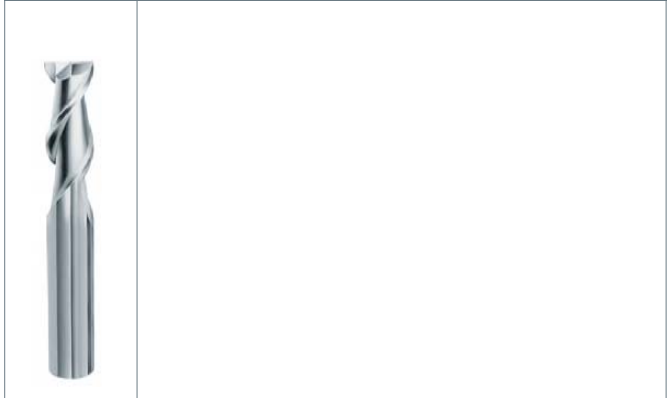




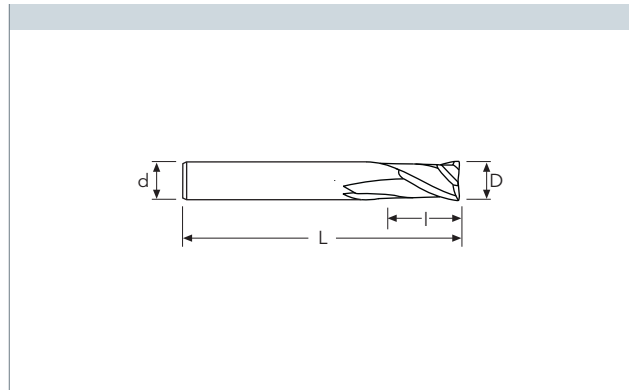
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OSAWA
NORM

MDCSA2



MDCSA2	
Ø mm	3~20
tol. D µ	0 / -30



 Z2
 MG LAPPED
 **ALU**
 42°

D	d(h6)	l	L	Stock
mm 3	6	8	57	●
4	6	11	57	●
5	6	13	57	●
6	6	13	57	●
8	8	19	63	●
10	10	22	72	●
12	12	26	83	●
14	14	26	83	●
16	16	32	92	●
18	18	32	92	●
20	20	38	104	●

● stock standard ○ non-standard stock EX stock exhaustion


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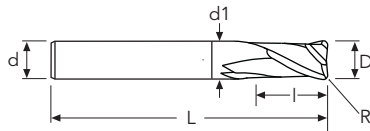
**OSAWA
NORM**

MCA212R



MCA212R

Ø mm	2~12
tol. D µ	0 / -30
tol. R µ	±




$d1 < D$



D	d(h6)	l	l1	L	Stock
mm 2 xR0.2	3	3	6	40	●
3 xR0.2	3	4	8	40	●
4 xR0.2	4	5	12	50	●
5 xR0.2	5	8	14	50	●
6 xR0.2	6	8	18	65	●
8 xR0.2	8	10	22	70	●
10 xR0.2	10	14	28	80	●
12 xR0.2	12	16	35	90	●

● stock standard ○ non-standard stock EX stock exhaustion



**OSAWA
NORM**

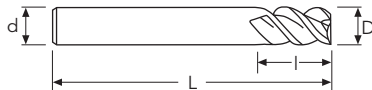
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MDCSA3



Ø mm	~6	8~12	16~20
tol. D µ	0 / -20	0 / -25	0 / -30

MDA310 - MDA311 - MDA312

Ø mm	~6	8~12	16~20
tol. D µ	0 / -30	0 / -35	0 / -40



d1 < D

			
MG	MG	MG	MG
LAPPED	LAPPED	LAPPED	LAPPED
ALU	ALU	ALU	ALU
			

D	d(h6)	l	L	Stock	Stock	Stock	Stock
mm 1	4	3	50	●			
1.5	4	4.5	50	●			
2	4	6	50	●			
3	4	8	50	●			
3	6	12	75		●		
3	6	15	100			●	
4	4	11	50	●			
4	6	16	75		●		
4	6	20	100			●	
5	6	13	50	●			
5	6	20	75		●		
5	6	30	100			●	
6	6	15	50	●			
6	6	30	75		●		
8	8	20	60	●			
8	8	35	100			●	
8	8	40	150				●
10	10	25	75	●			
10	10	40	100			●	
10	10	50	150				●
12	12	30	75	●			
12	12	45	100			●	
12	12	50	150				●
16	16	40	100	●			
16	16	70	150				●
20	20	40	100	●			
20	20	80	150				●

● stock standard ○ non-standard stock EX stock exhaustion


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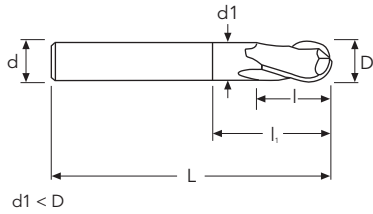
**OSAWA
NORM**

