

FRIDRO

ALL IN ONE PLACE

11/25

WIDIA

special offer

Valid until: 23.12.2025

VSM890

Optimized chip gash design for proper chip evacuation

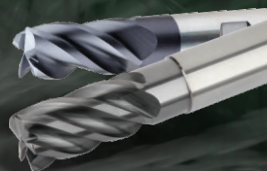
02



WCE

Versatile Solid Carbide End Mills

08



TOP CUT 4

Top Cut 4 drills – a versatile solution for reliable drilling.

10



WIDIA



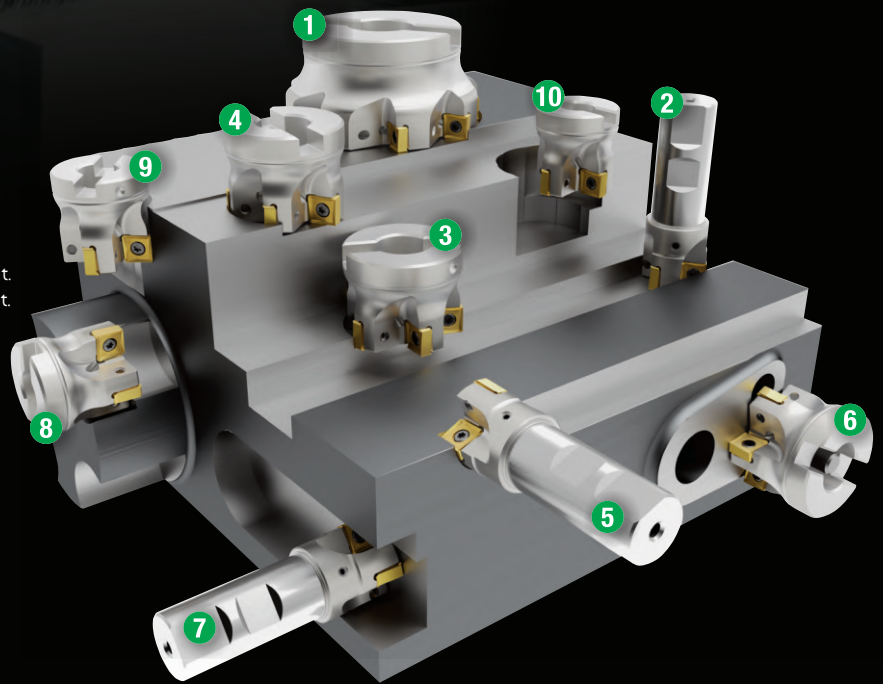
WIDIATM

VSM890

Mill more for less!

Applications

1. Face milling.
2. Full slotting with 100% radial engagement.
3. Shoulder milling with stepping down and great wall finish.
4. Shoulder milling with low axial and high radial engagement.
5. Shoulder milling with low radial and high axial engagement.
6. HPC face milling. First choice to clean up castings.
7. Dynamic/trochoidal slot milling.
8. Z-axis plunge milling.
9. Z-axis contour plunge milling.
10. Z-axis zig-zag slot plunge milling.



Why choose VSM890?

- Exceptional productivity** – enables high cutting speeds and large milling depths
- Longer tool life** – optimized geometry and advanced inserts
- Versatile application** – suitable for steels, stainless steels, and cast iron
- Stable machining** – reduced vibrations for smoother surfaces and higher accuracy
- Cost savings** – fewer tool changes

Cutting speeds and feeds



Scan the code with your smartphone to view additional specifications and cutting parameters.



Unique insert

WIDIA

M

Stainless steel
M20-M35

P

Steel
P20-P45

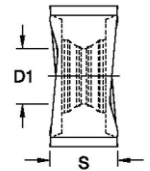
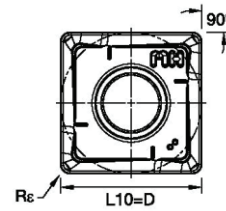
K

Cast iron
K25-K40

7230957

6,90

price/pc

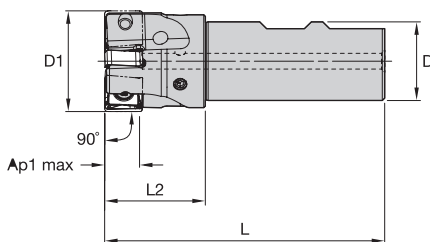


WU35PM

SNPX120408PNSRMHD8

No. of cutting edges	LI	S	D	Re
8	12,00	4,762	12,0	0,80

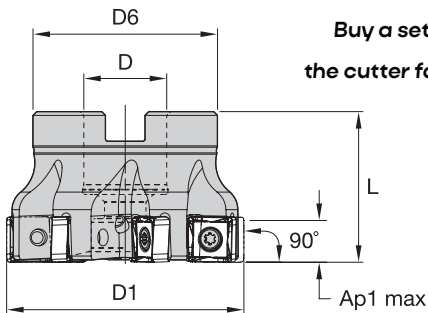
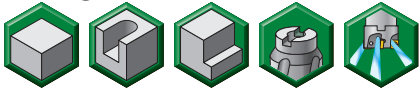
Milling head VSM 890 + set of inserts



Buy a set of inserts and get
the cutter for **only 1,- €**

Cat. no.	Mark	D1	D	L	L2	Ap1 max	No. of inserts	max RPM	Coolant supply	kg	No. of inserts in set
6596066	VSM890D032Z03B25SN12	32	25	89	32	9,8	3	33200	Yes	0,31	30

