60-VA3-060	6	6	15	50
HN60-VA3-080	8	8	20	60
HN60-VA3-100	10	10	25	75
HN60-VA3-120	12	12	30	75
HN60-VA3-140	14	14	40	100
HN60-VA3-160	16	16	40	100
HN60-VA3-200	20	20	40	100
HN60-VA3-040L	4	4	12	75
HN60-VA3-040XL	4	4	15	100
HN60-VA3-060L	6	6	20	75
HN60-VA3-060XL	6	6	25	100
HN60-VA3-080L	8	8	25	75
HN60-VA3-080XL	8	8	30	100
HN60-VA3-100L	10	10	40	100
HN60-VA3-120L	12	12	40	100

CARBIDE BALL NOSE END MILL FOR ALUMINUM WITH DLC COATING

## HN55-BA2-C



unit:mm

Order NO.	R	d	D	l	L	Order NO.	R	d	D	l	L
HN55-BA2-010-C	0.5	1	4	2	50	HN55-BA2-051-C	2.5	5	6	10	50
HN55-BA2-015-C	0.75	1.5	4	3	50	HN55-BA2-060-C	3	6	6	12	50
HN55-BA2-020-C	1	2	4	4	50	HN55-BA2-080-C	4	8	8	16	60
HN55-BA2-025-C	1.25	2.5	4	5	50	HN55-BA2-100-C	5	10	10	20	75
HN55-BA2-030-C	1.5	3	3	6	50	HN55-BA2-120-C	6	12	12	24	75
HN55-BA2-031-C	1.5	3	4	6	50	HN55-BA2-140-C	7	14	14	28	100
HN55-BA2-035-C	1.75	3.5	4	7	50	HN55-BA2-160-C	8	16	16	32	100
HN55-BA2-040-C	2	4	4	8	50	HN55-BA2-180-C	9	18	18	36	100
HN55-BA2-050-C	2.5	5	5	10	50	HN55-BA2-200-C	10	20	20	40	100

CARBIDE BALL NOSE END MILL FOR ALUMINUM LONG LENGTH WITH DLC COATING

**HN55-BA2-L-C**

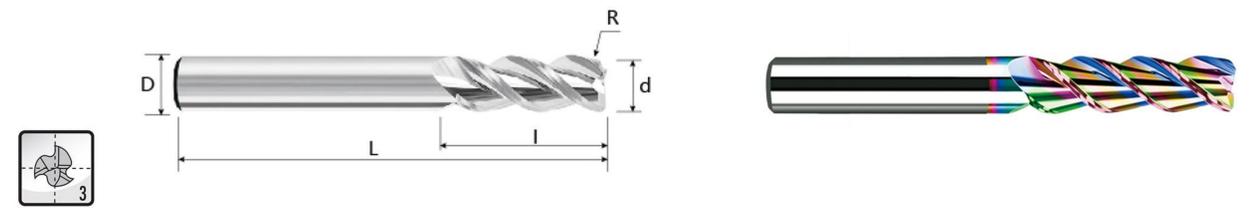


unit:mm

Order NO.	R	d	D	l	L
HN55-BA2-030L-C	1.5	3	3	6	75
HN55-BA2-030XL-C	1.5	3	3	6	100
HN55-BA2-040L-C	2	4	4	8	75
HN55-BA2-040XL-C	2	4	4	8	100
HN55-BA2-050L-C	2.5	5	5	10	75
HN55-BA2-050XL-C	2.5	5	5	10	100
HN55-BA2-060L-C	3	6	6	12	75
HN55-BA2-060XL-C	3	6	6	12	100
HN55-BA2-060XXL-C	3	6	6	12	150
HN55-BA2-080L-C	4	8	8	16	75
HN55-BA2-080XL-C	4	8	8	16	100
HN55-BA2-080XXL-C	4	8	8	16	150
HN55-BA2-100L-C	5	10	10	20	100
HN55-BA2-100XL-C	5	10	10	20	150
HN55-BA2-120L-C	6	12	12	24	100
HN55-BA2-120XL-C	6	12	12	24	150
HN55-BA2-140L-C	7	14	14	28	150
HN55-BA2-160L-C	8	16	16	32	150
HN55-BA2-180L-C	9	18	18	36	150
HN55-BA2-200L-C	10	20	20	40	150

CARBIDE CORNER RADIUS END MILL FOR ALUMINUM 3 FLUTES

**HN55-CRA3**

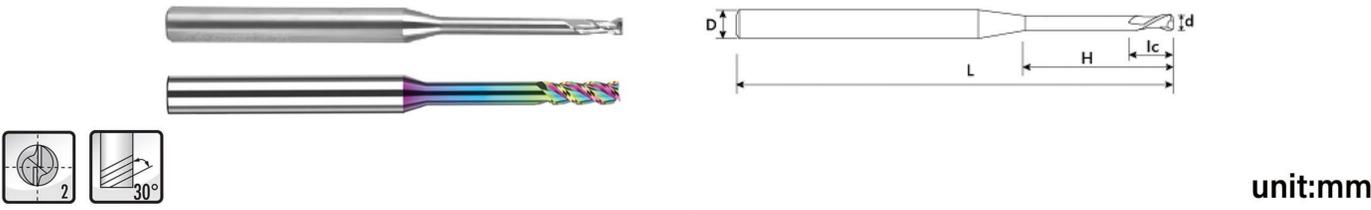


unit:mm

Order NO.	R	d	D	l	L
HN55-CRA3-0102	R0.2	1	4	3	50
HN55-CRA3-01502	R0.2	1.5	4	4.5	50
HN55-CRA3-0202	R0.2	2	4	6	50
HN55-CRA3-0205	R0.5	2	4	6	50
HN55-CRA3-0305	R0.5	3	3	9	50
HN55-CRA3-0310	R1.0	3	3	9	50
HN55-CRA3-0302X	R0.2	3	4	9	50
HN55-CRA3-0305X	R0.5	3	4	9	50
HN55-CRA3-0310X	R1.0	3	4	9	50
HN55-CRA3-0402	R0.2	4	4	10	50
HN55-CRA3-0405	R0.5	4	4	10	50
HN55-CRA3-0410	R1.0	4	4	10	50
HN55-CRA3-0505	R0.5	5	5	13	50
HN55-CRA3-0510	R1.0	5	5	13	50
HN55-CRA3-0505X	R0.5	5	6	13	50
HN55-CRA3-0510X	R1.0	5	6	13	50
HN55-CRA3-0605	R0.5	6	6	15	50
HN55-CRA3-0610	R1.0	6	6	15	50
HN55-CRA3-0805	R0.5	8	8	20	60
HN55-CRA3-0810	R1.0	8	8	20	60
HN55-CRA3-1005	R0.5	10	10	25	75
HN55-CRA3-1010	R1.0	10	10	25	75
HN55-CRA3-1205	R0.5	12	12	30	75
HN55-CRA3-1210	R1.0	12	12	30	75

Order NO.	R	d	D	l	L
HN55-CRA3-0305L	R0.5	3	3	12	75
HN55-CRA3-0310L	R1.0	3	3	12	75
HN55-CRA3-0405L	R0.5	4	4	16	75
HN55-CRA3-0410L	R1.0	4	4	14	75
HN55-CRA3-0505L	R0.5	5	5	15	75
HN55-CRA3-0510L	R1.0	5	5	15	75
HN55-CRA3-0605L	R0.5	6	6	20	75
HN55-CRA3-0610L	R1.0	6	6	20	75
HN55-CRA3-0805L	R0.5	8	8	25	75
HN55-CRA3-0810L	R1.0	8	8	25	75
HN55-CRA3-0305XL	R0.5	3	3	15	100
HN55-CRA3-0310XL	R1.0	3	3	15	100
HN55-CRA3-0405XL	R0.5	4	4	20	100
HN55-CRA3-0410XL	R1.0	4	4	15	100
HN55-CRA3-0505XL	R0.5	5	5	18	100
HN55-CRA3-0510XL	R1.0	5	5	18	100
HN55-CRA3-0605XL	R0.5	6	6	25	100
HN55-CRA3-0610XL	R1.0	6	6	25	100
HN55-CRA3-0805XL	R0.5	8	8	30	100
HN55-CRA3-0810XL	R1.0	8	8	30	100
HN55-CRA3-1005L	R0.5	10	10	30	100
HN55-CRA3-1010L	R1.0	10	10	40	100
HN55-CRA3-1205L	R0.5	12	12	35	100
HN55-CRA3-1210L	R1.0	12	12	35	100