MDCAB2

Ø mm	~6	8-12
tol. D µ	0 / -20	0 / -25
tol. R µ	± 10	± 10

NEW

MDCAB2



-  Z2 BALL
-  MG
-  LAPPED
-  ALU BALL NOSE
-  40°

D	d(h6)	l	l1	L	Stock
mm 1	4	2		50	●
1.5	4	3		50	●
2	4	4		50	●
3	4	6		50	●
4	4	8		50	●
5	6	10		50	●
6	6	12		50	●
8	8	16		60	●
10	10	20		75	●
12	12	24		75	●

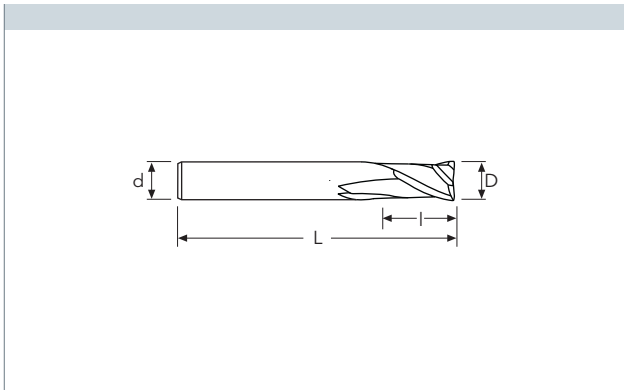
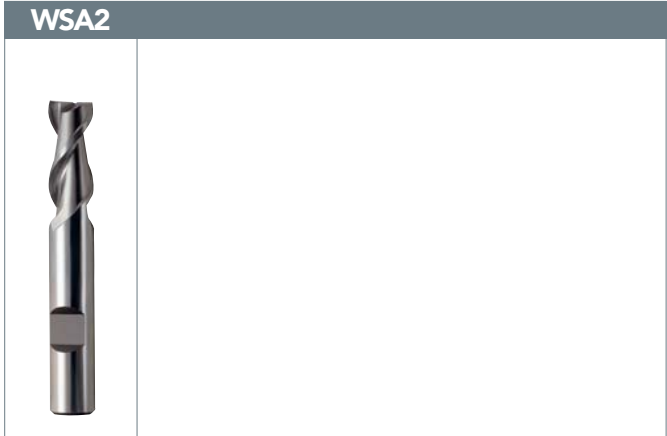
● stock standard ○ non-standard stock EX stock exhaustion


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**DIN
844**

WSA2

Ø mm	3~6	7~10	12~18	20~25
tol.D µ	±60	±75	±90	±105



 Z2
 HSS/Co
 BR
 **ALU**
 45°

D(e8)	d(h6)	l	L	Stock
mm 2	6	7	51	●
2.5	6	8	52	●
3	6	8	52	●
4	6	11	55	●
5	6	13	57	●
6	6	13	57	●
8	10	19	69	●
10	10	22	72	●
12	12	26	83	●
14	12	26	83	●
16	16	32	92	●
18	16	32	92	●
20	20	38	104	●

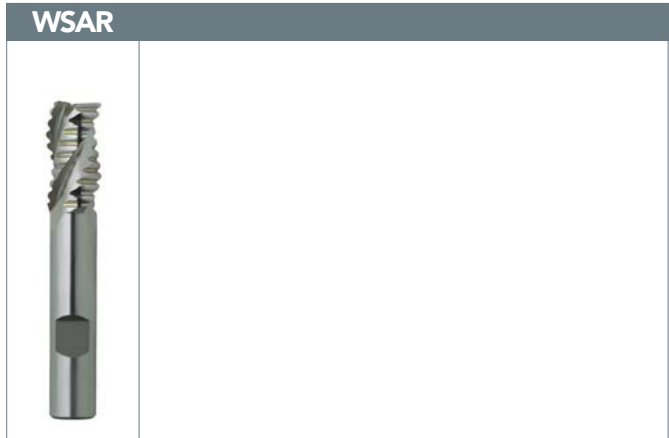
● stock standard ○ non-standard stock EX stock exhaustion

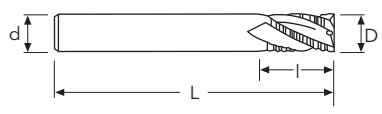

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**DIN
844**


WSAR (js12)


Ø mm	3~6	7~10	12~18	20~25
tol.D µ	±60	±75	±90	±105







 Z3

 HSS/Co

 BR

 ALU WR COARSE

 45°

D(js12)	d(h6)	l	L	Stock
mm 6	6	13	57	●
8	10	19	69	●
10	10	22	72	●
12	12	26	83	●
14	12	26	83	●
16	16	32	92	●
18	16	32	92	●
20	20	38	104	●
25	25	45	121	●

● stock standard ○ non-standard stock EX stock exhaustion