

Vrtáky s válcovou stopkou

Straight shank drills

Spiralbohrer mit Zylinderschaft





















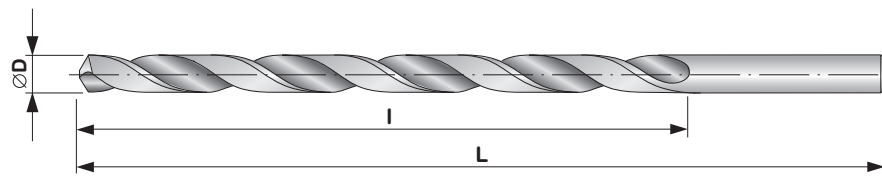
2


VRTÁKY S VÁLCOVOU STOPKOU ZVLÁŠŤ DLOUHÉ, PROVEDENÍ 1
EXTRA LONG STRAIGHT SHANK DRILLS SERIES 1
EXTRA LANGE BOHRER MIT ZYLINDRISCHEM SCHAFT, AUSFÜHRUNG 1


ZV 3001

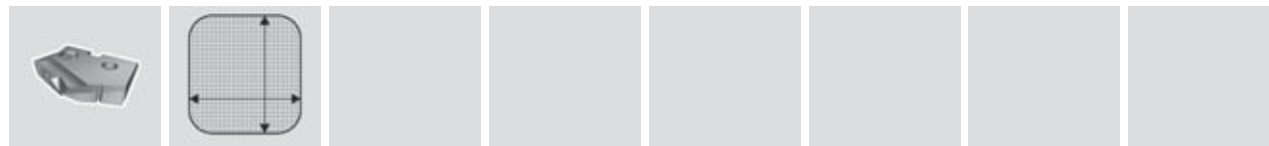
DIN 1869 RN

HSS	BLANC	 $\epsilon = 118^\circ$	 $\lambda = 25^\circ - 30^\circ$	 DIN 1412 FORM „C“		V	10xD			
 Steel <850 MPa	 Cast iron	 Al/alloy	 Cu/alloy	 Plastics						



Objednáací číslo Order No. Bestell-Nr.	ØD mm	L mm	I mm		Code ZV 3001
A180201V000S	2,0	125	85	0,002	2x125/85
A180211V000S	2,1	125	85	0,002	2,1x125/85
A180221V000S	2,2	135	90	0,002	2,2x135/90
A180225V000S	2,25	135	90	0,002	2,25x135/90
A180231V000S	2,3	135	90	0,002	2,3x135/90
A180241V000S	2,4	140	95	0,002	2,4x140/95
A180251V000S	2,5	140	95	0,004	2,5x140/95
A180261V000S	2,6	140	95	0,004	2,6x140/95
A180271V000S	2,7	150	100	0,004	2,7x150/100
A180275V000S	2,75	150	100	0,004	2,75x150/100
A180281V000S	2,8	150	100	0,004	2,8x150/100
A180291V000S	2,9	150	100	0,004	2,9x150/100
A180301V000S	3,0	150	100	0,006	3x150/100
A180311V000S	3,1	155	105	0,006	3,1x155/105
A180321V000S	3,2	155	105	0,006	3,2x155/105
A180325V000S	3,25	155	105	0,006	3,25x155/105
A180331V000S	3,3	155	105	0,006	3,3x155/105
A180341V000S	3,4	165	115	0,006	3,4x165/115
A180351V000S	3,5	165	115	0,008	3,5x165/115
A180361V000S	3,6	165	115	0,008	3,6x165/115
A180371V000S	3,7	165	115	0,008	3,7x165/115
A180375V000S	3,75	165	115	0,008	3,75x165/115
A180381V000S	3,8	175	120	0,008	3,8x175/120
A180391V000S	3,9	175	120	0,008	3,9x175/120
A180401V000S	4,0	175	120	0,011	4x175/120
A180411V000S	4,1	175	120	0,011	4,1x175/120
A180421V000S	4,2	175	120	0,011	4,2x175/120
A180425V000S	4,25	175	120	0,011	4,25x175/120
A180431V000S	4,3	185	125	0,011	4,3x185/125
A180441V000S	4,4	185	125	0,011	4,4x185/125
A180451V000S	4,5	185	125	0,016	4,5x185/125
A180461V000S	4,6	185	125	0,016	4,6x185/125
A180471V000S	4,7	185	125	0,016	4,7x185/125
A180475V000S	4,75	185	125	0,016	4,75x185/125
A180481V000S	4,8	195	135	0,016	4,8x195/135
A180491V000S	4,9	195	135	0,016	4,9x195/135
A180501V000S	5,0	195	135	0,02	5x195/135
A180511V000S	5,1	195	135	0,02	5,1x195/135
A180521V000S	5,2	195	135	0,02	5,2x195/135
A180525V000S	5,25	195	135	0,02	5,25x195/135
A180531V000S	5,3	195	135	0,02	5,3x195/135
A180541V000S	5,4	205	140	0,02	5,4x205/140
A180551V000S	5,5	205	140	0,026	5,5x205/140
A180561V000S	5,6	205	140	0,026	5,6x205/140
A180571V000S	5,7	205	140	0,026	5,7x205/140
A180575V000S	5,75	205	140	0,026	5,75x205/140
A180581V000S	5,8	205	140	0,026	5,8x205/140
A180591V000S	5,9	205	140	0,026	5,9x205/140
A180601V000S	6,0	205	140	0,031	6x205/140
A180611V000S	6,1	215	150	0,031	6,1x215/150
A180621V000S	6,2	215	150	0,031	6,2x215/150
A180625V000S	6,25	215	150	0,031	6,25x215/150
A180631V000S	6,3	215	150	0,031	6,3x215/150
A180641V000S	6,4	215	150	0,031	6,4x215/150
A180651V000S	6,5	215	150	0,038	6,5x215/150
A180661V000S	6,6	215	150	0,038	6,6x215/150
A180671V000S	6,7	215	150	0,038	6,7x215/150