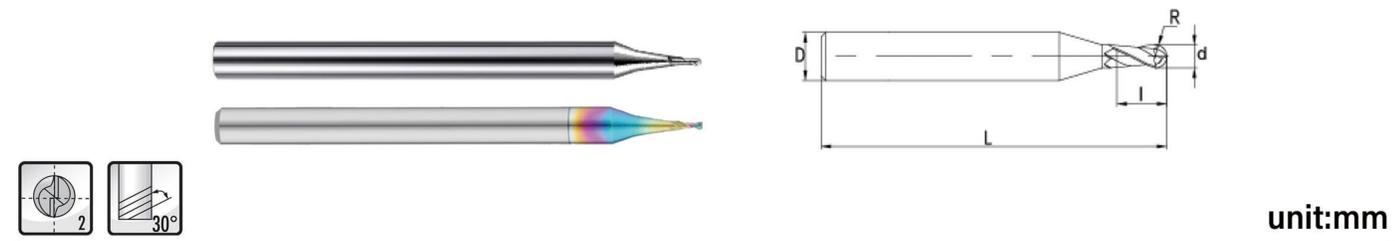
## CARBIDE LONG NECK SQUARE END MILL FOR ALUMINUM 3FLUTES HN55-LNA3



Order NO.	d	D	H	L	Order NO.	d	D	H	L
HN55-LNA3-01004	1	4	4	50	HN55-LNA3-01004-C	1	4	4	50
HN55-LNA3-01005	1	4	5	50	HN55-LNA3-01005-C	1	4	5	50
HN55-LNA3-01006	1	4	6	50	HN55-LNA3-01006-C	1	4	6	50
HN55-LNA3-01008	1	4	8	50	HN55-LNA3-01008-C	1	4	8	50
HN55-LNA3-01010	1	4	10	50	HN55-LNA3-01010-C	1	4	10	50
HN55-LNA3-01012	1	4	12	50	HN55-LNA3-01012-C	1	4	12	50
HN55-LNA3-01015	1	4	15	50	HN55-LNA3-01015-C	1	4	15	50
HN55-LNA3-01020	1	4	20	50	HN55-LNA3-01020-C	1	4	20	50
HN55-LNA3-01506	1.5	4	6	50	HN55-LNA3-01506-C	1.5	4	6	50
HN55-LNA3-01508	1.5	4	8	50	HN55-LNA3-01508-C	1.5	4	8	50
HN55-LNA3-01510	1.5	4	10	50	HN55-LNA3-01510-C	1.5	4	10	50
HN55-LNA3-01512	1.5	4	12	50	HN55-LNA3-01512-C	1.5	4	12	50
HN55-LNA3-01515	1.5	4	15	50	HN55-LNA3-01515-C	1.5	4	15	50
HN55-LNA3-01520	1.5	4	20	50	HN55-LNA3-01520-C	1.5	4	20	50
HN55-LNA3-02008	2	4	8	50	HN55-LNA3-02008-C	2	4	8	50
HN55-LNA3-02010	2	4	10	50	HN55-LNA3-02010-C	2	4	10	50
HN55-LNA3-02012	2	4	12	50	HN55-LNA3-02012-C	2	4	12	50
HN55-LNA3-02015	2	4	15	50	HN55-LNA3-02015-C	2	4	15	50
HN55-LNA3-02020	2	4	20	50	HN55-LNA3-02020-C	2	4	20	50
HN55-LNA3-02510	2.5	4	10	50	HN55-LNA3-02510-C	2.5	4	10	50
HN55-LNA3-02512	2.5	4	12	50	HN55-LNA3-02512-C	2.5	4	12	50
HN55-LNA3-02515	2.5	4	15	50	HN55-LNA3-02515-C	2.5	4	15	50
HN55-LNA3-02520	2.5	4	20	50	HN55-LNA3-02520-C	2.5	4	20	50
HN55-LNA3-03012	3	4	12	50	HN55-LNA3-03012-C	3	4	12	50
HN55-LNA3-03015	3	4	15	50	HN55-LNA3-03016-C	3	4	15	50
HN55-LNA3-03020	3	4	20	50	HN55-LNA3-03020-C	3	4	20	50

unit:mm

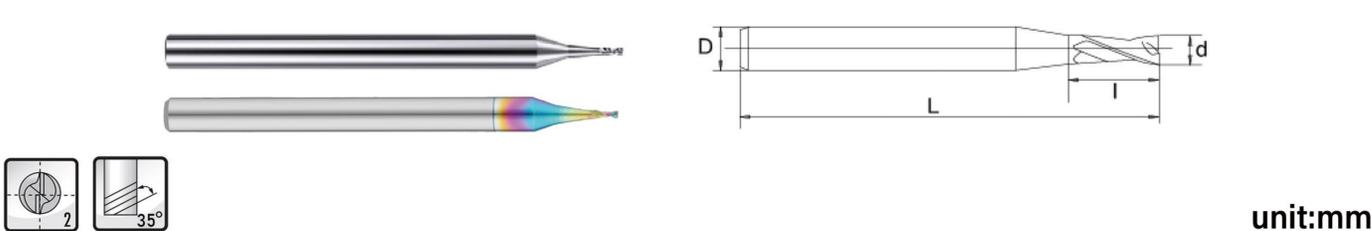
## MIRCO BALL NOSE END MILL FOR ALUMINUM 2 FLUTES HN55-MBA2



Order NO.	R	d	D	l	L
HN55-MBA2-002	0.1	0.2	4	0.4	50
HN55-MBA2-003	0.15	0.3	4	0.6	50
HN55-MBA2-004	0.2	0.4	4	0.8	50
HN55-MBA2-005	0.25	0.5	4	1	50
HN55-MBA2-006	0.3	0.6	4	1.2	50
HN55-MBA2-007	0.35	0.7	4	1.4	50
HN55-MBA2-008	0.4	0.8	4	1.6	50
HN55-MBA2-009	0.45	0.9	4	1.8	50

unit:mm

## MIRCO SQUARE END MILL FOR ALUMINUM 2 FLUTES HN55-MSA2



Order NO.	d	D	l	L	Order NO.	d	D	l	L
HN55-MSA2-002	0.2	4	0.4	50	HN55-MSA2-006	0.6	4	1.2	50
HN55-MSA2-003	0.3	4	0.6	50	HN55-MSA2-007	0.7	4	1.4	50
HN55-MSA2-004	0.4	4	0.8	50	HN55-MSA2-008	0.8	4	1.6	50
HN55-MSA2-005	0.5	4	1	50	HN55-MSA2-009	0.9	4	1.8	50

