



UHCSB2 - UH250

Ø mm	~6	>6
tol. D µ	0 / -12	0 / -15
tol. R µ	±5	±10



Z2 BALL

NMG
UH RED

UH BALL NOSE

30°

Z2 BALL

NMG
UH RED

UH BALL NOSE

30°

D	d	l	l1	L	Stock	Stock
mm 0.1	6	0.1		40	○	
0.2	6	0.2		40	○	
0.3	6	0.3		40	○	
0.4	6	0.4		40	●	
0.5	6	0.5		40	●	
0.6	6	0.6		40	●	
0.7	6	0.7		40	○	
0.8	6	0.8		40	●	
0.9	6	0.9		40	○	
1	6	1.5		40	●	
1	4	1	2.2	50		●
1.5	6	2.5		40	●	
1.5	4	1.5	3	50		●
2	6	3		40	●	
2	6	2	4	50		●
2.5	6	3		50	●	
3	6	4.5		50	●	
3	6	3	6	60		●
4	6	6		50	●	
4	6	4	8	70		●
5	6	7.5		50	●	
5	6	5	10	80		●
6	6	9		50	●	
6	6	6	12	90		●
8	8	12		50	●	
8	8	8	16	100		●
10	10	15		60	●	
10	10	10	20	100		●
12	12	18		60	●	
12	12	12	24	110		●

● stock standard ○ non-standard stock EX stock exhaustion

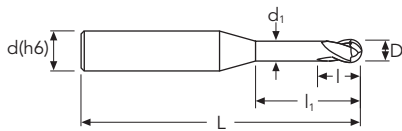
PAGE 242

OSAWA
NORM

UHCRB2

Ø mm	-6
tol. D µ	0 / -12
tol. R µ	±5

UHCRB2



$d_1 < D$

Z2 BALL

NMG

UH RED

UH BALL NOSE

30°

D	d	l	l1	L	Stock
mm 0.1	4	0.1	0.3	45	●
0.2	4	0.2	0.6	45	○
0.2	4	0.2	1	45	●
0.3	4	0.3	2	45	●
0.3	4	0.3	3	45	○
0.4	4	0.4	1	45	●
0.4	4	0.4	3	45	●
0.5	6	0.5	2	45	●
0.5	4	0.5	2	45	○
0.5	6	0.5	4	45	●
0.5	4	0.5	6	45	○
0.6	6	0.6	2	45	○
0.6	6	0.6	4	45	●
0.6	4	0.6	6	45	●
0.6	4	0.6	10	45	○
0.8	6	0.8	2	45	●
0.8	6	0.8	6	45	●
0.8	4	0.8	10	45	○
1	6	1	3	50	●
1	6	1	6	50	●
1	4	1	10	50	●
1	6	1	10	50	●
1	4	1	16	50	●
1	4	1	20	55	●
1.2	6	1.2	4.4	50	○
1.2	6	1.2	8	50	●
1.2	4	1.2	12	50	○
1.5	6	1.5	4	50	●
1.5	6	1.5	10	50	●
1.5	4	1.5	12	50	●
1.5	6	1.5	12	50	●
1.5	4	1.5	20	55	●
2	6	3	6	50	●
2	4	3	10	50	●
2	6	3	12	50	●
2	4	3	16	50	●

● stock standard ○ non-standard stock EX stock exhaustion

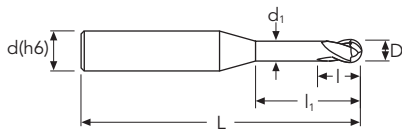

 PAGE 242

OSAWA
NORM

UHCRB2

Ø mm	-6
tol. D µ	0 / -12
tol. R µ	±5

UHCRB2



$d_1 < D$



D	d	l	l1	L	Stock
mm 2	6	3	20	50	●
2	4	3	25	60	●
2	4	3	30	70	●
3	6	4	12	55	●
3	6	4	16	55	●
3	6	4	20	60	●
3	6	4	30	70	●
4	6	5	16	55	●
4	6	5	20	60	●
4	6	5	30	70	●
4	6	5	40	80	●