Objednáací číslo Order No. Bestell-Nr.	ØD mm	L mm	I mm		Code ZV 3001
A180675V000S	6,75	215	150	0,038	6,75x215/150
A180681V000S	6,8	225	155	0,038	6,8x225/155
A180691V000S	6,9	225	155	0,038	6,9x225/155
A180701V000S	7,0	225	155	0,046	7x225/155
A180711V000S	7,1	225	155	0,046	7,1x225/155
A180721V000S	7,2	225	155	0,046	7,2x225/155
A180725V000S	7,25	225	155	0,046	7,25x225/155
A180731V000S	7,3	225	155	0,046	7,3x225/155
A180741V000S	7,4	225	155	0,046	7,4x225/155
A180751V000S	7,5	225	155	0,053	7,5x225/155
A180761V000S	7,6	240	165	0,053	7,6x240/165
A180771V000S	7,7	240	165	0,053	7,7x240/165
A180775V000S	7,75	240	165	0,053	7,75x240/165
A180781V000S	7,8	240	165	0,053	7,8x240/165
A180791V000S	7,9	240	165	0,053	7,9x240/165
A180801V000S	8,0	240	165	0,064	8x240/165
A180811V000S	8,1	240	165	0,064	8,1x240/165
A180821V000S	8,2	240	165	0,064	8,2x240/165
A180825V000S	8,25	240	165	0,064	8,25x240/165
A180831V000S	8,3	240	165	0,064	8,3x240/165
A180841V000S	8,4	240	165	0,064	8,4x240/165
A180851V000S	8,5	240	165	0,073	8,5x240/165
A180861V000S	8,6	250	175	0,073	8,6x250/175
A180871V000S	8,7	250	175	0,073	8,7x250/175
A180875V000S	8,75	250	175	0,073	8,75x250/175
A180881V000S	8,8	250	175	0,073	8,8x250/175
A180891V000S	8,9	250	175	0,073	8,9x250/175
A180901V000S	9,0	250	175	0,084	9x250/175
A180911V000S	9,1	250	175	0,084	9,1x250/175
A180921V000S	9,2	250	175	0,084	9,2x250/175
A180925V000S	9,25	250	175	0,084	9,25x250/175
A180931V000S	9,3	250	175	0,084	9,3x250/175
A180941V000S	9,4	250	175	0,084	9,4x250/175
A180951V000S	9,5	250	175	0,094	9,5x250/175
A180961V000S	9,6	265	185	0,094	9,6x265/185
A180971V000S	9,7	265	185	0,094	9,7x265/185
A180975V000S	9,75	265	185	0,094	9,75x265/185
A180981V000S	9,8	265	185	0,094	9,8x265/185
A180991V000S	9,9	265	185	0,094	9,9x265/185
A181001V000S	10,0	265	185	0,111	10x265/185
A181011V000S	10,1	265	185	0,111	10,1x265/185
A181021V000S	10,2	265	185	0,111	10,2x265/185
A181025V000S	10,25	265	185	0,111	10,25x265/185
A181031V000S	10,3	265	185	0,111	10,3x265/185
A181041V000S	10,4	265	185	0,111	10,4x265/185
A181051V000S	10,5	265	185	0,122	10,5x265/185
A181061V000S	10,6	265	185	0,122	10,6x265/185
A181071V000S	10,7	280	195	0,122	10,7x280/195
A181075V000S	10,75	280	195	0,122	10,75x280/195
A181081V000S	10,8	280	195	0,122	10,8x280/195
A181091V000S	10,9	280	195	0,122	10,9x280/195
A181101V000S	11,0	280	195	0,142	11x280/195
A181111V000S	11,1	280	195	0,142	11,1x280/195
A181121V000S	11,2	280	195	0,142	11,2x280/195
A181125V000S	11,25	280	195	0,142	11,25x280/195
A181131V000S	11,3	280	195	0,142	11,3x280/195



