FRIDRO Alati

"za veću produktivnost"

Dragobraća, 34231 Kragujevac, Tel.: 034 540 488, Fax.: 034 / 582 284, Mobil: 064 / 27 89 464, E-mail: fridro@open.telekom.rs, www.fridro.com

AKCIJA

WIDIA VICTORY

Win with WIDIA™

Kod manjih porudžbina ispod 5.000,- dinara zaračunavamo trošak slanja alata na račun kupca.
Pri štampanju može doci do greške na koje nemožemo uticati i za koje neodgovaramo.
U slucaju odstupanja od cene ili tehnickih podataka blagovremeno bih vas obavestili. Hvala na razumevanju.

Važi do 31. 05. 2013

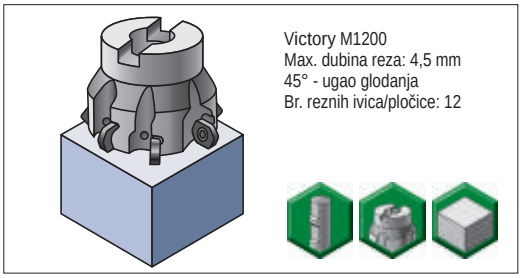
Sve cene su u DIN i bez PDV-a.

M1200

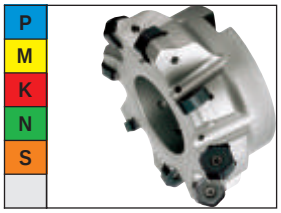
12 reznih ivica

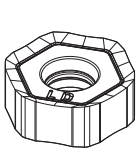
Jedna serija zadovoljava sve vaše potrebe za čeono glodanje

- **Najniža cena po reznoj ivici i visoka produktivnost.**
- **45° ugao glodanja.**
- **Velike dubine rezanja sa standardnim reznim pločicama.**
- **Jedna serija zadovoljava sve vaše potrebe za čeono glodanje.**
- **WIDIA-Premium serija za glodanje**
- **Do 35% veće postojanost alata.**
- **Pločica HN..09!!**

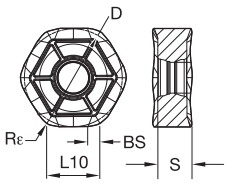


Victory M1200
Max. dubina reza: 4,5 mm
45° - ugao glodanja
Br. reznih ivica/pločice: 12





HNGJ-LD



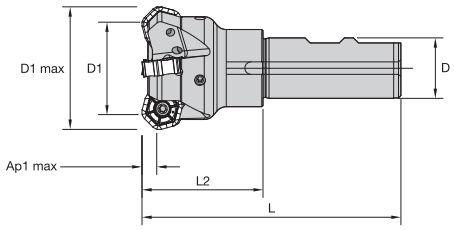
● prvi izbor
○ alternativa

Prvi izbor je za jednostavnije obrade sa malim opterećenjima.

kataloški br.	oznaka	br. reznih ivica	D	L10	S	BS	Re	hm	kvalitet	P	M	K	N	S	H
3030034	HNGJ0905ANENLD	12	15,88	9,00	5,56	1,80	1,2	0,10	TN6540	●	●	○		●	

Garnitura: glodačka glava M1200 + pločice HNGJ0905ANENLD TN6540

- 12 reznih ivica na pločici
- Za spoljno čeono glodanje
- Mala opterećenja pri max. produktivnosti



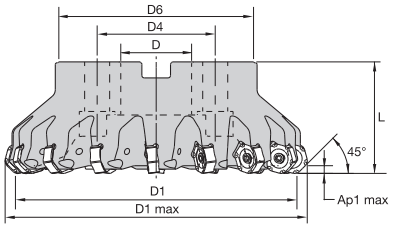
M1200

GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	L	L2	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3325310	M1200D040Z03B25HN09	40	51	25	107	50	4,5	3	20	15.800	da	0,5	31.990,00

Garnitura: glodačka glava M1200 + pločice HNGJ0905ANENLD TN6540

- 12 reznih ivica na pločici
- Za spoljno čeono glodanje
- Mala opterećenja pri max. produktivnosti



M1200

GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3957970	M1200D040Z03HN09	40	51	22	39	40	4,4	3	20	15.800	da	0,3	31.990,00
3957971	M1200D040Z04HN09	40	51	22	39	40	4,4	4	20	15.800	da	0,3	31.990,00
3325312	M1200D050Z04HN09	50	61	22	38	40	4,5	4	20	12.700	da	0,3	31.990,00
3325693	M1200D050Z05HN09	50	61	22	38	40	4,5	5	20	12.700	da	0,3	31.990,00

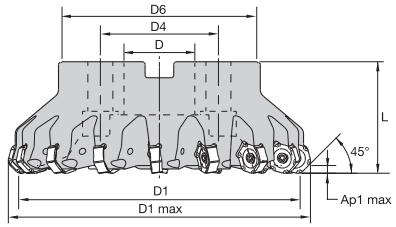
kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3650535	M1200D063Z04HN09	63	74	22	50	40	4,5	4	30	10.100	da	0,6	47.990,00
3093594	M1200D063Z06HN09	63	74	22	50	40	4,5	6	30	10.100	da	0,6	47.990,00
3025376	M1200D063Z07HN09	63	74	22	50	40	4,5	7	30	10.100	da	0,6	47.990,00
3650536	M1200D080Z05HN09	80	91	27	60	50	4,5	5	30	7.900	da	1,1	47.990,00

kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3081507	M1200D080Z06HN09	80	91	27	60	50	4,5	6	40	7.900	da	1,1	63.990,00
3650537	M1200D100Z06HN09	100	111	32	80	50	4,5	6	40	6.300	da	1,7	63.990,00
3325694	M1200D100Z08HN09	100	111	32	80	50	4,5	8	40	6.300	da	1,7	63.990,00

kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3650538	M1200D125Z08HN09	125	136	40	90	63	4,5	8	50	5.050	da	2,8	79.990,00
3081508	M1200D125Z10HN09	125	136	40	90	63	4,5	10	50	5.050	da	2,8	79.990,00

Garnitura: glodačka glava M1200 + pločice HNGJ0905ANENLD Tn6540

- 12 reznih ivica na pločici
- Za spoljno čeono glodanje
- Mala opterećenja pri max. produktivnosti



HNGJ ... +

M1200

GLODAČKA GLAVA + PLOČICE

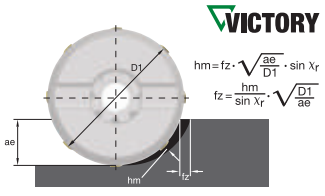
kataloški br.	oznaka	D1	D1 max	D	D4	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3066118	M1200D160Z12HN09	160	171	40	66,7	110	63	4,5	12	100	3.900	da	4,6	159.990,00
3957972	M1200D200Z16HN09	200	211	60	101,6	130	63	4,5	16	100	3.180	da	6,4	159.990,00

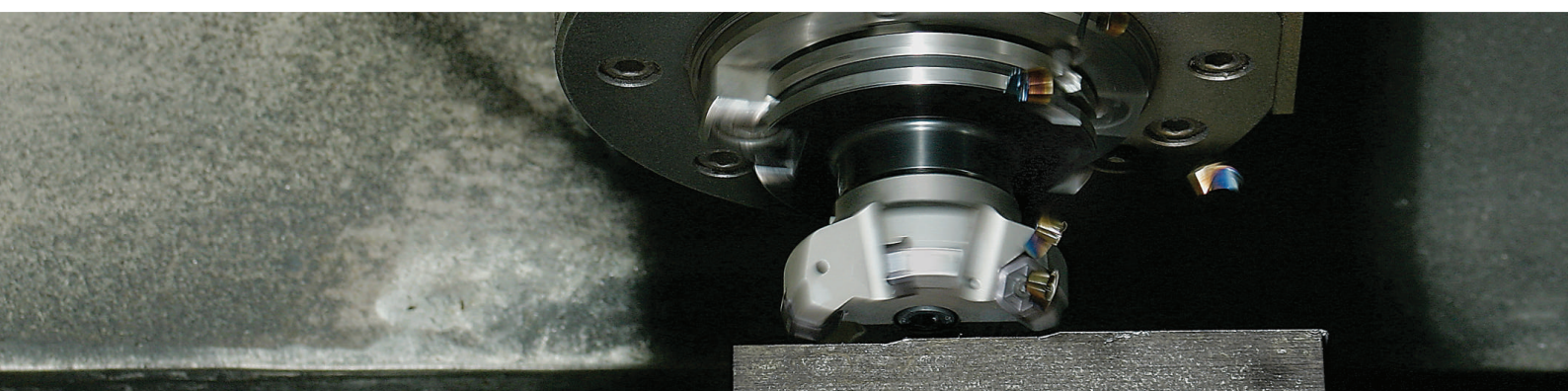
kataloški br.	oznaka	D1	D1 max	D	D4	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3957993	M1200D250Z20HN09	250	261	60	101,6	130	63	4,5	20	150	2.550	da	9,9	239.990,00

Režimi za glodačke pločice za M1200 i M1200 mini

Geometrija rezne ivice		TN5515				TN6510				TN6520				TN6540				TN7535		
		Posmak po zubu fz (mm)																		
.. LDJ		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-
.. LD		0,12	0,20	0,40		0,13	0,22	0,44		0,14	0,23	0,46		0,13	0,22	0,44		0,12	0,20	0,40
.. GD		0,15	0,25	0,50		0,17	0,28	0,55		0,17	0,29	0,58		0,17	0,28	0,55		0,15	0,25	0,50
.. HD		0,20	0,30	0,60		0,22	0,33	0,66		0,23	0,35	0,69		0,22	0,33	0,66		0,20	0,30	0,60
Materijal		vc (m/min)																		
P	1													290	220	190		360	280	240
	2													200	150	130		250	190	165
	3													170	130	110		210	160	140
	4													170	130	110		215	165	140
	5													140	100	90		180	130	110
	6													190	140	120		240	180	150
	7													140	110	100		180	140	120
	8													130	100	80		160	120	100
	9													110	80	60		140	100	80
	10													140	120	100		180	145	130
	11													100	70	60		120	90	70
	12													180	140	120		230	175	150
	13.1													160	120	100		200	145	120
	13.2													80	60	50		100	75	60
M	14.1													160	100	70		200	120	90
	14.2													130	80	60		160	95	70
	14.3													100	60	40		120	70	55
	14.4													80	50	40		100	60	45
K	15	530	390	280		480	350	250		380	280	200		-	-	-		-	-	-
	16	410	310	230		370	280	210		300	220	170		-	-	-		-	-	-
	17	460	310	230		420	280	210		340	220	170		200	150	130		250	190	165
	18	300	220	170		270	200	150		220	160	120		170	130	110		210	160	140
	19	370	290	220		340	260	200		270	210	160		-	-	-		-	-	-
	20	310	230	180		280	210	160		220	170	130		-	-	-		-	-	-
S	31													60	50	45				
	32													50	40	35				
	33													35	25	20				
	34													30	20	15				
	35													30	20	15				
	36													80	50	40				
	37													70	45	35				

ae/D1=	0,1	0,2	0,3	0,4
fz - faktor	2,0	1,5	1,3	1,0
vz - faktor	1,4	1,3	1,2	1,1



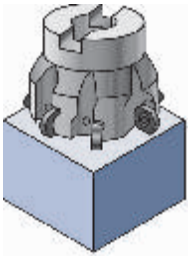


M1200 Mini

12 reznih ivica

Serija M1200 mini je jednostavna za korišćenje, dug vek trajanja alata, kraće vreme obrade i max. produktivnost

- **Najniža cena po reznoj ivici i visoka produktivnost.**
- **25% manje rezne sile.**
- **45° ugao glodanja.**
- **Do 35% veća otpornost alata kako pri lakšim tako i pri težim obradama.**
- **Do 40% kraće vreme obrade.**
- **Jednostavna upotreba – jedan vijak omogućava brzu i jednostavnu zamenu**
- **Pločice HN .. 07!**



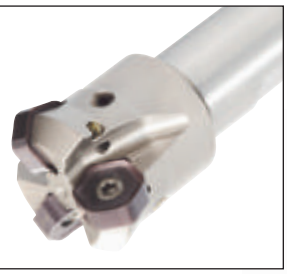
Victory M1200 Mini
Max. dubina reza: 3,5 mm
45° - ugao glodanja
Br. reznih ivica/pločice: 12

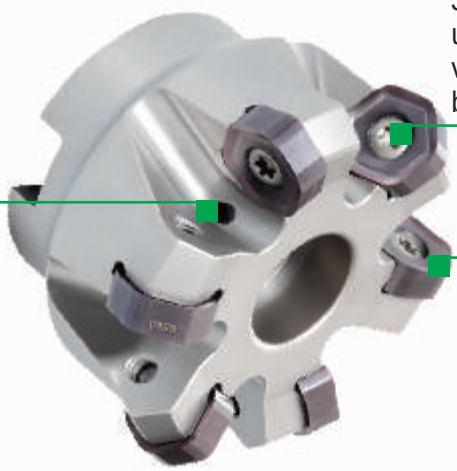
Pločice za M1200 Mini			P	M	K	N	S	H
kataloški br.	oznaka	kvalitet						
3954431	HNPJ0704ANSNGD	TN5515			●			
3954432	HNPJ0704ANSNGD	TN6510			●			
3954473	HNPJ0704ANSNGD	TN6520			●			
3954474	HNPJ0704ANSNGD	TN6540	●	●	○		●	
3954475	HNPJ0704ANSNGD	TN7535	●	○	○			
3954476	HNPJ0704ANSNHD	TN5515			●			
3954478	HNPJ0704ANSNHD	TN6520			●			
3954479	HNPJ0704ANSNHD	TN6540	●	●	○		●	
3954480	HNPJ0704ANSNHD	TN7535	●	○	○			

Geometrija pločice		Opis
	GD	Najbolji izbor je za sve vrste obrada pri obradi čelika i livenog gvožđa.
	HD	Prvi izbor je za teže obrade.