● stock standard ○ non-standard stock EX stock exhaustion


 PAGE 243

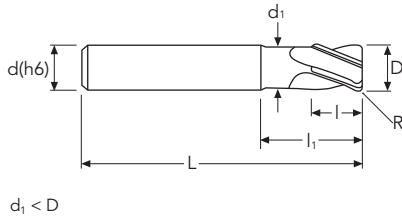
OSAWA
NORM

UHF430

Ø mm	~12
tol. D µ	0 / -20
tol. R µ	±5

NEW

UHF430



 Z4
 NMG
 UH RED
 UH RADIUS
 30°

D	d	l	l1	L	Stock
mm 2 R0.5	6	1	6	70	●
3 R0.5	6	1.2	8	70	●
4 R0.5	6	1.5	10	70	●
5 R0.5	6	2	10	70	●
6 R0.5	6	2.5	12	90	●
6 R1	6	2.5	12	90	●
8 R1	8	3.5	16	100	●
8 R2	8	3.5	16	100	●
10 R1	10	4	20	100	●
10 R2	10	4	20	100	●
12 R2	12	5	25	110	●
12 R3	12	5	25	110	●

● stock standard ○ non-standard stock EX stock exhaustion

	OSAWA NORM
PAGE 244-245-246	

UHM2 - UHCS2

Ø mm	~6	>6
tol. D µ	0 / -12	0 / -15
tol. R µ	±10	±15



<p>UHM2</p>		
<p>UHCS2</p>		

D	d	l	l1	L	Stock	Stock
mm 0.3	6	0.45		50	●	
0.4	6	0.6		50	●	
0.5 R0.05	6	0.7		50	●	
0.6 R0.05	6	0.9		50	●	
0.8 R0.05	6	1.2		50	●	
1 R0.1	4	2	3	50		●
1 R0.1	6	1.5		50	●	
1.5 R0.1	4	2.5	4	50		●
1.5 R0.15	6	2.2		50	●	
2 R0.15	6	2.2		50	●	
3 R0.1	6	4.5	8	55		●
4 R0.1	6	6	10	55		●
5 R0.2	6	6	11	50		●
6 R0.2	6	9	15	60		●
8 R0.2	8	12	20	65		●
10 R0.2	10	15	25	70		●
12 R0.3	12	18	30	80		●

● stock standard ○ non-standard stock EX stock exhaustion

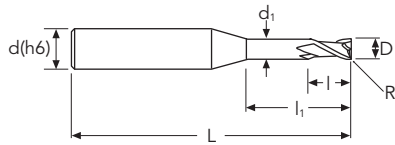
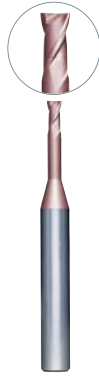
n **Vf**
PAGE 244

OSAWA
NORM

UHCR2

Ø mm	~4
tol. D µ	0 / -12

UHCR2



$d_1 < D$



D	d	l	l1	L	Stock
mm 0.1	4	0.15	0.3	45	○
0.2	4	0.3	1	45	●
0.3	4	0.45	1.5	45	●
0.3	4	0.45	3	45	●
0.4	4	0.6	3	45	○
0.4	4	0.6	5	45	●
0.5	4	0.7	2	45	● NEW
0.5	4	0.7	4	45	●
0.5	4	0.7	8	45	○
0.6 R0.05	6	0.9	2	50	EX
0.6 R0.05	6	0.9	4	50	EX
0.6	4	0.9	4	45	● NEW
0.6	4	0.9	6	45	●
0.8 R0.05	6	1.2	5.5	50	EX
0.8	4	1.2	8	45	●
1	4	1.5	4	50	● NEW
1 R0.10	6	1.5	6.7	50	EX
1	4	1.5	8	50	● NEW
1	4	1.5	10	50	●
1	4	1.5	16	50	●
1	4	1.5	20	55	●
1.2	4	1.8	4	50	● NEW
1.2	4	1.8	10	50	● NEW
1.5	4	2.3	6	50	● NEW
1.5	4	2.3	10	50	● NEW
1.5	4	2.3	16	50	●
1.5	4	2.3	20	55	●
2	4	3	6	50	● NEW
2	4	3	12	50	● NEW
2 R0.15	6	2.2	13	50	EX
2	4	3	16	50	●
2	4	3	20	55	●
3	6	4.5	12	55	●
3	6	4.5	16	55	●
3	6	4.5	20	60	●