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Spiralbohrer mit Zylinderschaft



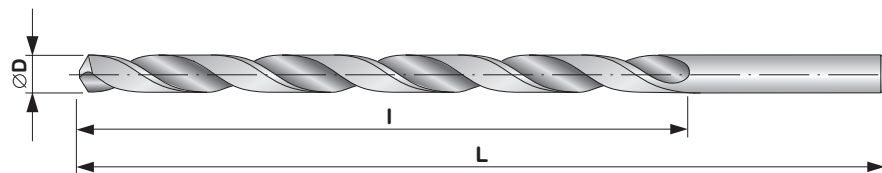
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VRTÁKY S VÁLCOVOU STOPKOU ZVLÁŠT DLOUHÉ, PROVEDENÍ 2
EXTRA LONG STRAIGHT SHANK DRILLS SERIES 2
EXTRA LANGE BOHRER MIT ZYLINDRISCHEM SCHAFT, AUSFÜHRUNG 2

ZV 3001

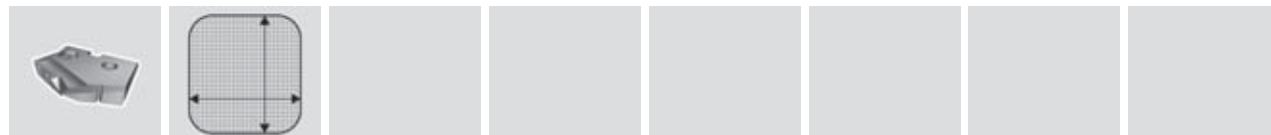
DIN 1869 RN

HSS	BLANC	$\epsilon = 118^\circ$	$\lambda = 25^\circ - 30^\circ$	DIN 1412 FORM „C“	R	V	10xD			
Steel < 850 MPa	Cast iron	Al/alloy	Cu/alloy	Plastics						



