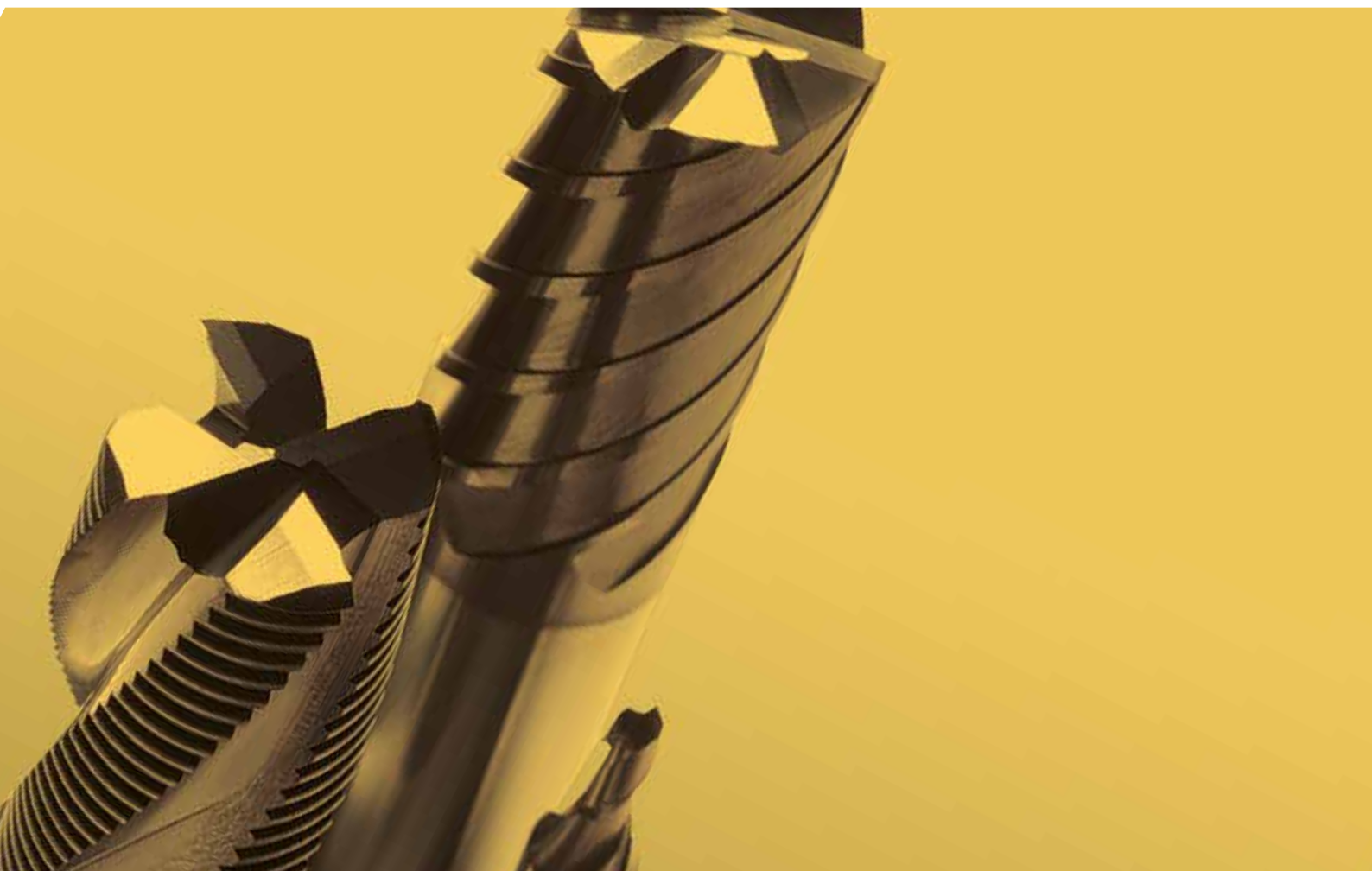
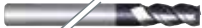




- mikrozný karbid
- nové rezné geometrie
- inovatívne povlaky
- zvýšený výkon
- široký výber priemerov so štandard. dĺžkou, dlhou a extra dlhou dĺžkou
- k dispozícií s ostrými a rádiusovými rez. hranami, rádiusové a hrubovacie frézy
- s válcovou a weldon stopkou