unit:mm

## CARBIDE ROUGHING END MILL FOR ALUMINUM 3FLUTES WITH DLC COATING HN55-RA3-C

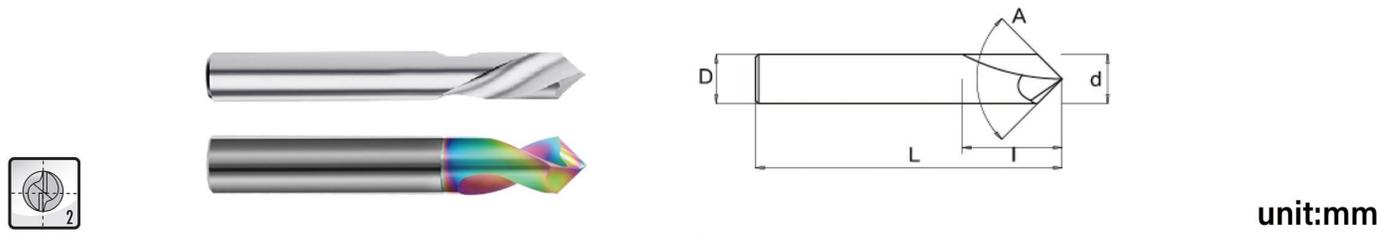


Order NO.	d	D	l	L	Order NO.	d	D	l	L
HN55-RA3-040-C	4	4	12	50	HN55-RA3-180-C	18	18	45	100
HN55-RA3-050-C	5	5	15	50	HN55-RA3-200-C	20	20	45	100
HN55-RA3-060-C	6	6	18	50	HN55-RA3-060XL-C	6	6	30	100
HN55-RA3-080-C	8	8	24	60	HN55-RA3-080XL-C	8	8	35	100
HN55-RA3-060L-C	6	6	24	75	HN55-RA3-100L-C	10	10	45	100
HN55-RA3-080L-C	8	8	30	75	HN55-RA3-120L-C	12	12	45	100
HN55-RA3-100-C	10	10	30	75	HN55-RA3-100XL-C	10	10	60	150
HN55-RA3-120-C	12	12	36	75	HN55-RA3-120XL-C	12	12	60	150
HN55-RA3-140-C	14	14	45	100	HN55-RA3-160L-C	16	16	75	150
HN55-RA3-160-C	16	16	45	100	HN55-RA3-200L-C	20	20	75	150

unit:mm

## CARBIDE SPOT DRILL FOR ALUMINUM 2 FLUTES

## HN55-SDA2



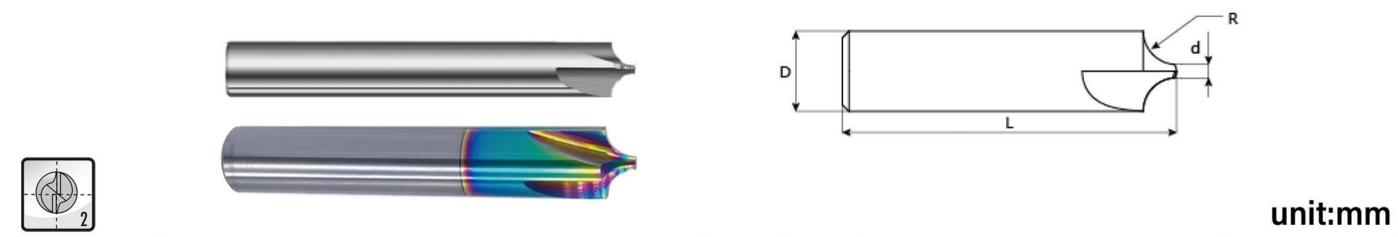
unit:mm

Order NO.	d	D	l	L
HN55-SDA2-030	3	3	8	50
HN55-SDA2-040	4	4	8	50
HN55-SDA2-060	6	6	12	50
HN55-SDA2-080	8	8	16	60
HN55-SDA2-100	10	10	20	75
HN55-SDA2-120	12	12	24	75
HN55-SDA2-140	14	14	45	100
HN55-SDA2-160	16	16	45	100
HN55-SDA2-180	18	18	45	100
HN55-SDA2-200	20	20	45	100
HN55-SDA2-100L	10	10	40	100
HN55-SDA2-120L	12	12	40	100
HN55-SDA2-040XL	4	4	16	100
HN55-SDA2-060XL	6	6	24	100
HN55-SDA2-080XL	8	8	32	100

Order NO.	d	D	l	L
HN55-SDA2-030-C	3	3	8	50
HN55-SDA2-040-C	4	4	8	50
HN55-SDA2-060-C	6	6	12	50
HN55-SDA2-080-C	8	8	16	60
HN55-SDA2-100-C	10	10	20	75
HN55-SDA2-120-C	12	12	24	75
HN55-SDA2-140-C	14	14	45	100
HN55-SDA2-160-C	16	16	45	100
HN55-SDA2-180-C	18	18	45	100
HN55-SDA2-200-C	20	20	45	100
HN55-SDA2-100L-C	10	10	40	100
HN55-SDA2-120L-C	12	12	40	100
HN55-SDA2-040XL-C	4	4	16	100
HN55-SDA2-060XL-C	6	6	24	100
HN55-SDA2-080XL-C	8	8	32	100

## CARBIDE INNER RADIUS FOR ALUMINUM WITH DLC COATING

## HN55-IRA



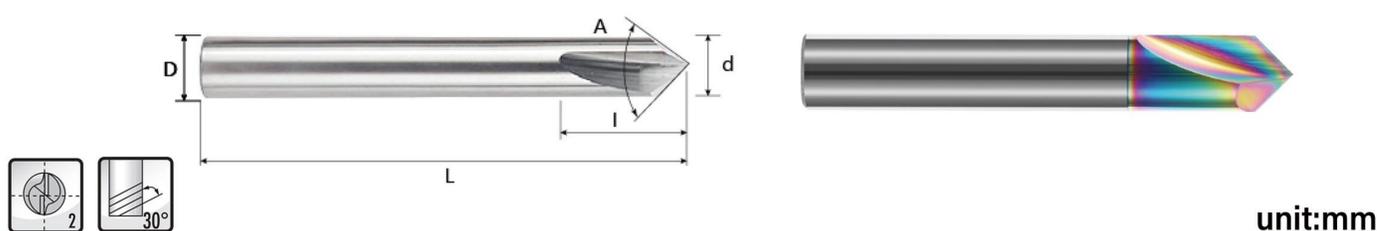
unit:mm

Order NO.	R	d	D	L
HN55-IRA4-D3.8R0.2	0.2	3.8	4	50
HN55-IRA4-D3.4R0.3	0.3	3.4	4	50
HN55-IRA4-D3.2R0.4	0.4	3.2	4	50
HN55-IRA4-D3R0.5	0.5	3	4	50
HN55-IRA4-D2.8R0.6	0.6	2.8	4	50
HN55-IRA4-D2.6R0.7	0.7	2.6	4	50
HN55-IRA4-D2.5R0.75	0.75	2.5	4	50
HN55-IRA4-D2.4R0.8	0.8	2.4	4	50
HN55-IRA4-D2R1	1	2	4	50
HN55-IRA4-D4R1	1	4	6	50
HN55-IRA4-D3R1.5	1.5	3	6	50
HN55-IRA4-D2R2	2	2	6	50

Order NO.	R	d	D	L
HN55-IRA4-D4R2	2	4	8	60
HN55-IRA4-D3R2.5	2.5	3	8	60
HN55-IRA4-D2R3	3	2	8	60
HN55-IRA4-D4R3	3	4	10	60
HN55-IRA4-D3R3.5	3.5	3	10	60
HN55-IRA4-D2R4	4	2	10	60
HN55-IRA4-D3R4.5	4.5	3	12	60
HN55-IRA4-D2R5	5	2	12	60
HN55-IRA4-D3R5.5	5.5	3	14	70
HN55-IRA4-D4R6	6	4	16	70
HN55-IRA4-D4R8	8	4	20	70