Objednáací číslo Order No. Bestell-Nr.	ØD mm	L mm	I mm	kg	Code ZV 3001
A180272V000S	2,7	190	130	0,005	2,7x190/130
A180276V000S	2,75	190	130	0,005	2,75x190/130
A180282V000S	2,8	190	130	0,005	2,8x190/130
A180292V000S	2,9	190	130	0,005	2,9x190/130
A180302V000S	3,0	190	130	0,007	3x190/130
A180312V000S	3,1	200	135	0,007	3,1x200/135
A180322V000S	3,2	200	135	0,007	3,2x200/135
A180326V000S	3,25	200	135	0,007	3,25x200/135
A180332V000S	3,3	200	135	0,007	3,3x200/135
A180342V000S	3,4	210	145	0,007	3,4x210/145
A180352V000S	3,5	210	145	0,01	3,5x210/145
A180362V000S	3,6	210	145	0,01	3,6x210/145
A180372V000S	3,7	210	145	0,01	3,7x210/145
A180376V000S	3,75	210	145	0,01	3,75x210/145
A180382V000S	3,8	220	150	0,01	3,8x220/150
A180392V000S	3,9	220	150	0,01	3,9x220/150
A180402V000S	4,0	220	150	0,014	4x220/150
A180412V000S	4,1	220	150	0,014	4,1x220/150
A180422V000S	4,2	220	150	0,014	4,2x220/150
A180426V000S	4,25	220	150	0,014	4,25x220/150
A180432V000S	4,3	235	160	0,014	4,3x235/160
A180442V000S	4,4	235	160	0,014	4,4x235/160
A180452V000S	4,5	235	160	0,02	4,5x235/160
A180462V000S	4,6	235	160	0,02	4,6x235/160
A180472V000S	4,7	235	160	0,02	4,7x235/160
A180476V000S	4,75	235	160	0,02	4,75x235/160
A180482V000S	4,8	245	170	0,02	4,8x245/170
A180492V000S	4,9	245	170	0,02	4,9x245/170
A180502V000S	5,0	245	170	0,025	5x245/170
A180512V000S	5,1	245	170	0,025	5,1x245/170
A180522V000S	5,2	245	170	0,025	5,2x245/170
A180526V000S	5,25	245	170	0,025	5,25x245/170
A180532V000S	5,3	245	170	0,025	5,3x245/170
A180542V000S	5,4	260	180	0,025	5,4x260/180
A180552V000S	5,5	260	180	0,033	5,5x260/180
A180562V000S	5,6	260	180	0,033	5,6x260/180
A180572V000S	5,7	260	180	0,033	5,7x260/180
A180576V000S	5,75	260	180	0,033	5,75x260/180
A180582V000S	5,8	260	180	0,033	5,8x260/180
A180592V000S	5,9	260	180	0,033	5,9x260/180
A180602V000S	6,0	260	180	0,039	6x260/180
A180612V000S	6,1	275	190	0,039	6,1x275/190
A180622V000S	6,2	275	190	0,039	6,2x275/190
A180626V000S	6,25	275	190	0,039	6,25x275/190
A180632V000S	6,3	275	190	0,039	6,3x275/190
A180642V000S	6,4	275	190	0,039	6,4x275/190
A180652V000S	6,5	275	190	0,049	6,5x275/190
A180662V000S	6,6	275	190	0,049	6,6x275/190
A180672V000S	6,7	275	190	0,049	6,7x275/190
A180676V000S	6,75	275	190	0,049	6,75x275/190
A180682V000S	6,8	290	200	0,049	6,8x290/200
A180692V000S	6,9	290	200	0,049	6,9x290/200
A180702V000S	7,0	290	200	0,06	7x290/200
A180712V000S	7,1	290	200	0,06	7,1x290/200
A180722V000S	7,2	290	200	0,06	7,2x290/200
A180726V000S	7,25	290	200	0,06	7,25x290/200
A180732V000S	7,3	290	200	0,06	7,3x290/200
A180742V000S	7,4	290	200	0,06	7,4x290/200
A180752V000S	7,5	290	200	0,068	7,5x290/200
A180762V000S	7,6	305	210	0,068	7,6x305/210
A180772V000S	7,7	305	210	0,068	7,7x305/210
A180776V000S	7,75	305	210	0,068	7,75x305/210
A180782V000S	7,8	305	210	0,068	7,8x305/210

