



PTG

2022

Certificate



The certification body of the VQZ Bonn GmbH hereby certifies that the company

PTG Präzisions-Technik Handelsgesellschaft mbH

Große Brenne 11
58099 Hagen
Germany

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in the following scope

Trade and sale of precision twist drill bits and other tools

has established and successfully applied a management system. The company has verified in an audit, report number B12033-5687, that this management system fulfills the requirements of the standard

DIN EN ISO 9001:2015

Certificate registration no.	12033-3070
This certificate is valid from	04.01.2020
This certificate is valid until	03.01.2023
Bonn-Bad Godesberg,	03.01.2020



P. Hampe
head of certification body
Prof. Dr. Peter Hampe

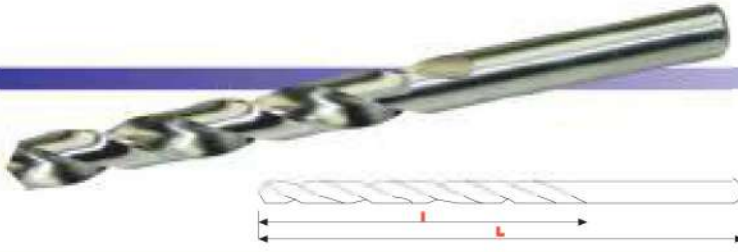
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SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS TAŞLANMIŞ



KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P333810040	0.4mm	20	5	P333810550	5.5mm	93	57
P333810050	0.5mm	22	6	P333810560	5.6mm	93	57
P333810060	0.6mm	24	7	P333810570	5.7mm	93	57
P333810070	0.7mm	28	9	P333810580	5.8mm	93	57
P333810080	0.8mm	30	10	P333810590	5.9mm	93	57
P333810090	0.9mm	32	11	P333810600	6.0mm	93	57
P333810100	1.0mm	34	12	P333810610	6.1mm	101	63
P333810110	1.1mm	36	14	P333810620	6.2mm	101	63
P333810120	1.2mm	38	16	P333810630	6.3mm	101	63
P333810130	1.3mm	38	16	P333810640	6.4mm	101	63
P333810140	1.4mm	40	18	P333810650	6.5mm	101	63
P333810150	1.5mm	40	18	P333810660	6.6mm	101	63
P333810160	1.6mm	43	20	P333810670	6.7mm	101	63
P333810170	1.7mm	43	20	P333810680	6.8mm	109	69
P333810180	1.8mm	46	22	P333810690	6.9mm	109	69
P333810190	1.9mm	46	22	P333810700	7.0mm	109	69
P333810200	2.0mm	49	24	P333810710	7.1mm	109	69
P333810210	2.1mm	49	24	P333810720	7.2mm	109	69
P333810220	2.2mm	53	27	P333810730	7.3mm	109	69
P333810230	2.3mm	53	27	P333810740	7.4mm	109	69
P333810240	2.4mm	57	30	P333810750	7.5mm	109	69
P333810250	2.5mm	57	30	P333810760	7.6mm	117	75
P333810260	2.6mm	57	30	P333810770	7.7mm	117	75
P333810270	2.7mm	61	33	P333810780	7.8mm	117	75
P333810280	2.8mm	61	33	P333810790	7.9mm	117	75
P333810290	2.9mm	61	33	P333810800	8.0mm	117	75
P333810300	3.0mm	61	33	P333810810	8.1mm	117	75
P333810310	3.1mm	65	36	P333810820	8.2mm	117	75
P333810320	3.2mm	65	36	P333810830	8.3mm	117	75
P333810330	3.3mm	65	36	P333810840	8.4mm	117	75
P333810340	3.4mm	70	39	P333810850	8.5mm	117	75
P333810350	3.5mm	70	39	P333810860	8.6mm	125	81
P333810360	3.6mm	70	39	P333810870	8.7mm	125	81
P333810370	3.7mm	70	39	P333810880	8.8mm	125	81
P333810380	3.8mm	75	43	P333810890	8.9mm	125	81
P333810390	3.9mm	75	43	P333810900	9.0mm	125	81
P333810400	4.0mm	75	43	P333810910	9.1mm	125	81
P333810410	4.1mm	75	43	P333810920	9.2mm	125	81
P333810420	4.2mm	75	43	P333810930	9.3mm	125	81
P333810430	4.3mm	80	47	P333810940	9.4mm	125	81
P333810440	4.4mm	80	47	P333810950	9.5mm	125	81
P333810450	4.5mm	80	47	P333810960	9.6mm	133	87
P333810460	4.6mm	80	47	P333810970	9.7mm	133	87
P333810470	4.7mm	80	47	P333810980	9.8mm	133	87
P333810480	4.8mm	86	52	P333810990	9.9mm	133	87
P333810490	4.9mm	86	52	P333811000	10.0mm	133	87
P333810500	5.0mm	86	52	P333811010	10.1mm	133	87
P333810510	5.1mm	86	52	P333811020	10.2mm	133	87
P333810520	5.2mm	86	52	P333811030	10.3mm	133	87
P333810530	5.3mm	86	52	P333811040	10.4mm	133	87
P333810540	5.4mm	93	57	P333811050	10.5mm	133	87



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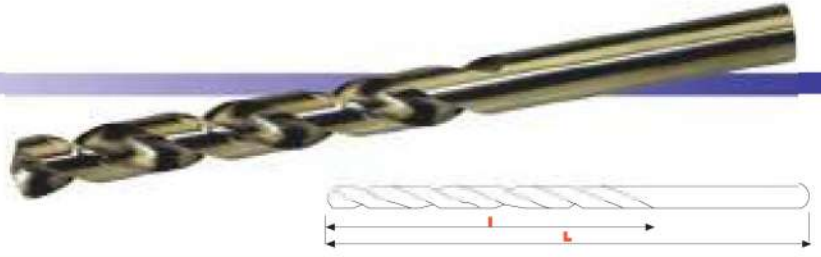
SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS TAŞLANMIŞ