G2 univerzálne tvrdokovové frézy

	ITEM No.		
G2 univerzálne použitie, ostré rezné hrany	GB205		
	G2CS2		
	G2WS2		
	G2210		
	G2211		
	G2212		
	GB305		
	G2CSH3		
	G2WSH3		
	G2310		
	G2311		
	G2312		
	GB405		
	G2CS4		
	G2WS4		
	G2410		
	G2411		
	G2412		
	G2413		
	G2CSHM		
G2 univerzálne použitie, hrubovacie frézy	G2CSFR		
	G2WSFR		
G2 univerzálne použitie, rádiusové rezné hrany	G2CS2R		
	G2CS4R		
	G2CL4R		
G2 univerzálne použitie, guľové frézy	GB255		
	G2CSB2		
	G2CSB4		
	G2250		
	G2251		

GB205 - katalóg strana 298



OSAWA NORM	N	MG BR	<45 HRC			
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G2CS2 - katalóg strana 300



OSAWA NORM	N	MG PV200	<45 HRC			
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GB305 - katalóg strana 307



OSAWA NORM	N	MG BR	<45 HRC			
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G2CSH3 - katalóg strana 309



OSAWA NORM	N	MG PV200	<45 HRC			
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GB405 - katalóg strana 315

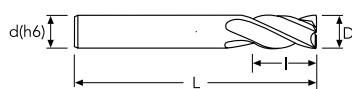


OSAWA NORM	N	MG BR	<45 HRC			
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G2CS4 - katalóg strana 317



OSAWA NORM	N	MG PV200	<45 HRC			
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					GB205	G2CS2	GB305	G2CSH3	GB405	G2CS4
P					★	★	★	★	★	★
M					☆	☆	☆	☆	☆	☆
K					★	★	★	★	★	★
N					☆	☆	☆	☆	☆	☆
S										
H										
D(e8)	d(h6)	I	L		€	€	€	€	€	€
1	4	3	50		6,03	6,51	6,03	6,51	6,03	6,51
1.5	4	4.5	50		6,03	6,51	6,03	6,51	6,03	6,51
2	4	6	50		6,03	6,51	6,03	6,51	6,03	6,51
2.5	4	7	50			6,85		6,85		6,85
3	4	8	50		6,03	6,51	6,03	6,51	6,03	6,51
3.5	4	10	50			6,85		6,85		6,85
4	4	11	50		6,03	6,51	6,03	6,51	6,03	6,51
4.5	6	13	50			8,71		8,71		8,71
5	6	13	50		7,72	8,08	7,72	8,08	7,72	8,08
5.5	6	13	50			8,71		8,71		8,71
6	6	15	50		7,72	8,08	7,72	8,08	7,72	8,08
6.5	8	17	60			15,12		15,12		15,12
7	8	17	60			15,12		15,12		15,12
7.5	8	17	60			15,12		15,12		15,12
8	8	20	60		13,41	13,53	13,41	13,53	13,41	13,53
8.5	10	23	75			22,65		22,65		22,65
9	10	23	75			22,65		22,65		22,65
9.5	10	25	75							22,65
10	10	30	75		19,68	19,34	19,68	19,34	19,68	19,34
10.5	12	25	75			31,30				31,30
11	12	30	75			31,30		31,30		31,30
11.5	12	28	75							31,32
12	12	30	75		27,31	26,64	27,31	26,64	27,31	26,64
12.5	14	26	83							50,45
13	14	26	83			71,17				50,45
13.5	14	26	83							50,45
14	14	26	83			43,36		43,36		43,36
14.5	16	32	92							59,73
15	16	32	92			71,93				61,11
15.5	16	32	92							61,11
16	16	32	92			49,40		49,40		49,40
17	20	40	100			105,47				105,47
18	20	40	100			96,06		96,06		96,06
19	20	40	100							105,47
20	20	40	100			89,50		89,50		89,50
22	25	40	100							169,30
25	25	40	100							169,30



G2WS2 - katalóg strana 302



OSAWA NORM	N	MG PV200	<45 HRC			
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G2WSH3 - katalóg strana 311

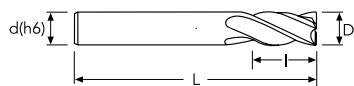


OSAWA NORM	N	MG PV200	<45 HRC			
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G2WS4 - katalóg strana 319



OSAWA NORM	N	MG PV200	<45 HRC			
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				G2WS2	G2WSH3	G2WS4
P				★	★	★
M				☆	☆	☆
K				★	★	★
N				☆	☆	☆
S						
H						
D(e8)	d(h6)	l	L	€	€	€
3	6	8	57	8,77	8,77	8,77
4	6	11	57	8,77	8,77	8,77
5	6	13	57	8,77	8,77	8,77
6	6	13	57	8,77	8,77	8,77
8	8	19	63	15,63	15,63	15,63
10	10	22	72	20,79	20,79	20,79
12	12	26	83	31,26	31,26	31,26
14	14	26	83	44,86	44,86	44,86
16	16	32	92	54,32	54,32	54,32
20	20	38	104	97,66	97,66	97,66