● prvi izbor
○ alternativa

P
M
K
N
S





Jednostavna upotreba – jedan vijak omogućava brzu i jednostavnu zamenu

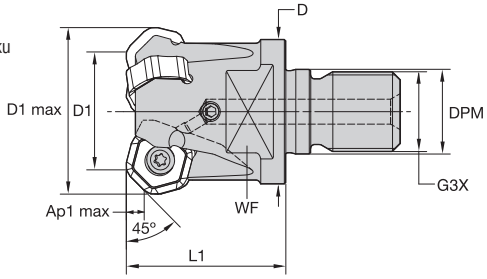
Unutrašnje hlađenje

Visoka tačnost pločice sa 12 reznih ivica

WIDIA VICTORY Win with WIDIA™

Garnitura: glodačka glava M1200 mini + pločice HN07 ...

- 12 reznih ivica na pločici
- max. broj zuba na prečniku



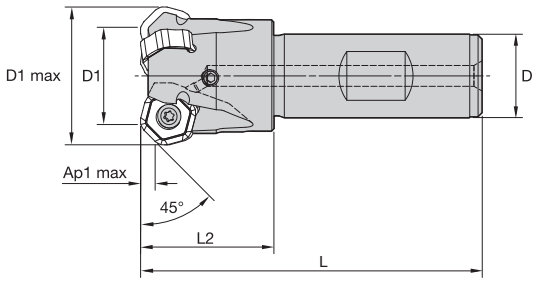
M1200 MINI

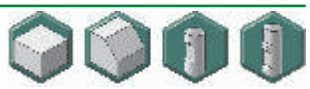
GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	DPM	G3X	L1	WF	Ap1 max	br. zuba	br. pločica	max. br obr	unutraš. hlađenje	kg	cena/garniture
3957840	M1200D025Z03M16HN07	25	34	29	17,0	M16	32	22	3,5	3	30	20.000	da	0,1	41.100,00
3957842	M1200D032Z04M16HN07	32	41	29	17,0	M16	40	22	3,5	4	40	17.600	da	0,2	54.800,00
3957841	M1200D032Z03M16HN07	32	41	29	17,0	M16	40	22	3,5	3	30	17.600	da	0,2	41.100,00
3957963	M1200D040Z04M16HN07	40	49	29	17,0	M16	40	22	3,5	4	40	15.800	da	0,2	54.800,00
3957964	M1200D040Z05M16HN07	40	49	29	17,0	M16	40	22	3,5	5	50	15.800	da	0,3	68.500,00

Garnitura: glodačka glava M1200 mini + pločice HNGJ ...

- 12 reznih ivica na pločici
- max. broj zuba na prečniku





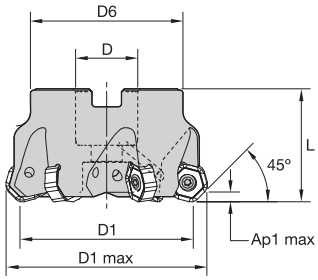
M1200 MINI

GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	L	L2	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3958012	M1200D025Z03B20HN07	25	34	20	82	32	3,5	3	30	20.000	da	0,2	41.100,00
3958023	M1200D032Z03B25HN07	32	41	25	97	40	3,5	3	30	17.600	da	0,4	41.100,00
3958024	M1200D032Z04B25HN07	32	41	25	97	40	3,5	4	40	17.600	da	0,4	54.800,00

Garnitura: glodačka glava M1200 mini + pločice HNGJ ...

- 12 reznih ivica na pločici
- max. broj zuba na prečniku



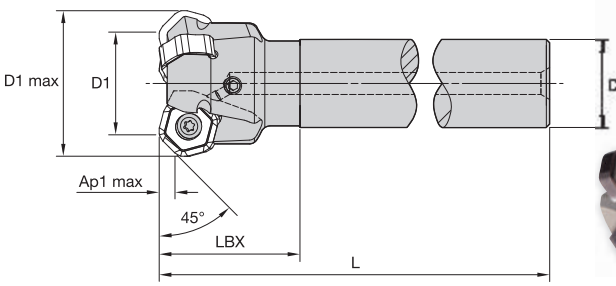
M1200 MINI

GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3957995	M1200D040Z04HN07	40	49	22	38	40	3,5	4	40	15.800	da	0,3	54.800,00
3957996	M1200D040Z05HN07	40	49	22	38	40	3,5	5	50	15.800	da	0,3	68.500,00
3957997	M1200D050Z04HN07	50	59	22	38	40	3,5	4	40	12.700	da	0,4	54.800,00
3957998	M1200D050Z05HN07	50	59	22	38	40	3,5	5	50	12.700	da	0,4	68.500,00
3957999	M1200D050Z06HN07	50	59	22	38	40	3,5	6	60	12.700	da	0,4	82.200,00
3958000	M1200D063Z04HN07	63	72	22	50	40	3,5	4	40	10.100	da	0,6	54.800,00
3958001	M1200D063Z06HN07	63	72	22	50	40	3,5	6	60	10.100	da	0,7	82.200,00
3958002	M1200D063Z08HN07	63	72	22	50	40	3,5	8	80	10.100	da	0,6	109.600,00
3958003	M1200D080Z05HN07	80	89	27	60	50	3,5	5	50	7.900	da	1,1	68.500,00
3958004	M1200D080Z08HN07	80	89	27	60	50	3,5	8	80	7.900	da	1,2	109.600,00
3958005	M1200D080Z10HN07	80	89	27	60	50	3,5	10	100	7.900	da	1,2	136.990,00
3958006	M1200D100Z06HN07	100	109	32	80	50	3,5	6	60	6.300	da	1,7	82.200,00
3958007	M1200D100Z09HN07	100	109	32	80	50	3,5	9	90	6.300	da	1,8	123.300,00
3958008	M1200D100Z12HN07	100	109	32	80	50	3,5	12	120	6.300	da	1,8	164.400,00
4138470	M1200D125Z08HN07	125	134	40	90	63	3,5	8	80	5.050	da	2,8	109.600,00
4138471	M1200D125Z12HN07	125	134	40	90	63	3,5	12	120	5.050	da	3,0	164.400,00
4138472	M1200D125Z16HN07	125	134	40	90	63	3,5	16	160	5.050	da	3,0	219.200,00

Garnitura: glodačka glava M1200 mini + pločice HNGJ ...

- 12 reznih ivica na pločici
- max. broj zuba na prečniku



M1200 MINI

GLODAČKA GLAVA + PLOČICE

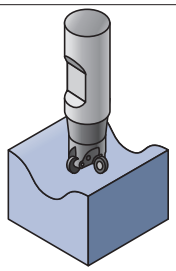
kataloški br.	oznaka	D1	D1 max	D	L	LBX	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
3958025	M1200D025Z02A20HN07L120	25	34	20	120	32	3,5	2	20	20.000	da	0,3	27.400,00
3958030	M1200D025Z03A25HN07L200	25	34	25	200	32	3,5	3	30	20.000	da	0,7	41.100,00
3958028	M1200D032Z04A25HN07L130	32	41	25	130	40	3,5	4	40	17.600	da	0,5	54.800,00

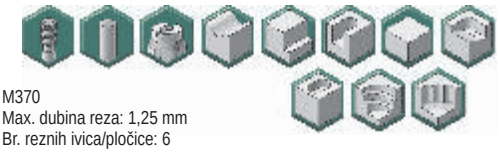
M370

Alat za velike brzine!

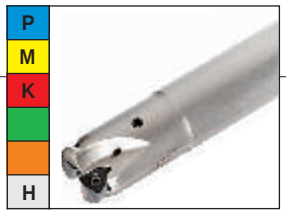
Strategija obrade se zasniva na malim dubinama i velikim posmacima.
Rezultat toga je visoka produktivnost sa niskim radijalnim silama.

- **Najnovija tehnologija.**
- **Izuzetne performanse i pouzdanost.**
- **Dvostrana pločica.**
- **6 reznih ivica.**
- **Prvi izbor je gruba obrada sa visokim posmacima.**
- **Veoma postojan i čvrst alat.**
- **Visoka ekonomičnost obrade.**





M370
Max. dubina reza: 1,25 mm
Br. reznih ivica/pločice: 6



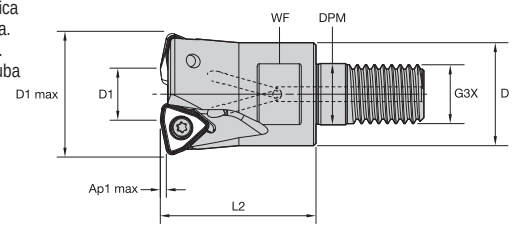
Pločice za M370			P	M	K	N	S	H
kataloški br.	oznaka	kvalitet						
4052410	WOEJ080412SRMH	TN6540	●	●	○			
4052411	WOEJ080412SRMH	TN6525	●	○	○			○
4052412	WOEJ080412SRMH	TN5515			●			
4068517	WOEJ080412SRMH	TN7535	●	○	○			
4136480	WOEJ080412SRMH	TN6520	○		●			
4113892	WOEJ080412SRMM	TN6525	●	○	○			○
4113915	WOEJ080412SRMM	TN6540	●	●	○			
4113916	WOEJ080412SRMM	TN7535	●	○	○			

Geometrija pločice		Opis
	MH	Prvi izbor je gruba obrada čelika i livenog gvožđa sa visokim posmacima.

Geometrija pločice		Opis
	MM	Prvi izbor je za čelike male čvrstoće i nerđajuće čelike. Male rezne sile.

Garnitura: glodačka glava M370 + pločice WOEJ ...

- Dvostrana pločica sa 6 reznih ivica.
- Visoki posmaci.
- Prvi izbor je gruba obrada.



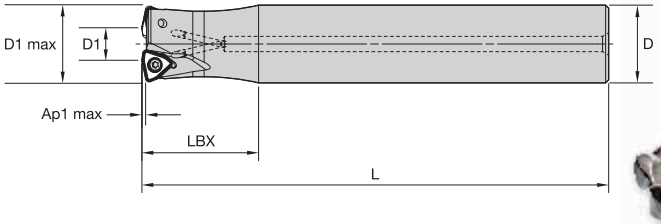
WOEJ ...

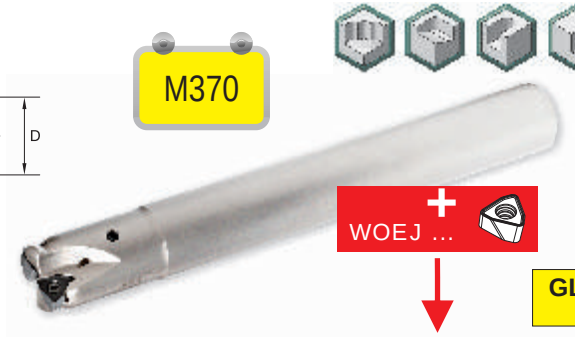
GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	DPM	G3X	L2	WF	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4056186	M370D025Z02M12WO08	11	25	21	12,5	M12	35	17	1,25	2	20	46.000	da	0,1	18.800,00
4170918	M370D025Z03M12WO08	11	25	21	12,5	M12	35	17	1,25	3	30	46.000	da	0,1	28.200,00
4056187	M370D032Z04M16WO08	18	32	29	17,0	M16	43	24	1,25	4	40	38.700	da	0,2	37.600,00
4056188	M370D042Z05M16WO08	28	42	29	17,0	M16	43	24	1,25	5	50	32.500	da	0,6	46.990,00

Garnitura: glodačka glava M370 + pločice WOEJ ...

- Dvostrana pločica sa 6 reznih ivica.
- Visoki posmaci.
- Prvi izbor je gruba obrada.





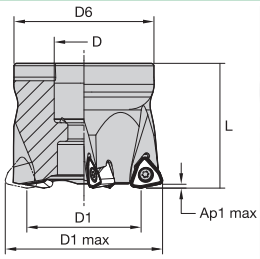
WOEJ ...

