

HSS FORTE COBALT



Selbstzentrierend
durch Spezialanschliff

Self-centering
thanks to special point shape

Autocentrado
gracias a la punta afilada especial



Noch härter
durch Nitro-oxidierte Fase

Even harder
thanks to nitro-oxidized chamfer

Todavía más resistente
gracias a la etapa nitro-oxidada



Tieflochbohrer
durch große Spanräume

Deep hole twist drill
thanks to big chip spaces

Broca de perforación profunda
gracias al espacio ancho para virutas



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D HSS Cobalt Spiralbohrer, kurz, DIN 338 Forte

Einsatzbereich:

5% kobaltlegierter Spiralbohrer mit sehr **hoher thermischer Belastbarkeit**. Durch spezielle Nutausbildung bei schlechter Spanabfuhr bzw. für **größere Bohrtiefen** geeignet. Für Werkstoffe mit einer Festigkeit bis 1.300 N/mm².



Tieflochbohrer für hochfeste Stähle
Deep hole twist drills for high tensile steels
Broca de perforación profunda para aceros de alta resistencia

E HSS Cobalt jobber drills, DIN 338 Forte

Range of application:

5% cobalt-alloyed jobber drills with an extremely sturdy construction (re-inforced web) for **drilling under difficult conditions** e. g. poor chipremoval and **deep holes**, for use in steel and cast-iron with tensile strength up to 1.300 N/mm².



Schneller Bohrfortschritt
Fast drilling progress
Avance de perforación rápido

ES Broca espiral HSS Cobalt, corta, DIN 338 Forte

Aplicación:

Broca espiral HSS con 5 % de aleación de cobalto y **muy alta clasificación térmica**. Adecuada para una separación de virutas deficiente o para grandes profundidades de perforación gracias a la conformación **especial de la ranura**. Para materiales con una resistencia de hasta 1300 N/mm².



Punktgenaues Anbohren
Highly accurate centering
Perforación de gran precisión

Ø



HSS Co5 **DIN 338**

Typ/Type/Tipo **Forte** **130°**

Kreuzanschliff
Split Point
Punta afilada en cruz
AC⁽¹⁾

5xd

Oberfläche: fasennitriert⁽²⁾
Surface: nitrided lands⁽²⁾
Superficie: etapa nitró-oxidada⁽²⁾

Plastiktasche
Plastic wallet
Embalaje de plástico



Gewerbepack
Industrial packing
Paquete industrial




Ø mm	l1 mm	l2 mm	Code 183 Art.-Nr.	Inh. Cont.		Code 611 Art.-Nr.	Inh. Cont.
1,00	34	12	00 183001001 00	1	10	00 611001001 00	10
1,10	36	14				00 611001101 00	10
1,20	38	16				00 611001201 00	10
1,30	38	16				00 611001301 00	10
1,40	40	18				00 611001401 00	10
1,50	40	18	00 183001501 00	1	10	00 611001501 00	10
1,60	43	20				00 611001601 00	10
1,70	43	20				00 611001701 00	10
1,80	46	22				00 611001801 00	10
1,90	46	22				00 611001901 00	10
2,00	49	24	00 183002001 00	1	10	00 611002001 00	10
2,10	49	24				00 611002101 00	10
2,20	53	27				00 611002201 00	10
2,30	53	27				00 611002301 00	10
2,40	57	30				00 611002401 00	10
2,50	57	30	00 183002501 00	1	10	00 611002501 00	10
2,60	57	30				00 611002601 00	10
2,70	61	33				00 611002701 00	10
2,80	61	33				00 611002801 00	10
2,90	61	33				00 611002901 00	10
3,00	61	33	00 183003001 00	1	10	00 611003001 00	10
3,10	65	36				00 611003101 00	10
3,20	65	36	00 183003201 00	1	10	00 611003201 00	10
3,30	65	36	00 183003301 00	1	10	00 611003301 00	10
3,40	70	39				00 611003401 00	10