Milling head VSM 890 + set of inserts



Buy a set of inserts and get
the cutter for **only 1,- €**



Cat. no.	Mark	D1	D	D6	L	Ap1 max	No. of inserts	max RPM	Coolant supply	kg	No. of inserts in set
6596067	VSM890D040Z04S22SN12	40	22	39	40	9,8	4	28000	Yes	0,20	40
6596068	VSM890D050Z04S22SN12	50	22	49	40	9,8	4	24100	Yes	0,32	40
6596069	VSM890D040Z05S22SN12	50	22	49	40	9,8	5	24100	Yes	0,32	50
6596070	VSM890D063Z05S22SN12	63	22	49	40	9,8	5	20800	Yes	0,48	50
6596111	VSM890D063Z07S22SN12	63	22	49	40	9,8	7	20800	Yes	0,45	70
6596112	VSM890D080Z05S27SN12	80	27	60	50	9,8	5	18000	Yes	0,96	50
6596113	VSM890D080Z07S27SN12	80	27	60	50	9,8	7	18000	Yes	1,03	70
6596114	VSM890D080Z09S27SN12	80	27	60	50	9,8	9	18000	Yes	1,01	90
6596115	VSM890D100Z06S32SN12	100	32	78	50	9,8	6	15800	Yes	1,69	60
6596116	VSM890D100Z08S32SN12	100	32	78	50	9,8	8	15800	Yes	1,56	80
6596117	VSM890D100Z11S32SN12	100	32	78	50	9,8	11	15800	Yes	1,53	110
6596118	VSM890D125Z07S40SN12	125	40	89	63	9,8	7	13900	Yes	2,79	70
6596119	VSM890D125Z10S40SN12	125	40	89	63	9,8	10	13900	Yes	2,98	100
6596121	VSM890D125Z14S40SN12	125	40	89	63	9,8	14	13900	Yes	2,86	140
6596122	VSM890D160Z08S40SN12	160	40	110	63	9,8	8	12200	Yes	4,10	80
6596123	VSM890D160Z12S40SN12	160	40	110	63	9,8	12	12200	Yes	4,15	120
6596124	VSM890D160Z16S40SN12	160	40	110	63	9,8	16	12200	Yes	8,97	160
6596125	VSM890D200Z10S60SN12	200	60	130	63	9,8	10	10800	Yes	5,62	100
6596126	VSM890D200Z14S60SN12	200	60	130	63	9,8	14	10800	Yes	5,59	140
6596127	VSM890D200Z22S60SN12	200	60	130	63	9,8	22	10800	Yes	5,67	220
6596128	VSM890D250Z16S60SN12	250	60	130	63	9,8	16	9600	Yes	8,10	160

WIDIA[™]

VSM 11



Inserts XDCT...

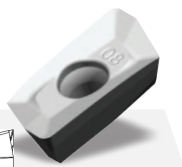
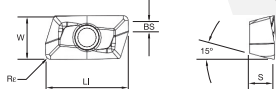
WIDIA[™]

WN10HM

5936171

8,10

price/pc



XDCT110408PDFRALP

No. of edges	LI	BS	S	W	Re	hm
2	13,44	1,69	4,00	6,90	0,80	0,02

Inserts XDPT...

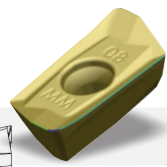
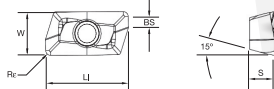
WIDIA[™]

WS40PM

6180148

7,50

price/pc



XDPT110408PDSRMM

No. of edges	LI	BS	S	W	Re	hm
2	13,50	1,66	4,13	6,94	0,78	0,06

Inserts XDET...

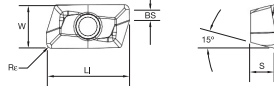
WIDIA[™]

WU20PM

6487443

5,50

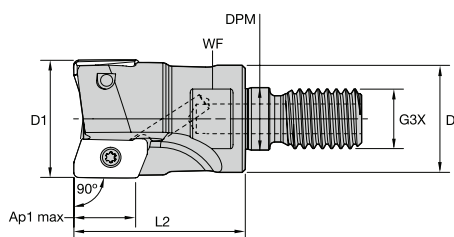
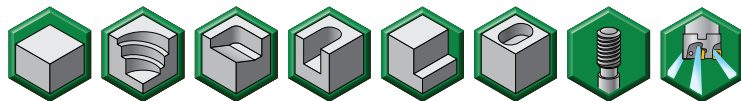
price/pc



XDET170408PEERMU

No. of edges	LI	BS	S	W	Re	hm
2	13,50	1,66	4,13	6,94	0,80	0,06

Screw-On End Mill VSM 11 + insert set XD...



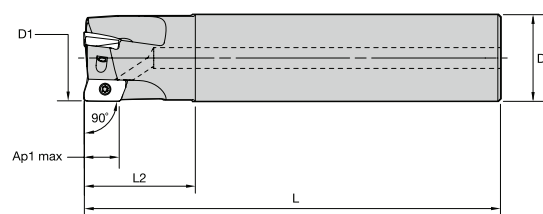
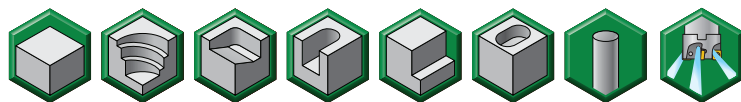
Buy a set of inserts and get
the cutter for **only 1,- €**



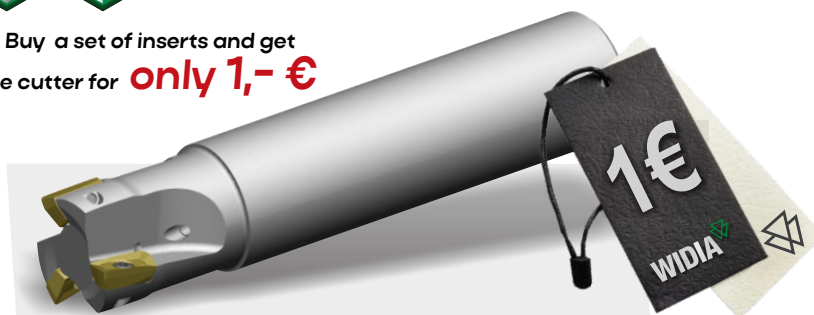
Cat. no.	Mark	D1	D	DPM	G3X	L2	WF	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5417011	VSM11D016Z02M08XD11	16	13	8,5	M8	25	10	11,5	2	10,0	41.400	da	0,02	20
5417013	VSM11D020Z03M10XD11	20	18	10,5	M10	28	15	11,6	3	7,8	35.100	da	0,05	30
5417015	VSM11D025Z04M12XD11	25	21	12,5	M12	32	17	11,5	4	5,3	30.200	da	0,08	40
5417017	VSM11D032Z04M16XD11	32	29	17,0	M16	40	24	11,4	4	3,6	25.800	da	0,18	40
5417019	VSM11D040Z06M16XD11	40	29	17,0	M16	40	24	11,4	6	2,6	22.600	da	0,24	60

Cylindrical End Mill + set of inserts XD...