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P333811060	10.6mm	133	87	P333811430	14.3mm	169	114
P333811070	10.7mm	142	94	P333811440	14.4mm	169	114
P333811080	10.8mm	142	94	P333811450	14.5mm	169	114
P333811090	10.9mm	142	94	P333811460	14.6mm	169	114
P333811100	11.0mm	142	94	P333811470	14.7mm	169	114
P333811110	11.1mm	142	94	P333811480	14.8mm	169	114
P333811120	11.2mm	142	94	P333811490	14.9mm	169	114
P333811130	11.3mm	142	94	P333811500	15.0mm	169	114
P333811140	11.4mm	142	94	P333811510	15.1mm	178	120
P333811150	11.5mm	142	94	P333811520	15.2mm	178	120
P333811160	11.6mm	142	94	P333811530	15.3mm	178	120
P333811170	11.7mm	142	94	P333811540	15.4mm	178	120
P333811180	11.8mm	142	94	P333811550	15.5mm	178	120
P333811190	11.9mm	151	101	P333811560	15.6mm	178	120
P333811200	12.0mm	151	101	P333811570	15.7mm	178	120
P333811210	12.1mm	151	101	P333811580	15.8mm	178	120
P333811220	12.2mm	151	101	P333811590	15.9mm	178	120
P333811230	12.3mm	151	101	P333811600	16.0mm	178	120
P333811240	12.4mm	151	101	P333811650	16.5mm	184	125
P333811250	12.5mm	151	101	P333811700	17.0mm	184	125
P333811260	12.6mm	151	101	P333811750	17.5mm	191	130
P333811270	12.7mm	151	101	P333811800	18.0mm	191	130
P333811280	12.8mm	151	101	P333811850	18.5mm	198	135
P333811290	12.9mm	151	101	P333811900	19.0mm	198	135
P333811300	13.0mm	151	101	P333811950	19.5mm	205	140
P333811310	13.1mm	151	101	P333812000	20.0mm	205	140
P333811320	13.2mm	151	101	P333812050	20.5mm	213	145
P333811330	13.3mm	160	108	P333812100	21.0mm	213	145
P333811340	13.4mm	160	108	P333812150	21.5mm	221	150
P333811350	13.5mm	160	108	P333812200	22.0mm	221	150
P333811360	13.6mm	160	108	P333812250	22.5mm	229	155
P333811370	13.7mm	160	108	P333812300	23.0mm	229	155
P333811380	13.8mm	160	108	P333812350	23.5mm	229	155
P333811390	13.9mm	160	108	P333812400	24.0mm	236	160
P333811400	14.0mm	160	108	P333812450	24.5mm	236	160
P333811410	14.1mm	169	114	P333812500	25.0mm	236	160
P333811420	14.2mm	169	114				

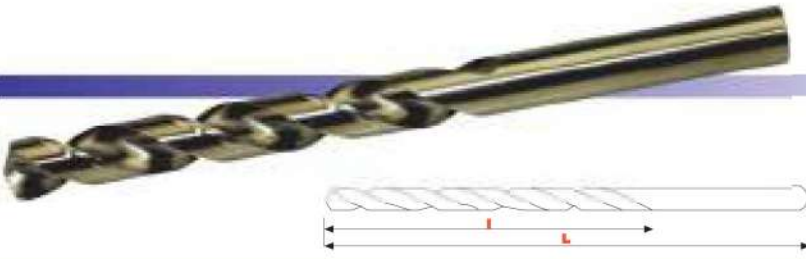


MATKAP UÇ SETLERİ (PLASTİK KUTULU)

KOD	ÖLÇÜ	ÖZELLİK
P333847519	1 - 10mm (19 PARÇA)	HSS
P333847525	1 - 13mm (25 PARÇA)	HSS
P333859519	1 - 10mm (19 PARÇA)	HSS-CO
P333857025	1 - 13mm (25 PARÇA)	HSS-CO



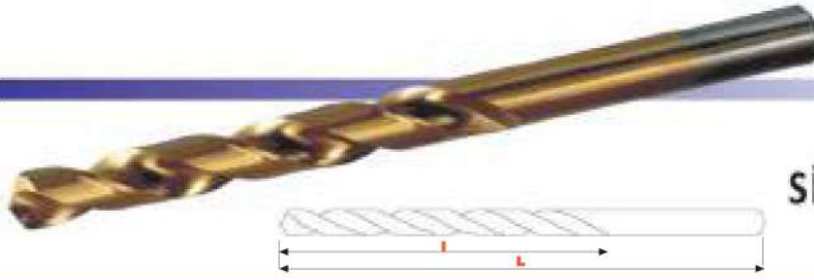
KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P333850100	1.0mm	34	12	P333850610	6.1mm	101	63
P333850110	1.1mm	36	14	P333850620	6.2mm	101	63
P333850120	1.2mm	38	16	P333850630	6.3mm	101	63
P333850130	1.3mm	38	16	P333850640	6.4mm	101	63
P333850140	1.4mm	40	18	P333850650	6.5mm	101	63
P333850150	1.5mm	40	18	P333850660	6.6mm	101	63
P333850160	1.6mm	43	20	P333850670	6.7mm	101	63
P333850170	1.7mm	43	20	P333850680	6.8mm	109	69
P333850180	1.8mm	46	22	P333850690	6.9mm	109	69
P333850190	1.9mm	46	22	P333850700	7.0mm	109	69
P333850200	2.0mm	49	24	P333850710	7.1mm	109	69
P333850210	2.1mm	49	24	P333850720	7.2mm	109	69
P333850220	2.2mm	53	27	P333850730	7.3mm	109	69
P333850230	2.3mm	53	27	P333850740	7.4mm	109	69
P333850240	2.4mm	57	30	P333850750	7.5mm	109	69
P333850250	2.5mm	57	30	P333850760	7.6mm	117	75
P333850260	2.6mm	57	30	P333850770	7.7mm	117	75
P333850270	2.7mm	61	33	P333850780	7.8mm	117	75
P333850280	2.8mm	61	33	P333850790	7.9mm	117	75
P333850290	2.9mm	61	33	P333850800	8.0mm	117	75
P333850300	3.0mm	61	33	P333850810	8.1mm	117	75
P333850310	3.1mm	65	36	P333850820	8.2mm	117	75
P333850320	3.2mm	65	36	P333850830	8.3mm	117	75
P333850330	3.3mm	65	36	P333850840	8.4mm	117	75
P333850340	3.4mm	70	39	P333850850	8.5mm	117	75
P333850350	3.5mm	70	39	P333850860	8.6mm	125	81
P333850360	3.6mm	70	39	P333850870	8.7mm	125	81
P333850370	3.7mm	70	39	P333850880	8.8mm	125	81
P333850380	3.8mm	75	43	P333850890	8.9mm	125	81
P333850390	3.9mm	75	43	P333850900	9.0mm	125	81
P333850400	4.0mm	75	43	P333850910	9.1mm	125	81
P333850410	4.1mm	75	43	P333850920	9.2mm	125	81
P333850420	4.2mm	75	43	P333850930	9.3mm	125	81
P333850430	4.3mm	80	47	P333850940	9.4mm	125	81
P333850440	4.4mm	80	47	P333850950	9.5mm	125	81
P333850450	4.5mm	80	47	P333850960	9.6mm	133	87
P333850460	4.6mm	80	47	P333850970	9.7mm	133	87
P333850470	4.7mm	80	47	P333850980	9.8mm	133	87
P333850480	4.8mm	86	52	P333850990	9.9mm	133	87
P333850490	4.9mm	86	52	P333851000	10.0mm	133	87
P333850500	5.0mm	86	52	P333851020	10.2mm	133	87
P333850510	5.1mm	86	52	P333851050	10.5mm	133	87
P333850520	5.2mm	86	52	P333851100	11.0mm	142	94
P333850530	5.3mm	86	52	P333851150	11.5mm	142	94
P333850540	5.4mm	93	57	P333851200	12.0mm	151	101
P333850550	5.5mm	93	57	P333851250	12.5mm	151	101
P333850560	5.6mm	93	57	P333851300	13.0mm	151	101
P333850570	5.7mm	93	57	P333851350	13.5mm	160	108
P333850580	5.8mm	93	57	P333851400	14.0mm	160	108
P333850590	5.9mm	93	57	P333851450	14.5mm	169	114
P333850600	6.0mm	93	57	P333851500	15.0mm	169	114