⁽¹⁾ ≥ Ø 2,0 mm | ⁽²⁾ ≥ Ø 3,0 mm

			Plastiktasche <i>Plastic wallet</i> <i>Embalaje de plástico</i>			Gewerbepack <i>Industrial packing</i> <i>Paquete industrial</i>	
Ø	l1	l2	Code 183	Inh.		Code 611	Inh.
mm	mm	mm	Art.-Nr.	Cont.		Art.-Nr.	Cont.
3,50	70	39	00 183003501 00	1	10	00 611003501 00	10
3,60	70	39				00 611003601 00	10
3,70	70	39				00 611003701 00	10
3,80	75	43				00 611003801 00	10
3,90	75	43				00 611003901 00	10
4,00	75	43	00 183004001 00	1	10	00 611004001 00	10
4,10	75	43				00 611004101 00	10
4,20	75	43	00 183004201 00	1	10	00 611004201 00	10
4,30	80	47				00 611004301 00	10
4,40	80	47				00 611004401 00	10
4,50	80	47	00 183004501 00	1	10	00 611004501 00	10
4,60	80	47				00 611004601 00	10
4,70	80	47				00 611004701 00	10
4,80	86	52				00 611004801 00	10
4,90	86	52				00 611004901 00	10
5,00	86	52	00 183005001 00	1	10	00 611005001 00	10
5,10	86	52				00 611005101 00	10
5,20	86	52				00 611005201 00	10
5,30	86	52				00 611005301 00	10
5,40	93	57				00 611005401 00	10
5,50	93	57	00 183005501 00	1	10	00 611005501 00	10
5,60	93	57				00 611005601 00	10
5,70	93	57				00 611005701 00	10
5,80	93	57				00 611005801 00	10
5,90	93	57				00 611005901 00	10
6,00	93	57	00 183006001 00	1	10	00 611006001 00	10
6,10	101	63				00 611006101 00	10
6,20	101	63				00 611006201 00	10
6,30	101	63				00 611006301 00	10
6,40	101	63				00 611006401 00	10
6,50	101	63	00 183006501 00	1	10	00 611006501 00	10
6,60	101	63				00 611006601 00	10
6,70	101	63				00 611006701 00	10
6,80	109	69	00 183006801 00	1	10	00 611006801 00	10
6,90	109	69				00 611006901 00	10
7,00	109	69	00 183007001 00	1	10	00 611007001 00	10
7,10	109	69				00 611007101 00	10
7,20	109	69				00 611007201 00	10
7,30	109	69				00 611007301 00	10
7,40	109	69				00 611007401 00	10
7,50	109	69	00 183007501 00	1	10	00 611007501 00	10
7,60	117	75				00 611007601 00	10
7,70	117	75				00 611007701 00	10
7,80	117	75				00 611007801 00	10
7,90	117	75				00 611007901 00	10
8,00	117	75	00 183008001 00	1	10	00 611008001 00	10
8,10	117	75				00 611008101 00	10
8,20	117	75				00 611008201 00	10
8,30	117	75				00 611008301 00	10
8,40	117	75				00 611008401 00	10
8,50	117	75				00 611008501 00	10
8,60	125	81				00 611008601 00	10
8,70	125	81				00 611008701 00	10
8,80	125	81				00 611008801 00	10
8,90	125	81				00 611008901 00	10
9,00	125	81	00 183009001 00	1	10	00 611009001 00	10
9,10	125	81				00 611009101 00	10



Metal- und Edelstahlbohrer
 Metal drills and stainless steel drills
 Broca para metal y broca de acero inoxidable

			Plastiktasche <i>Plastic wallet</i> <i>Embalaje de plástico</i>			Gewerbepack <i>Industrial packing</i> <i>Paquete industrial</i>	
Ø	l1	l2	Code 183	Inh.		Code 611	Inh.
mm	mm	mm	Art.-Nr.	Cont.		Art.-Nr.	Cont.
9,20	125	81				00 611009201 00	10
9,30	125	81				00 611009301 00	10
9,40	125	81				00 611009401 00	10
9,50	125	81				00 611009501 00	10
9,60	133	87				00 611009601 00	10
9,70	133	87				00 611009701 00	10
9,80	133	87				00 611009801 00	10
9,90	133	87				00 611009901 00	10
10,00	133	87	00 183010001 00	1	10	00 611010001 00	10
10,20	133	87	00 183010201 00	1	10	00 611010201 00	5
10,50	133	87				00 611010501 00	5
11,00	142	94	00 183011001 00	1	10	00 611011001 00	5
11,50	142	94				00 611011501 00	5
12,00	151	101	00 183012001 00	1	10	00 611012001 00	5
12,50	151	101				00 611012501 00	5
13,00	151	101	00 183013001 00	1	10	00 611013001 00	5

Set!