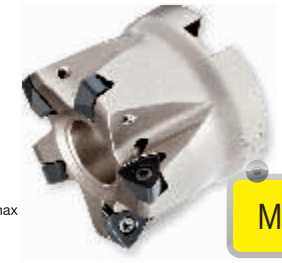
GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	L	LBX	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4008281	M370D025Z02A25WO08L200	11	25	25	200	50	1,25	2	20	46.000	da	0,7	18.800,00
4170920	M370D025Z02A25WO08L300	11	25	25	300	40	1,25	2	20	46.000	da	1,1	18.800,00
4056189	M370D025Z03A25WO08L150	11	25	25	150	40	1,25	3	30	46.000	da	0,5	28.200,00
4170919	M370D025Z03A25WO08L200	11	25	25	200	40	1,25	3	30	46.000	da	0,7	28.200,00
4056190	M370D028Z03A25WO08L200	14	28	25	200	40	1,25	3	30	42.400	da	0,7	28.200,00
4170921	M370D032Z03A32WO08L300	18	32	32	300	40	1,25	3	30	38.700	da	0,8	28.200,00
4056191	M370D032Z04A32WO08L150	18	32	32	150	40	1,25	4	40	38.700	da	0,8	37.600,00
4056192	M370D032Z04A32WO08L200	18	32	32	200	50	1,25	4	40	38.700	da	1,1	37.600,00

Garnitura: glodačka glava M370 + pločice WOEJ ...

- Dvostrana pločica sa 6 reznih ivica.
- Visoki posmaci.
- Prvi izbor je gruba obrada.





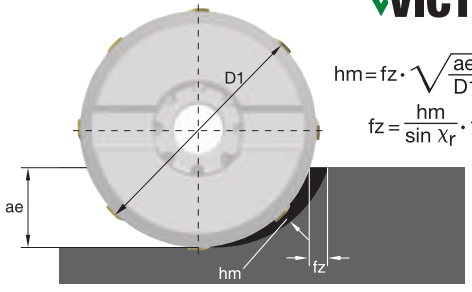
GLODAČKA GLAVA + PLOČICE

kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4056193	M370D040Z04WO08	26	40	16	37	40	1,25	4	40	33.500	da	0,2	37.600,00
4170922	M370D040Z05WO08	26	40	16	37	40	1,25	5	50	33.500	da	0,2	46.990,00
4008276	M370D050Z05WO08	36	50	22	44	40	1,25	5	50	29.200	da	0,3	46.990,00
4171223	M370D050Z06WO08	36	50	22	44	40	1,25	6	60	29.200	da	0,3	56.400,00
4056194	M370D052Z05WO08	38	52	22	44	50	1,25	5	50	28.600	da	0,4	46.990,00
4171224	M370D052Z06WO08	38	52	22	44	50	1,25	6	60	28.600	da	0,4	56.400,00
4056195	M370D063Z06WO08	49	63	22	60	50	1,25	6	60	25.500	da	0,7	56.400,00
4008277	M370D066Z06WO08	52	66	27	60	50	1,25	6	60	24.900	da	0,8	56.400,00
4171225	M370D080Z07WO08	66	80	27	60	50	1,25	7	70	24.900	da	2,4	65.800,00

Režimi za glodačke pločice za M370

Geometrija rezne ivice		TN5515			TN6520			TN6525			TN6540		
		posmak po zubu fz											
.. MM		0,35	0,8	1,5	0,35	0,8	1,5	0,35	0,8	1,5	0,35	0,9	1,6
.. MH		0,35	1,1	1,8	0,35	1,0	1,6	0,35	1,0	1,6	0,35	1,1	1,8
Materijal		vc (m/min)											
P	1				-	-	-	350	270	230	290	220	190
	2				-	-	-	240	180	160	200	150	130
	3				-	-	-	200	150	130	170	130	110
	4				-	-	-	210	160	130	170	130	110
	5				-	-	-	170	130	110	140	100	90
	6				230	170	140	230	170	140	190	140	120
	7				170	130	120	170	130	120	140	110	100
	8				150	120	100	150	120	100	130	100	80
	9				130	100	80	130	100	80	110	80	60
	10				170	140	130	170	140	130	140	120	100
	11				120	90	70	120	90	70	100	70	60
	12				-	-	-	220	170	140	180	140	120
	13.1				-	-	-	190	140	120	160	120	100
	13.2				-	-	-	100	70	60	80	60	50
M	14.1							190	120	90	160	100	70
	14.2							150	90	70	130	80	60
	14.3							120	70	50	100	60	40
	14.4							100	60	40	80	50	40
K	15	530	390	280	380	280	200	-	-	-	-	-	-
	16	410	310	230	300	220	170	-	-	-	-	-	-
	17	460	310	230	340	220	170	240	180	160	200	150	130
	18	300	220	170	220	160	120	200	150	130	170	130	110
	19	370	290	220	270	210	160	-	-	-	-	-	-
	20	310	230	180	220	170	130	-	-	-	-	-	-
H	38.1							120	90	70			
	38.2							-	-	-			
	39.1							-	-	-			
	39.2							-	-	-			

ae/D1=	0,2	0,3	0,4
fz - faktor	1,5	1,3	1,0
vz - faktor	1,3	1,2	1,1



Tehnički podaci za M370

Alat za velike brzine

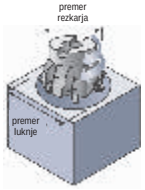
Strategija obrade se zasniva na malim dubinama i velikim posmacima. Rezultat toga je visoka produktivnost sa malim radijalnim silama

Osnovne programske informacije za upotrebu M370

dužina/prečnik	dubina rezanja	Posmak fz
<3	0,9 mm	1,0 mm-1,3 mm
>3 do <5	0,6 mm	1,0 mm-1,3 mm
>5 do <7	0,4 mm	0,6 mm-1,0 mm

Rt	t	Wt
2,5 mm	1 mm	7,5 mm

Maksimalni linearni nagib i kružna inerpolacija

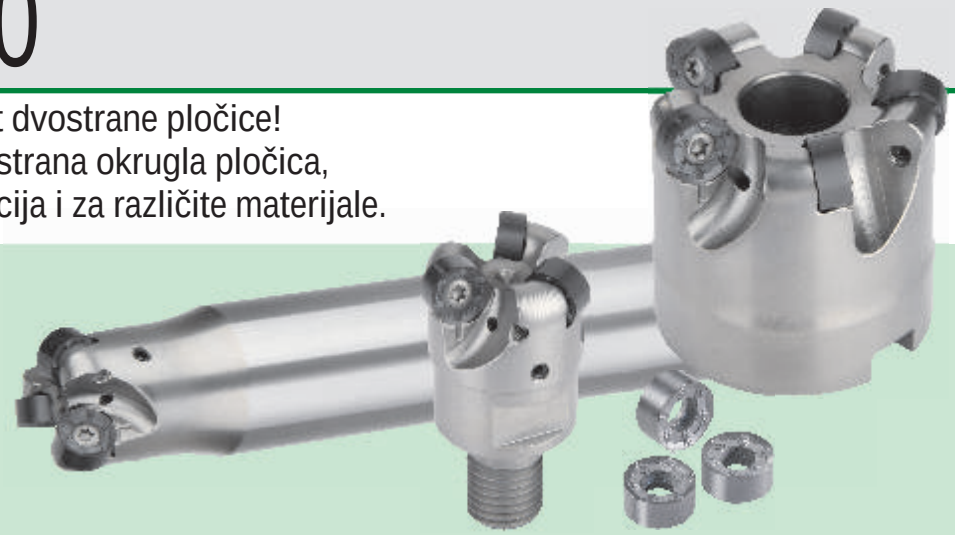


prečnik glodala	maks. ugao potapanja (linearno)	min. prečnik luka	max. prečnik luka	max Ap1/obr.
25	3,1°	30,2	49,5	1,25
28	2,6°	36,1	55,5	1,25
32	2,9°	44,1	63,5	1,25
40	1,6°	60,0	79,5	1,25
42	1,5°	64,0	83,5	1,25
50	1,3°	80,0	99,5	1,25
52	1,2°	84,0	103,5	1,25
63	1,0°	106,0	125,5	1,25
66	0,9°	112,0	131,5	1,25

M200

Maksimalna ekonomičnost dvostrane pločice!
Revolucionarna IC12 mm dvostrana okrugla pločica, koristi se za više glodačkih operacija i za različite materijale.

- **Najnovija tehnologija.**
- **Jedinstven anti-rotacioni oblik za odličnu stabilnost pri većim posmacima i velikim reznim silama.**
- **Dvostrana pločica.**
- **12 reznih ivica.**
- **Koristi se za različite materijale i za više glodačkih operacija.**



Geometrija pločice		Opis
	ML	Prvi izbor za nerdjajuće i visoko legirane čelike.

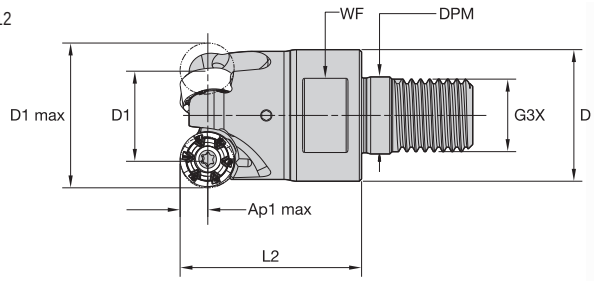
Geometrija pločice		Opis
	MM	MM geometrija je za univerzalnu upotrebu, posebno za čelike.

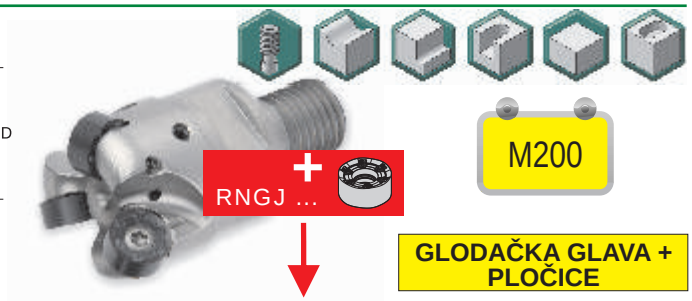
Geometrija pločice		Opis
	MH	Prvi izbor za teže obrade, za sivi liv i žilave čelike.

Pločice za M200			P	M	K	N	S	H
kataloški br.	oznaka	kvalitet						
5123863	RNGJ1204M0EML	WP25PM	●	●	○		●	○
5123864	RNGJ1204M0EML	WU35PM	●	●			●	
5123865	RNGJ1204M0EML	WP35CM	●	○	○			
5123900	RNGJ1204M0SMH	WK15PM			●			
5123901	RNGJ1204M0SMH	WP25PM	●	●	○		●	○
5123902	RNGJ1204M0SMH	WU35PM	●	●			●	
5123903	RNGJ1204M0SMH	WP35CM	●	○	○			
5123866	RNGJ1204M0SMM	WK15PM			●			
5123867	RNGJ1204M0SMM	WP25PM	●	●	○		●	○
5123868	RNGJ1204M0SMM	WU35PM	●	●			●	
5123869	RNGJ1204M0SMM	WP35CM	●	○	○			

Garnitura: glodačka glava M200 + pločice RNGJ ...

- dvostrana pločica sa 12 reznih ivica
- anti-rotacioni oblik za odličnu stabilnost i visoke posmake

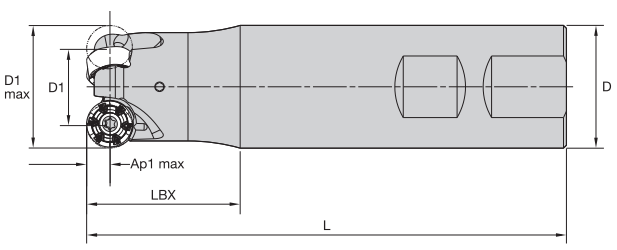


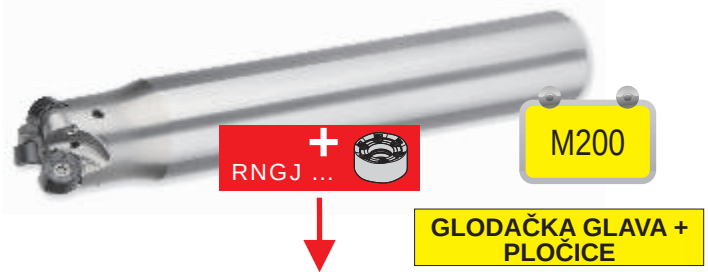


kataloški br.	oznaka	D1	D1 max	D	DPM	G3X	L2	WF	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4147560	M200D32Z03M16RN12	20	32	29	17,0	M16	40	24	3,00	3	30	39.160	da	0,2	20.400,00
4147561	M200D35Z03M16RN12	23	35	29	17,0	M16	40	24	3,00	3	30	37.440	da	0,2	20.400,00
4147562	M200D42Z04M16RN12	30	42	29	17,0	M16	40	24	3,00	4	40	34.180	da	0,2	27.200,00

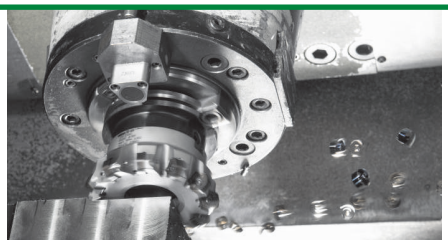
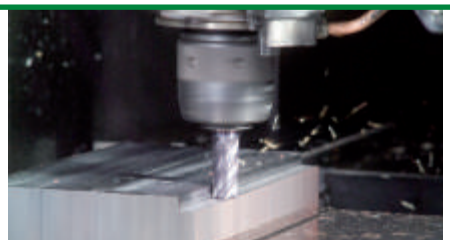
Garnitura: glodačka glava M200 + pločice RNGJ ...