## CARBIDE CHAMFERING END MILL FOR ALUMINUM 3FLUTES WITH DLC COATING

## HN55-CA3-C



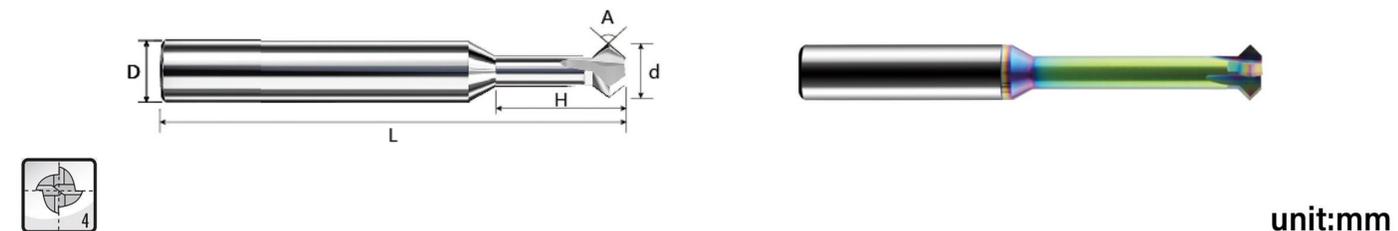
unit:mm

Order NO.	d	D	l	L	Angle
HN55-CA3-031-60-C	3	4	8	50	60°
HN55-CA3-040-60-C	4	4	10	50	60°
HN55-CA3-060-60-C	6	6	15	50	60°
HN55-CA3-080-60-C	8	8	20	60	60°
HN55-CA3-100-60-C	10	10	25	75	60°
HN55-CA3-040-90-C	4	4	10	50	90°
HN55-CA3-060-90-C	6	6	15	50	90°
HN55-CA3-080-90-C	8	8	20	60	90°

Order NO.	d	D	l	L	Angle
HN55-CA3-100-90-C	10	10	25	75	90°
HN55-CA3-120-90-C	12	12	30	75	90°
HN55-CA3-040-120-C	4	4	10	50	120°
HN55-CA3-060-120-C	6	6	15	50	120°
HN55-CA3-080-120-C	8	8	20	60	120°
HN55-CA3-100-120-C	10	10	25	75	120°
HN55-CA3-120-120-C	12	12	30	75	120°

## CARBIDE UPPER AND LOWER CHAMFERING END MILL FOR ALUMINUM

## HN55-UDCA4



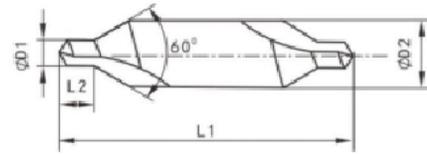
unit:mm

Order NO.	d	D	H	L	Angle
HN55-UDCA4-020-60	2	4	3	50	60°
HN55-UDCA4-030-60	3	4	4	50	60°
HN55-UDCA4-040-60	4	4	8	50	60°
HN55-UDCA4-051-60	5	6	10	50	60°
HN55-UDCA4-060-60	6	6	10	50	60°
HN55-UDCA4-080-60	8	8	12	60	60°
HN55-UDCA4-100-60	10	10	15	60	60°
HN55-UDCA4-120-60	12	12	18	60	60°
HN55-UDCA4-020-90	2	4	3	50	90°
HN55-UDCA4-030-90	3	4	4	50	90°
HN55-UDCA4-040-90	4	4	8	50	90°
HN55-UDCA4-051-90	5	6	10	50	90°

Order NO.	d	D	H	L	Angle
HN55-UDCA4-060-90	6	6	10	50	90°
HN55-UDCA4-080-90	8	8	12	60	90°
HN55-UDCA4-100-90	10	10	15	60	90°
HN55-UDCA4-120-90	12	12	18	60	90°
HN55-UDCA4-020-120	2	4	3	50	120°
HN55-UDCA4-030-120	3	4	4	50	120°
HN55-UDCA4-040-120	4	4	8	50	120°
HN55-UDCA4-051-120	5	6	10	50	120°
HN55-UDCA4-060-120	6	6	10	50	120°
HN55-UDCA4-080-120	8	8	12	60	120°
HN55-UDCA4-100-120	10	10	15	60	120°
HN55-UDCA4-120-120	12	12	18	60	120°

## CENTER DRILL FOR ALUMINUM

## HN55-CCDA

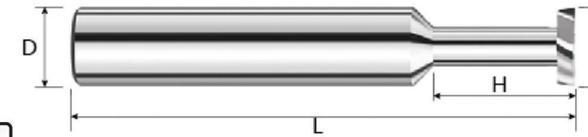


unit:mm

Order NO.	d	D	l	L	Angle
HN55-CCDA-004	0.4	4	0.8	50	60°
HN55-CCDA-005	0.5	4	1	50	60°
HN55-CCDA-006	0.6	4	1.2	50	60°
HN55-CCDA-007	0.7	4	1.4	50	60°
HN55-CCDA-008	0.8	4	1.5	50	60°
HN55-CCDA-009	0.9	4	1.5	50	60°
HN55-CCDA-010	1	4	1.5	50	60°
HN55-CCDA-011	1.1	4	1.8	50	60°
HN55-CCDA-012	1.2	4	1.8	50	60°
HN55-CCDA-013	1.3	4	1.8	50	60°
HN55-CCDA-014	1.4	4	2	50	60°
HN55-CCDA-015	1.5	4	2	50	60°
HN55-CCDA-016	1.6	4	2	50	60°
HN55-CCDA-017	1.7	4	2.2	50	60°
HN55-CCDA-018	1.8	4	2.2	50	60°
HN55-CCDA-019	1.9	4	2.2	50	60°
HN55-CCDA-020-D4	2	4	2.5	50	60°
HN55-CCDA-020-D6	2	6	2.5	50	60°
HN55-CCDA-025	2.5	6	3	50	60°
HN55-CCDA-030-D6	3	6	3.5	50	60°
HN55-CCDA-030-D8	3	8	3.5	60	60°
HN55-CCDA-040-D8	4	8	5	60	60°
HN55-CCDA-040-D10	4	10	5	60	60°
HN55-CCDA-050	5	10	6.5	60	60°
HN55-CCDA-060	6	10	7.5	60	60°
HN55-CCDA-010XL	1	4	1.5	100	60°
HN55-CCDA-015XL	1.5	4	2	100	60°
HN55-CCDA-020XL-D4	2	4	2.5	100	60°
HN55-CCDA-020XL-D6	2	6	2.5	100	60°
HN55-CCDA-030XL-D6	3	6	3.5	100	60°
HN55-CCDA-030XL-D8	3	8	3.5	100	60°
HN55-CCDA-040XL-D8	4	8	5	100	60°
HN55-CCDA-040XL-D10	4	10	5	100	60°
HN55-CCDA-050XL	5	10	6.5	100	60°