WIDIA



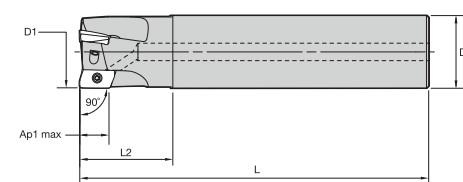
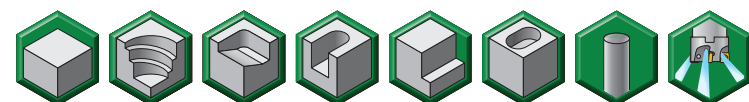
Buy a set of inserts and get
the cutter for **only 1,- €**



Cat. no.	Mark	D1	D	L	L2	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5416633	VSM11D016Z02A16XD11L100	16	16	100	31	11,5	2	10,0	41.400	Yes	0,12	20
5416635	VSM11D020Z03A20XD11L110	20	20	110	31	11,6	3	7,8	35.100	Yes	0,23	30
5416636	VSM11D025Z03A25XD11L120	25	25	120	33	11,5	3	5,3	30.200	Yes	0,39	30
5416638	VSM11D032Z03A32XD11L130	32	32	130	41	11,4	3	3,6	25.800	Yes	0,70	30

Cylindrical End Mill + set of inserts XD...

WIDIA



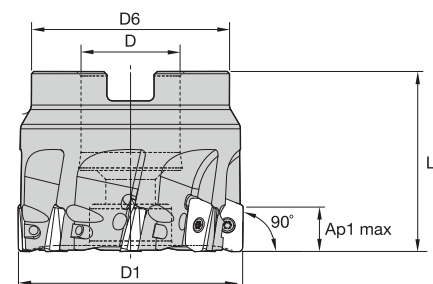
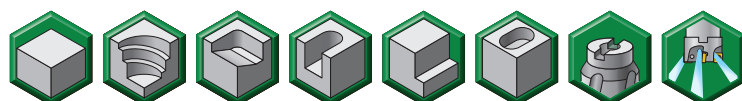
Buy a set of inserts and get
the cutter for **only 1,- €**



Cat. no.	Mark	D1	D	L	L2	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5416700	VSM11D016Z02A16XD11L170	16	16	170	25	11,5	2	10,0°	41400	Yes	0,23	20
5416701	VSM11D018Z02A16XD11L170	18	16	170	25	11,6	2	9,7°	37900	Yes	0,23	20
5416703	VSM11D020Z03A20XD11L170	20	20	170	41	11,6	3	7,8°	35100	Yes	0,36	30
5416704	VSM11D022Z03A20XD11L170	22	20	170	30	11,5	3	6,6°	32900	yes	0,37	30

Shell Mill VSM 11 + set of inserts XD ...

WIDIA



Buy a set of inserts and get
the cutter for **only 1,- €**



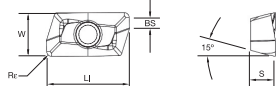
Cat. no.	Mark	D1	D	D6	L	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5416316	VSM11D040Z04S016XD11	40	16	37	40	11,4	4	2,6	22.600	Yes	0,22	40
5416318	VSM11D050Z05S022XD11	50	22	44	40	11,3	5	1,9	19.900	Yes	0,33	50
5416340	VSM11D063Z06S022XD11	63	22	44	40	11,3	6	1,5	17.500	Yes	0,50	60
5416342	VSM11D080Z08S027XD11	80	27	60	50	11,3	8	1,1	15.300	Yes	1,14	80
5416345	VSM11D100Z09S032XD11	100	32	80	50	11,3	9	0,9	13.600	Yes	1,79	90
5416347	VSM11D125Z011S040XD11	125	40	80	63	11,3	11	0,7	12.100	Yes	3,01	110



WIDIA 
VSM 17

Inserts XDCT...

WN25PM 6007220
11,90
price/pc



XDCT170404PEFRALP

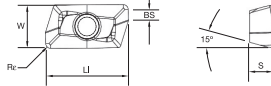
No. of edges	LI	BS	S	W	Re	hm
2	19,15	2,62	4,90	9,60	0,40	0,02

WIDIA 



Inserts XDPT...

WS40PM 6180212
8,50
price/pc



XDPT170408PESRMM

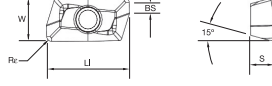
No. of edges	LI	BS	S	W	Re	hm
2	19,15	2,15	4,90	9,60	0,80	0,10

WIDIA 



Inserts XDET...

WU20PM 6862947
6,50
price/pc



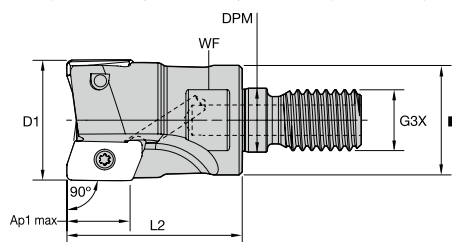
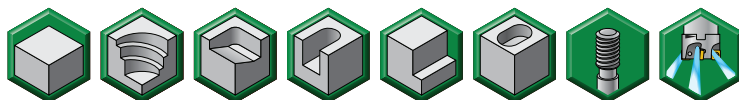
XDET170408PEERMU

No. of edges	LI	BS	S	W	Re	hm
10	19,15	2,22	4,90	9,60	0,80	0,04

WIDIA 



Screw-On End Mill VSM 17 + insert set XD...



Buy a set of inserts and get
the cutter for **only 1,- €**

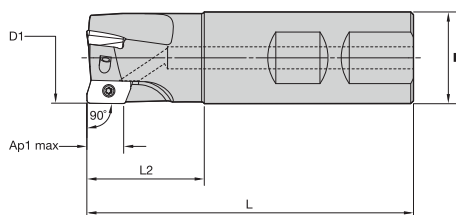
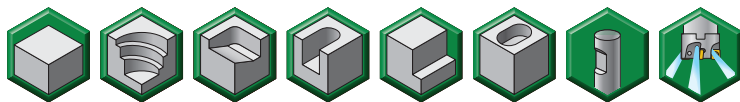


WIDIA 

Cat. no.	Mark	D1	D	DPM	G3X	L2	WF	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5988091	VSM17D025Z02M12XD17	25	21	12,5	M12	35	17	16,3	2	8.8°	41800	Yes	0,08	20
5988092	VSM17D032Z03M16XD17	32	29	17,0	M16	40	24	16,3	3	5.7°	34700	Yes	0,17	30
5988131	VSM17D40Z03M016XD17	40	29	17,0	M16	40	24	16,2	3	4.0°	29800	Yes	0,20	30
5988093	VSM17D040Z04M16XD17	40	29	17,0	M16	40	24	16,2	4	4.0°	29800	Yes	0,20	40

Weldon End Mill VSM 17 + set of inserts XD...