Objednáací číslo Order No. Bestell-Nr.	ØD mm	L mm	I mm	kg	Code ZV 3001
A180792V000S	7,9	305	210	0,068	7,9x305/210
A180802V000S	8,0	305	210	0,082	8x305/210
A180812V000S	8,1	305	210	0,082	8,1x305/210
A180822V000S	8,2	305	210	0,082	8,2x305/210
A180826V000S	8,25	305	210	0,082	8,25x305/210
A180832V000S	8,3	305	210	0,082	8,3x305/210
A180842V000S	8,4	305	210	0,082	8,4x305/210
A180852V000S	8,5	305	210	0,093	8,5x305/210
A180862V000S	8,6	320	220	0,093	8,6x320/220
A180872V000S	8,7	320	220	0,093	8,7x320/220
A180876V000S	8,75	320	220	0,093	8,75x320/220
A180882V000S	8,8	320	220	0,093	8,8x320/220
A180892V000S	8,9	320	220	0,093	8,9x320/220
A180902V000S	9,0	320	220	0,122	9x320/220
A180912V000S	9,1	320	220	0,122	9,1x320/220
A180922V000S	9,2	320	220	0,122	9,2x320/220
A180926V000S	9,25	320	220	0,122	9,25x320/220
A180932V000S	9,3	320	220	0,122	9,3x320/220
A180942V000S	9,4	320	220	0,122	9,4x320/220
A180952V000S	9,5	320	220	0,13	9,5x320/220
A180962V000S	9,6	340	235	0,13	9,6x340/235
A180972V000S	9,7	340	235	0,13	9,7x340/235
A180976V000S	9,75	340	235	0,13	9,75x340/235
A180982V000S	9,8	340	235	0,13	9,8x340/235
A180992V000S	9,9	340	235	0,13	9,9x340/235
A181002V000S	10,0	340	235	0,143	10x340/235
A181012V000S	10,1	340	235	0,143	10,1x340/235
A181022V000S	10,2	340	235	0,143	10,2x340/235
A181026V000S	10,25	340	235	0,143	10,25x340/235
A181032V000S	10,3	340	235	0,143	10,3x340/235
A181042V000S	10,4	340	235	0,143	10,4x340/235
A181052V000S	10,5	340	235	0,158	10,5x340/235
A181062V000S	10,6	340	235	0,158	10,6x340/235
A181072V000S	10,7	365	250	0,158	10,7x365/250
A181076V000S	10,75	365	250	0,158	10,75x365/250
A181082V000S	10,8	365	250	0,158	10,8x365/250
A181092V000S	10,9	365	250	0,158	10,9x365/250
A181102V000S	11,0	365	250	0,187	11x365/250
A181112V000S	11,1	365	250	0,187	11,1x365/250
A181122V000S	11,2	365	250	0,187	11,2x365/250
A181126V000S	11,25	365	250	0,187	11,25x365/250
A181132V000S	11,3	365	250	0,187	11,3x365/250
A181142V000S	11,4	365	250	0,187	11,4x365/250
A181152V000S	11,5	365	250	0,204	11,5x365/250
A181162V000S	11,6	365	250	0,204	11,6x365/250
A181172V000S	11,7	365	250	0,204	11,7x365/250
A181176V000S	11,75	365	250	0,204	11,75x365/250
A181182V000S	11,8	365	250	0,204	11,8x365/250
A181192V000S	11,9	375	260	0,204	11,9x375/260
A181202V000S	12,0	375	260	0,227	12x375/260
A181212V000S	12,1	375	260	0,227	12,1x375/260
A181222V000S	12,2	375	260	0,227	12,2x375/260
A181226V000S	12,25	375	260	0,227	12,25x375/260
A181232V000S	12,3	375	260	0,227	12,3x375/260
A181242V000S	12,4	375	260	0,227	12,4x375/260
A181252V000S	12,5	375	260	0,246	12,5x375/260
A181262V000S	12,6	375	260	0,246	12,6x375/260
A181272V000S	12,7	375	260	0,246	12,7x375/260
A181276V000S	12,75	375	260	0,246	12,75x375/260
A181282V000S	12,8	375	260	0,246	12,8x375/260
A181292V000S	12,9	375	260	0,246	12,9x375/260
A181302V000S	13,0	375	260	0,266	13x375/260

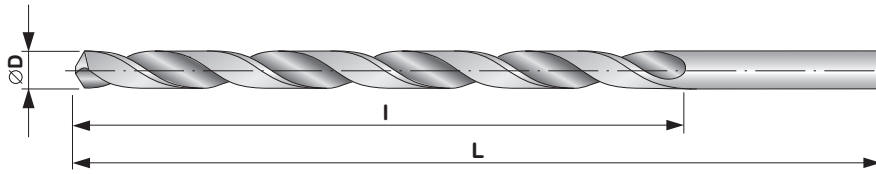
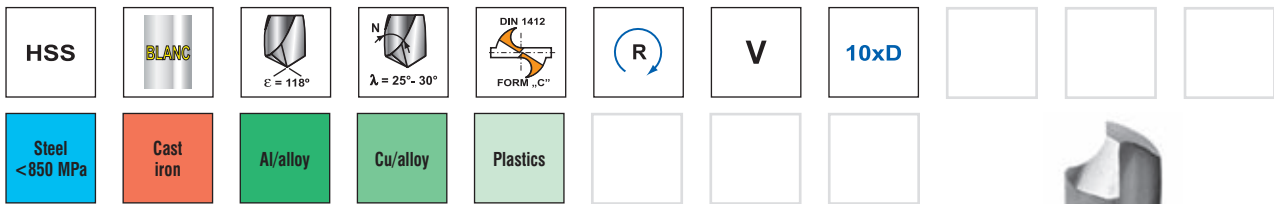