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D HSS Cobalt Spiralbohrer, kurz, DIN 338 RN
Einsatzbereich:

5% kobaltlegierter Spiralbohrer mit sehr hoher thermischer Belastbarkeit zum Bohren von Werkstoffen mit höherem Legierungsgehalt und Festigkeit über 800 N/mm².



Industriequalität
Industrial quality
Calidad industrial



Bohren mit stark verminderten Anpressdruck
Drilling with greatly reduced feed pressure
Perforar con una presión de avance muy disminuida



Punktgenaues Anbohren
Highly accurate centering
Perforación de gran precisión

E HSS Cobalt jobber drills, DIN 338 RN
Range of application:

5% cobalt-alloyed jobber drills with high heat-resistance for drilling steels with tensile strength over 800 N/mm², specially suitable for high alloyed steels, bearing-steels, hot/cold-rolled steel. Ideal for stainless steel.

ES Broca espiral HSS Cobalt, corta, DIN 338 RN
Aplicación:


Broca espiral HSS con 5 % de aleación de cobalto y muy alta clasificación térmica. Especialmente adecuadas para aceros un porcentaje elevado de aleación con R > 800 N/mm².

				Plastiktasche Plastic wallet Embalaje de plástico			Gewerbepack Industrial packing Paquete industrial			Einzelverpackung Single packing Embalaje individual		
Ø	Ø	l1	l2	Code 623	Inh.		Code 613	Inh.	Code 607	Inh.		
mm	inch	mm	mm	Art.-Nr.	Cont.		Art.-Nr.	Cont.	Art.-Nr.	Cont.		
				blank bright brillante			blank bright brillante			TiN		
1,00		34	12	00 623001001 00	1	10	00 613001001 00	10	00 607001001 00	1		
1,10		36	14				00 613001101 00	10	00 607001101 00	1		
1,19	3/64	38	16				00 613001191 00	10	00 607001191 00	1		
1,20		38	16				00 613001201 00	10	00 607001201 00	1		
1,30		38	16				00 613001301 00	10	00 607001301 00	1		
1,40		40	18				00 613001401 00	10	00 607001401 00	1		
1,50		40	18	00 623001501 00	1	10	00 613001501 00	10	00 607001501 00	1		
1,59	1/16	43	20				00 613001591 00	10	00 607001591 00	1		
1,60		43	20				00 613001601 00	10	00 607001601 00	1		
1,70		43	20				00 613001701 00	10	00 607001701 00	1		
1,80		46	22				00 613001801 00	10	00 607001801 00	1		
1,90		46	22				00 613001901 00	10	00 607001901 00	1		
1,98	5/64	49	24				00 613001981 00	10	00 607001981 00	1		
2,00		49	24	00 623002001 00	1	10	00 613002001 00	10	00 607002001 00	1		
2,10		49	24				00 613002101 00	10	00 607002101 00	1		
2,20		53	27				00 613002201 00	10	00 607002201 00	1		
2,30		53	27				00 613002301 00	10	00 607002301 00	1		
2,38	3/32	57	30				00 613002381 00	10	00 607002381 00	1		
2,40		57	30				00 613002401 00	10	00 607002401 00	1		
2,50		57	30	00 623002501 00	1	10	00 613002501 00	10	00 607002501 00	1		
2,60		57	30				00 613002601 00	10	00 607002601 00	1		
2,70		61	33				00 613002701 00	10	00 607002701 00	1		
2,78	7/64	61	33				00 613002781 00	10	00 607002781 00	1		
2,80		61	33				00 613002801 00	10	00 607002801 00	1		

(1) ≥ Ø 2,0 mm



Metall- und Edelstahlbohrer
 Metal drills and stainless steel drills
 Broca para metal y broca de acero inoxidable