## CARBIDE T-TYPE END MILL FOR ALUMINUM

## HN55-TSA4

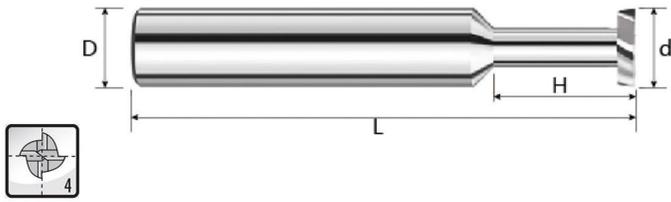


unit:mm

Order NO.	d	D	H	L	Order NO.	d	D	H	L
HN55-TSA4-020-005	2	4	0.5	50	HN55-TSA4-030-029	3	4	2.9	50
HN55-TSA4-020-006	2	4	0.6	50	HN55-TSA4-030-030	3	4	3	50
HN55-TSA4-020-007	2	4	0.7	50	HN55-TSA4-040-005	4	4	0.5	50
HN55-TSA4-020-008	2	4	0.8	50	HN55-TSA4-040-006	4	4	0.6	50
HN55-TSA4-020-009	2	4	0.9	50	HN55-TSA4-040-007	4	4	0.7	50
HN55-TSA4-020-010	2	4	1	50	HN55-TSA4-040-008	4	4	0.8	50
HN55-TSA4-020-011	2	4	1.1	50	HN55-TSA4-040-009	4	4	0.9	50
HN55-TSA4-020-012	2	4	1.2	50	HN55-TSA4-040-010	4	4	1	50
HN55-TSA4-020-013	2	4	1.3	50	HN55-TSA4-040-011	4	4	1.1	50
HN55-TSA4-020-014	2	4	1.4	50	HN55-TSA4-040-012	4	4	1.2	50
HN55-TSA4-020-015	2	4	1.5	50	HN55-TSA4-040-013	4	4	1.3	50
HN55-TSA4-020-016	2	4	1.6	50	HN55-TSA4-040-014	4	4	1.4	50
HN55-TSA4-020-017	2	4	1.7	50	HN55-TSA4-040-015	4	4	1.5	50
HN55-TSA4-020-018	2	4	1.8	50	HN55-TSA4-040-016	4	4	1.6	50
HN55-TSA4-020-019	2	4	1.9	50	HN55-TSA4-040-017	4	4	1.7	50
HN55-TSA4-020-020	2	4	2	50	HN55-TSA4-040-018	4	4	1.8	50
HN55-TSA4-030-005	3	4	0.5	50	HN55-TSA4-040-019	4	4	1.9	50
HN55-TSA4-030-006	3	4	0.6	50	HN55-TSA4-040-020	4	4	2	50
HN55-TSA4-030-007	3	4	0.7	50	HN55-TSA4-040-021	4	4	2.1	50
HN55-TSA4-030-008	3	4	0.8	50	HN55-TSA4-040-022	4	4	2.2	50
HN55-TSA4-030-009	3	4	0.9	50	HN55-TSA4-040-023	4	4	2.3	50
HN55-TSA4-030-010	3	4	1	50	HN55-TSA4-040-024	4	4	2.4	50
HN55-TSA4-030-011	3	4	1.1	50	HN55-TSA4-040-025	4	4	2.5	50
HN55-TSA4-030-012	3	4	1.2	50	HN55-TSA4-040-026	4	4	2.6	50
HN55-TSA4-030-013	3	4	1.3	50	HN55-TSA4-040-027	4	4	2.7	50
HN55-TSA4-030-014	3	4	1.4	50	HN55-TSA4-040-028	4	4	2.8	50
HN55-TSA4-030-015	3	4	1.5	50	HN55-TSA4-040-029	4	4	2.9	50
HN55-TSA4-030-016	3	4	1.6	50	HN55-TSA4-040-030	4	4	3	50
HN55-TSA4-030-017	3	4	1.7	50	HN55-TSA4-040-031	4	4	3.1	50
HN55-TSA4-030-018	3	4	1.8	50	HN55-TSA4-040-032	4	4	3.2	50
HN55-TSA4-030-019	3	4	1.9	50	HN55-TSA4-040-033	4	4	3.3	50
HN55-TSA4-030-020	3	4	2	50	HN55-TSA4-040-034	4	4	3.4	50
HN55-TSA4-030-021	3	4	2.1	50	HN55-TSA4-040-035	4	4	3.5	50
HN55-TSA4-030-022	3	4	2.2	50	HN55-TSA4-040-036	4	4	3.6	50
HN55-TSA4-030-023	3	4	2.3	50	HN55-TSA4-040-037	4	4	3.7	50
HN55-TSA4-030-024	3	4	2.4	50	HN55-TSA4-040-038	4	4	3.8	50
HN55-TSA4-030-025	3	4	2.5	50	HN55-TSA4-040-039	4	4	3.9	50
HN55-TSA4-030-026	3	4	2.6	50	HN55-TSA4-040-040	4	4	4	50
HN55-TSA4-030-027	3	4	2.7	50	HN55-TSA4-040-045	4	4	4.5	50
HN55-TSA4-030-028	3	4	2.8	50	HN55-TSA4-040-050	4	4	5	50

## CARBIDE T-TYPE END MILL FOR ALUMINUM

## HN55-TSA4



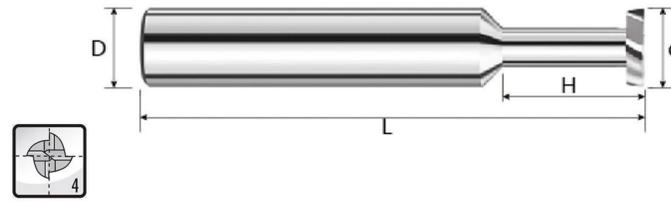
unit:mm

Order NO.	d	D	H	L
HN55-TSA4-060-005	6	6	0.5	50
HN55-TSA4-060-006	6	6	0.6	50
HN55-TSA4-060-007	6	6	0.7	50
HN55-TSA4-060-008	6	6	0.8	50
HN55-TSA4-060-009	6	6	0.9	50
HN55-TSA4-060-010	6	6	1	50
HN55-TSA4-060-011	6	6	1.1	50
HN55-TSA4-060-012	6	6	1.2	50
HN55-TSA4-060-013	6	6	1.3	50
HN55-TSA4-060-014	6	6	1.4	50
HN55-TSA4-060-015	6	6	1.5	50
HN55-TSA4-060-016	6	6	1.6	50
HN55-TSA4-060-017	6	6	1.7	50
HN55-TSA4-060-018	6	6	1.8	50
HN55-TSA4-060-019	6	6	1.9	50
HN55-TSA4-060-020	6	6	2	50
HN55-TSA4-060-021	6	6	2.1	50
HN55-TSA4-060-022	6	6	2.2	50
HN55-TSA4-060-023	6	6	2.3	50
HN55-TSA4-060-024	6	6	2.4	50
HN55-TSA4-060-025	6	6	2.5	50
HN55-TSA4-060-026	6	6	2.6	50
HN55-TSA4-060-027	6	6	2.7	50
HN55-TSA4-060-028	6	6	2.8	50
HN55-TSA4-060-029	6	6	2.9	50
HN55-TSA4-060-030	6	6	3	50
HN55-TSA4-060-031	6	6	3.1	50
HN55-TSA4-060-032	6	6	3.2	50
HN55-TSA4-060-033	6	6	3.3	50
HN55-TSA4-060-034	6	6	3.4	50
HN55-TSA4-060-035	6	6	3.5	50
HN55-TSA4-060-036	6	6	3.6	50
HN55-TSA4-060-037	6	6	3.7	50
HN55-TSA4-060-038	6	6	3.8	50
HN55-TSA4-060-039	6	6	3.9	50
HN55-TSA4-060-040	6	6	4	50
HN55-TSA4-060-045	6	6	4.5	50
HN55-TSA4-060-050	6	6	5	50
HN55-TSA4-060-060	6	6	6	50
HN55-TSA4-080-005	8	8	0.5	60