G2210 / G2211 / G2212 - katalóg strana 304



OSAWA NORM	N	MG PV200	<45 HRC			
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G2310 / G2311 / G2312 - katalóg strana 313



OSAWA NORM	N	MG PV200	<45 HRC			
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G2410 / G2411 / G2412 / G2413 - katalóg strana 321



OSAWA NORM	N	MG PV200	<45 HRC			
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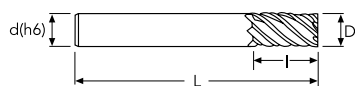
					G2210	G2310	G2410
P					★	★	★
M					☆	☆	☆
K					★	★	★
N					☆	☆	☆
S							
H							
D(e8)	d(h6)	L			€	€	€
2	4	9	75		12,28	12,28	12,28
2.5	4	10	75				12,36
3	4	15	75		12,28	12,28	12,28
3.5	4	15	75				12,36
4	4	20	75		12,28	12,28	12,28
4.5	6	20	75				14,44
5	6	25	75		14,34	14,34	14,34
6	6	25	75		14,34	14,34	14,34
					G2211	G2311	G2411
3	6	15	100				16,68
4	6	25	100			16,68	16,68
5	6	30	100		16,86	16,86	16,86
6	6	30	100		16,86	16,86	16,86
7	8	35	100			30,00	30,00
8	8	35	100		29,17	29,17	29,17
9	10	40	100			38,52	38,87
10	10	40	100		37,46	37,46	37,46
11	12	45	100			51,06	51,06
12	12	45	100		49,20	49,20	49,20
					G2212	G2312	G2412
8	8	40	150		42,46	42,46	42,46
10	10	50	150		54,28	54,28	54,28
12	12	50	150		71,56	71,56	71,56
16	16	70	150		139,01	139,01	139,01
18	20	80	150				195,64
20	20	80	150			195,63	195,63
							G2413
16	16	40	200				158,51
20	20	40	200				221,51



G2CSHM - katalóg strana 323

OSAWA
NORM

N

MG
PV200<45
HRC

G2CSHM

P					★
M					☆
K					★
N					☆
S					
H					
D	d(h6)	I	L		€
6	6	15	50		12,82
8	8	20	60		17,67
10	10	30	75		24,73
12	12	30	75		33,76
14	14	30	83		64,88
16	16	35	92		73,31
20	20	40	100		105,01

G2 - hrubovacie, so 45° zrazením reznej hrany

G2CSFR - katalóg strana 325

OSAWA
NORM

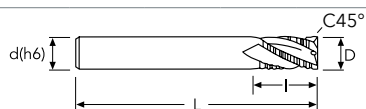
N

MG
PV200<45
HRC

G2WSFR - katalóg strana 327

OSAWA
NORM

N

MG
PV200<45
HRC

G2CSFR

G2WSFR

P					★					★
M					☆					☆
K					★					★
N					☆					☆
S										
H										
D	C45°	d(h6)	I	L	z	€	I	L	z	€
4	0.28	6	11	50	3	16,32				
5	0.35	6	13	50	3	16,32				
6	0.42	6	15	50	3	16,03	13	57	3	18,16
7	0.49	8	20	60	3	19,96				
8	0.56	8	20	60	3	17,66	19	63	3	20,00
9	0.63	10	25	75	3	32,04				
10	0.70	10	30	75	4	28,38	22	72	4	29,55
11	0.77	12	30	75	4	40,02				
12	0.84	12	30	75	4	38,56	26	83	4	42,02
13	0.91	14	30	83	4	55,98				
14	0.98	14	30	83	4	52,98	26	83	4	52,33
15	1.05	16	30	92	4	65,16				
16	1.12	16	35	92	4	60,42	32	92	4	63,15
20	1.40	20	40	100	4	91,09	38	104	4	103,31



PARAMETRE

★ 1. voľba ☆ vhodné použitie

G2CS2R - katalóg strana 329



OSAWA NORM	N	MG PV200	<45 HRC	30°	RADIUS	Z2
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G2CS4R - katalóg strana 331

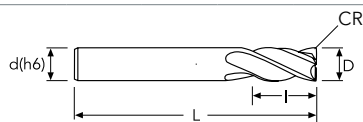


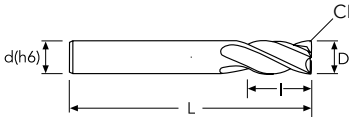
OSAWA NORM	N	MG PV200	<45 HRC	30°	RADIUS	Z4
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G2CL4R - katalóg strana 333