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ALTIN SERİ MATKAP UÇLARI
DIN338 HSS-CO

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P333851550	15.5mm	178	120	P333851800	18.0mm	191	130
P333851600	16.0mm	178	120	P333851850	18.5mm	198	135
P333851650	16.5mm	184	125	P333851900	19.0mm	198	135
P333851700	17.0mm	184	125	P333851950	19.5mm	205	140
P333851750	17.5mm	191	130	P333852000	20.0mm	205	140



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SİLİNDİRİK SAPLI MATKAP UÇLARI
DIN338 HSS TIN KAPLI

KOD	ÖLÇÜ	L1	L2
P233880100	1.0mm	34	12
P233880150	1.5mm	40	18
P233880200	2.0mm	49	24
P233880250	2.5mm	57	30
P233880300	3.0mm	61	33
P233880320	3.2mm	65	36
P233880330	3.3mm	65	36
P233880350	3.5mm	70	39
P233880400	4.0mm	75	43
P233880420	4.2mm	75	43
P233880450	4.5mm	80	47
P233880500	5.0mm	86	52
P233880520	5.2mm	86	52
P233880550	5.5mm	93	57
P233880600	6.0mm	93	57
P233880650	6.5mm	101	63
P233880680	6.8mm	109	69
P233880700	7.0mm	109	69
P233880750	7.5mm	109	69
P233880800	8.0mm	117	75
P233880850	8.5mm	117	75
P233880900	9.0mm	125	81
P233880950	9.5mm	125	81
P233881000	10.0mm	133	87
P233881050	10.5mm	133	87
P233881100	11.0mm	142	94
P233881150	11.5mm	142	94
P233881200	12.0mm	151	101
P233881250	12.5mm	151	101
P233881300	13.0mm	151	101

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SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS-SOL TAŞLANMIŞ



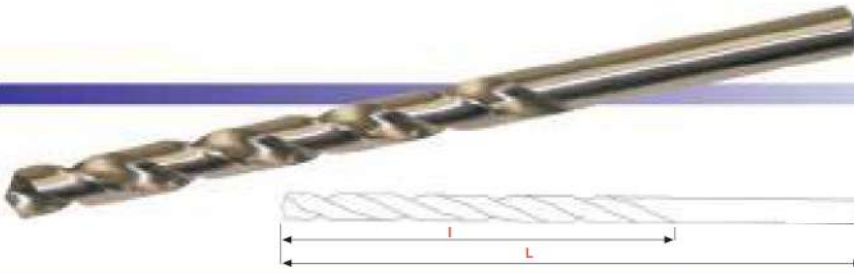
KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P243380100	1.0mm	34	12	P243380750	7.5mm	109	69
P243380150	1.5mm	40	18	P243380800	8.0mm	117	75
P243380200	2.0mm	49	24	P243380850	8.5mm	117	75
P243380250	2.5mm	57	30	P243380900	9.0mm	125	81
P243380300	3.0mm	61	33	P243380950	9.5mm	125	81
P243380350	3.5mm	70	39	P243381000	10.0mm	133	87
P243380400	4.0mm	75	43	P243381050	10.5mm	133	87
P243380450	4.5mm	80	47	P243381100	11.0mm	142	94
P243380500	5.0mm	86	52	P243381150	11.5mm	142	94
P243380550	5.5mm	93	57	P243381200	12.0mm	151	101
P243380600	6.0mm	93	57	P243381250	12.5mm	151	101
P243380650	6.5mm	101	63	P243381300	13.0mm	151	101
P243380700	7.0mm	109	69				

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SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS %25 TIN UÇLU