				Plastiktasche <i>Plastic wallet</i> <i>Embalaje de plástico</i>			Gewerbepack <i>Industrial packing</i> <i>Paquete industrial</i>			Einzelverpackung <i>Single packing</i> <i>Embalaje individual</i>		
Ø mm	Ø inch	l1 mm	l2 mm	Code 623			Code 613			Code 607		
				Art.-Nr.	Inh. Cont.		Art.-Nr.	Inh. Cont.	Art.-Nr.	Inh. Cont.	Art.-Nr.	Inh. Cont.
				blank bright brillante			blank bright brillante			TIN		
2,90		61	33				00 613002901 00	10		00 607002901 00	1	
3,00		61	33	00 623003001 00	1	10	00 613003001 00	10		00 607003001 00	1	
3,10		65	36				00 613003101 00	10		00 607003101 00	1	
3,17	1/8	65	36				00 613003171 00	10		00 607003171 00	1	
3,20		65	36	00 623003201 00	1	10	00 613003201 00	10		00 607003201 00	1	
3,30		65	36	00 623003301 00	1	10	00 613003301 00	10		00 607003301 00	1	
3,40		70	39				00 613003401 00	10		00 607003401 00	1	
3,50		70	39	00 623003501 00	1	10	00 613003501 00	10		00 607003501 00	1	
3,57	9/64	70	39				00 613003571 00	10		00 607003571 00	1	
3,60		70	39				00 613003601 00	10		00 607003601 00	1	
3,70		70	39				00 613003701 00	10		00 607003701 00	1	
3,80		75	43				00 613003801 00	10		00 607003801 00	1	
3,90		75	43				00 613003901 00	10		00 607003901 00	1	
3,97	5/32	75	43				00 613003971 00	10		00 607003971 00	1	
4,00		75	43	00 623004001 00	1	10	00 613004001 00	10		00 607004001 00	1	
4,10		75	43				00 613004101 00	10		00 607004101 00	1	
4,20		75	43	00 623004201 00	1	10	00 613004201 00	10		00 607004201 00	1	
4,30		80	47				00 613004301 00	10		00 607004301 00	1	
4,37	11/64	80	47				00 613004371 00	10		00 607004371 00	1	
4,40		80	47				00 613004401 00	10		00 607004401 00	1	
4,50		80	47	00 623004501 00	1	10	00 613004501 00	10		00 607004501 00	1	
4,60		80	47				00 613004601 00	10		00 607004601 00	1	
4,70		80	47				00 613004701 00	10		00 607004701 00	1	
4,76	3/16	86	52				00 613004761 00	10		00 607004761 00	1	
4,80		86	52				00 613004801 00	10		00 607004801 00	1	
4,90		86	52				00 613004901 00	10		00 607004901 00	1	
5,00		86	52	00 623005001 00	1	10	00 613005001 00	10		00 607005001 00	1	
5,10		86	52				00 613005101 00	10		00 607005101 00	1	
5,16	13/64	86	52				00 613005161 00	10		00 607005161 00	1	
5,20		86	52				00 613005201 00	10		00 607005201 00	1	
5,30		86	52				00 613005301 00	10		00 607005301 00	1	
5,40		93	57				00 613005401 00	10		00 607005401 00	1	
5,50		93	57	00 623005501 00	1	10	00 613005501 00	10		00 607005501 00	1	
5,56	7/32	93	57				00 613005561 00	10		00 607005561 00	1	
5,60		93	57				00 613005601 00	10		00 607005601 00	1	
5,70		93	57				00 613005701 00	10		00 607005701 00	1	
5,80		93	57				00 613005801 00	10		00 607005801 00	1	
5,90		93	57				00 613005901 00	10		00 607005901 00	1	
5,95	15/64	93	57							00 607005951 00	1	
6,00		93	57	00 623006001 00	1	10	00 613006001 00	10		00 607006001 00	1	
6,10		101	63				00 613006101 00	10		00 607006101 00	1	
6,20		101	63				00 613006201 00	10		00 607006201 00	1	
6,30		101	63				00 613006301 00	10		00 607006301 00	1	
6,35	1/4	101	63				00 613006351 00	10		00 607006351 00	1	
6,40		101	63				00 613006401 00	10		00 607006401 00	1	
6,50		101	63	00 623006501 00	1	10	00 613006501 00	10		00 607006501 00	1	
6,60		101	63				00 613006601 00	10		00 607006601 00	1	
6,70		101	63				00 613006701 00	10		00 607006701 00	1	
6,75	17/64	109	69				00 613006751 00	10		00 607006751 00	1	
6,80		109	69	00 623006801 00	1	10	00 613006801 00	10		00 607006801 00	1	
6,90		109	69				00 613006901 00	10		00 607006901 00	1	
7,00		109	69	00 623007001 00	1	10	00 613007001 00	10		00 607007001 00	1	
7,10		109	69				00 613007101 00	10		00 607007101 00	1	
7,14	9/32	109	69				00 613007141 00	10		00 607007141 00	1	
7,20		109	69				00 613007201 00	10		00 607007201 00	1	
7,30		109	69				00 613007301 00	10		00 607007301 00	1	
7,40		109	69				00 613007401 00	10		00 607007401 00	1	
7,50		109	69	00 623007501 00	1	10	00 613007501 00	10		00 607007501 00	1	