- dvostrana ploeica sa 12 reznih ivica
- anti-rotacioni oblik za odličnu stabilnost i visoke posmake



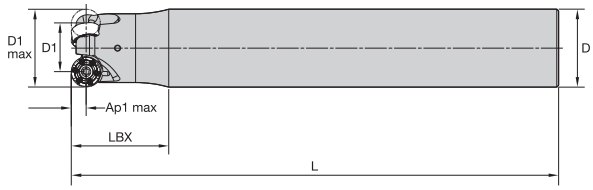


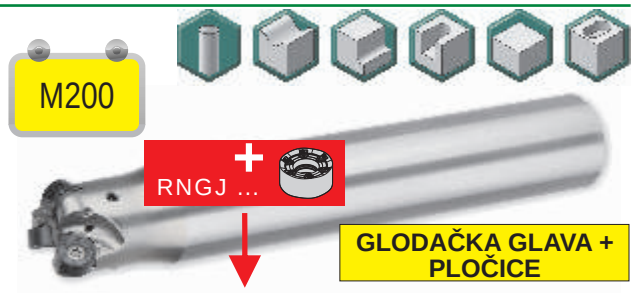
kataloški br.	oznaka	D1	D1 max	D	L	LBX	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4147564	M200D32Z03B32RN12	20	32	32	125	40	3,00	3	30	39.160	da	0,7	20.400,00

Garnitura: glodačka glava M200 + pločice RNGJ ...

- dvostrana pločica sa 12 reznih ivica
- anti-rotacioni oblik za odličnu stabilnost i visoke posmake

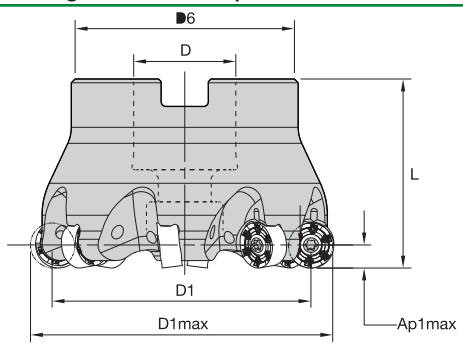


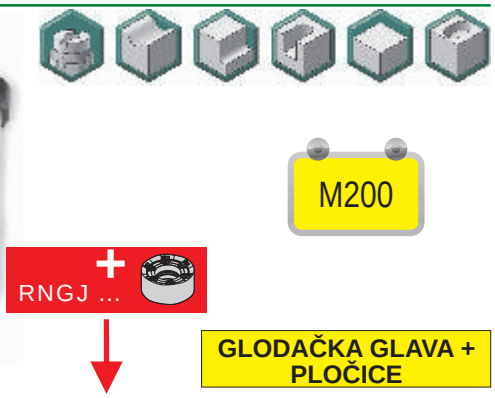


kataloški br.	oznaka	D1	D1 max	D	L	LBX	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4147566	M200D32Z03A32RN12L200	20	32	32	200	40	3,00	3	30	39.160	da	1,1	20.400,00

Garnitura: glodačka glava M200 + pločice RNGJ ...

- dvostrana pločica sa 12 reznih ivica
- anti-rotacioni oblik za odličnu stabilnost i visoke posmake



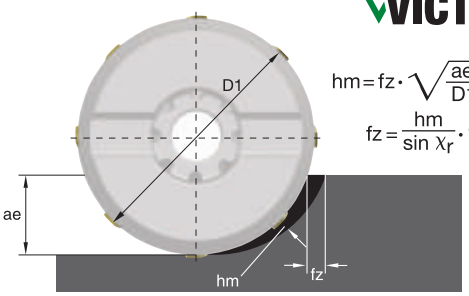


kataloški br.	oznaka	D1	D1 max	D	D6	L	Ap1 max	br. zuba	br. pločica	max. br. obr	unutraš. hlađenje	kg	cena/garniture
4147568	M200D40Z04RN12	28	40	16	38	40	3,00	4	40	35.020	da	0,2	27.200,00
4147569	M200D50Z04RN12	38	50	22	42	40	3,00	4	40	31.330	da	0,3	27.200,00
4147570	M200D50Z05RN12	38	50	22	42	40	3,00	5	50	31.330	da	0,3	33.990,00
4147571	M200D52Z05RN12	40	52	22	49	50	3,00	5	50	30.720	da	0,5	33.990,00
4147572	M200D63Z05RN12	51	63	22	49	50	3,00	5	50	27.910	da	0,6	33.990,00
4147573	M200D63Z07RN12	51	63	22	49	50	3,00	7	70	27.910	da	0,6	47.600,00
4147574	M200D66Z07RN12	54	66	27	60	50	3,00	7	70	27.260	da	0,8	47.600,00
4147577	M200D100Z07RN12	88	100	32	78	50	3,00	7	70	22.150	da	1,7	47.600,00
4147578	M200D100Z09RN12	88	100	32	78	50	3,00	9	90	22.150	da	1,6	61.200,00

Režimi za glodačke pločice za M200

Geometrija rezne ivice		WK15PM			WP25PM			WU35PM			WP35CM		
		posmak po zubu fz											
.. ML		0,05	0,11	0,17	0,05	0,11	0,17	0,06	0,12	0,20	0,06	0,12	0,20
.. MM		0,14	0,24	0,40	0,14	0,24	0,40	0,14	0,24	0,42	0,14	0,24	0,42
.. MH		0,23	0,32	0,50	0,23	0,32	0,52	0,23	0,35	0,52	0,23	0,35	0,52
Materijal		vc (m/min)											
P	1				325	345	395	255	275	315	545	475	440
	2				325	345	395	255	275	315	545	475	440
	3				325	345	395	255	275	315	545	475	440
	4				325	345	395	255	275	315	545	475	440
	5				325	345	395	255	275	315	545	475	440
	6				240	290	330	195	230	260	275	305	335
	7				240	290	330	195	230	260	275	305	335
	8				215	255	305	170	205	240	250	275	305
	9				215	255	305	170	205	240	250	275	305
	10				180	225	270	145	180	210	190	210	225
	11				180	225	270	145	180	210	190	210	225
	12				180	200	225	145	160	180	255	275	310
	13.1				120	150	200	95	120	160	-	165	190
	13.2				120	150	200	95	120	160	-	165	190
M	14.1				200	215	245	165	180	205	190	220	250
	14.2				115	145	170	95	120	140	140	160	175
	14.3				200	215	245	165	180	205	190	220	250
	14.4				160	190	225	130	160	185	170	195	225
K	15	260	295	325	220	250	275				285	320	355
	16	260	295	325	220	250	275				285	320	355
	17	215	225	255	180	195	215				230	255	280
	18	215	225	255	180	195	215				230	255	280
	19	170	190	215	145	160	180				195	210	235
	20	170	190	215	145	160	180				195	210	235
S	31				35	45	50	30	35	45			
	32				35	45	50	30	35	45			
	33				35	45	50	30	35	45			
	34				35	50	60	30	45	55			
	35				35	50	60	30	45	55			
	36				45	60	85	35	55	75			
	37				45	60	85	35	55	75			
H	38,1				85	110	145						

ae/D1=	0,2	0,3	0,4
fz - faktor	1,5	1,3	1,0
vz - faktor	1,3	1,2	1,1



VICTORY

$$hm = fz \cdot \sqrt{\frac{ae}{D1}} \cdot \sin \chi_r$$

$$fz = \frac{hm}{\sin \chi_r} \cdot \sqrt{\frac{D1}{ae}}$$

Za više informacija ili tehničku pomoć

034 540 488 fridro@open.telekom.rs

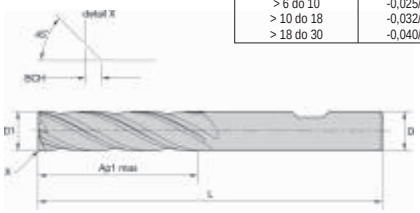
034 582 284 www.fridro.com

VariMill

Gruba i fina obrada sa jednim alatom.
Različite dužine i oblici alata.

VHM VariMill vretenasto glodalo 38°, Z=4, 4717 (produžen rezni deo)

Tolerancije za vretenasta glodala			
D1	tolerancija e8	D	tolerancija h6 +/-
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3 do 6	-0,020/-0,038	> 3 do 6	0/0,008
> 6 do 10	-0,025/-0,047	> 6 do 10	0/0,009
> 10 do 18	-0,032/-0,059	> 10 do 18	0/0,011
> 18 do 30	-0,040/-0,073	> 18 do 30	0/0,013



VariMill

TIALN-LW

D1	kataloški br.	D	Ap1 max	L	BCH	cena/kom
6,0	3641112	6	32,00	76	0,40	2.787,00
8,0	3641113	8	32,00	87	0,40	3.701,00
10,0	3641114	10	38,00	89	0,50	5.066,00
12,0	3641115	12	51,00	100	0,50	7.814,00
16,0	3641116	16	57,00	125	0,50	12.428,00

	P						M			K			S				H
	1	2	3	4	5	6	1	2	3	1	2	3	1	2	3	4	1
TiAlN	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

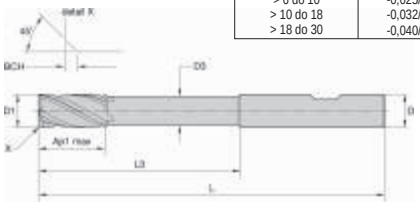
P - čelik **K** - sivi liv **S** - teško obradivi materijali
M - nerđajući čelik **N** - obojeni metali **H** - kaljeni čelik

Bočna obrada

	fina obrada			gruba obrada			Preporučeni posmak po zubu mm/zub (Fz = mm/zub) za bočno glodanje.						
	A		TiALN	A		TiALN							
			Vc m/min			Vc m/min			D1				
	ap	ae	min-max	ap	ae	min-max	mm	4,0	6,0	8,0	10,0	12,0	16,0
P1	Ap1 max	0,5 x D*	300-400	Ap1 max	0,2 x D	150-200	fz	-	0,044	0,060	0,072	0,083	0,101
P2	Ap1 max	0,5 x D*	280-380	Ap1 max	0,2 x D	140-190	fz	-	0,044	0,060	0,072	0,083	0,101
P3	Ap1 max	0,5 x D*	240-320	Ap1 max	0,2 x D	120-160	fz	-	0,036	0,050	0,061	0,070	0,087
P4	Ap1 max	0,5 x D*	180-300	Ap1 max	0,2 x D	90-150	fz	-	0,033	0,045	0,054	0,062	0,077
P5	Ap1 max	0,5 x D*	120-200	Ap1 max	0,2 x D	60-100	fz	-	0,029	0,040	0,048	0,056	0,070
P6	Ap1 max	0,5 x D*	100-150	Ap1 max	0,2 x D	50-75	fz	-	0,025	0,034	0,040	0,047	0,057
M1	Ap1 max	0,5 x D*	180-230	Ap1 max	0,2 x D	90-115	fz	-	0,036	0,050	0,061	0,070	0,087
M2	Ap1 max	0,5 x D*	120-160	Ap1 max	0,2 x D	60-80	fz	-	0,029	0,040	0,048	0,056	0,070
M3	Ap1 max	0,5 x D*	120-140	Ap1 max	0,2 x D	60-70	fz	-	0,025	0,034	0,040	0,047	0,057
K1	Ap1 max	0,5 x D*	240-300	Ap1 max	0,2 x D	120-150	fz	-	0,044	0,060	0,072	0,083	0,101
K2	Ap1 max	0,5 x D*	220-260	Ap1 max	0,2 x D	110-130	fz	-	0,036	0,050	0,061	0,070	0,087
K3	Ap1 max	0,5 x D*	200-260	Ap1 max	0,2 x D	100-130	fz	-	0,029	0,040	0,048	0,056	0,070
S1	Ap1 max	0,5 x D*	100-180	Ap1 max	0,2 x D	50-90	fz	-	0,036	0,050	0,061	0,070	0,087
S2	Ap1 max	0,5 x D*	50-80	Ap1 max	0,2 x D	25-40	fz	-	0,019	0,026	0,032	0,037	0,046
S3	Ap1 max	0,5 x D*	120-160	Ap1 max	0,2 x D	60-80	fz	-	0,029	0,040	0,048	0,056	0,070
S4	Ap1 max	0,5 x D*	100-120	Ap1 max	0,2 x D	50-60	fz	-	0,026	0,037	0,045	0,052	0,064
H1	Ap1 max	0,5 x D*	160-280	Ap1 max	0,2 x D	80-140	fz	-	0,033	0,045	0,054	0,062	0,077