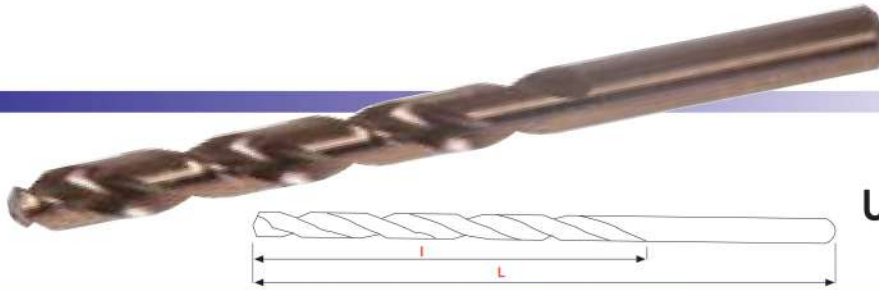
KOD	ÖLÇÜ	L1	L2	KOD	ÖLÇÜ	L1	L2
P433890100	1.0mm	34	12	P433890800	8.0mm	117	75
P433890150	1.5mm	40	18	P433890850	8.5mm	117	75
P433890200	2.0mm	49	24	P433890900	9.0mm	125	81
P433890250	2.5mm	57	30	P433890950	9.5mm	125	81
P433890300	3.0mm	61	33	P433891000	10.0mm	133	87
P433890320	3.2mm	65	36	P433891020	10.2mm	133	87
P433890330	3.3mm	65	36	P433891050	10.5mm	133	87
P433890350	3.5mm	70	39	P433891100	11.0mm	142	94
P433890400	4.0mm	75	43	P433891150	11.5mm	142	94
P433890420	4.2mm	75	43	P433891200	12.0mm	151	101
P433890450	4.5mm	80	47	P433891250	12.5mm	151	101
P433890500	5.0mm	86	52	P433891300	13.0mm	151	101
P433890520	5.2mm	86	52	P433891350	13.5mm	160	108
P433890550	5.5mm	93	57	P433891400	14.0mm	160	108
P433890600	6.0mm	93	57	P433891450	14.5mm	169	114
P433890650	6.5mm	101	63	P433891500	15.0mm	169	114
P433890680	6.8mm	109	69	P433891550	15.5mm	178	120
P433890700	7.0mm	109	69	P433891600	16.0mm	178	120
P433890750	7.5mm	109	69				



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UZUN SERİ MATKAP UÇLARI DIN340 HSS TAŞLANMIŞ

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P334020100	1.0mm	56	33	P334021000	10.0mm	184	121
P334020150	1.5mm	70	45	P334021050	10.5mm	184	121
P334020200	2.0mm	85	56	P334021100	11.0mm	195	128
P334020250	2.5mm	95	62	P334021150	11.5mm	195	128
P334020300	3.0mm	100	66	P334021200	12.0mm	205	134
P334020320	3.2mm	106	69	P334021250	12.5mm	205	134
P334020330	3.3mm	106	69	P334021300	13.0mm	205	134
P334020350	3.5mm	112	73	P334021350	13.5mm	214	140
P334020400	4.0mm	119	78	P334021400	14.0mm	214	140
P334020420	4.2mm	119	78	P334021450	14.5mm	220	144
P334020450	4.5mm	126	82	P334021500	15.0mm	220	144
P334020500	5.0mm	132	87	P334021550	15.5mm	227	149
P334020520	5.2mm	134	90	P334021600	16.0mm	227	149
P334020550	5.5mm	139	91	P334021650	16.5mm	235	154
P334020600	6.0mm	139	91	P334021700	17.0mm	235	154
P334020650	6.5mm	148	97	P334021750	17.5mm	241	158
P334020700	7.0mm	156	102	P334021800	18.0mm	241	158
P334020750	7.5mm	156	102	P334021850	18.5mm	247	162
P334020800	8.0mm	165	109	P334021900	19.0mm	247	162
P334020850	8.5mm	165	109	P334021950	19.5mm	254	166
P334020900	9.0mm	175	115	P334022000	20.0mm	254	166
P334020950	9.5mm	175	115				

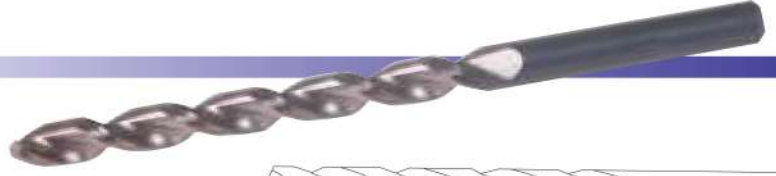


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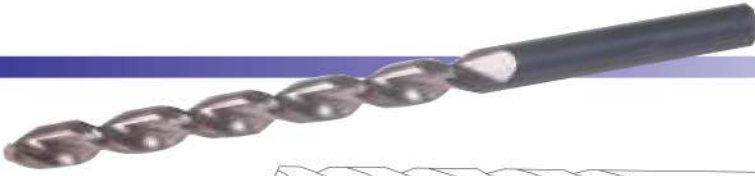
UZUN SERİ MATKAP UÇLARI DIN340 HSS-CO TAŞLANMIŞ

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P334050080	0.8mm	56	33	P334050600	6.0mm	139	91
P334050100	1.0mm	56	33	P334050650	6.5mm	148	97
P334050150	1.5mm	70	45	P334050700	7.0mm	156	102
P334050200	2.0mm	85	56	P334050750	7.5mm	156	102
P334050250	2.5mm	95	62	P334050800	8.0mm	165	109
P334050300	3.0mm	100	66	P334050850	8.5mm	165	109
P334050320	3.2mm	106	69	P334050900	9.0mm	175	115
P334050330	3.3mm	106	69	P334050950	9.5mm	175	115
P334050350	3.5mm	112	73	P334051000	10.0mm	184	121
P334050400	4.0mm	119	78	P334051050	10.5mm	184	121
P334050420	4.2mm	119	78	P334051100	11.0mm	195	128
P334050450	4.5mm	126	82	P334051150	11.5mm	195	128
P334050500	5.0mm	132	87	P334051200	12.0mm	205	134
P334050520	5.2mm	134	90	P334051250	12.5mm	205	134
P334050550	5.5mm	139	91	P334051300	13.0mm	205	134