● stock standard ○ non-standard stock EX stock exhaustion

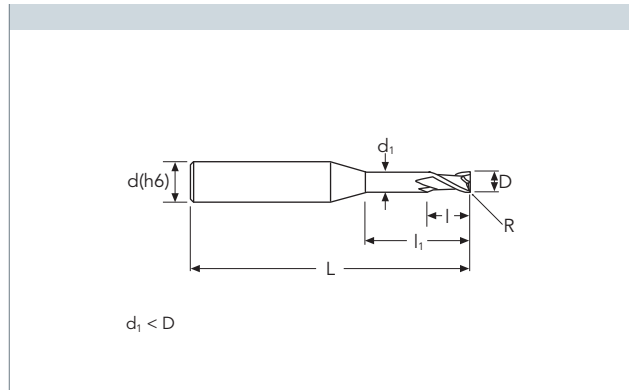
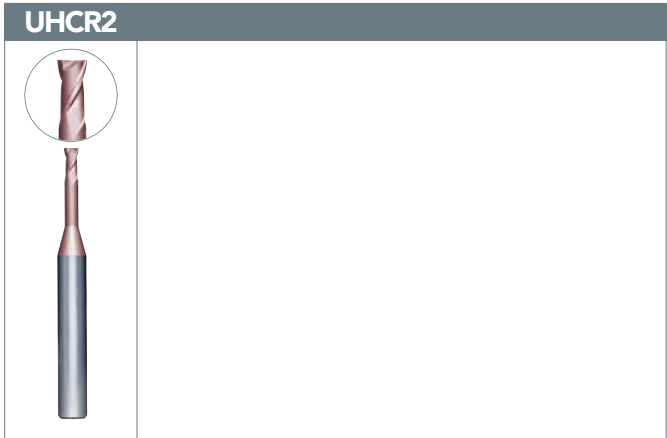


 PAGE 244

OSAWA
NORM

UHCR2

Ø mm	~4
tol. D µ	0 / -12



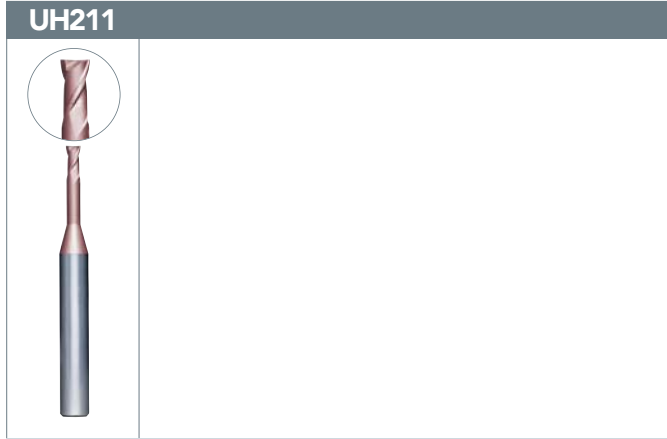
D	d	l	l1	L	Stock
mm 3	6	4.5	30	70	○
4	6	6	20	60	●
4	6	6	30	70	○
4	6	6	40	80	○

● stock standard ○ non-standard stock EX stock exhaustion

	OSAWA NORM
PAGE 246-247	

UH211

Ø mm	~6	>6
tol. D µ	0 / -12	0 / -15
tol. R µ	±10	±15



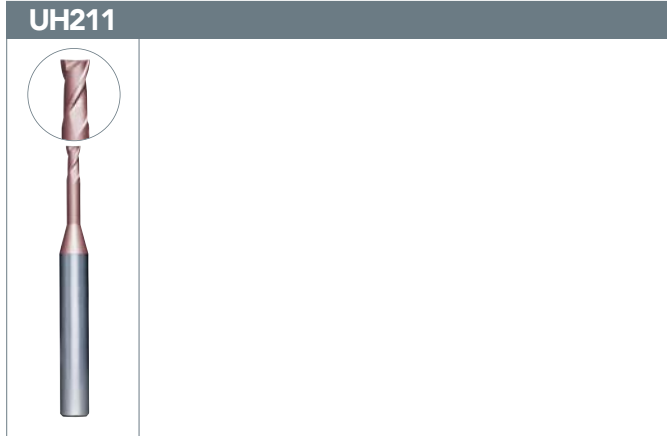
D	d	l	l1	L	Stock	
0.5	R0.05	4	0.7	1.5	45	● NEW
0.5	R0.05	4	0.7	4	45	● NEW
0.6	R0.05	4	0.9	2	45	● NEW
0.6	R0.05	4	0.9	4	45	● NEW
0.8	R0.05	4	1.2	2	45	● NEW
0.8	R0.05	4	1.2	6	45	● NEW
1	R0.1	4	2	4	50	● NEW
1	R0.1	4	2	6	50	●
1	R0.1	4	2	8	50	● NEW
1	R0.2	4	2	4	50	●
1	R0.2	4	2	8	50	●
1	R0.3	4	2	4	50	●
1	R0.3	4	2	8	50	●
1.5	R0.1	4	2.5	6	50	● NEW
1.5	R0.1	4	2.5	10	50	● NEW
1.5	R0.2	4	2.5	4	50	●
1.5	R0.2	4	2.5	8	50	●
1.5	R0.2	4	2.5	12	50	●
1.5	R0.3	4	2.5	4	50	●
1.5	R0.3	4	2.5	8	50	●
2	R0.1	4	3	6	50	● NEW
2	R0.1	4	3	12	50	● NEW
2	R0.2	4	3	6	50	●
2	R0.2	4	3	12	50	●
2	R0.3	4	3	8	50	●
2	R0.3	4	3	12	50	●
2	R0.3	4	3	16	50	●
2	R0.5	4	3	6	50	●
2	R0.5	4	3	12	50	●
2.5	R0.2	4	3.5	8	55	● NEW
2.5	R0.2	4	3.5	12	55	● NEW
3	R0.2	6	4.5	10	55	●
3	R0.2	6	4.5	16	55	●
3	R0.3	6	4.5	10	55	●
3	R0.3	6	4.5	16	55	●
3	R0.5	6	4.5	10	55	●