WIDIA 



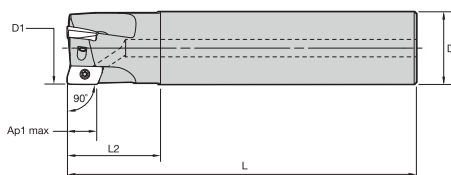
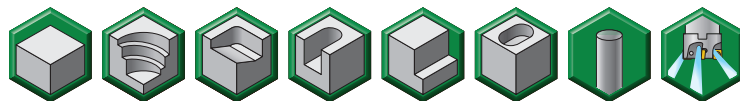
Buy a set of inserts and get
the cutter for **only 1,- €**



Cat. no.	Mark	D1	D	L	L2	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5988102	VSM17D025Z02B25XD17	25	25	90	33	16,3	2	8.8°	41800	da	0,26	20
5988103	VSM17D032Z03B32XD17	32	32	100	39	16,3	3	5.7°	34700	da	0,48	30
5988104	VSM17D040Z04B40XD17	40	40	110	39	16,2	4	4.0°	29800	da	0,87	40

Cylindrical End Mill VSM 17 + set of inserts XD ...

WIDIA 



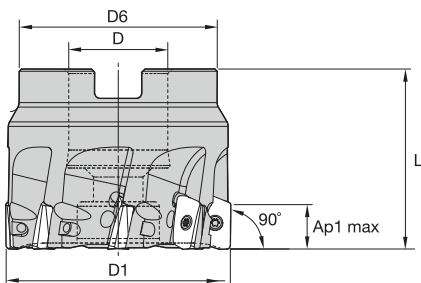
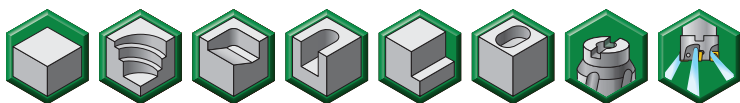
Buy a set of inserts and get
the cutter for **only 1,- €**



Cat. no.	Mark	D1	D	L	L2	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5988055	VSM17D025Z02A25XD17L110	25	25	110	44	16,3	2	8.8°	41800	Yes	0,32	20
5988056	VSM17D025Z02A25XD17L170	25	25	170	44	16,3	2	8.8°	41800	Yes	0,54	20
5988107	VSM17D032Z02A32XD17L120	32	32	120	50	16,3	2	5.7°	34700	Yes	0,60	20
5988057	VSM17D032Z03A32XD17L120	32	32	120	50	16,3	3	5.7°	34700	Yes	0,60	30
5988109	VSM17D040Z03A32XD17L130	40	32	130	50	16,2	3	4.0°	29800	Yes	0,77	30
5988059	VSM17D040Z04A32XD17L130	40	32	130	50	16,2	4	4.0°	29800	Yes	0,77	40
5988060	VSM17D040Z04A32XD17L250	40	32	250	50	16,2	4	4.0°	29800	Yes	1,49	40

Shell Mill VSM 17 + set of inserts XD ...

WIDIA 



Buy a set of inserts and get
the cutter for **only 1,- €**



Cat. no.	Mark	D1	D	D6	L	Ap1 max	No. of inserts	Angle°	max RPM	Coolant supply	kg	No. of inserts in set
5988094	VSM17D040Z04S16XD17	40	16	37	40	16,2	4	4.0	29800	da	0,19	40
5988095	VSM17D050Z04S22XD17	50	22	45	40	16,1	4	3.0	25800	da	0,28	40
5988096	VSM17D050Z05S22XD17	50	22	45	40	16,1	5	3.0	25800	da	0,29	50
5988134	VSM17D050Z06S22XD17	50	22	45	40	16,1	6	3.0	25800	da	0,28	60
5988097	VSM17D063Z05S22XD17	63	22	50	40	16,0	5	2.1	22400	da	0,45	50
5988135	VSM17D063Z06S22XD17	63	22	50	40	16,0	6	2.1	22400	da	0,45	60
5988098	VSM17D080Z06S27XD17	80	27	60	50	15,9	6	1.6	19500	da	0,98	60
5988133	VSM17D080Z07S27XD17	80	27	60	50	15,9	7	1.6	19500	da	0,96	70
5988099	VSM17D100Z08S32XD17	100	32	80	50	15,8	8	1.2	17200	da	1,63	80
5988100	VSM17D125Z09S40XD17	125	40	90	63	15,7	9	0.9	15200	da	2,94	90
5988101	VSM17D160Z12S40XD17	160	40	100	63	15,6	12	0.7	13300	da	3,66	120



SIDE/
SHOULDER
MILLING
ROUGHING



SLOTING
SQUARE
END



HELICAL
MILLING



RAMPING
BLANK



PLUNGE
MILLING



3D
PROFILING



TROCHOIDAL
MILLING

SPECIAL OFFER!

3+1

Buy 4 and get the cheapest
one for **only 1,- €**

WIDIA



WCE4

WCE4 4-flute geometry combines the asymmetrical index and variable helix features at an affordable price while ensuring material and application versatility, including demanding operations like full slots and heavy cuts.



- first choice
- alternate choice



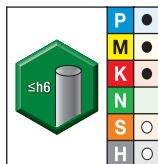
WCE5

WCE5 5-flute geometry combines the unequal index with an elevated 38-degree helix feature at an affordable price for use in primarily Carbon Steel and Stainless Steel shouldering and side milling applications.