ZV 3001


DIN 1869 RN



VRTÁKY S VÁLCOVOU STOPKOU ZVLÁŠT DLOUHÉ, PROVEDENÍ 3
EXTRA LONG STRAIGHT SHANK DRILLS SERIES 3
EXTRA LANGE BOHRER MIT ZYLINDRISCHEM SCHAFT, AUSFÜHRUNG 3



Objednáací číslo Order No. Bestell-Nr.	ØD mm	L mm	I mm		Code ZV 3001
A180343V000S	3,4	265	180	0,013	3,4x265/180
A180353V000S	3,5	265	180	0,013	3,5x265/180
A180363V000S	3,6	265	180	0,013	3,6x265/180
A180373V000S	3,7	265	180	0,013	3,7x265/180
A180377V000S	3,75	265	180	0,013	3,75x265/180
A180383V000S	3,8	280	190	0,013	3,8x280/190
A180393V000S	3,9	280	190	0,013	3,9x280/190
A180403V000S	4,0	280	190	0,019	4x280/190
A180413V000S	4,1	280	190	0,019	4,1x280/190
A180423V000S	4,2	280	190	0,019	4,2x280/190
A180427V000S	4,25	280	190	0,019	4,25x280/190
A180433V000S	4,3	295	200	0,019	4,3x295/200
A180443V000S	4,4	295	200	0,019	4,4x295/200
A180453V000S	4,5	295	200	0,025	4,5x295/200
A180463V000S	4,6	295	200	0,025	4,6x295/200
A180473V000S	4,7	295	200	0,025	4,7x295/200
A180477V000S	4,75	295	200	0,025	4,75x295/200
A180483V000S	4,8	315	210	0,025	4,8x315/210
A180493V000S	4,9	315	210	0,025	4,9x315/210
A180503V000S	5,0	315	210	0,033	5x315/210
A180513V000S	5,1	315	210	0,033	5,1x315/210
A180523V000S	5,2	315	210	0,033	5,2x315/210
A180527V000S	5,25	315	210	0,033	5,25x315/210
A180533V000S	5,3	315	210	0,033	5,3x315/210
A180543V000S	5,4	330	225	0,033	5,4x330/225
A180553V000S	5,5	330	225	0,042	5,5x330/225
A180563V000S	5,6	330	225	0,042	5,6x330/225
A180573V000S	5,7	330	225	0,042	5,7x330/225
A180577V000S	5,75	330	225	0,042	5,75x330/225
A180583V000S	5,8	330	225	0,042	5,8x330/225
A180593V000S	5,9	330	225	0,042	5,9x330/225
A180603V000S	6,0	330	225	0,05	6x330/225
A180613V000S	6,1	350	235	0,05	6,1x350/235
A180623V000S	6,2	350	235	0,05	6,2x350/235
A180627V000S	6,25	350	235	0,05	6,25x350/235
A180633V000S	6,3	350	235	0,05	6,3x350/235
A180643V000S	6,4	350	235	0,05	6,4x350/235
A180653V000S	6,5	350	235	0,063	6,5x350/235
A180663V000S	6,6	350	235	0,063	6,6x350/235
A180673V000S	6,7	350	235	0,063	6,7x350/235
A180677V000S	6,75	350	235	0,063	6,75x350/235
A180683V000S	6,8	370	250	0,063	6,8x370/250
A180693V000S	6,9	370	250	0,063	6,9x370/250
A180703V000S	7,0	370	250	0,077	7x370/250
A180713V000S	7,1	370	250	0,077	7,1x370/250
A180723V000S	7,2	370	250	0,077	7,2x370/250
A180727V000S	7,25	370	250	0,077	7,25x370/250
A180733V000S	7,3	370	250	0,077	7,3x370/250
A180743V000S	7,4	370	250	0,077	7,4x370/250
A180753V000S	7,5	370	250	0,088	7,5x370/250
A180763V000S	7,6	390	265	0,088	7,6x390/265
A180773V000S	7,7	390	265	0,088	7,7x390/265
A180777V000S	7,75	390	265	0,088	7,75x390/265
A180783V000S	7,8	390	265	0,088	7,8x390/265
A180793V000S	7,9	390	265	0,088	7,9x390/265
A180803V000S	8,0	390	265	0,106	8x390/265
A180813V000S	8,1	390	265	0,106	8,1x390/265
A180823V000S	8,2	390	265	0,106	8,2x390/265