Order NO.	d	D	H	L
HN55-TSA4-080-006	8	8	0.6	60
HN55-TSA4-080-007	8	8	0.7	60
HN55-TSA4-080-008	8	8	0.8	60
HN55-TSA4-080-009	8	8	0.9	60
HN55-TSA4-080-010	8	8	1	60
HN55-TSA4-080-011	8	8	1.1	60
HN55-TSA4-080-012	8	8	1.2	60
HN55-TSA4-080-013	8	8	1.3	60
HN55-TSA4-080-014	8	8	1.4	60
HN55-TSA4-080-015	8	8	1.5	60
HN55-TSA4-080-016	8	8	1.6	60
HN55-TSA4-080-017	8	8	1.7	60
HN55-TSA4-080-018	8	8	1.8	60
HN55-TSA4-080-019	8	8	1.9	60
HN55-TSA4-080-020	8	8	2	60
HN55-TSA4-080-021	8	8	2.1	60
HN55-TSA4-080-022	8	8	2.2	60
HN55-TSA4-080-023	8	8	2.3	60
HN55-TSA4-080-024	8	8	2.4	60
HN55-TSA4-080-025	8	8	2.5	60
HN55-TSA4-080-026	8	8	2.6	60
HN55-TSA4-080-027	8	8	2.7	60
HN55-TSA4-080-028	8	8	2.8	60
HN55-TSA4-080-029	8	8	2.9	60
HN55-TSA4-080-030	8	8	3	60
HN55-TSA4-080-031	8	8	3.1	60
HN55-TSA4-080-032	8	8	3.2	60
HN55-TSA4-080-033	8	8	3.3	60
HN55-TSA4-080-034	8	8	3.4	60
HN55-TSA4-080-035	8	8	3.5	60
HN55-TSA4-080-036	8	8	3.6	60
HN55-TSA4-080-037	8	8	3.7	60
HN55-TSA4-080-038	8	8	3.8	60
HN55-TSA4-080-039	8	8	3.9	60
HN55-TSA4-080-040	8	8	4	60
HN55-TSA4-080-045	8	8	4.5	60
HN55-TSA4-080-050	8	8	5	60
HN55-TSA4-080-060	8	8	6	60
HN55-TSA4-080-080	8	8	8	60

## CARBIDE T-TYPE END MILL FOR ALUMINUM

## HN55-TSA4



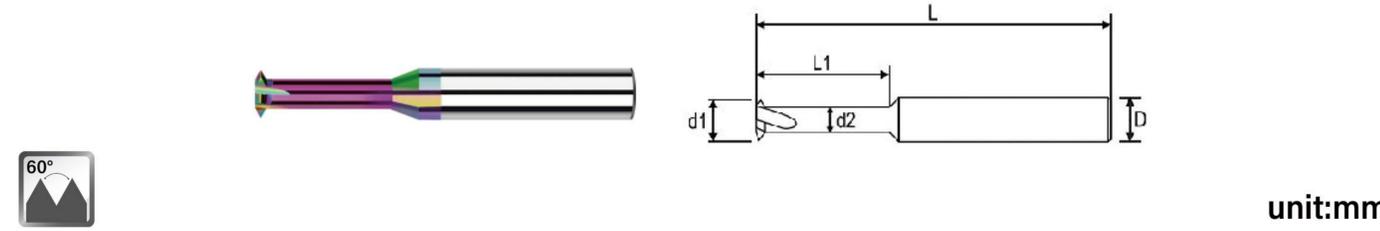
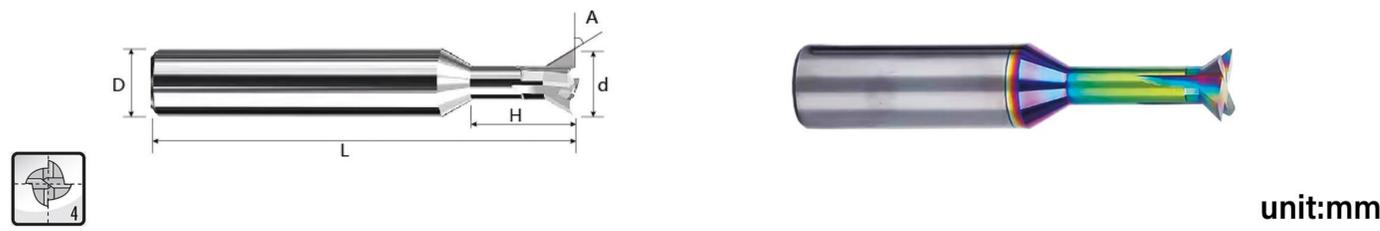
unit:mm

Order NO.	d	D	H	L
HN55-TSA4-100-005	10	10	0.5	60
HN55-TSA4-100-006	10	10	0.6	60
HN55-TSA4-100-007	10	10	0.7	60
HN55-TSA4-100-008	10	10	0.8	60
HN55-TSA4-100-009	10	10	0.9	60
HN55-TSA4-100-010	10	10	1	60
HN55-TSA4-100-011	10	10	1.1	60
HN55-TSA4-100-012	10	10	1.2	60
HN55-TSA4-100-013	10	10	1.3	60
HN55-TSA4-100-014	10	10	1.4	60
HN55-TSA4-100-015	10	10	1.5	60
HN55-TSA4-100-016	10	10	1.6	60
HN55-TSA4-100-017	10	10	1.7	60
HN55-TSA4-100-018	10	10	1.8	60
HN55-TSA4-100-019	10	10	1.9	60
HN55-TSA4-100-020	10	10	2	60
HN55-TSA4-100-021	10	10	2.1	60
HN55-TSA4-100-022	10	10	2.2	60
HN55-TSA4-100-023	10	10	2.3	60
HN55-TSA4-100-024	10	10	2.4	60
HN55-TSA4-100-025	10	10	2.5	60
HN55-TSA4-100-026	10	10	2.6	60
HN55-TSA4-100-027	10	10	2.7	60
HN55-TSA4-100-028	10	10	2.8	60
HN55-TSA4-100-029	10	10	2.9	60
HN55-TSA4-100-030	10	10	3	60
HN55-TSA4-100-031	10	10	3.1	60
HN55-TSA4-100-032	10	10	3.2	60
HN55-TSA4-100-033	10	10	3.3	60
HN55-TSA4-100-034	10	10	3.4	60
HN55-TSA4-100-035	10	10	3.5	60
HN55-TSA4-100-036	10	10	3.6	60
HN55-TSA4-100-037	10	10	3.7	60
HN55-TSA4-100-038	10	10	3.8	60
HN55-TSA4-100-039	10	10	3.9	60
HN55-TSA4-100-040	10	10	4	60
HN55-TSA4-100-045	10	10	4.5	60
HN55-TSA4-100-050	10	10	5	60
HN55-TSA4-100-055	10	10	5.5	60
HN55-TSA4-100-060	10	10	6	60
HN55-TSA4-100-065	10	10	6.5	60
HN55-TSA4-100-070	10	10	7	60
HN55-TSA4-100-075	10	10	7.5	60
HN55-TSA4-100-080	10	10	8	60
HN55-TSA4-100-100	10	10	10	60
HN55-TSA4-120-005	12	12	0.5	60