VHM VariMill vretenasto glodalo 38°, Z=4, 47N6 (produženo stablo)

Tolerancije za vretenasta glodala			
D1	tolerancija e8	D	tolerancija h6 +/-
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3 do 6	-0,020/-0,038	> 3 do 6	0/0,008
> 6 do 10	-0,025/-0,047	> 6 do 10	0/0,009
> 10 do 18	-0,032/-0,059	> 10 do 18	0/0,011
> 18 do 30	-0,040/-0,073	> 18 do 30	0/0,013



VariMill

TIALN-LW

D1	kataloški br.	D	Ap1 max	L	L3	BCH	cena/kom
6,0	4067705	6	12,00	100	42	0,40	3.936,00
8,0	4067706	8	16,00	100	62	0,40	4.763,00
10,0	4067707	10	20,00	100	60	0,50	5.838,00
12,0	4067708	12	24,00	125	73	0,50	9.170,00
16,0	4067709	16	32,00	150	100	0,50	15.157,00

	P						M			K			S				H
	1	2	3	4	5	6	1	2	3	1	2	3	1	2	3	4	1
TiAlN	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

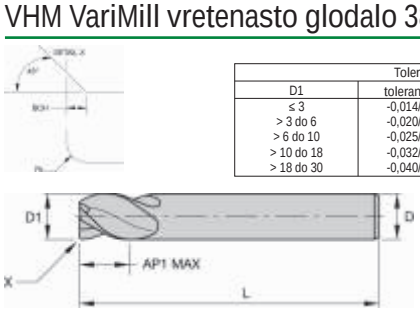
P - čelik **K** - sivi liv **S** - teško obradivi materijali
M - nerđajući čelik **N** - obojeni metali **H** - kaljeni čelik

Bočna obrada (A)
i obrada žljebova (B)

	A		B	TiALN	Preporučeni posmak po zubu mm/zub (Fz = mm/zob) za bočno glodanje (A).						
				Vc m/min	D1						
	ap	ae	ap	min-max	mm	4,0	6,0	8,0	10,0	12,0	16,0
P1	1,5 x D	0,5 x D	1 x D	150-200	fz	-	0,044	0,060	0,072	0,083	0,101
P2	1,5 x D	0,5 x D	1 x D	140-190	fz	-	0,044	0,060	0,072	0,083	0,101
P3	1,5 x D	0,5 x D	1 x D	120-160	fz	-	0,036	0,050	0,061	0,070	0,087
P4	1,5 x D	0,5 x D	0,75 x D	90-150	fz	-	0,033	0,045	0,054	0,062	0,077
P5	1,5 x D	0,5 x D	1 x D	60-100	fz	-	0,029	0,040	0,048	0,056	0,070
P6	1,5 x D	0,5 x D	0,75 x D	50-75	fz	-	0,025	0,034	0,040	0,047	0,057
M1	1,5 x D	0,5 x D	1 x D	90-115	fz	-	0,036	0,050	0,061	0,070	0,087
M2	1,5 x D	0,5 x D	1 x D	60-80	fz	-	0,029	0,040	0,048	0,056	0,070
M3	1,5 x D	0,5 x D	1 x D	60-70	fz	-	0,025	0,034	0,040	0,047	0,057
K1	1,5 x D	0,5 x D	1 x D	120-150	fz	-	0,044	0,060	0,072	0,083	0,101
K2	1,5 x D	0,5 x D	1 x D	110-130	fz	-	0,036	0,050	0,061	0,070	0,087
K3	1,5 x D	0,5 x D	1 x D	100-130	fz	-	0,029	0,040	0,048	0,056	0,070
S1	1,5 x D	0,3 x D	0,3 x D	50-90	fz	-	0,036	0,050	0,061	0,070	0,087
S2	1,5 x D	0,3 x D	0,3 x D	25-40	fz	-	0,019	0,026	0,032	0,037	0,046
S3	1,5 x D	0,5 x D	1 x D	60-80	fz	-	0,029	0,040	0,048	0,056	0,070
S4	1,5 x D	0,5 x D	1 x D	50-60	fz	-	0,026	0,037	0,045	0,052	0,064
H1	1,5 x D	0,5 x D	0,75 x D	80-140	fz	-	0,033	0,045	0,054	0,062	0,077

VHM VariMill vretenasto glodalo 38°, Z=4, 4777

Tolerancije za vretenasta glodala			
D1	tolerancija e8	D	tolerancija h6 +/-
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3 do 6	-0,020/-0,038	> 3 do 6	0/0,008
> 6 do 10	-0,025/-0,047	> 6 do 10	0/0,009
> 10 do 18	-0,032/-0,059	> 10 do 18	0/0,011
> 18 do 30	-0,040/-0,073	> 18 do 30	0/0,013



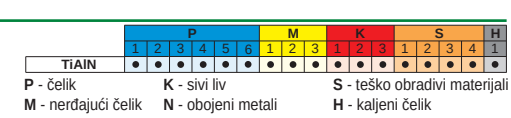
VariMill

TIALN-LW

D1	kataloški br.	D	Ap1 max	L	BCH	cena/kom
4,0	2882431	6	12,00	55	0,40	2.731,00
6,0	2882983	6	13,00	57	0,40	2.645,00
8,0	2882985	8	16,00	63	0,40	3.719,00
10,0	2882987	10	22,00	72	0,50	5.234,00
12,0	2882988	12	26,00	83	0,50	7.269,00
14,0	2882989	14	26,00	83	0,50	9.321,00
16,0	2202395	16	32,00	92	0,50	11.675,00

	P						M			K			S				H
	1	2	3	4	5	6	1	2	3	1	2	3	1	2	3	4	1
TiAlN	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

P - čelik **K** - sivi liv **S** - teško obradivi materijali
M - nerđajući čelik **N** - obojeni metali **H** - kaljeni čelik



Bočna obrada (A)
i obrada žljebova (B)

	A		B	TiALN	Preporučeni posmak po zubu mm/zub (Fz = mm/zob) za bočno glodanje (A).							
				Vc m/min	D1							
	ap	ae	ap	min-max	mm	4,0	6,0	8,0	10,0	12,0	14,0	16,0
P1	1,5 x D	0,5 x D	1 x D	150-200	fz	0,028	0,044	0,060	0,072	0,083	-	0,101
P2	1,5 x D	0,5 x D	1 x D	140-190	fz	0,028	0,044	0,060	0,072	0,083	-	0,101
P3	1,5 x D	0,5 x D	1 x D	120-160	fz	0,023	0,036	0,050	0,061	0,070	-	0,087
P4	1,5 x D	0,5 x D	0,75 x D	90-150	fz	0,021	0,033	0,045	0,054	0,062	-	0,077
P5	1,5 x D	0,5 x D	1 x D	60-100	fz	0,019	0,029	0,040	0,048	0,056	-	0,070
P6	1,5 x D	0,5 x D	0,75 x D	50-75	fz	0,016	0,025	0,034	0,040	0,047	-	0,057
M1	1,5 x D	0,5 x D	1 x D	90-115	fz	0,023	0,036	0,050	0,061	0,070	-	0,087
M2	1,5 x D	0,5 x D	1 x D	60-80	fz	0,019	0,029	0,040	0,048	0,056	-	0,070
M3	1,5 x D	0,5 x D	1 x D	60-70	fz	0,016	0,025	0,034	0,040	0,047	-	0,057
K1	1,5 x D	0,5 x D	1 x D	120-150	fz	0,028	0,044	0,060	0,072	0,083	-	0,101
K2	1,5 x D	0,5 x D	1 x D	110-130	fz	0,023	0,036	0,050	0,061	0,070	-	0,087
K3	1,5 x D	0,5 x D	1 x D	100-130	fz	0,019	0,029	0,040	0,048	0,056	-	0,070
S1	1,5 x D	0,3 x D	0,3 x D	50-90	fz	0,023	0,036	0,050	0,061	0,070	-	0,087
S2	1,5 x D	0,3 x D	0,3 x D	25-40	fz	0,013	0,019	0,026	0,032	0,037	-	0,046
S3	1,5 x D	0,5 x D	1 x D	60-80	fz	0,019	0,029	0,040	0,048	0,056	-	0,070
S4	1,5 x D	0,5 x D	1 x D	50-60	fz	0,016	0,026	0,037	0,045	0,052	-	0,064
H1	1,5 x D	0,5 x D	0,75 x D	80-140	fz	0,021	0,033	0,045	0,054	0,062	-	0,077

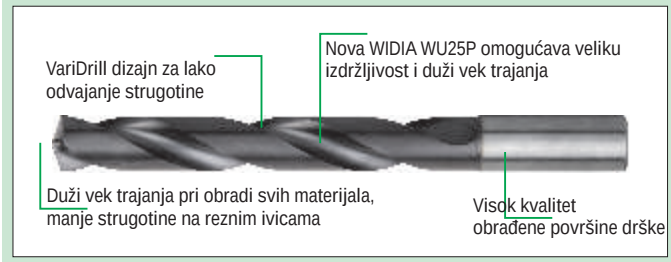
U ponudi su i druge standardne dimenzije koje nisu date u akciji!