● stock standard ○ non-standard stock EX stock exhaustion

	OSAWA NORM
PAGE 246-247	

UH211

Ø mm	~6	>6
tol. D µ	0 / -12	0 / -15
tol. R µ	±10	±15



D	d	l	l1	L	Stock
mm 3 R0.5	6	4.5	16	55	●
4 R0.2	6	6	12	55	○
4 R0.2	6	6	20	60	●
4 R0.3	6	6	20	60	●
4 R0.5	6	6	12	55	●
4 R0.5	6	6	20	60	●
4 R1.0	6	6	16	55	●
6 R0.5	6	9	15	60	●
6 R1	6	9	15	60	●
6 R2	6	9	15	60	●
8 R0.5	8	12	20	65	●
8 R1	8	12	20	65	●
8 R2	8	9	25	60	●
10 R0.5	10	15	25	70	●
10 R1	10	15	25	70	●
10 R2	10	15	25	70	●
12 R0.5	12	18	30	80	○
12 R1	12	18	30	80	●
12 R2	12	18	30	80	●

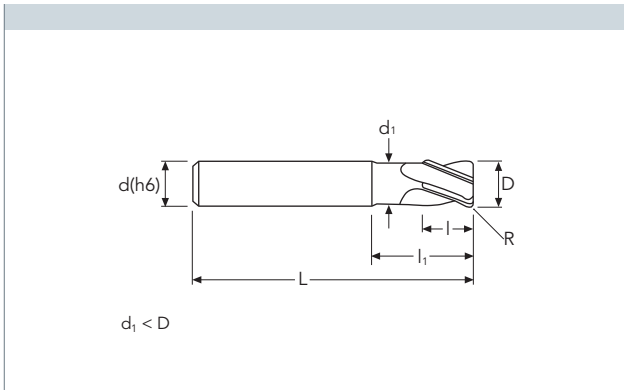
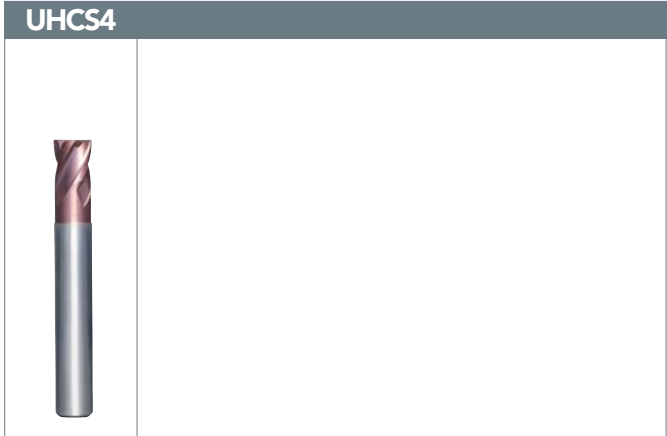
● stock standard ○ non-standard stock EX stock exhaustion