UZUN SERİ MATKAP UÇLARI DIN340 HSS GT100



KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P334030050	0.5mm	49	28	P334030570	5.7mm	139	91
P334030060	0.6mm	50	29	P334030580	5.8mm	139	91
P334030070	0.7mm	51	30	P334030590	5.9mm	139	91
P334030080	0.8mm	52	31	P334030600	6.0mm	139	91
P334030090	0.9mm	54	32	P334030610	6.1mm	148	97
P334030100	1.0mm	56	33	P334030620	6.2mm	148	97
P334030110	1.1mm	60	37	P334030630	6.3mm	148	97
P334030120	1.2mm	65	41	P334030640	6.4mm	148	97
P334030130	1.3mm	65	41	P334030650	6.5mm	148	97
P334030140	1.4mm	70	45	P334030660	6.6mm	148	97
P334030150	1.5mm	70	45	P334030670	6.7mm	148	97
P334030160	1.6mm	76	50	P334030680	6.8mm	156	102
P334030170	1.7mm	76	50	P334030690	6.9mm	156	102
P334030180	1.8mm	80	53	P334030700	7.0mm	156	102
P334030190	1.9mm	80	53	P334030710	7.1mm	156	102
P334030200	2.0mm	85	56	P334030720	7.2mm	156	102
P334030210	2.1mm	85	56	P334030730	7.3mm	156	102
P334030220	2.2mm	90	59	P334030740	7.4mm	156	102
P334030230	2.3mm	90	59	P334030750	7.5mm	156	102
P334030240	2.4mm	95	62	P334030760	7.6mm	165	109
P334030250	2.5mm	95	62	P334030770	7.7mm	165	109
P334030260	2.6mm	95	62	P334030780	7.8mm	165	109
P334030270	2.7mm	100	66	P334030790	7.9mm	165	109
P334030280	2.8mm	100	66	P334030800	8.0mm	165	109
P334030290	2.9mm	100	66	P334030810	8.1mm	165	109
P334030300	3.0mm	100	66	P334030820	8.2mm	165	109
P334030310	3.1mm	106	69	P334030830	8.3mm	165	109
P334030320	3.2mm	106	69	P334030840	8.4mm	165	109
P334030330	3.3mm	106	69	P334030850	8.5mm	165	109
P334030340	3.4mm	112	73	P334030860	8.6mm	175	115
P334030350	3.5mm	112	73	P334030870	8.7mm	175	115
P334030360	3.6mm	112	73	P334030880	8.8mm	175	115
P334030370	3.7mm	112	73	P334030890	8.9mm	175	115
P334030380	3.8mm	119	78	P334030900	9.0mm	175	115
P334030390	3.9mm	119	78	P334030910	9.1mm	175	115
P334030400	4.0mm	119	78	P334030920	9.2mm	175	115
P334030410	4.1mm	119	78	P334030930	9.3mm	175	115
P334030420	4.2mm	119	78	P334030940	9.4mm	175	115
P334030430	4.3mm	126	82	P334030950	9.5mm	175	115
P334030440	4.4mm	126	82	P334030960	9.6mm	184	121
P334030450	4.5mm	126	82	P334030970	9.7mm	184	121
P334030460	4.6mm	126	82	P334030980	9.8mm	184	121
P334030470	4.7mm	126	82	P334030990	9.9mm	184	121
P334030480	4.8mm	132	87	P334031000	10.0mm	184	121
P334030490	4.9mm	132	87	P334031010	10.1mm	184	121
P334030500	5.0mm	132	87	P334031020	10.2mm	184	121
P334030510	5.1mm	132	87	P334031030	10.3mm	184	121
P334030520	5.2mm	132	87	P334031040	10.4mm	184	121
P334030530	5.3mm	132	87	P334031050	10.5mm	184	121
P334030540	5.4mm	139	91	P334031060	10.6mm	184	121
P334030550	5.5mm	139	91	P334031070	10.7mm	195	128
P334030560	5.6mm	139	91	P334031080	10.8mm	195	128



PTG

UZUN SERİ MATKAP UÇLARI DIN340 HSS GT100

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P334031090	10.9mm	195	128	P334031390	13.9mm	214	140
P334031100	11.0mm	195	128	P334031400	14.0mm	214	140
P334031110	11.1mm	195	128	P334031410	14.1mm	214	140
P334031120	11.2mm	195	128	P334031420	14.2mm	214	140
P334031130	11.3mm	195	128	P334031430	14.3mm	214	140
P334031140	11.4mm	195	128	P334031440	14.4mm	214	140
P334031150	11.5mm	195	128	P334031450	14.5mm	214	140
P334031160	11.6mm	195	128	P334031460	14.6mm	214	140
P334031170	11.7mm	195	128	P334031470	14.7mm	214	140
P334031180	11.8mm	195	128	P334031480	14.8mm	214	140
P334031190	11.9mm	205	134	P334031490	14.9mm	214	140
P334031200	12.0mm	205	134	P334031500	15.0mm	220	144
P334031210	12.1mm	205	134	P334031510	15.1mm	220	144
P334031220	12.2mm	205	134	P334031520	15.2mm	220	144
P334031230	12.3mm	205	134	P334031530	15.3mm	220	144
P334031240	12.4mm	205	134	P334031540	15.4mm	220	144
P334031250	12.5mm	205	134	P334031550	15.5mm	220	144
P334031260	12.6mm	205	134	P334031560	15.6mm	220	144
P334031270	12.7mm	205	134	P334031570	15.7mm	220	144
P334031280	12.8mm	205	134	P334031580	15.8mm	220	144
P334031290	12.9mm	205	134	P334031590	15.9mm	220	144
P334031300	13.0mm	205	134	P334031600	16.0mm	227	149
P334031310	13.1mm	205	134	P334031650	16.5mm	235	154
P334031320	13.2mm	205	134	P334031700	17.0mm	235	154
P334031330	13.3mm	205	134	P334031750	17.5mm	241	158
P334031340	13.4mm	205	134	P334031800	18.0mm	241	158
P334031350	13.5mm	205	134	P334031850	18.5mm	247	162
P334031360	13.6mm	214	140	P334031900	19.0mm	247	162
P334031370	13.7mm	214	140	P334031950	19.5mm	254	166
P334031380	13.8mm	214	140	P334032000	20.0mm	254	166