- first choice
- alternate choice

Versatile Solid Carbide End Mills



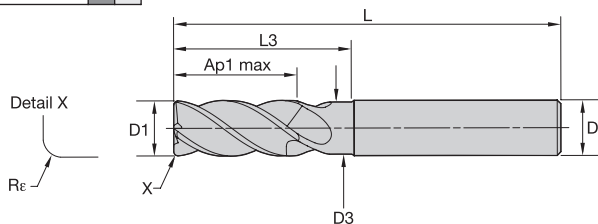
- first choice
- alternate choice

Buy 4 and get the cheapest
one for **only 1,- €**

WU20PE



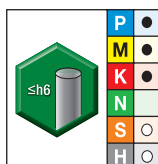
from: **19,20**
price/pc



Cat. no.	mark	D1	D	D3	length of cut Ap1 max	Lenght L	L3	Re	ZU	price/pc
7006950	W4N1M03003CAW	3	6	2,82	8	57	15	0,15	4	19,20
7007001	W4N1M04003CAW	4	6	3,76	11	57	16	0,15	4	19,20
7007002	W4N1M05003CAW	5	6	4,7	13	57	18	0,15	4	19,20
7007003	W4N1M06003CAW	6	6	5,64	13	57	21	0,15	4	19,20
7007004	W4N1M08004CAW	8	8	7,52	19	63	27	0,2	4	25,00
7007005	W4N1M10005CAW	10	10	9,4	22	72	32	0,2	4	36,00
7006070	W4N1M12006CAW	12	12	11,28	26	83	38	0,2	4	50,00
7006091	W4N1M16008CYW	16	16	15,04	32	92	44	0,35	4	83,00
7006092	W4N1M20009CYW	20	20	18,8	38	104	53	0,35	4	122,00
7006093	W4N1M2500ACYW	25	25	23,5	45	121	75	0,35	4	185,00

3+1

Versatile Solid Carbide End Mills



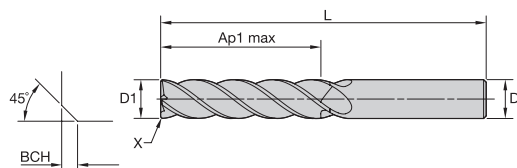
- first choice
- alternate choice

Buy 4 and get the cheapest
one for **only 1,- €**

WU20PE



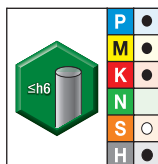
from: **19,50**
price/pc



Cat. no.	mark	D1	D	length of cut Ap1 max	Lenght L	BCH	ZU	price/pc
6946013	W411M06013CAT	6	6	32	76	0,4	4	19,50
6946014	W411M08014CAT	8	8	32	87	0,4	4	25,00
6946015	W411M10015CET	10	10	38	89	0,5	4	36,90
6946046	W411M12016CET	12	12	51	100	0,5	4	52,00
6946047	W411M16018CET	16	16	57	125	0,5	4	83,00
6946048	W411M20019CET	20	20	57	125	0,5	4	122,00

3+1

Versatile Solid Carbide End Mills



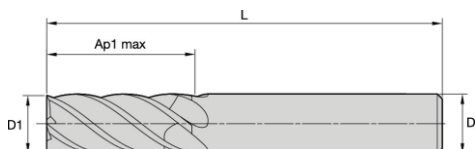
- first choice
- alternate choice

Buy 4 and get the cheapest
one for **only 1,- €**

WU20PE



from: **19,00**
price/pc



Cat. no.	mark	D1	D	length of cut Ap1 max	Overall lenght L	ZU	price/pc
7109237	W501M04003SZT	4	6	11	57	5	19,00
7109238	W501M05003SZT	5	6	13	57	5	19,00
7109239	W501M04003SZT	4	6	11	57	5	19,90
7108706	W501M08004SZT	8	8	19	63	5	24,30
7108707	W501M10005SZT	10	10	22	72	5	35,70
7109599	W501M12006SZT	12	12	26	83	5	47,00
7109600	W501M16008SZT	16	16	32	92	5	84,50
7109641	W501M20009SZT	20	20	38	104	5	128,00
7109642	W501M2500ASZT	25	25	50	121	5	229,00

3+1

WIDIA

Top Cut 4

4xD

10x

10x

Cat. no.	Mark	D1	D	L1	price/ SET	external insert	internal insert
99000527	TCF120R4SLR20MA	12,00	20	67,4	215,00	TCF040204AP	TCF040203AC
99000528	TCF130R4SLR20MA	13,00	20	72,5	215,00	TCF040204AP	TCF040203AC
99000529	TCF140R4SLR25MB	14,00	25	76,5	215,00	TCF050204BP	TCF060203BC
99000530	TCF150R4SLR25MB	15,00	25	81,5	215,00	TCF050204BP	TCF060203BC
99000531	TCF160R4SLR25MB	16,00	25	86,6	215,00	TCF050204BP	TCF060203BC
99000532	TCF165R4SLR25MB	16,50	25	89,6	215,00	TCF050204BP	TCF060203BC
99000533	TCF170R4SLR25MB	17,00	25	91,6	215,00	TCF050204BP	TCF060203BC
99000534	TCF175R4SLR25MB	17,50	25	94,6	215,00	TCF050204BP	TCF060203BC
99000535	TCF180R4SLR25MB	18,00	25	96,6	215,00	TCF050204BP	TCF060203BC
99000536	TCF185R4SLR25MB	18,50	25	99,7	215,00	TCF050204BP	TCF060203BC
99000537	TCF190R4SLR25MC	19,00	25	101,7	215,00	TCF070306CP	TCF070304CC
99000538	TCF195R4SLR25MC	19,50	25	104,7	215,00	TCF070306CP	TCF070304CC
99000539	TCF200R4SLR25MC	20,00	25	106,7	215,00	TCF070306CP	TCF070304CC
99000540	TCF210R4SLR25MC	21,00	25	112,8	215,00	TCF070306CP	TCF070304CC
99000541	TCF220R4SLR25MC	22,00	25	117,8	215,00	TCF070306CP	TCF070304CC
99000542	TCF230R4SLR25MC	23,00	25	122,8	215,00	TCF070306CP	TCF070304CC
99000543	TCF240R4SLR25MD	24,00	25	124,9	238,00	TCF080308DP	TCF090305DC
99000544	TCF250R4SLR32MD	25,00	32	130,9	238,00	TCF080308DP	TCF090305DC
99000545	TCF260R4SLR32MD	26,00	32	135,9	238,00	TCF080308DP	TCF090305DC
99000546	TCF270R4SLR32MD	27,00	32	141,0	238,00	TCF080308DP	TCF090305DC
99000547	TCF280R4SLR32MD	28,00	32	146,0	238,00	TCF080308DP	TCF090305DC
99000548	TCF290R4SLR32MD	29,00	32	151,0	238,00	TCF080308DP	TCF090305DC
99000549	TCF300R4SLR32ME	30,00	32	153,1	260,00	TCF100408EP	TCF120405EC
99000550	TCF310R4SLR32ME	31,00	32	158,1	260,00	TCF100408EP	TCF120405EC
99000551	TCF320R4SLR32ME	32,00	32	163,2	260,00	TCF100408EP	TCF120405EC
99000552	TCF330R4SLR40ME	33,00	40	165,2	260,00	TCF100408EP	TCF120405EC
99000553	TCF340R4SLR40ME	34,00	40	174,2	260,00	TCF100408EP	TCF120405EC
99000554	TCF350R4SLR40ME	35,00	40	179,2	260,00	TCF100408EP	TCF120405EC
99000555	TCF360R4SLR40ME	36,00	40	184,3	260,00	TCF100408EP	TCF120405EC
99001314	TCF370R4SLR40MF	37,00	40	189,3	305,00	TCF120412FP	TCF150406FC
99001315	TCF380R4SLR40MF	38,00	40	194,4	305,00	TCF120412FP	TCF150406FC
99000556	TCF390R4SLR40MF	39,00	40	199,4	305,00	TCF120412FP	TCF150406FC
99000557	TCF400R4SLR40MF	40,00	40	203,4	305,00	TCF120412FP	TCF150406FC
99001316	TCF410R4SLR40MF	41,00	40	208,5	305,00	TCF120412FP	TCF150406FC
99001317	TCF420R4SLR40MF	42,00	40	213,5	305,00	TCF120412FP	TCF150406FC
99001318	TCF430R4SLR40MF	43,00	40	218,5	305,00	TCF120412FP	TCF150406FC
99000558	TCF440R4SLR40MF	44,00	40	223,6	305,00	TCF120412FP	TCF150406FC
99000559	TCF450R4SLR40MF	45,00	40	228,6	305,00	TCF120412FP	TCF150406FC
99001319	TCF460R4SLR40MG	46,00	40	228,7	339,00	TCF150512GP	TCF180508GC
99001320	TCF470R4SLR40MG	47,00	40	233,7	339,00	TCF150512GP	TCF180508GC
99001321	TCF480R4SLR40MG	48,00	40	238,7	339,00	TCF150512GP	TCF180508GC
99001322	TCF490R4SLR40MG	49,00	40	243,8	339,00	TCF150512GP	TCF180508GC
99000600	TCF500R4SLR40MG	50,00	40	247,8	339,00	TCF150512GP	TCF180508GC
99001323	TCF510R4SLR40MG	51,00	40	252,8	339,00	TCF150512GP	TCF180508GC
99001324	TCF520R4SLR40MG	52,00	40	257,8	339,00	TCF150512GP	TCF180508GC
99001325	TCF530R4SLR40MG	53,00	40	262,9	339,00	TCF150512GP	TCF180508GC
99001326	TCF540R4SLR40MG	54,00	40	267,9	339,00	TCF150512GP	TCF180508GC
99000601	TCF550R4SLR40MG	55,00	40	271,9	339,00	TCF150512GP	TCF180508GC