WIDIA VICTORY Win with WIDIA™

VariDrill

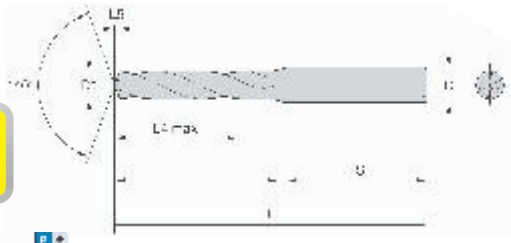
Multifunkcionalno bušenje

Serija VariDrill je zasnovana za višenamensko bušenje i za sve materijale



		D1 prečnik mm	L4 max	L5	L	LS	D	3XD cena/ kom	3XD cena/ kom
VDS201A01500	VDS401A01500	1,500	6	0,2	58	28	4	2.194,-	2.959,-
VDS201A01600	VDS401A01600	1,600	6	0,2	58	28	4	2.194,-	2.959,-
VDS201A01700	VDS401A01700	1,700	6	0,3	58	28	4	2.194,-	2.959,-
VDS201A01800	VDS401A01800	1,800	6	0,3	58	28	4	2.194,-	2.959,-
VDS201A01900	VDS401A01900	1,900	6	0,3	58	28	4	2.194,-	2.959,-
VDS201A02000	VDS401A02000	2,000	10	0,3	58	28	4	2.194,-	2.959,-
VDS201A02100	VDS401A02100	2,100	10	0,3	58	28	4	2.234,-	3.016,-
VDS201A02200	VDS401A02200	2,200	10	0,3	58	28	4	2.234,-	3.016,-
VDS201A02300	VDS401A02300	2,300	10	0,4	58	28	4	2.234,-	3.016,-
VDS201A02400	VDS401A02400	2,400	12	0,4	58	28	4	2.234,-	3.016,-
VDS201A02500	VDS401A02500	2,500	12	0,4	58	28	4	2.234,-	3.016,-
VDS201A02600	VDS401A02600	2,600	12	0,4	58	28	4	2.234,-	3.016,-
VDS201A02700	VDS401A02700	2,700	12	0,4	58	28	4	2.234,-	3.016,-
VDS201A02800	VDS401A02800	2,800	12	0,5	58	28	4	2.234,-	3.016,-
VDS201A02900	VDS401A02900	2,900	12	0,5	58	28	4	2.234,-	3.016,-
VDS201A03000	VDS401A03000	3,000	14	0,5	62	36	6	2.234,-	3.016,-
VDS201A03100	VDS401A03100	3,100	14	0,5	62	36	6	2.273,-	3.070,-
VDS201A03200	VDS401A03200	3,200	14	0,5	62	36	6	2.273,-	3.070,-
VDS201A03300	VDS401A03300	3,300	14	0,5	62	36	6	2.273,-	3.070,-
VDS201A03400	VDS401A03400	3,400	14	0,6	62	36	6	2.273,-	3.070,-
VDS201A03500	VDS401A03500	3,500	14	0,6	62	36	6	2.273,-	3.070,-
VDS201A03600	VDS401A03600	3,600	14	0,6	62	36	6	2.273,-	3.070,-
VDS201A03700	VDS401A03700	3,700	14	0,6	62	36	6	2.273,-	3.070,-
VDS201A03800	VDS401A03800	3,800	17	0,6	66	36	6	2.273,-	3.070,-
VDS201A03900	VDS401A03900	3,900	17	0,6	66	36	6	2.273,-	3.070,-
VDS201A04000	VDS401A04000	4,000	17	0,7	66	36	6	2.273,-	3.070,-
VDS201A04100	VDS401A04100	4,100	17	0,7	66	36	6	2.312,-	3.181,-
VDS201A04200	VDS401A04200	4,200	17	0,7	66	36	6	2.312,-	3.181,-
VDS201A04300	VDS401A04300	4,300	17	0,7	66	36	6	2.312,-	3.181,-
VDS201A04400	VDS401A04400	4,400	17	0,7	66	36	6	2.312,-	3.181,-
VDS201A04500	VDS401A04500	4,500	17	0,7	66	36	6	2.312,-	3.181,-
VDS201A04600	VDS401A04600	4,600	17	0,8	66	36	6	2.312,-	3.181,-
VDS201A04700	VDS401A04700	4,700	17	0,8	66	36	6	2.312,-	3.181,-
VDS201A04800	VDS401A04800	4,800	20	0,8	66	36	6	2.312,-	3.181,-
VDS201A04900	VDS401A04900	4,900	20	0,8	66	36	6	2.312,-	3.181,-
VDS201A05000	VDS401A05000	5,000	20	0,8	66	36	6	2.312,-	3.181,-
VDS201A05100	VDS401A05100	5,100	20	0,8	66	36	6	2.312,-	3.234,-
VDS201A05200	VDS401A05200	5,200	20	0,9	66	36	6	2.312,-	3.234,-
VDS201A05300	VDS401A05300	5,300	20	0,9	66	36	6	2.312,-	3.234,-
VDS201A05400	VDS401A05400	5,400	20	0,9	66	36	6	2.312,-	3.234,-
VDS201A05500	VDS401A05500	5,500	20	0,9	66	36	6	2.312,-	3.234,-
VDS201A05600	VDS401A05600	5,600	20	0,9	66	36	6	2.312,-	3.234,-
VDS201A05700	VDS401A05700	5,700	20	1,0	66	36	6	2.312,-	3.234,-
VDS201A05800	VDS401A05800	5,800	20	1,0	66	36	6	2.312,-	3.234,-
VDS201A05900	VDS401A05900	5,900	20	1,0	66	36	6	2.312,-	3.234,-
VDS201A06000	VDS401A06000	6,000	20	1,0	66	36	6	2.312,-	3.234,-
VDS201A06100	VDS401A06100	6,100	24	1,0	79	36	8	2.348,-	3.524,-
VDS201A06200	VDS401A06200	6,200	24	1,0	79	36	8	2.348,-	3.524,-
VDS201A06300	VDS401A06300	6,300	24	1,1	79	36	8	2.348,-	3.524,-
VDS201A06400	VDS401A06400	6,400	24	1,1	79	36	8	2.348,-	3.524,-
VDS201A06500	VDS401A06500	6,500	24	1,1	79	36	8	2.348,-	3.524,-
VDS201A06600	VDS401A06600	6,600	24	1,1	79	36	8	2.348,-	3.524,-
VDS201A06700	VDS401A06700	6,700	24	1,1	79	36	8	2.348,-	3.524,-
VDS201A06800	VDS401A06800	6,800	24	1,2	79	36	8	2.348,-	3.524,-
VDS201A06900	VDS401A06900	6,900	24	1,2	79	36	8	2.348,-	3.524,-
VDS201A07000	VDS401A07000	7,000	24	1,2	79	36	8	2.348,-	3.524,-
VDS201A07100	VDS401A07100	7,100	29	1,2	79	36	8	2.426,-	3.767,-
VDS201A07200	VDS401A07200	7,200	29	1,2	79	36	8	2.426,-	3.767,-
VDS201A07300	VDS401A07300	7,300	29	1,2	79	36	8	2.426,-	3.767,-
VDS201A07400	VDS401A07400	7,400	29	1,3	79	36	8	2.426,-	3.767,-
VDS201A07500	VDS401A07500	7,500	29	1,3	79	36	8	2.426,-	3.767,-
VDS201A07600	VDS401A07600	7,600	29	1,3	79	36	8	2.426,-	3.767,-
VDS201A07700	VDS401A07700	7,700	29	1,3	79	36	8	2.426,-	3.767,-
VDS201A07800	VDS401A07800	7,800	29	1,3	79	36	8	2.426,-	3.767,-
VDS201A07900	VDS401A07900	7,900	29	1,3	79	36	8	2.426,-	3.767,-
VDS201A08000	VDS401A08000	8,000	29	1,4	79	36	8	2.426,-	3.767,-
VDS201A08100	VDS401A08100	8,100	35	1,4	89	40	10	2.662,-	4.124,-
VDS201A08200	VDS401A08200	8,200	35	1,4	89	40	10	2.662,-	4.124,-
VDS201A08300	VDS401A08300	8,300	35	1,4	89	40	10	2.662,-	4.124,-
VDS201A08400	VDS401A08400	8,400	35	1,4	89	40	10	2.662,-	4.124,-
VDS201A08500	VDS401A08500	8,500	35	1,4	89	40	10	2.662,-	4.124,-
VDS201A08600	VDS401A08600	8,600	35	1,5	89	40	10	2.662,-	4.124,-
VDS201A08700	VDS401A08700	8,700	35	1,5	89	40	10	2.662,-	4.124,-
VDS201A08800	VDS401A08800	8,800	35	1,5	89	40	10	2.662,-	4.124,-
VDS201A08900	VDS401A08900	8,900	35	1,5	89	40	10	2.662,-	4.124,-
VDS201A09000	VDS401A09000	9,000	35	1,5	89	40	10	2.662,-	4.124,-
VDS201A09100	VDS401A09100	9,100	35	1,5	89	40	10	2.741,-	4.524,-
VDS201A09200	VDS401A09200	9,200	35	1,6	89	40	10	2.741,-	4.524,-
VDS201A09300	VDS401A09300	9,300	35	1,6	89	40	10	2.741,-	4.524,-
VDS201A09400	VDS401A09400	9,400	35	1,6	89	40	10	2.741,-	4.524,-
VDS201A09500	VDS401A09500	9,500	35	1,6	89	40	10	2.741,-	4.524,-
VDS201A09600	VDS401A09600	9,600	35	1,6	89	40	10	2.741,-	4.524,-
VDS201A09700	VDS401A09700	9,700	35	1,7	89	40	10	2.741,-	4.524,-
VDS201A09800	VDS401A09800	9,800	35	1,7	89	40	10	2.741,-	4.524,-
VDS201A09900	VDS401A09900	9,900	35	1,7	89	40	10	2.741,-	4.524,-

VariDrill



		D1 prečnik mm	L4 max	L5	L	LS	D	3XD cena/ kom	3XD cena/ kom
VDS201A10000	VDS401A10000	10,000	35	1,7	102	40	10	2.741,-	4.524,-
VDS201A10100	VDS401A10100	10,100	40	1,7	102	45	12	3.524,-	5.468,-
VDS201A10200	VDS401A10200	10,200	40	1,7	102	45	12	3.524,-	5.468,-
VDS201A10300	VDS401A10300	10,300	40	1,8	102	45	12	3.524,-	5.468,-
VDS201A10400	VDS401A10400	10,400	40	1,8	102	45	12	3.524,-	5.468,-
VDS201A10500	VDS401A10500	10,500	40	1,8	102	45	12	3.524,-	5.468,-
VDS201A10600	VDS401A10600	10,600	40	1,8	102	45	12	3.524,-	5.468,-
VDS201A10700	VDS401A10700	10,700	40	1,8	102	45	12	3.524,-	5.468,-
VDS201A10800	VDS401A10800	10,800	40	1,8	102	45	12	3.524,-	5.468,-
VDS201A10900	VDS401A10900	10,900	40	1,9	102	45	12	3.524,-	5.468,-
VDS201A11000	VDS401A11000	11,000	40	1,9	102	45	12	3.524,-	5.468,-
VDS201A11100	VDS401A11100	11,100	40	1,9	102	45	12	3.681,-	5.711,-
VDS201A11200	VDS401A11200	11,200	40	1,9	102	45	12	3.681,-	5.711,-
VDS201A11300	VDS401A11300	11,300	40	1,9	102	45	12	3.681,-	5.711,-
VDS201A11400	VDS401A11400	11,400	40	2,0	102	45	12	3.681,-	5.711,-
VDS201A11500	VDS401A11500	11,500	40	2,0	102	45	12	3.681,-	5.711,-
VDS201A11600	VDS401A11600	11,600	40	2,0	102	45	12	3.681,-	5.711,-
VDS201A11700	VDS401A11700	11,700	40	2,0	102	45	12	3.681,-	5.711,-
VDS201A11800	VDS401A11800	11,800	40	2,0	102	45	12	3.681,-	5.711,-
VDS201A11900	VDS401A11900	11,900	40	2,0	102	45	12	3.681,-	5.711,-
VDS201A12000	VDS401A12000	12,000	40	2,1	102	45	12	3.681,-	5.711,-
VDS201A12100	VDS401A12100	12,100	43	2,1	107	45	14	4.932,-	7.648,-
VDS201A12200	VDS401A12200	12,200	43	2,1	107	45	14	4.932,-	7.648,-
VDS201A12300	VDS401A12300	12,300	43	2,1	107	45	14	4.932,-	7.648,-
VDS201A12400	VDS401A12400	12,400	43	2,1	107	45	14	4.932,-	7.648,-
VDS201A12500	VDS401A12500	12,500	43	2,1	107	45	14	4.932,-	7.648,-
VDS201A12600	VDS401A12600	12,600	43	2,2	107	45	14	4.932,-	7.648,-
VDS201A12700	VDS401A12700	12,700	43	2,2	107	45	14	4.932,-	7.648,-

VDS20_ Serija - WU25PD

grupa		brzina rez. Vc opseg m/min min max	prečnik alata	preporučene stope posmaka 1,0	2,0	3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	1	60 - 100	mm/r	0,04-0,09	0,05-0,12	0,07-0,14	0,08-0,16	0,11-0,22	0,13-0,26	0,15-0,31	0,18-0,35	0,22-0,42	0,28-0,54
	2, 3, 4 ,6, 7	50 - 90	mm/r	0,05-0,10	0,06-0,13	0,08-0,15	0,09-0,17	0,13-0,23	0,15-0,28	0,19-0,33	0,22-0,38	0,26-0,47	0,34-0,59
	5, 9, 10, 11	50 - 100	mm/r	0,05-0,10	0,06-0,13	0,07-0,15	0,08-0,17	0,12-0,23	0,14-0,28	0,17-0,33	0,19-0,38	0,23-0,47	0,29-0,59
	12, 13	30 - 60	mm/r	0,03-0,05	0,04-0,06	0,05-0,08	0,06-0,10	0,08-0,14	0,10-0,18	0,13-0,22	0,14-0,24	0,18-0,32	0,23-0,41
M	14.1	30 - 50	mm/r	0,02-0,05	0,03-0,06	0,04-0,07	0,05-0,09	0,08-0,11	0,09-0,12	0,10-0,14	0,12-0,16	0,14-0,18	0,16-0,20
	14.3	40 - 60	mm/r	0,02-0,06	0,03-0,07	0,04-0,08	0,06-0,10	0,08-0,12	0,09-0,14	0,10-0,16	0,12-0,18	0,14-0,20	0,16-0,22
	14.2, 14.4	30 - 50	mm/r	0,02-0,05	0,03-0,06	0,04-0,07	0,06-0,09	0,08-0,11	0,09-0,12	0,10-0,14	0,12-0,16	0,14-0,18	0,16-0,20
K	15, 16	70 - 150	mm/r	0,06-0,13	0,07-0,14	0,09-0,18	0,10-0,19	0,13-0,25	0,16-0,30	0,18-0,35	0,20-0,39	0,25-0,48	0,30-0,59
	17, 18, 19	90 - 120	mm/r	0,08-0,11	0,09-0,12	0,10-0,13	0,10-0,15	0,13-0,20	0,16-0,25	0,18-0,29	0,20-0,32	0,25-0,38	0,30-0,48
	20	80 - 120	mm/r	0,04-0,10	0,06-0,12	0,06-0,14	0,07-0,15	0,10-0,20	0,11-0,24	0,14-0,28	0,15-0,32	0,19-0,38	0,24-0,48
N	21	90 - 270	mm/r	0,05-0,12	0,06-0,13	0,08-0,14	0,10-0,16	0,12-0,20	0,16-0,24	0,20-0,28	0,24-0,32	0,28-0,40	0,32-0,48
	22, 23, 24	90 - 270	mm/r	0,04-0,08	0,06-0,12	0,08-0,16	0,10-0,20	0,12-0,24	0,16-0,28	0,20-0,32	0,24-0,36	0,28-0,44	0,32-0,52
	25	90 - 225	mm/r	0,10-0,13	0,11-0,14	0,12-0,14	0,13-0,16	0,14-0,20	0,16-0,24	0,20-0,28	0,24-0,32	0,28-0,40	0,32-0,44
	26, 27, 28	90 - 270	mm/r	0,04-0,08	0,06-0,12	0,08-0,16	0,10-0,20	0,12-0,24	0,16-0,28	0,20-0,32	0,24-0,36	0,28-0,40	0,32-0,48
S	31, 32	20 - 30	mm/r	0,01-0,04	0,02-0,05	0,03-0,06	0,04-0,08	0,06-0,10	0,08-0,12	0,09-0,13	0,10-0,14	0,12-0,16	0,14-0,18
	33, 34, 35	10 - 30	mm/r	0,01-0,03	0,02-0,03	0,02-0,04	0,02-0,06	0,05-0,08	0,07-0,10	0,08-0,11	0,09-0,12	0,10-0,14	0,11-0,16
	36	20 - 40	mm/r	0,01-0,03	0,02-0,03	0,02-0,04	0,02-0,05	0,04-0,07	0,06-0,09	0,07-0,10	0,08-0,11	0,09-0,13	0,10-0,15
	37	20 - 50	mm/r	0,01-0,03	0,02-0,03	0,02-0,04	0,02-0,06	0,05-0,08	0,07-0,10	0,08-0,11	0,09-0,12	0,10-0,14	0,11-0,16