PTG

TERS KILAVUZ TAKIMLARI

KOD	ÖLÇÜ	ÖZELLİK
P368881803	M3 - M18	5 Parça
P368882403	M3 - M24	6 Parça
P368885003	M3 - M50	8 Parça

PTG



KISA SERİ MATKAP UÇLARI DIN1897 HSS GT100



KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P189710200	2.0mm	38	12	P189710700	7.0mm	74	34
P189710250	2.5mm	43	14	P189710750	7.5mm	74	34
P189710300	3.0mm	46	16	P189710800	8.0mm	79	37
P189710320	3.2mm	49	18	P189710850	8.5mm	79	37
P189710330	3.3mm	49	18	P189710900	9.0mm	84	40
P189710350	3.5mm	52	20	P189710950	9.5mm	84	40
P189710400	4.0mm	55	22	P189711000	10.0mm	89	43
P189710420	4.2mm	55	22	P189711050	10.5mm	89	43
P189710450	4.5mm	58	24	P189711100	11.0mm	95	47
P189710500	5.0mm	62	26	P189711150	11.5mm	95	47
P189710520	5.2mm	62	26	P189711200	12.0mm	102	51
P189710550	5.5mm	66	28	P189711250	12.5mm	102	51
P189710600	6.0mm	66	28	P189711300	13.0mm	102	51
P189710650	6.5mm	70	31				

PTG



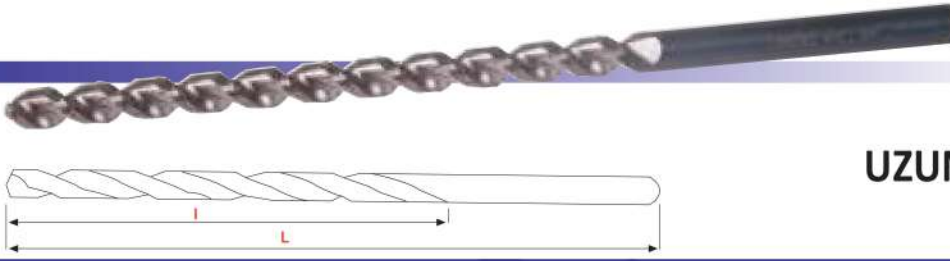
UZUN SERİ MATKAP UÇLARI DIN1869-1 (GT-100)



KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P318690080	0.8mm	80	50	P318690550	5.5mm	205	140
P318690100	1.0mm	96	60	P318690600	6.0mm	205	140
P318690110	1.1mm	96	60	P318690650	6.5mm	215	150
P318690120	1.2mm	96	60	P318690680	6.8mm	215	150
P318690130	1.3mm	105	66	P318690700	7.0mm	225	155
P318690150	1.5mm	120	80	P318690750	7.5mm	225	155
P318690200	2.0mm	125	85	P318690800	8.0mm	240	165
P318690250	2.5mm	140	95	P318690850	8.5mm	240	165
P318690300	3.0mm	150	100	P318690900	9.0mm	250	175
P318690320	3.2mm	150	100	P318690950	9.5mm	250	175
P318690330	3.3mm	150	100	P318691000	10.0mm	265	18
P318690350	3.5mm	165	115	P318691050	10.5mm	265	185
P318690400	4.0mm	175	120	P318691100	11.0mm	280	195
P318690420	4.2mm	180	125	P318691150	11.5mm	280	195
P318690450	4.5mm	185	125	P318691200	12.0mm	295	205
P318690500	5.0mm	195	135	P318691250	12.5mm	295	205
P318690520	5.2mm	195	135	P318691300	13.0mm	295	205

PTG

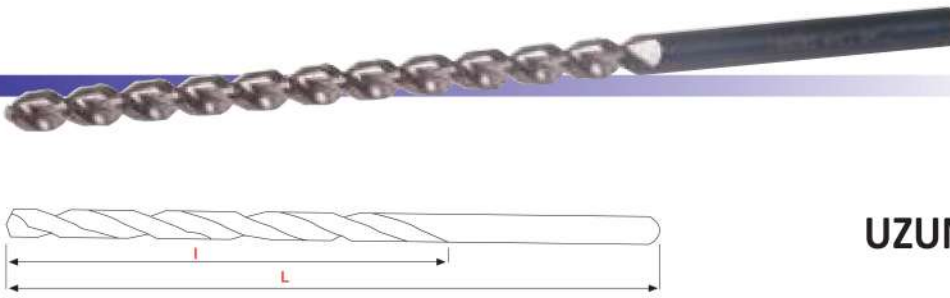
UZUN SERİ MATKAP UÇLARI DIN1869-2 (GT-100)



KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P418690100	1.0mm	115	80	P418690700	7.0mm	290	200
P418690150	1.5mm	135	90	P418690750	7.5mm	290	200
P418690200	2.0mm	160	110	P418690800	8.0mm	305	210
P418690250	2.5mm	180	120	P418690850	8.5mm	305	210
P418690300	3.0mm	190	130	P418690900	9.0mm	320	220
P418690350	3.5mm	210	145	P418690950	9.5mm	320	220
P418690400	4.0mm	220	150	P418691000	10.0mm	340	235
P418690420	4.2mm	220	150	P418691050	10.5mm	340	235
P418690450	4.5mm	235	160	P418691100	11.0mm	365	250
P418690500	5.0mm	245	170	P418691150	11.5mm	365	250
P418690550	5.5mm	260	180	P418691200	12.0mm	375	260
P418690600	6.0mm	260	180	P418691250	12.5mm	375	260
P418690650	6.5mm	275	190	P418691300	13.0mm	375	260