Order NO.	d	D	H	L
HN55-TSA4-120-006	12	12	0.6	60
HN55-TSA4-120-007	12	12	0.7	60
HN55-TSA4-120-008	12	12	0.8	60
HN55-TSA4-120-009	12	12	0.9	60
HN55-TSA4-120-010	12	12	1	60
HN55-TSA4-120-011	12	12	1.1	60
HN55-TSA4-120-012	12	12	1.2	60
HN55-TSA4-120-013	12	12	1.3	60
HN55-TSA4-120-014	12	12	1.4	60
HN55-TSA4-120-015	12	12	1.5	60
HN55-TSA4-120-016	12	12	1.6	60
HN55-TSA4-120-017	12	12	1.7	60
HN55-TSA4-120-018	12	12	1.8	60
HN55-TSA4-120-019	12	12	1.9	60
HN55-TSA4-120-020	12	12	2	60
HN55-TSA4-120-021	12	12	2.1	60
HN55-TSA4-120-022	12	12	2.2	60
HN55-TSA4-120-023	12	12	2.3	60
HN55-TSA4-120-024	12	12	2.4	60
HN55-TSA4-120-025	12	12	2.5	60
HN55-TSA4-120-026	12	12	2.6	60
HN55-TSA4-120-027	12	12	2.7	60
HN55-TSA4-120-028	12	12	2.8	60
HN55-TSA4-120-029	12	12	2.9	60
HN55-TSA4-120-030	12	12	3	60
HN55-TSA4-120-031	12	12	3.1	60
HN55-TSA4-120-032	12	12	3.2	60
HN55-TSA4-120-033	12	12	3.3	60
HN55-TSA4-120-034	12	12	3.4	60
HN55-TSA4-120-035	12	12	3.5	60
HN55-TSA4-120-036	12	12	3.6	60
HN55-TSA4-120-037	12	12	3.7	60
HN55-TSA4-120-038	12	12	3.8	60
HN55-TSA4-120-039	12	12	3.9	60
HN55-TSA4-120-040	12	12	4	60
HN55-TSA4-120-045	12	12	4.5	60
HN55-TSA4-120-050	12	12	5	60
HN55-TSA4-120-055	12	12	5.5	60
HN55-TSA4-120-060	12	12	6	60
HN55-TSA4-120-065	12	12	6.5	60
HN55-TSA4-120-070	12	12	7	60
HN55-TSA4-120-075	12	12	7.5	60
HN55-TSA4-120-080	12	12	8	60
HN55-TSA4-120-100	12	12	10	60
HN55-TSA4-120-120	12	12	12	60

**CARBIDE T-TYPE DOVETAIL GROOVE END MILL FOR ALUMINUM HN55-TDA**

**ISO METRIC CARBIDE THREAD END MILL FOR ALUMINUM HN60-LWSA**



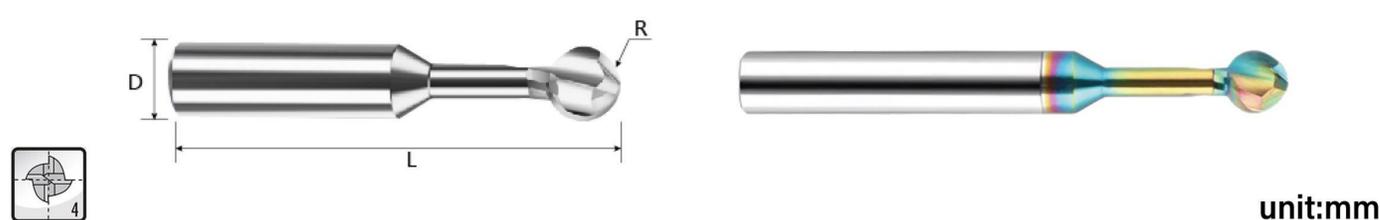
Order NO.	d	D	H	L	Angle
HN55-TDA4-020-45	2	4	H4	50	45°
HN55-TDA4-030-45	3	4	H6	50	45°
HN55-TDA4-040-45	4	4	H8	50	45°
HN55-TDA4-051-45	5	6	H10	50	45°
HN55-TDA4-060-45	6	6	H10	50	45°
HN55-TDA4-080-45	8	8	H12	60	45°
HN55-TDA4-100-45	10	10	H15	60	45°
HN55-TDA4-120-45	12	12	H18	60	45°
HN55-TDA4-020-30	2	4	H4	50	30°
HN55-TDA4-030-30	3	4	H6	50	30°
HN55-TDA4-040-30	4	4	H8	50	30°
HN55-TDA4-051-30	5	6	H10	50	30°

Order NO.	d	D	H	L	Angle
HN55-TDA4-060-30	6	6	H10	50	30°
HN55-TDA4-080-30	8	8	H12	60	30°
HN55-TDA4-100-30	10	10	H15	60	30°
HN55-TDA4-120-30	12	12	H18	60	30°
HN55-TDA4-020-60	2	4	H4	50	60°
HN55-TDA4-030-60	3	4	H6	50	60°
HN55-TDA4-040-60	4	4	H8	50	60°
HN55-TDA4-051-60	5	6	H10	50	60°
HN55-TDA4-060-60	6	6	H10	50	60°
HN55-TDA4-080-60	8	8	H12	60	60°
HN55-TDA4-100-60	10	10	H15	60	60°
HN55-TDA4-120-60	12	12	H18	60	60°

Order NO.	Pitch	Dimensions				Flute
	p	D	d1	L1	L	
HN60-LWSA-M1.0	0.25	4	0.7	3.1	50	3
HN60-LWSA-M1.2	0.25	4	0.9	3.8	50	3
HN60-LWSA-M1.4	0.3	4	1.05	4.4	50	3
HN60-LWSA-M1.6	0.35	4	1.2	5	50	3
HN60-LWSA-M2	0.4	4	1.5	6.2	50	3
HN60-LWSA-M2.5	0.45	4	1.95	7.7	50	3
HN60-LWSA-M3	0.5	4	2.4	9.2	50	3
HN60-LWSA-M3.5	0.6	4	2.75	12	50	3
HN60-LWSA-M4	0.7	4	3.15	13	50	3
HN60-LWSA-M5	0.5-0.8	4	3.9	16	50	3
HN60-LWSA-M6	0.5-1.0	6	4.85	20	57	4
HN60-LWSA-M8-1.25	0.5-1.25	6	5.9	25	57	4
HN60-LWSA-M12-1.0	0.5-1.0	10	9.9	35	70	5
HN60-LWSA-M10-1.5	1.0-1.50	8	7.9	32	65	5
HN60-LWSA-M12-1.75	1.0-1.75	10	9.9	38	70	5
HN60-LWSA-M16-2.0	1.25-2.0	12	11.6	45	80	5

**CARBIDE LOLLIPOP END MILL FOR ALUMINUM WITH DLC COATING HN55-LPBA2**



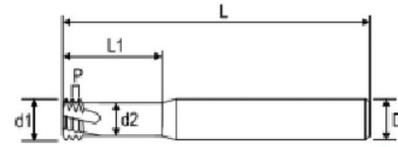
Order NO.	R	D	L
HN55-LPBA2-020	1	4	50
HN55-LPBA2-030	1.5	4	50
HN55-LPBA2-040	2	4	50
HN55-LPBA2-051	2.5	6	50

Order NO.	R	D	L
HN55-LPBA2-060	3	6	50
HN55-LPBA2-080	4	8	60
HN55-LPBA2-100	5	10	60
HN55-LPBA2-120	6	12	60

## ISO METRIC CARBIDETHREAD END MILL FOR ALUMINUM

## HN60-LWTA

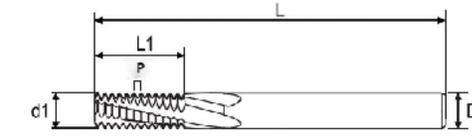


unit:mm

Order NO.	Pitch	Dimensions				Flute
	p	D	d1	L1	L	Z
HN60-LWTA-M1.0	0.25	4	0.7	2.8	50	3
HN60-LWTA-M1.2	0.25	4	0.9	3.2	50	3
HN60-LWTA-M1.4	0.3	4	1.05	3.4	50	3
HN60-LWTA-M1.6	0.35	4	1.2	3.5	50	3
HN60-LWTA-M1.8	0.35	4	1.4	3.8	50	3
HN60-LWTA-M2	0.4	4	1.55	4.3	50	3
HN60-LWTA-M2.5	0.45	4	1.95	5.3	50	3
HN60-LWTA-M3	0.5	4	2.4	6.6	50	3
HN60-LWTA-M3.5	0.6	4	2.75	7.6	50	3
HN60-LWTA-M4	0.7	4	3.15	8.6	50	3
HN60-LWTA-M5	0.8	4	3.9	10.5	50	3
HN60-LWTA-M6	1	6	4.8	14	57	3
HN60-LWTA-M8-0.75	0.75	6	5.95	16.6	50	3
HN60-LWTA-M8-1.25	1.25	6	5.95	16.5	57	3
HN60-LWTA-M10	1.5	8	7.95	22	60	4
HN60-LWTA-M12	1.75	10	9.9	27	70	4
HN60-LWTA-M14-1.5	1.5	12	11.9	30	75	4
HN60-LWTA-M16-1.5	1.5	12	11.9	30	75	4
HN60-LWTA-M14-2.0	2	12	11.6	33	75	4
HN60-LWTA-M16-2.0	2	12	11.6	33	75	4