VDS40_ Serija - WU25PD

grupa		brzina rez. Vc opseg m/min min max	prečnik alata	preporučene stope posmaka 1,0	2,0	3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	1	70-140	mm/r	0,04-0,09	0,05-0,12	0,07-0,14	0,08-0,16	0,11-0,22	0,13-0,26	0,15-0,31	0,18-0,35	0,22-0,42	0,28-0,54
	2, 3, 4 ,6, 7	60-100	mm/r	0,05-0,10	0,06-0,13	0,08-0,15	0,09-0,17	0,13-0,23	0,15-0,28	0,19-0,33	0,22-0,38	0,26-0,47	0,34-0,59
	5, 9, 10, 11	50-100	mm/r	0,05-0,10	0,06-0,13	0,07-0,15	0,08-0,17	0,12-0,23	0,14-0,28	0,17-0,33	0,19-0,38	0,23-0,47	0,29-0,59
	12, 13	40-70	mm/r	0,03-0,05	0,04-0,06	0,05-0,08	0,06-0,10	0,08-0,14	0,10-0,18	0,13-0,22	0,14-0,24	0,18-0,32	0,23-0,41
M	14.1	30-50	mm/r	0,02-0,05	0,03-0,06	0,04-0,07	0,05-0,09	0,08-0,11	0,09-0,12	0,10-0,14	0,12-0,16	0,14-0,18	0,16-0,20
	14.3	40-60	mm/r	0,02-0,06	0,03-0,07	0,04-0,08	0,06-0,10	0,08-0,12	0,09-0,14	0,10-0,16	0,12-0,18	0,14-0,20	0,16-0,22
	14.2, 14.4	30-50	mm/r	0,02-0,05	0,03-0,06	0,04-0,07	0,06-0,09	0,08-0,11	0,09-0,12	0,10-0,14	0,12-0,16	0,14-0,18	0,16-0,20
K	15, 16	80-160	mm/r	0,07-0,14	0,08-0,15	0,10-0,20	0,11-0,22	0,14-0,28	0,18-0,34	0,21-0,40	0,23-0,44	0,28-0,54	0,34-0,67
	17, 18, 19	90-140	mm/r	0,09-0,13	0,10-0,14	0,11-0,14	0,12-0,17	0,14-0,23	0,18-0,28	0,21-0,32	0,23-0,36	0,28-0,43	0,34-0,54
	20	80-130	mm/r	0,05-0,12	0,06-0,14	0,07-0,15	0,08-0,17	0,11-0,23	0,13-0,27	0,15-0,32	0,17-0,36	0,22-0,43	0,27-0,54
N	21	90-315	mm/r	0,05-0,12	0,06-0,13	0,08-0,14	0,10-0,16	0,12-0,20	0,16-0,24	0,20-0,28	0,24-0,32	0,28-0,40	0,32-0,48
	22, 23, 24	90-270	mm/r	0,04-0,08	0,06-0,12	0,08-0,16	0,10-0,20	0,12-0,24	0,16-0,28	0,20-0,32	0,24-0,36	0,28-0,44	0,32-0,52
	25	90-270	mm/r	0,10-0,13	0,11-0,14	0,12-0,14	0,13-0,16	0,14-0,20	0,16-0,24	0,20-0,28	0,24-0,32	0,28-0,40	0,32-0,44
	26, 27, 28	90-270	mm/r	0,04-0,08	0,06-0,12	0,08-0,16	0,10-0,20	0,12-0,24	0,16-0,28	0,20-0,32	0,24-0,36	0,28-0,40	0,32-0,48
S	31, 32	20-30	mm/r	0,01-0,04	0,02-0,05	0,03-0,06	0,04-0,08	0,06-0,10	0,08-0,12	0,09-0,13	0,10-0,14	0,12-0,16	0,14-0,18
	33, 34, 35	10-30	mm/r	0,01-0,03	0,02-0,03	0,02-0,04	0,02-0,06	0,05-0,08	0,07-0,10	0,08-0,11	0,09-0,12	0,10-0,14	0,11-0,16
	36	10-40	mm/r	0,01-0,03	0,02-0,03	0,02-0,04	0,02-0,05	0,04-0,07	0,06-0,09	0,07-0,10	0,08-0,11	0,09-0,13	0,10-0,15
	37	10-40	mm/r	0,01-0,03	0,02-0,03	0,02-0,04	0,02-0,06	0,05-0,08	0,07-0,10	0,08-0,11	0,09-0,12	0,10-0,14	0,11-0,16

WIDIA VICTORY
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VariDrill

VariDrill

5XD

		D1 prečnik mm	L4 max	L5	L	LS	D	cena/ kom	cena/ kom
VDS202A01500	VDS402A01500	1,500	9	0,2	58	28	4	2.741,-	3.702,-
VDS202A01600	VDS402A01600	1,600	9	0,2	58	28	4	2.741,-	3.702,-
VDS202A01700	VDS402A01700	1,700	9	0,3	58	28	4	2.741,-	3.702,-
VDS202A01800	VDS402A01800	1,800	9	0,3	58	28	4	2.741,-	3.702,-
VDS202A01900	VDS402A01900	1,900	9	0,3	58	28	4	2.741,-	3.702,-
VDS202A02000	VDS402A02000	2,000	14	0,3	58	28	4	2.741,-	3.702,-
VDS202A02100	VDS402A02100	2,100	14	0,3	58	28	4	2.791,-	3.767,-
VDS202A02200	VDS402A02200	2,200	14	0,3	58	28	4	2.791,-	3.767,-
VDS202A02300	VDS402A02300	2,300	14	0,4	58	28	4	2.791,-	3.767,-
VDS202A02400	VDS402A02400	2,400	17	0,4	58	28	4	2.791,-	3.767,-
VDS202A02500	VDS402A02500	2,500	17	0,4	58	28	4	2.791,-	3.767,-
VDS202A02600	VDS402A02600	2,600	17	0,4	58	28	4	2.791,-	3.767,-
VDS202A02700	VDS402A02700	2,700	17	0,4	58	28	4	2.791,-	3.767,-
VDS202A02800	VDS402A02800	2,800	17	0,5	58	28	4	2.791,-	3.767,-
VDS202A02900	VDS402A02900	2,900	17	0,5	58	28	4	2.791,-	3.767,-
VDS202A03000	VDS402A03000	3,000	23	0,5	66	36	6	2.791,-	3.767,-
VDS202A03100	VDS402A03100	3,100	23	0,5	66	36	6	2.837,-	3.831,-
VDS202A03200	VDS402A03200	3,200	23	0,5	66	36	6	2.837,-	3.831,-
VDS202A03300	VDS402A03300	3,300	23	0,5	66	36	6	2.837,-	3.831,-
VDS202A03400	VDS402A03400	3,400	23	0,6	66	36	6	2.837,-	3.831,-
VDS202A03500	VDS402A03500	3,500	23	0,6	66	36	6	2.837,-	3.831,-
VDS202A03600	VDS402A03600	3,600	23	0,6	66	36	6	2.837,-	3.831,-
VDS202A03700	VDS402A03700	3,700	23	0,6	66	36	6	2.837,-	3.831,-
VDS202A03800	VDS402A03800	3,800	29	0,6	74	36	6	2.837,-	3.831,-
VDS202A03900	VDS402A03900	3,900	29	0,6	74	36	6	2.837,-	3.831,-
VDS202A04000	VDS402A04000	4,000	29	0,7	74	36	6	2.837,-	3.831,-
VDS202A04100	VDS402A04100	4,100	29	0,7	74	36	6	2.891,-	3.974,-
VDS202A04200	VDS402A04200	4,200	29	0,7	74	36	6	2.891,-	3.974,-
VDS202A04300	VDS402A04300	4,300	29	0,7	74	36	6	2.891,-	3.974,-
VDS202A04400	VDS402A04400	4,400	29	0,7	74	36	6	2.891,-	3.974,-
VDS202A04500	VDS402A04500	4,500	29	0,7	74	36	6	2.891,-	3.974,-
VDS202A04600	VDS402A04600	4,600	29	0,8	74	36	6	2.891,-	3.974,-
VDS202A04700	VDS402A04700	4,700	29	0,8	74	36	6	2.891,-	3.974,-
VDS202A04800	VDS402A04800	4,800	35	0,8	82	36	6	2.891,-	3.974,-
VDS202A04900	VDS402A04900	4,900	35	0,8	82	36	6	2.891,-	3.974,-
VDS202A05000	VDS402A05000	5,000	35	0,8	82	36	6	2.891,-	3.974,-
VDS202A05100	VDS402A05100	5,100	35	0,8	82	36	6	2.891,-	4.038,-
VDS202A05200	VDS402A05200	5,200	35	0,9	82	36	6	2.891,-	4.038,-
VDS202A05300	VDS402A05300	5,300	35	0,9	82	36	6	2.891,-	4.038,-
VDS202A05400	VDS402A05400	5,400	35	0,9	82	36	6	2.891,-	4.038,-
VDS202A05500	VDS402A05500	5,500	35	0,9	82	36	6	2.891,-	4.038,-
VDS202A05600	VDS402A05600	5,600	35	0,9	82	36	6	2.891,-	4.038,-
VDS202A05700	VDS402A05700	5,700	35	1,0	82	36	6	2.891,-	4.038,-
VDS202A05800	VDS402A05800	5,800	35	1,0	82	36	6	2.891,-	4.038,-
VDS202A05900	VDS402A05900	5,900	35	1,0	82	36	6	2.891,-	4.038,-
VDS202A06000	VDS402A06000	6,000	35	1,0	91	36	6	2.891,-	4.038,-
VDS202A06100	VDS402A06100	6,100	43	1,0	91	36	8	2.938,-	4.410,-
VDS202A06200	VDS402A06200	6,200	43	1,0	91	36	8	2.938,-	4.410,-
VDS202A06300	VDS402A06300	6,300	43	1,1	91	36	8	2.938,-	4.410,-
VDS202A06400	VDS402A06400	6,400	43	1,1	91	36	8	2.938,-	4.410,-
VDS202A06500	VDS402A06500	6,500	43	1,1	91	36	8	2.938,-	4.410,-
VDS202A06600	VDS402A06600	6,600	43	1,1	91	36	8	2.938,-	4.410,-
VDS202A06700	VDS402A06700	6,700	43	1,1	91	36	8	2.938,-	4.410,-
VDS202A06800	VDS402A06800	6,800	43	1,2	91	36	8	2.938,-	4.410,-
VDS202A06900	VDS402A06900	6,900	43	1,2	91	36	8	2.938,-	4.410,-
VDS202A07000	VDS402A07000	7,000	43	1,2	91	36	8	2.938,-	4.410,-
VDS202A07100	VDS402A07100	7,100	43	1,2	91	36	8	3.034,-	4.710,-
VDS202A07200	VDS402A07200	7,200	43	1,2	91	36	8	3.034,-	4.710,-
VDS202A07300	VDS402A07300	7,300	43	1,2	91	36	8	3.034,-	4.710,-
VDS202A07400	VDS402A07400	7,400	43	1,3	91	36	8	3.034,-	4.710,-
VDS202A07500	VDS402A07500	7,500	43	1,3	91	36	8	3.034,-	4.710,-
VDS202A07600	VDS402A07600	7,600	43	1,3	91	36	8	3.034,-	4.710,-
VDS202A07700	VDS402A07700	7,700	43	1,3	91	36	8	3.034,-	4.710,-
VDS202A07800	VDS402A07800	7,800	43	1,3	91	36	8	3.034,-	4.710,-
VDS202A07900	VDS402A07900	7,900	43	1,3	91	36	8	3.034,-	4.710,-
VDS202A08000	VDS402A08000	8,000	43	1,4	91	36	8	3.034,-	4.710,-
VDS202A08100	VDS402A08100	8,100	49	1,4	103	40	10	3.327,-	5.160,-
VDS202A08200	VDS402A08200	8,200	49	1,4	103	40	10	3.327,-	5.160,-
VDS202A08300	VDS402A08300	8,300	49	1,4	103	40	10	3.327,-	5.160,-
VDS202A08400	VDS402A08400	8,400	49	1,4	103	40	10	3.327,-	5.160,-
VDS202A08500	VDS402A08500	8,500	49	1,4	103	40	10	3.327,-	5.160,-
VDS202A08600	VDS402A08600	8,600	49	1,5	103	40	10	3.327,-	5.160,-
VDS202A08700	VDS402A08700	8,700	49	1,5	103	40	10	3.327,-	5.160,-
VDS202A08800	VDS402A08800	8,800	49	1,5	103	40	10	3.327,-	5.160,-
VDS202A08900	VDS402A08900	8,900	49	1,5	103	40	10	3.327,-	5.160,-
VDS202A09000	VDS402A09000	9,000	49	1,5	103	40	10	3.327,-	5.160,-
VDS202A09100	VDS402A09100	9,100	49	1,5	103	40	10	3.838,-	5.203,-
VDS202A09200	VDS402A09200	9,200	49	1,6	103	40	10	3.838,-	5.203,-
VDS202A09300	VDS402A09300	9,300	49	1,6	103	40	10	3.838,-	5.203,-
VDS202A09400	VDS402A09400	9,400	49	1,6	103	40	10	3.838,-	5.203,-
VDS202A09500	VDS402A09500	9,500	49	1,6	103	40	10	3.838,-	5.203,-
VDS202A09600	VDS402A09600	9,600	49	1,6	103	40	10	3.838,-	5.203,-
VDS202A09700	VDS402A09700	9,700	49	1,7	103	40	10	3.838,-	5.203,-
VDS202A09800	VDS402A09800	9,800	49	1,7	103	40	10	3.838,-	5.203,-
VDS202A09900	VDS402A09900	9,900	49	1,7	103	40	10	3.838,-	5.203,-
VDS202A10000	VDS402A10000	10,000	49	1,7	103	40	10	3.838,-	5.203,-
VDS202A10100	VDS402A10100	10,100	56	1,7	118	45	12	4.410,-	6.833,-
VDS202A10200	VDS402A10200	10,200	56	1,7	118	45	12	4.410,-	6.833,-
VDS202A10300	VDS402A10300	10,300	56	1,8	118	45	12	4.410,-	6.833,-
VDS202A10400	VDS402A10400	10,400	56	1,8	118	45	12	4.410,-	6.833,-
VDS202A10500	VDS402A10500	10,500	56	1,8	118	45	12	4.410,-	6.833,-
VDS202A10600	VDS402A10600	10,600	56	1,8	118	45	12	4.410,-	6.833,-
VDS202A10700	VDS402A10700	10,700	56	1,8	118	45	12	4.410,-	6.833,-
VDS202A10800	VDS402A10800	10,800	56	1,8	118	45	12	4.410,-	6.833,-
VDS202A10900	VDS402A10900	10,900	56	1,9	118	45	12	4.410,-	6.833,-
VDS202A11000	VDS402A11000	11,000	56	1,9	118	45	12	4.410,-	6.833,-
VDS202A11100	VDS402A11100	11,100	56	1,9	118	45	12	4.603,-	7.133,-
VDS202A11200	VDS402A11200	11,200	56	1,9	118	45	12	4.603,-	7.133,-
VDS202A11300	VDS402A11300	11,300	56	1,9	118	45	12	4.603,-	7.133,-
VDS202A11400	VDS402A11400	11,400	56	2,0	118	45	12	4.603,-	7.133,-
VDS202A11500	VDS402A11500	11,500	56	2,0	118	45	12	4.603,-	7.133,-
VDS202A11600	VDS402A11600	11,600	56	2,0	118	45	12	4.603,-	7.133,-
VDS202A11700	VDS402A11700	11,700	56	2,0	118	45	12	4.603,-	7.133,-
VDS202A11800	VDS402A11800	11,800	56	2,0	118	45	12	4.603,-	7.133,-
VDS202A11900	VDS402A11900	11,900	56	2,0	118	45	12	4.603,-	7.133,-
VDS202A12000	VDS402A12000	12,000	56	2,1	118	45	12	4.603,-	7.133,-
VDS202A12100	VDS402A12100	12,100	60	2,1	124	45	14	6.168,-	9.542,-
VDS202A12200	VDS402A12200	12,200	60	2,1	124	45	14	6.168,-	9.542,-
VDS202A12300	VDS402A12300	12,300	60	2,1	124	45	14	6.168,-	9.542,-
VDS202A12400	VDS402A12400	12,400	60	2,1	124	45	14	6.168,-	9.542,-
VDS202A12500	VDS402A12500	12,500	60	2,1	124	45	14	6.168,-	9.542,-
VDS202A12600	VDS402A12600	12,600	60	2,2	124	45	14	6.168,-	9.542,-
VDS202A12700	VDS402A12700	12,700	60	2,2	124	45	14	6.168,-	9.542,-