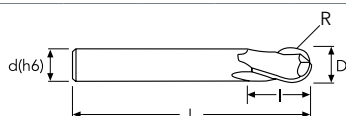


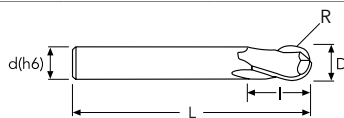
OSAWA NORM	N	MG PV200	<45 HRC	30°	RADIUS	Z4
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					G2CS2R	G2CS4R			G2CL4R
P					★	★			★
M					☆	☆			☆
K					★	★			★
N					☆	☆			☆
S									
H									
D	CR	d(h6)	I	L	€	€	I	L	€
1	0.20	4	2	50	9,66	9,66			
1.5	0.20	4	3	50	9,66	9,66			
1.5	0.50	4	3	50	9,66	9,66			
2	0.20	4	4	50	9,66	9,66	4	75	12,70
2	0.50	4	4	50	9,66	9,66	4	75	12,70
2.5	0.20	4	5	50	9,66	9,66			
2.5	0.50	4	5	50	9,66	9,66			
3	0.20	4	6	50	9,66	9,66	6	75	12,70
3	0.50	4	6	50	9,66	9,66	6	75	12,70
3	1.00	4	6	50	9,66	9,66	6	75	12,70
4	0.20	4	8	50	9,66	9,66	8	75	12,70
4	0.50	4	8	50	9,66	9,66	8	75	12,70
4	1.00	4	8	50	9,66	9,66	8	75	12,70
5	0.50	6	10	50	11,95	11,95	10	75	14,74
5	1.00	6	10	50	11,95	11,95	10	75	14,74
6	0.20	6	12	50	11,95	11,95			
6	0.50	6	12	50	11,95	11,95	12	75	14,74
6	1.00	6	12	50	11,95	11,95	12	75	14,74
6	1.50	6	12	50	11,95	11,95			
6	2.00	6	12	50	11,95	11,95			
8	0.50	8	16	60	20,47	20,47	16	100	29,07
8	1.00	8	16	60	20,47	20,47	16	100	29,07
8	1.50	8	16	60	20,47	20,47			
8	2.00	8	16	60	20,47	20,47	16	100	29,07
10	0.50	10	20	75	30,33	30,33	20	100	39,72
10	1.00	10	20	75	30,33	30,33	20	100	39,72
10	1.50	10	20	75	30,33	30,33			
10	2.00	10	20	75	30,33	30,33	20	100	39,72
10	2.50	10	20	75		30,33			
10	3.00	10	20	75		30,33			
12	0.50	12	24	75	39,30	39,30	24	100	50,26
12	1.00	12	24	75	39,30	39,30	24	100	50,26
12	1.50	12	24	75	39,30	39,30			
12	2.00	12	24	75	39,30	39,30	24	100	49,29
12	2.50	12	24	75		39,30			
12	3.00	12	24	75		39,30			





				GB255	G2CSB2	G2CSB4			G2250		G2251		
P				★	★	★			★		★		
M				☆	☆	☆			☆		☆		
K				★	★	★			★		★		
N				☆	☆	☆			☆		☆		
S													
H													
D	R	d(h6)	I	L	€	€	€	I	L	€	I	L	€
1	0.50	4	2	50	7,37	7,98	8,09	2	75	11,14			
1.5	0.75	4	3	50	7,37	7,98	8,09	3	75	11,14			
2	1.00	4	4	50	7,37	7,98	8,09	4	75	11,14			
2.5	1.25	4	5	50		8,45							
3	1.50	4	6	50	7,37	7,98	8,09	6	75	11,14			
3.5	1.75	4	7	50		8,45							
4	2.00	4	8	50	7,37	7,98	8,09	8	75	11,14			
4.5	2.25	6	9	50		10,15							
5	2.50	6	10	50	8,95	9,47	9,63	10	75	13,39			
5.5	2.75	6	11	50		10,15							
6	3.00	6	12	50	8,95	9,47	9,63	12	100	15,29	12	150	23,26
6.5	3.25	8	13	60		18,32							
7	3.50	8	14	60		17,88							
8	4.00	8	16	60	15,26	16,27	16,84	16	100	27,77	16	150	40,67
9	4.50	10	18	75		22,59							
10	5.00	10	20	75	22,17	23,05	24,10	20	100	35,38	20	150	51,55
12	6.00	12	24	75	30,22	31,31	32,83	24	100	47,80	24	150	69,96
16	8.00	16	30	92		78,84	78,84				30	150	123,63
20	10.00	20	30	100		104,12	104,12				30	150	197,4