## ISO METRIC CARBIDETHREAD END MILL FOR ALUMINUM

## HN60-LWFA

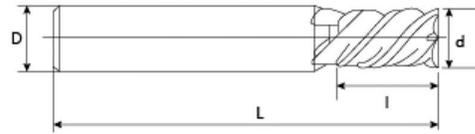


unit:mm

Order NO.	Pitch	Dimensions				Flute
	p	D	d1	L1	L	Z
HN60-LWFA-M3	0.5	4	2.4	6	50	3
HN60-LWFA-M3.5	0.6	4	2.8	7	50	3
HN60-LWFA-M4	0.7	4	3.15	8.4	50	3
HN60-LWFA-M6-0.75	0.75	4	3.9	12	50	3
HN60-LWFA-M8-0.75	0.75	6	5.9	16	57	3
HN60-LWFA-M5	0.8	4	3.9	10.4	50	3
HN60-LWFA-M6-1.0	1	6	4.8	12	57	3
HN60-LWFA-M8-1.0	1	6	5.9	16	57	3
HN60-LWFA-M10-1.0	1	8	7.9	20	65	3
HN60-LWFA-M12-1.0	1	10	9.9	24	70	4
HN60-LWFA-M8-1.25	1.25	6	5.9	16.2	57	3
HN60-LWFA-M10-1.25	1.25	8	7.9	20	65	3
HN60-LWFA-M10-1.5	1.5	8	7.9	19.5	65	3
HN60-LWFA-M12-1.25	1.25	10	9.9	24	70	3
HN60-LWFA-M12-1.5	1.5	10	9.9	24	70	4
HN60-LWFA-M12-1.75	1.75	10	9.9	25	70	4
HN60-LWFA-M14-1.5	1.5	12	11.9	30	75	4
HN60-LWFA-M16-1.5	1.5	12	11.9	30	75	4
HN60-LWFA-M14-2.0	2	12	11.6	30	75	4
HN60-LWFA-M16-2.0	2	12	11.6	30	75	4

## HM SERIES CARBIDE SQUARE END MILL 4 FLUTES

## HM-S4



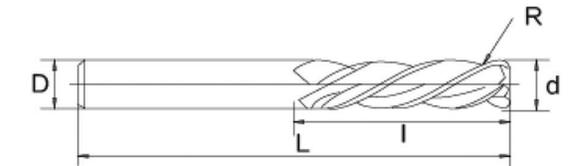
unit:mm

Order NO.	d	D	l	L
HM-S4-010	1	4	3	50
HM-S4-015	1.5	4	4	50
HM-S4-020	2	4	6	50
HM-S4-025	2.5	4	8	50
HM-S4-030	3	3	8	50
HM-S4-031	3	4	8	50
HM-S4-040	4	4	10	50
HM-S4-050	5	5	13	50
HM-S4-051	5	6	13	50
HM-S4-060	6	6	15	50
HM-S4-080	8	8	20	60
HM-S4-100	10	10	25	75
HM-S4-120	12	12	30	75
HM-S4-140	14	14	45	100

Order NO.	d	D	l	L
HM-S4-160	16	16	45	100
HM-S4-200	20	20	45	100
HM-S4-031L	3	4	12	75
HM-S4-031XL	3	4	15	100
HM-S4-040L	4	4	15	75
HM-S4-040XL	4	4	20	100
HM-S4-051L	5	6	20	75
HM-S4-051XL	5	6	25	100
HM-S4-060L	6	6	25	75
HM-S4-060XL	6	6	30	100
HM-S4-080L	8	8	30	75
HM-S4-080XL	8	8	35	100
HM-S4-100L	10	10	40	100
HM-S4-120L	12	12	45	100

## HM SERIES CARBIDE CORNER RADIUS END MILL 4 FLUTES

## HM-C4

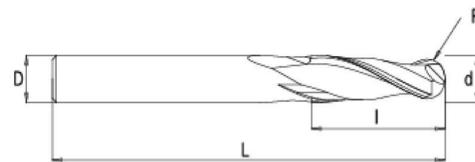


unit:mm

Order NO.	R	d	D	l	L
HM-C4-0102	0.2	1	4	3	50
HM-C4-0202	0.2	2	4	6	50
HM-C4-0205	0.5	2	4	6	50
HM-C4-0302	0.2	3	4	8	50
HM-C4-0305	0.5	3	4	8	50
HM-C4-0402	0.2	4	4	10	50
HM-C4-0405	0.5	4	4	10	50
HM-C4-0505	0.5	5	6	13	50
HM-C4-0602	0.2	6	6	15	50
HM-C4-0605	0.5	6	6	15	50
HM-C4-0610	1	6	6	15	50
HM-C4-0802	0.2	8	8	20	60
HM-C4-0805	0.5	8	8	20	60
HM-C4-0810	1	8	8	20	60
HM-C4-0820	2	8	8	20	60
HM-C4-1005	0.5	10	10	25	75
HM-C4-1010	1	10	10	25	75
HM-C4-1205	0.5	12	12	30	75
HM-C4-1210	1	12	12	30	75
HM-C4-0402L	0.2	4	4	12	75
HM-C4-0405L	0.5	4	4	12	75
HM-C4-0402XL	0.2	4	4	15	100
HM-C4-0405XL	0.5	4	4	15	100
HM-C4-0602L	0.2	6	6	20	75
HM-C4-0602XL	0.2	6	6	25	100
HM-C4-0605L	0.5	6	6	20	75
HM-C4-0605XL	0.5	6	6	25	100
HM-C4-0805L	0.5	8	8	25	75
HM-C4-0805XL	0.5	8	8	30	100
HM-C4-1005L	0.5	10	10	35	100
HM-C4-1010L	1	10	10	35	100
HM-C4-1205L	0.5	12	12	40	100
HM-C4-1210L	1	12	12	40	100

## HM SERIES CARBIDE BALL NOSE END MILL 2 FLUTES

## HM-B2



unit:mm

Order NO.	R	d	D	l	L
HM-B2-010	R0.5	1	4	2	50
HM-B2-015	R0.75	1.5	4	3	50
HM-B2-020	R1	2	4	4	50
HM-B2-025	R1.25	2.5	4	5	50
HM-B2-030	R1.5	3	3	6	50
HM-B2-031	R1.5	3	4	6	50
HM-B2-040	R2	4	4	8	50
HM-B2-050	R2.5	5	5	10	50
HM-B2-051	R2.5	5	6	10	50
HM-B2-060	R3	6	6	12	50
HM-B2-080	R4	8	8	16	60
HM-B2-100	R5	10	10	20	75

Order NO.	R	d	D	l	L
HM-B2-120L	R6	12	12	24	75
HM-B2-031L	R1.5	3	4	6	75
HM-B2-040L	R2	4	4	8	75
HM-B2-031XL	R1.5	3	4	6	100
HM-B2-040XL	R2	4	4	8	100
HM-B2-060L	R3	6	6	12	75
HM-B2-060XL	R3	6	6	12	100
HM-B2-080L	R4	8	8	16	75
HM-B2-080XL	R4	8	8	16	100
HM-B2-100L	R5	10	10	20	100
HM-B2-120XL	R6	12	12	24	100