5xD

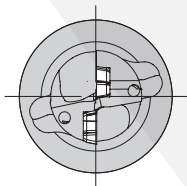
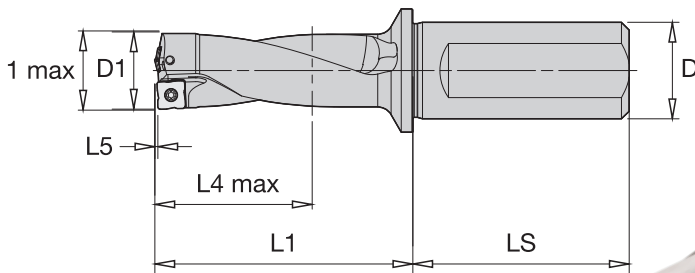
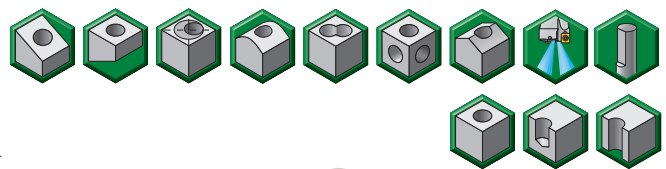
10x

10x

Cat. no.	Mark	D1	D	L1	price/ SET	external insert	internal insert
99000602	TCF120R5SLR20MA	12,00	20	79,4	226,00	TCF040204AP	TCF040203AC
99000603	TCF130R5SLR20MA	13,00	20	85,5	226,00	TCF040204AP	TCF040203AC
99000604	TCF140R5SLR25MB	14,00	25	90,5	226,00	TCF050204BP	TCF060203BC
99000605	TCF150R5SLR25MB	15,00	25	96,5	226,00	TCF050204BP	TCF060203BC
99000606	TCF160R5SLR25MB	16,00	25	102,6	226,00	TCF050204BP	TCF060203BC
99000607	TCF165R5SLR25MB	16,50	25	106,1	226,00	TCF050204BP	TCF060203BC
99000608	TCF170R5SLR25MB	17,00	25	108,6	226,00	TCF050204BP	TCF060203BC
99000609	TCF175R5SLR25MB	17,50	25	112,1	226,00	TCF050204BP	TCF060203BC
99000610	TCF180R5SLR25MB	18,00	25	114,6	226,00	TCF050204BP	TCF060203BC
99000611	TCF185R5SLR25MB	18,50	25	118,2	226,00	TCF050204BP	TCF060203BC
99000612	TCF190R5SLR25MC	19,00	25	120,7	226,00	TCF070306CP	TCF070304CC
99000613	TCF195R5SLR25MC	19,50	25	124,2	226,00	TCF070306CP	TCF070304CC
99000614	TCF200R5SLR25MC	20,00	25	126,7	226,00	TCF070306CP	TCF070304CC
99000615	TCF210R5SLR25MC	21,00	25	133,8	226,00	TCF070306CP	TCF070304CC
99000616	TCF220R5SLR25MC	22,00	25	139,8	226,00	TCF070306CP	TCF070304CC
99000617	TCF230R5SLR25MC	23,00	25	145,8	226,00	TCF070306CP	TCF070304CC
99000618	TCF240R5SLR25MD	24,00	25	148,9	249,00	TCF080308DP	TCF090305DC
99000619	TCF250R5SLR32MD	25,00	32	155,9	249,00	TCF080308DP	TCF090305DC
99000620	TCF260R5SLR32MD	26,00	32	161,9	249,00	TCF080308DP	TCF090305DC
99000621	TCF280R5SLR32MD	28,00	32	174,0	249,00	TCF080308DP	TCF090305DC
99000622	TCF320R5SLR32ME	32,00	32	195,2	272,00	TCF100408EP	TCF120405EC
99000623	TCF330R5SLR40ME	33,00	40	202,2	272,00	TCF100408EP	TCF120405EC
99000624	TCF340R5SLR40ME	34,00	40	208,2	272,00	TCF100408EP	TCF120405EC
99000625	TCF350R5SLR40ME	35,00	40	214,2	272,00	TCF100408EP	TCF120405EC
99000626	TCF360R5SLR40ME	36,00	40	220,3	272,00	TCF100408EP	TCF120405EC
99001327	TCF370R5SLR40MF	37,00	40	226,3	320,00	TCF120412FP	TCF150406FC
99001328	TCF380R5SLR40MF	38,00	40	232,4	320,00	TCF120412FP	TCF150406FC
99001329	TCF390R5SLR40MF	39,00	40	238,4	320,00	TCF120412FP	TCF150406FC
99000627	TCF400R5SLR40MF	40,00	40	243,4	320,00	TCF120412FP	TCF150406FC
99001330	TCF410R5SLR40MF	41,00	40	249,5	320,00	TCF120412FP	TCF150406FC
99001331	TCF420R5SLR40MF	42,00	40	255,5	320,00	TCF120412FP	TCF150406FC
99001332	TCF430R5SLR40MF	43,00	40	261,5	320,00	TCF120412FP	TCF150406FC
99001333	TCF440R5SLR40MF	44,00	40	267,6	320,00	TCF120412FP	TCF150406FC
99001334	TCF450R5SLR40MF	45,00	40	273,6	320,00	TCF120412FP	TCF150406FC
99001335	TCF460R5SLR40MG	46,00	40	274,7	350,00	TCF150512GP	TCF180508GC
99001336	TCF470R5SLR40MG	47,00	40	280,7	350,00	TCF150512GP	TCF180508GC
99001337	TCF480R5SLR40MG	48,00	40	286,7	350,00	TCF150512GP	TCF180508GC
99001338	TCF490R5SLR40MG	49,00	40	292,8	350,00	TCF150512GP	TCF180508GC
99001339	TCF500R5SLR40MG	50,00	40	297,8	350,00	TCF150512GP	TCF180508GC
99001340	TCF510R5SLR40MG	51,00	40	303,8	350,00	TCF150512GP	TCF180508GC
99001341	TCF520R5SLR40MG	52,00	40	309,8	350,00	TCF150512GP	TCF180508GC
99001342	TCF530R5SLR40MG	53,00	40	315,9	350,00	TCF150512GP	TCF180508GC