				Plastiktasche Plastic wallet Embalaje de plástico			Gewerbepack Industrial packing Paquete industrial			Einzelverpackung Single packing Embalaje individual		
Ø	Ø	l1	l2	Code 623	Inh.		Code 613	Inh.	Code 607	Inh.		
mm	inch	mm	mm	Art.-Nr.	Cont.		Art.-Nr.	Cont.	Art.-Nr.	Cont.		
				blank bright brillante			blank bright brillante			TiN		
7,54	19/64	117	75				00 61300754100	10	00 60700754100	1		
7,60		117	75				00 61300760100	10	00 60700760100	1		
7,70		117	75				00 61300770100	10	00 60700770100	1		
7,80		117	75				00 61300780100	10	00 60700780100	1		
7,90		117	75				00 61300790100	10	00 60700790100	1		
7,94	5/16	117	75				00 61300794100	10	00 60700794100	1		
8,00		117	75	00 62300800100	1	10	00 61300800100	10	00 60700800100	1		
8,10		117	75				00 61300810100	10	00 60700810100	1		
8,20		117	75				00 61300820100	10	00 60700820100	1		
8,30		117	75				00 61300830100	10	00 60700830100	1		
8,33	21/64	117	75						00 60700833100	1		
8,40		117	75				00 61300840100	10	00 60700840100	1		
8,50		117	75				00 61300850100	10	00 60700850100	1		
8,60		125	81				00 61300860100	10	00 60700860100	1		
8,70		125	81				00 61300870100	10	00 60700870100	1		
8,73	11/32	125	81				00 61300873100	10	00 60700873100	1		
8,80		125	81				00 61300880100	10	00 60700880100	1		
8,90		125	81				00 61300890100	10	00 60700890100	1		
9,00		125	81	00 62300900100	1	10	00 61300900100	10	00 60700900100	1		
9,10		125	81				00 61300910100	10	00 60700910100	1		
9,13	23/64	125	81						00 60700913100	1		
9,20		125	81				00 61300920100	10	00 60700920100	1		
9,30		125	81				00 61300930100	10	00 60700930100	1		
9,40		125	81				00 61300940100	10	00 60700940100	1		
9,50		125	81				00 61300950100	10	00 60700950100	1		
9,52	3/8	133	87				00 61300952100	10	00 60700952100	1		
9,60		133	87				00 61300960100	10	00 60700960100	1		
9,70		133	87				00 61300970100	10	00 60700970100	1		
9,80		133	87				00 61300980100	10	00 60700980100	1		
9,90		133	87				00 61300990100	10	00 60700990100	1		
9,92	25/64	133	87						00 60700992100	1		
10,00		133	87	00 62301000100	1	10	00 61301000100	10	00 60701000100	1		
10,20		133	87	00 62301020100	1	5	00 61301020100	5	00 60701020100	1		
10,32	13/32	133	87						00 60701032100	1		
10,50		133	87				00 61301050100	5	00 60701050100	1		
11,00		142	94	00 62301100100	1	5	00 61301100100	5	00 60701100100	1		
11,11	7/16	142	94				00 61301111100	5	00 60701111100	1		
11,50		142	94				00 61301150100	5	00 60701150100	1		
11,51	29/64	142	94						00 60701151100	1		
11,91	15/32	151	101						00 60701191100	1		
12,00		151	101	00 62301200100	1	5	00 61301200100	5	00 60701200100	1		
12,30	31/64	151	101						00 60701230100	1		
12,50		151	101				00 61301250100	5	00 60701250100	1		
12,70	1/2	151	101				00 61301270100	5	00 60701270100	1		
13,00		151	101	00 62301300100	1	5	00 61301300100	5	00 60701300100	1		
13,50		160	108				00 61301350100	1	00 60701350100	1		
14,00		160	108				00 61301400100	1	00 60701400100	1		
14,50		169	114				00 61301450100	1	00 60701450100	1		
15,00		169	114				00 61301500100	1	00 60701500100	1		
16,00		178	120				00 61301600100	1	00 60701600100	1		



Metall- und Edeltahlbohrer
 Metal drills and stainless steel drills
 Broca para metal y broca de acero inoxidable

Set!