PAGE 247

OSAWA
NORM

UHCS4

Ø mm	~6	>6
tol. D µ	0 / -12	0 / -15
tol. R µ	±10	±15



Z4

NMG

UH RED

UH RADIUS

30°

D	d	l	l1	L	Stock
mm 1 R0.1	4	2	3	50	●
1.5 R0.1	4	2.5	4	50	●
2 R0.1	4	3	6	50	●
3 R0.1	6	4	8	55	●
4 R0.1	6	6	10	55	●
5 R0.2	6	6	11	50	●
6 R0.2	6	9	15	60	●
8 R0.2	8	12	20	70	●
10 R0.2	10	15	25	70	●
12 R0.3	12	18	30	80	●

● stock standard ○ non-standard stock EX stock exhaustion



UH411 - UH412

Ø mm	~6	>6
tol. D µ	0 / -12	0 / -15
tol. R µ	±10	±15



Z4

NMG

UH RED

UH RADIUS

30°

Z4

NMG

UH RED

UH RADIUS

30°

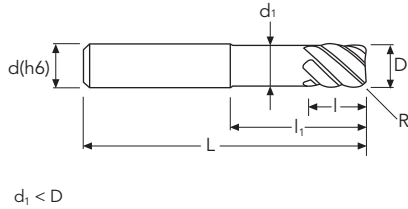
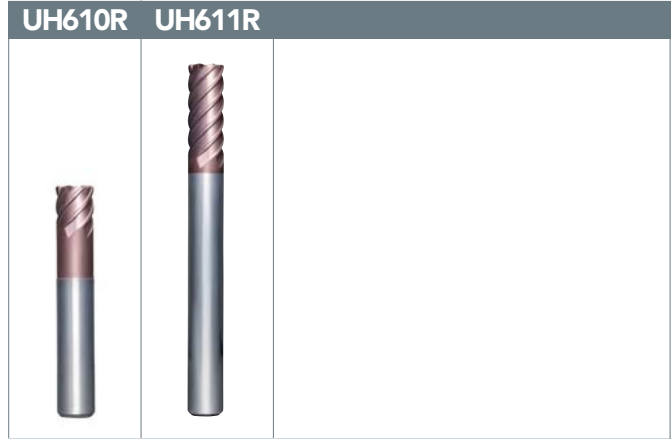
D	d	l	l1	L	Stock	Stock
mm 3 R0.3	6	4	12	55	●	
3 R0.3	6	4	20	60	●	
3 R0.5	6	4	10	55	●	
3 R0.5	6	4	20	60	●	
4 R0.3	6	6	12	55	●	
4 R0.3	6	6	20	60	●	
4 R0.5	6	6	12	55	●	
4 R0.5	6	6	20	60	●	
4 R1.0	6	6	12	55	●	
6 R0.5	6	9	15	60	●	
6 R0.5	6	9	20	90		●
6 R1.0	6	9	15	60	●	
6 R1.0	6	9	20	90		●
8 R0.5	8	12	20	70	●	
8 R0.5	8	12	25	100		●
8 R1.0	8	12	20	70	●	
8 R1.0	8	12	25	100		●
8 R2.0	8	12	20	70	●	
10 R0.5	10	15	25	70	●	
10 R0.5	10	15	32	100		●
10 R1.0	10	15	25	70	●	
10 R1.0	10	15	32	100		●
10 R2.0	10	15	25	70	●	
10 R2.0	10	15	32	100		●
12 R0.5	12	18	30	80	●	
12 R0.5	12	18	38	110		●
12 R1.0	12	18	30	80	●	
12 R1.0	12	18	38	110		●
12 R2.0	12	18	30	80	●	
12 R2.0	12	18	38	110		●

● stock standard ○ non-standard stock EX stock exhaustion

	OSAWA NORM
PAGE 248	

UH610R - UH611R

Ø mm	~20
tol. D µ	0 / -30
tol. R µ	±15



NMG	NMG
UH RED	UH RED
UH RADIUS	UH RADIUS

D	d	l	l1	L	Stock	Stock
mm 6 R0.5	6	6	15	50	●	
6 R0.5	6	15		70		●
8 R0.5	8	8	25	60	●	
8 R0.5	8	20		100		●
10 R0.5	10	25	30	100		●
10 R1.0	10	10	30	70	●	
10 R1.0	10	25		100		●
12 R1.0	12	12	30	75	●	
12 R0.5	12	30		110		●
12 R1.0	12	30		110		●
16 R1.0	16	32		130		●
16 R1.5	16	32		130		EX
20 R1.0	20	38		140		○
20 R1.5	20	38		140		EX
20 R2.0	20	38		140		○

● stock standard ○ non-standard stock EX stock exhaustion