PTG

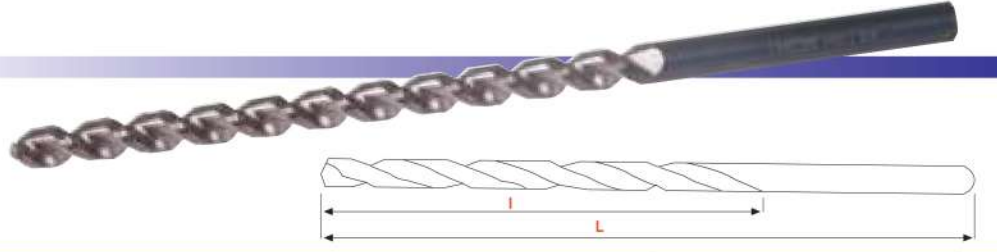
UZUN SERİ MATKAP UÇLARI DIN1869-3 (GT-100)



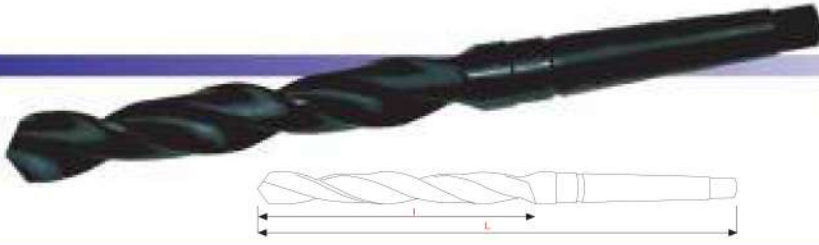
KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P518690200	2.0mm	200	135	P518690800	8.0mm	390	265
P518690250	2.5mm	225	150	P518690850	8.5mm	390	265
P518690300	3.0mm	235	160	P518690900	9.0mm	410	280
P518690350	3.5mm	265	180	P518690950	9.5mm	410	280
P518690400	4.0mm	280	190	P518691000	10.0mm	430	295
P518690450	4.5mm	295	200	P518691050	10.5mm	430	295
P518690500	5.0mm	315	210	P518691100	11.0mm	455	310
P518690550	5.5mm	330	225	P518691150	11.5mm	455	310
P518690600	6.0mm	330	225	P518691200	12.0mm	480	330
P518690650	6.5mm	350	235	P518691250	12.5mm	480	330
P518690700	7.0mm	370	250	P518691300	13.0mm	480	330
P518690750	7.5mm	370	250				

PTG

EXTRA ÇOK UZUN SERİ MATKAP UÇLARI



KOD	ÖLÇÜ	L	I
500mm BOY			
P618690400	4.0mm	500	400
P618690450	4.5mm	500	400
P618690500	5.0mm	500	400
P618690550	5.5mm	500	400
P618690600	6.0mm	500	400
P618690650	6.5mm	500	400
P618690700	7.0mm	500	400
P618690750	7.5mm	500	400
P618690800	8.0mm	500	500
P618690865	8.0mm	600	500
P618690850	8.5mm	500	400
P618690900	9.0mm	500	400
P618691000	10.0mm	600	500
P618691050	10.5mm	600	500
P618691100	11.0mm	600	500
P618691150	11.5mm	600	500
P618691200	12.0mm	600	500
375mm BOY			
P318691350	13.5mm	375	265
P318691400	14.0mm	375	265
P318691450	14.5mm	375	265
P318691500	15.0mm	375	265
P318691550	15.5mm	375	265
P318691600	16.0mm	375	265
P318691650	16.5mm	375	265
P318691700	17.0mm	375	265
P318691750	17.5mm	375	265
P318691800	18.0mm	375	265
P318691850	18.5mm	375	265
P318691900	19.0mm	375	265
P318691950	19.5mm	375	265
P318692000	20.0mm	375	265
600mm BOY			
P618691400	14.0mm	480	330
P618691450	14.5mm	480	330
P618691500	15.0mm	600	500
P618691550	15.5mm	600	500
P618691600	16.0mm	600	500
P618691650	16.5mm	600	500
P618691700	17.0mm	600	500
P618691750	17.5mm	600	500
P618691800	18.0mm	600	500
P618691850	18.5mm	600	500
P618691900	19.0mm	600	500
P618691950	19.5mm	600	500
P618692000	20.0mm	600	500