8XD

	D1 prečnik mm	L4 max	L5	L	LS	D	cena/ kom
VDS403A01500	1,500	15	0,2	58	28	4	5.918,-
VDS403A01600	1,600	15	0,2	58	28	4	5.918,-
VDS403A01700	1,700	15	0,3	58	28	4	5.918,-
VDS403A01800	1,800	15	0,3	58	28	4	5.918,-
VDS403A01900	1,900	15	0,3	58	28	4	5.918,-
VDS403A02000	2,000	22	0,3	66	28	4	5.918,-
VDS403A02100	2,100	22	0,3	66	28	4	6.032,-
VDS403A02200	2,200	22	0,3	66	28	4	6.032,-
VDS403A02300	2,300	22	0,4	66	28	4	6.032,-
VDS403A02400	2,400	25	0,4	66	28	4	6.032,-
VDS403A02500	2,500	25	0,4	66	28	4	6.032,-
VDS403A02600	2,600	25	0,4	66	28	4	6.032,-
VDS403A02700	2,700	25	0,4	66	28	4	6.032,-
VDS403A02800	2,800	25	0,5	66	28	4	6.032,-
VDS403A02900	2,900	25	0,5	66	28	4	6.032,-
VDS403A03000	3,000	33	0,5	78	36	6	6.032,-
VDS403A03100	3,100	33	0,5	78	36	6	6.132,-
VDS403A03200	3,200	33	0,5	78	36	6	6.132,-
VDS403A03300	3,300	33	0,5	78	36	6	6.132,-
VDS403A03400	3,400	33	0,6	78	36	6	6.132,-
VDS403A03500	3,500	33	0,6	78	36	6	6.132,-
VDS403A03600	3,600	33	0,6	78	36	6	6.132,-
VDS403A03700	3,700	33	0,6	78	36	6	6.132,-
VDS403A03800	3,800	41	0,6	87	36	6	6.132,-
VDS403A03900	3,900	41	0,6	87	36	6	6.132,-
VDS403A04000	4,000	41	0,7	87	36	6	6.132,-
VDS403A04100	4,100	41	0,7	87	36	6	6.354,-
VDS403A04200	4,200	41	0,7	87	36	6	6.354,-
VDS403A04300	4,300	41	0,7	87	36	6	6.354,-
VDS403A04400	4,400	41	0,7	87	36	6	6.354,-
VDS403A04500	4,500	41	0,7	87	36	6	6.354,-
VDS403A04600	4,600	41	0,8	87	36	6	6.354,-
VDS403A04700	4,700	41	0,8	87	36	6	6.354,-
VDS403A04800	4,800	48	0,8	94	36	6	6.354,-
VDS403A04900	4,900	48	0,8	94	36	6	6.354,-
VDS403A05000	5,000	48	0,8	94	36	6	6.354,-
VDS403A05100	5,100	48	0,8	94	36	6	6.468,-
VDS403A05200	5,200	48	0,9	94	36	6	6.468,-
VDS403A05300	5,300	48	0,9	94	36	6	6.468,-
VDS403A05400	5,400	48	0,9	94	36	6	6.468,-
VDS403A05500	5,500	48	0,9	94	36	6	6.468,-
VDS403A05600	5,600	48	0,9	94	36	6	6.468,-
VDS403A05700	5,700	48	1,0	94	36	6	6.468,-
VDS403A05800	5,800	48	1,0	94	36	6	6.468,-
VDS403A05900	5,900	48	1,0	94	36	6	6.468,-
VDS403A06000	6,000	48	1,0	94	36	6	6.468,-
VDS403A06100	6,100	57	1,0	105	36	8	7.047,-
VDS403A06200	6,200	57	1,0	105	36	8	7.047,-
VDS403A06300	6,300	57	1,1	105	36	8	7.047,-
VDS403A06400	6,400	57	1,1	105	36	8	7.047,-
VDS403A06500	6,500	57	1,1	105	36	8	7.047,-
VDS403A06600	6,600	57	1,1	105	36	8	7.047,-
VDS403A06700	6,700	57	1,1	105	36	8	7.047,-
VDS403A06800	6,800	57	1,2	105	36	8	7.047,-
VDS403A06900	6,900	57	1,2	105	36	8	7.047,-
VDS403A07000	7,000	57	1,2	105	36	8	7.047,-
VDS403A07100	7,100	61	1,2	110	36	8	7.540,-
VDS403A07200	7,200	61	1,2	110	36	8	7.540,-
VDS403A07300	7,300	61	1,2	110	36	8	7.540,-
VDS403A07400	7,400	61	1,3	110	36	8	7.540,-
VDS403A07500	7,500	61	1,3	110	36	8	7.540,-
VDS403A07600	7,600	61	1,3	110	36	8	7.540,-
VDS403A07700	7,700	61	1,3	110	36	8	7.540,-
VDS403A07800	7,800	61	1,3	110	36	8	7.540,-
VDS403A07900	7,900	61	1,3	110	36	8	7.540,-
VDS403A08000	8,000	61	1,4	110	36	8	7.540,-
VDS403A08100	8,100	68	1,4	122	40	10	8.255,-
VDS403A08200	8,200	68	1,4	122	40	10	8.255,-
VDS403A08300	8,300	68	1,4	122	40	10	8.255,-
VDS403A08400	8,400	68	1,4	122	40	10	8.255,-
VDS403A08500	8,500	68	1,4	122	40	10	8.255,-
VDS403A08600	8,600	68	1,5	122	40	10	8.255,-
VDS403A08700	8,700	68	1,5	122	40	10	8.255,-
VDS403A08800	8,800	68	1,5	122	40	10	8.255,-
VDS403A08900	8,900	68	1,5	122	40	10	8.255,-
VDS403A09000	9,000	68	1,5	122	40	10	8.255,-
VDS403A09100	9,100	68	1,5	122	40	10	9.363,-
VDS403A09200	9,200	68	1,6	122	40	10	9.363,-
VDS403A09300	9,300	68	1,6	122	40	10	9.363,-
VDS403A09400	9,400	68	1,6	122	40	10	9.363,-
VDS403A09500	9,500	68	1,6	122	40	10	9.363,-
VDS403A09600	9,600	68	1,6	122	40	10	9.363,-
VDS403A09700	9,700	68	1,7	122	40	10	9.363,-
VDS403A09800	9,800	68	1,7	122	40	10	9.363,-
VDS403A09900	9,900	68	1,7	122	40	10	9.363,-
VDS403A10000	10,000	68	1,7	122	40	10	9.363,-
VDS403A10100	10,100	79	1,7	141	45	12	10.935,-
VDS403A10200	10,200	79	1,7	141	45	12	10.935,-
VDS403A10300	10,300	79	1,8	141	45	12	10.935,-
VDS403A10400	10,400	79	1,8	141	45	12	10.935,-
VDS403A10500	10,500	79	1,8	141	45	12	10.935,-
VDS403A10600	10,600	79	1,8	141	45	12	10.935,-
VDS403A10700	10,700	79	1,8	141	45	12	10.935,-
VDS403A10800	10,800	79	1,8	141	45	12	10.935,-
VDS403A10900	10,900	79	1,9	141	45	12	10.935,-
VDS403A11000	11,000	79	1,9	141	45	12	10.935,-
VDS403A11100	11,100	79	1,9	141	45	12	11.400,-
VDS403A11200	11,200	79	1,9	141	45	12	11.400,-
VDS403A11300	11,300	79	1,9	141	45	12	11.400,-
VDS403A11400	11,400	79	2,0	141	45	12	11.400,-
VDS403A11500	11,500	79	2,0	141	45	12	11.400,-
VDS403A11600	11,600	79	2,0	141	45	12	11.400,-
VDS403A11700	11,700	79	2,0	141	45	12	11.400,-
VDS403A11800	11,800	79	2,0	141	45	12	11.400,-
VDS403A11900	11,900	79	2,0	141	45	12	11.400,-
VDS403A12000	12,000	79	2,1	141	45	12	11.400,-
VDS403A12100	12,100	91	2,1	155	45	14	15.295,-
VDS403A12200	12,200	91	2,1	155	45	14	15.295,-
VDS403A12300	12,300	91	2,1	155	45	14	15.295,-
VDS403A12400	12,400	91	2,1	155	45	14	15.295,-
VDS403A12500	12,500	91	2,1	155	45	14	15.295,-
VDS403A12600	12,600	91	2,2	155	45	14	15.295,-
VDS403A12700	12,700	91	2,2	155	45	14	15.295,-