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A180827V000S	8,25	390	265	0,106	8,25x390/265
A180833V000S	8,3	390	265	0,106	8,3x390/265
A180843V000S	8,4	390	265	0,106	8,4x390/265
A180853V000S	8,5	390	265	0,119	8,5x390/265
A180863V000S	8,6	410	280	0,119	8,6x410/280
A180873V000S	8,7	410	280	0,119	8,7x410/280
A180877V000S	8,75	410	280	0,119	8,75x410/280
A180883V000S	8,8	410	280	0,119	8,8x410/280
A180893V000S	8,9	410	280	0,119	8,9x410/280
A180903V000S	9,0	410	280	0,14	9x410/280
A180913V000S	9,1	410	280	0,14	9,1x410/280
A180923V000S	9,2	410	280	0,14	9,2x410/280
A180927V000S	9,25	410	280	0,14	9,25x410/280
A180933V000S	9,3	410	280	0,14	9,3x410/280
A180943V000S	9,4	410	280	0,14	9,4x410/280
A180953V000S	9,5	410	280	0,157	9,5x410/280
A180963V000S	9,6	430	295	0,157	9,6x430/295
A180973V000S	9,7	430	295	0,157	9,7x430/295
A180977V000S	9,75	430	295	0,157	9,75x430/295
A180983V000S	9,8	430	295	0,157	9,8x430/295
A180993V000S	9,9	430	295	0,157	9,9x430/295
A181003V000S	10,0	430	295	0,18	10x430/295
A181013V000S	10,1	430	295	0,18	10,1x430/295
A181023V000S	10,2	430	295	0,18	10,2x430/295
A181027V000S	10,25	430	295	0,18	10,25x430/295
A181033V000S	10,3	430	295	0,18	10,3x430/295
A181043V000S	10,4	430	295	0,18	10,4x430/295
A181053V000S	10,5	430	295	0,2	10,5x430/295
A181063V000S	10,6	430	295	0,2	10,6x430/295
A181073V000S	10,7	455	310	0,2	10,7x455/310
A181077V000S	10,75	455	310	0,2	10,75x455/310
A181083V000S	10,8	455	310	0,2	10,8x455/310
A181093V000S	10,9	455	310	0,2	10,9x455/310
A181103V000S	11,0	455	310	0,233	11x455/310
A181113V000S	11,1	455	310	0,233	11,1x455/310
A181123V000S	11,2	455	310	0,233	11,2x455/310
A181127V000S	11,25	455	310	0,233	11,25x455/310
A181133V000S	11,3	455	310	0,233	11,3x455/310
A181143V000S	11,4	455	310	0,233	11,4x455/310
A181153V000S	11,5	455	310	0,255	11,5x455/310
A181163V000S	11,6	455	310	0,255	11,6x455/310
A181173V000S	11,7	455	310	0,255	11,7x455/310
A181177V000S	11,75	455	310	0,255	11,75x455/310
A181183V000S	11,8	455	310	0,255	11,8x455/310
A181193V000S	11,9	480	330	0,255	11,9x480/330
A181203V000S	12,0	480	330	0,292	12x480/330
A181213V000S	12,1	480	330	0,292	12,1x480/330
A181223V000S	12,2	480	330	0,292	12,2x480/330
A181227V000S	12,25	480	330	0,292	12,25x480/330
A181233V000S	12,3	480	330	0,292	12,3x480/330
A181243V000S	12,4	480	330	0,292	12,4x480/330
A181253V000S	12,5	480	330	0,316	12,5x480/330
A181263V000S	12,6	480	330	0,316	12,6x480/330
A181273V000S	12,7	480	330	0,316	12,7x480/330
A181277V000S	12,75	480	330	0,316	12,75x480/330
A181283V000S	12,8	480	330	0,316	12,8x480/330
A181293V000S	12,9	480	330	0,316	12,9x480/330
A181303V000S	13,0	480	330	0,342	13x480/330