99001343	TCF540R5SLR40MG	54,00	40	321,9	350,00	TCF150512GP	TCF180508GC
99001344	TCF550R5SLR40MG	55,00	40	326,9	350,00	TCF150512GP	TCF180508GC

Top Cut 4 Drill, SLR Shanks + 20 inserts (10 external and 10 internal)

WIDIA



price/SET
from: **203,00**
+
10 external +
10 internal inserts



Top Cut 4

2xD					10x	10x
Cat. no.	Mark	D1	D	L1	price/SET	external insert
99000454	TCF120R2SLR20MA	12,00	20	43,4	203,00	TCF040204AP
99000455	TCF130R2SLR20MA	13,00	20	46,5	203,00	TCF040204AP
99000456	TCF140R2SLR25MB	14,00	25	48,5	203,00	TCF050204BP
99000457	TCF150R2SLR25MB	15,00	25	51,5	203,00	TCF060203BC
99000458	TCF160R2SLR25MB	16,00	25	54,6	203,00	TCF050204BP
99000459	TCF165R2SLR25MB	16,50	25	56,6	203,00	TCF060203BC
99000460	TCF170R2SLR25MB	17,00	25	57,6	203,00	TCF050204BP
99000461	TCF175R2SLR25MB	17,50	25	59,6	203,00	TCF060203BC
99000462	TCF180R2SLR25MB	18,00	25	60,6	203,00	TCF070304CC
99000463	TCF185R2SLR25MB	18,50	25	62,7	203,00	TCF070304CC
99000464	TCF190R2SLR25MC	19,00	25	63,7	203,00	TCF070306CP
99000465	TCF195R2SLR25MC	19,50	25	65,7	203,00	TCF070306CP
99000466	TCF200R2SLR25MC	20,00	25	66,7	203,00	TCF070306CP
99000467	TCF210R2SLR25MC	21,00	25	70,8	203,00	TCF070306CP
99000468	TCF220R2SLR25MC	22,00	25	73,8	203,00	TCF070306CP
99000469	TCF230R2SLR25MC	23,00	25	76,8	203,00	TCF070306CP
99000470	TCF240R2SLR25MD	24,00	25	76,9	226,00	TCF080308DP
99000471	TCF250R2SLR32MD	25,00	32	80,9	226,00	TCF080308DP
99000472	TCF260R2SLR32MD	26,00	32	83,9	226,00	TCF080308DP
99000473	TCF270R2SLR32MD	27,00	32	87,0	226,00	TCF080308DP
99000474	TCF280R2SLR32MD	28,00	32	90,0	226,00	TCF080308DP
99000475	TCF290R2SLR32MD	29,00	32	93,0	226,00	TCF080308DP
99000476	TCF300R2SLR32ME	30,00	32	93,1	249,00	TCF100408EP
99000477	TCF310R2SLR32ME	31,00	32	96,1	249,00	TCF100408EP
99000478	TCF320R2SLR32ME	32,00	32	99,2	249,00	TCF100408EP
99000479	TCF330R2SLR40ME	33,00	40	103,2	249,00	TCF100408EP
99000480	TCF340R2SLR40ME	34,00	40	106,2	249,00	TCF100408EP
99000481	TCF350R2SLR40ME	35,00	40	109,2	249,00	TCF100408EP
99000482	TCF360R2SLR40ME	36,00	40	112,3	249,00	TCF100408EP
99001345	TCF370R2SLR40MF	37,00	40	115,3	294,00	TCF120412FP
99001346	TCF380R2SLR40MF	38,00	40	118,4	294,00	TCF120412FP
99001347	TCF390R2SLR40MF	39,00	40	121,4	294,00	TCF120412FP
99000484	TCF400R2SLR40MF	40,00	40	123,4	294,00	TCF120412FP
99001347	TCF410R2SLR40MF	41,00	40	126,5	294,00	TCF120412FP
99001348	TCF420R2SLR40MF	42,00	40	129,5	294,00	TCF120412FP
99001349	TCF430R2SLR40MF	43,00	40	132,5	294,00	TCF120412FP
99000485	TCF440R2SLR40MF	44,00	40	135,6	294,00	TCF120412FP
99000486	TCF450R2SLR40MF	45,00	40	138,6	294,00	TCF120412FP
99001350	TCF460R2SLR40MG	46,00	40	136,7	328,00	TCF150512GP
99001351	TCF470R2SLR40MG	47,00	40	139,7	328,00	TCF150512GP
99001352	TCF480R2SLR40MG	48,00	40	142,7	328,00	TCF150512GP
99001353	TCF490R2SLR40MG	49,00	40	145,8	328,00	TCF150512GP
99000487	TCF500R2SLR40MG	50,00	40	147,8	328,00	TCF150512GP
99001354	TCF510R2SLR40MG	51,00	40	150,8	328,00	TCF150512GP
99001355	TCF520R2SLR40MG	52,00	40	153,8	328,00	TCF150512GP
99001356	TCF530R2SLR40MG	53,00	40	156,9	328,00	TCF150512GP
99001357	TCF540R2SLR40MG	54,00	40	159,9	328,00	TCF150512GP
99000488	TCF550R2SLR40MG	55,00	40	161,9	328,00	TCF150512GP