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 318 y siguientes

D HSS Cobalt Spiralbohrer für INOX-Bleche und Hardox

Einsatzbereich:

Besonders geeignet für **zähe und harte Werkstoffe** wie rost- und säurebeständige Chrom-Nickelstähle, sowie sämtliche verschleißbeanspruchte Bauteile, überwiegend im Baugewerbe, wie z.B. HARDOX 400, HARDOX 500 sowie XAR 320 und XAR 400 und ähnliche Werkstoffe.



Industriequalität
Industrial quality
Calidad industrial



Punktgenaues Anbohren
Highly accurate centering
Perforación de gran precisión

E HSS Cobalt jobber drills for INOX sheet metals and Hardox

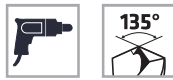
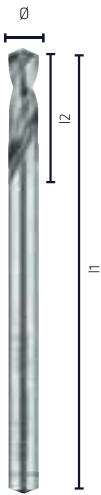
Range of application:

Specially suitable for drilling stainless steel, acid-resisting steel, spring-steel as well as **extremely hard materials** such as manganese steel, high-tensile fine grained machinery steel (e.g. Hardox 400, Hardox 500, XAR 320, XAR 400) and similar materials.

ES Broca espiral HSS Cobalt para chapas INOX & Hardox

Aplicación:

Especialmente adecuadas para materiales **tenaces y duros**, como aceros al cromo-níquel que resisten los ácidos y la corrosión, así como elementos de mucho desgaste, principalmente en el campo de la construcción, como p. ej. HARDOX 400, HARDOX 500 como XAR 320 e XAR 400 y otros materiales similares.



Oberfläche: blank
Surface: bright
Superficie: brillante

Plastiktasche
Plastic wallet
Embalaje de plástico



Gewerbepack
Industrial packing
Paquete industrial



Ø mm	l1 mm	l2 mm	Code 628 Art.-Nr.	Inh. Cont.		Code 638 Art.-Nr.	Inh. Cont.
2,00	49	12	00 628002001 00	1	10	00 638002001 00	10
2,50	57	14	00 628002501 00	1	10	00 638002501 00	10
3,00	61	16	00 628003001 00	1	10	00 638003001 00	10
3,20	65	18	00 628003201 00	1	10	00 638003201 00	10
3,30	65	18	00 628003301 00	1	10	00 638003301 00	10
3,50	70	20	00 628003501 00	1	10	00 638003501 00	10
4,00	75	22	00 628004001 00	1	10	00 638004001 00	10
4,20	75	22	00 628004201 00	1	10	00 638004201 00	10
4,50	80	24	00 628004501 00	1	10	00 638004501 00	10
5,00	86	26	00 628005001 00	1	10	00 638005001 00	10
5,50	93	28	00 628005501 00	1	10	00 638005501 00	10
6,00	93	28	00 628006001 00	1	10	00 638006001 00	10
6,50	101	31	00 628006501 00	1	10	00 638006501 00	10
6,80	109	34	00 628006801 00	1	10	00 638006801 00	10
7,00	109	34	00 628007001 00	1	10	00 638007001 00	10
7,50	109	34				00 638007501 00	5
8,00	117	37	00 628008001 00	1	10	00 638008001 00	5
8,50	117	37	00 628008501 00	1	10	00 638008501 00	5
9,00	125	40	00 628009001 00	1	10	00 638009001 00	5
9,50	125	40				00 638009501 00	5
10,00	133	43	00 628010001 00	1	10	00 638010001 00	5
10,20	133	43	00 628010201 00	1	10	00 638010201 00	5
10,50	133	43				00 638010501 00	5
11,00	142	47	00 628011001 00	1	10	00 638011001 00	5
11,50	142	47				00 638011501 00	5
12,00	151	51	00 628012001 00	1	10	00 638012001 00	5
12,50	151	51				00 638012501 00	5
13,00	151	51				00 638013001 00	5

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