3xD					10x	10x
Cat. no.	Mark	D1	D	L1	price/SET	external insert
99000489	TCF120R3SLR20MA	12,00	20	55,4	215,00	TCF040204AP
99000490	TCF130R3SLR20MA	13,00	20	59,5	215,00	TCF040204AP
99000491	TCF140R3SLR25MB	14,00	25	62,5	215,00	TCF050204BP
99000492	TCF145R3SLR25MB	14,50	25	64,0	215,00	TCF060203BC
99000493	TCF150R3SLR25MB	15,00	25	66,5	215,00	TCF050204BP
99000494	TCF160R3SLR25MB	16,00	25	70,6	215,00	TCF060203BC
99000495	TCF165R3SLR25MB	16,50	25	73,1	215,00	TCF050204BP
99000496	TCF170R3SLR25MB	17,00	25	74,6	215,00	TCF060203BC
99000497	TCF175R3SLR25MB	17,50	25	77,1	215,00	TCF050204BP
99000498	TCF180R3SLR25MB	18,00	25	78,6	215,00	TCF060203BC
99000499	TCF185R3SLR25MB	18,50	25	81,2	215,00	TCF070304CC
99000500	TCF190R3SLR25MC	19,00	25	82,7	215,00	TCF070306CP
99000501	TCF195R3SLR25MC	19,50	25	85,2	215,00	TCF070306CP
99000502	TCF200R3SLR25MC	20,00	25	86,7	215,00	TCF070306CP
99000503	TCF210R3SLR25MC	21,00	25	91,8	215,00	TCF070306CP
99000504	TCF220R3SLR25MC	22,00	25	95,8	215,00	TCF070306CP
99000505	TCF230R3SLR25MC	23,00	25	99,8	215,00	TCF070306CP
99000506	TCF240R3SLR25MD	24,00	25	100,9	238,00	TCF080308DP
99000507	TCF250R3SLR32MD	25,00	32	105,9	238,00	TCF080308DP
99000508	TCF260R3SLR32MD	26,00	32	109,9	238,00	TCF080308DP
99000509	TCF270R3SLR32MD	27,00	32	114,0	238,00	TCF080308DP
99000510	TCF280R3SLR32MD	28,00	32	118,0	238,00	TCF080308DP
99000511	TCF290R3SLR32MD	29,00	32	122,0	238,00	TCF080308DP
99000512	TCF300R3SLR32ME	30,00	32	123,1	260,00	TCF100408EP
99000513	TCF310R3SLR32ME	31,00	32	127,1	260,00	TCF100408EP
99000514	TCF320R3SLR32ME	32,00	32	131,2	260,00	TCF100408EP
99000515	TCF330R3SLR40ME	33,00	40	136,2	260,00	TCF100408EP
99000516	TCF340R3SLR40ME	34,00	40	140,2	260,00	TCF100408EP
99000517	TCF350R3SLR40ME	35,00	40	144,2	260,00	TCF100408EP
99000518	TCF360R3SLR40ME	36,00	40	148,3	260,00	TCF100408EP
99001358	TCF370R3SLR40MF	37,00	40	152,3	305,00	TCF120412FP
99000519	TCF380R3SLR40MF	38,00	40	156,4	305,00	TCF120412FP
99000520	TCF390R3SLR40MF	39,00	40	160,4	305,00	TCF120412FP
99001361	TCF400R3SLR40MF	40,00	40	163,4	305,00	TCF120412FP
99001359	TCF410R3SLR40MF	41,00	40	167,5	305,00	TCF120412FP
99001360	TCF420R3SLR40MF	42,00	40	171,5	305,00	TCF120412FP
99001361	TCF430R3SLR40MF	43,00	40	175,5	305,00	TCF120412FP
99000522	TCF440R3SLR40MF	44,00	40	179,6	305,00	TCF120412FP
99000523	TCF450R3SLR40MF	45,00	40	183,6	305,00	TCF120412FP
99001362	TCF460R3SLR40MG	46,00	40	182,7	339,00	TCF150512GP
99001363	TCF470R3SLR40MG	47,00	40	186,7	339,00	TCF150512GP
99001364	TCF480R3SLR40MG	48,00	40	190,7	339,00	TCF150512GP
99001365	TCF490R3SLR40MG	49,00	40	194,8	339,00	TCF150512GP
99000524	TCF500R3SLR40MG	50,00	40	197,8	339,00	TCF150512GP
99001366	TCF510R3SLR40MG	51,00	40	201,8	339,00	TCF150512GP
99001367	TCF520R3SLR40MG	52,00	40	205,8	339,00	TCF150512GP
99001368	TCF530R3SLR40MG	53,00	40	209,9	339,00	TCF150512GP
99001369	TCF540R3SLR40MG	54,00	40	213,9	339,00	TCF150512GP
99000525	TCF550R3SLR40MG	55,00	40	216,9	339,00	TCF150512GP
99000526	TCF680R3SLR40MH	68,00	40	260,4	352,00	TCF180614HP



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