PTG

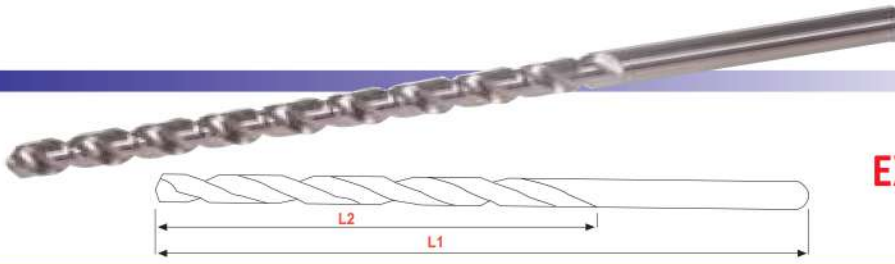
KONİK SAPLI MATKAP UÇLARI DIN345

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P334500800	8.0mm	156	75	P334503400	34.0mm	339	190
P334500850	8.5mm	156	75	P334503450	34.5mm	339	190
P334500900	9.0mm	162	81	P334503500	35.0mm	339	190
P334500950	9.5mm	162	81	P334503550	35.5mm	339	190
P334501000	10.0mm	168	87	P334503600	36.0mm	344	195
P334501050	10.5mm	168	87	P334503650	36.5mm	344	195
P334501100	11.0mm	175	94	P334503700	37.0mm	344	195
P334501150	11.5mm	175	94	P334503750	37.5mm	344	195
P334501200	12.0mm	182	101	P334503800	38.0mm	349	200
P334501250	12.5mm	182	101	P334503850	38.5mm	349	200
P334501300	13.0mm	182	101	P334503900	39.0mm	349	200
P334501350	13.5mm	189	108	P334503950	39.5mm	349	200
P334501400	14.0mm	189	108	P334504000	40.0mm	349	200
P334501450	14.5mm	212	114	P334504050	40.5mm	354	205
P334501500	15.0mm	212	114	P334504100	41.0mm	354	205
P334501550	15.5mm	218	120	P334504150	41.5mm	354	205
P334501600	16.0mm	218	120	P334504200	42.0mm	354	205
P334501650	16.5mm	223	125	P334504250	42.5mm	354	205
P334501700	17.0mm	223	125	P334504300	43.0mm	359	210
P334501750	17.5mm	228	130	P334504350	43.5mm	359	210
P334501800	18.0mm	228	130	P334504400	44.0mm	359	210
P334501850	18.5mm	233	135	P334504450	44.5mm	359	210
P334501900	19.0mm	233	135	P334504500	45.0mm	359	210
P334501950	19.5mm	238	140	P334504550	45.5mm	364	215
P334502000	20.0mm	238	140	P334504600	46.0mm	364	215
P334502050	20.5mm	243	145	P334504650	46.5mm	364	215
P334502100	21.0mm	243	145	P334504700	47.0mm	364	215
P334502150	21.5mm	248	150	P334504750	47.5mm	364	215
P334502200	22.0mm	248	150	P334504800	48.0mm	369	220
P334502250	22.5mm	253	155	P334504850	48.5mm	369	220
P334502300	23.0mm	253	155	P334504900	49.0mm	369	220
P334502350	23.5mm	276	155	P334504950	49.5mm	369	220
P334502400	24.0mm	281	160	P334505000	50.0mm	369	220
P334502450	24.5mm	281	160	P334505100	51.0mm	412	225
P334502500	25.0mm	281	160	P334505200	52.0mm	412	225
P334502550	25.5mm	286	165	P334505300	53.0mm	412	225
P334502600	26.0mm	286	165	P334505400	54.0mm	417	230
P334502650	26.5mm	286	165	P334505500	55.0mm	417	230
P334502700	27.0mm	291	170	P334505600	56.0mm	417	230
P334502750	27.5mm	291	170	P334505700	57.0mm	422	235
P334502800	28.0mm	291	170	P334505800	58.0mm	422	235
P334502850	28.5mm	296	175	P334505900	59.0mm	422	235
P334502900	29.0mm	296	175	P334506000	60.0mm	422	235
P334502950	29.5mm	296	175	P334506100	61.0mm	427	240
P334503000	30.0mm	296	175	P334506200	62.0mm	427	240
P334503050	30.5mm	301	180	P334506300	63.0mm	427	240
P334503100	31.0mm	301	180	P334506400	64.0mm	427	240
P334503150	31.5mm	301	180	P334506500	65.0mm	432	245
P334503200	32.0mm	334	185	P334506600	66.0mm	433	246
P334503250	32.5mm	334	185	P334506700	67.0mm	434	247
P334503300	33.0mm	334	185	P334506800	68.0mm	435	248
P334503350	33.5mm	334	185	P334507000	70.0mm	436	249



NEW

KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P234101400	14.0mm	223	142	P234103050	30.5mm	360	239
P234101450	14.5mm	245	147	P234103100	31.0mm	360	239
P234101500	15.0mm	245	147	P234103150	31.5mm	360	239
P234101550	15.5mm	251	153	P234103200	32.0mm	397	248
P234101600	16.0mm	251	153	P234103250	32.5mm	397	248
P234101650	16.5mm	257	159	P234103300	33.0mm	397	248
P234101700	17.0mm	257	159	P234103350	33.5mm	397	248
P234101750	17.5mm	263	165	P234103400	34.0mm	397	248
P234101800	18.0mm	263	165	P234103450	34.5mm	406	257
P234101850	18.5mm	269	171	P234103500	35.0mm	406	257
P234101900	19.0mm	269	171	P234103550	35.5mm	406	257
P234101950	19.5mm	275	177	P234103600	36.0mm	416	267
P234102000	20.0mm	275	177	P234103650	36.5mm	416	267
P234102050	20.5mm	282	184	P234103700	37.0mm	416	267
P234102100	21.0mm	282	184	P234103750	37.5mm	426	277
P234102150	21.5mm	289	191	P234103800	38.0mm	426	277
P234102200	22.0mm	289	191	P234103850	38.5mm	426	277
P234102250	22.5mm	296	198	P234103900	39.0mm	426	277
P234102300	23.0mm	296	198	P234103950	39.5mm	426	277
P234102350	23.5mm	319	198	P234104000	40.0mm	426	277
P234102400	24.0mm	327	206	P234104050	40.5mm	436	287
P234102450	24.5mm	327	206	P234104100	41.0mm	436	287
P234102500	25.0mm	327	206	P234104150	41.5mm	436	287
P234102550	25.5mm	335	214	P234104200	42.0mm	436	287
P234102600	26.0mm	335	214	P234104250	42.5mm	436	287
P234102650	26.5mm	335	214	P234104300	43.0mm	447	298
P234102700	27.0mm	343	222	P234104400	44.0mm	447	298
P234102750	27.5mm	343	222	P234104500	45.0mm	447	298
P234102800	28.0mm	343	222	P234104600	46.0mm	459	310
P234102850	28.5mm	351	230	P234104700	47.0mm	459	310
P234102900	29.0mm	351	230	P234104800	48.0mm	470	321
P234102950	29.5mm	351	230	P234104900	49.0mm	470	321
P234103000	30.0mm	351	230	P234105000	50.0mm	470	321



KOD	ÖLÇÜ	L1	L2
DIN1869-1			
P-318690200	2.0mm	125	85
P-318690250	2.5mm	140	95
P-318690300	3.0mm	150	100
P-318690350	3.5mm	165	115
P-318690400	4.0mm	175	120
P-318690420	4.2mm	180	125
P-318690450	4.5mm	185	125
P-318690500	5.0mm	195	135
P-318690550	5.5mm	205	140
P-318690600	6.0mm	205	140
P-318690650	6.5mm	215	150
P-318690680	6.8mm	225	155
P-318690700	7.0mm	225	155
P-318690750	7.5mm	225	155
P-318690800	8.0mm	240	165
P-318690850	8.5mm	240	165
P-318690900	9.0mm	250	175
P-318690950	9.5mm	250	175
P-318691000	10.0mm	265	185
P-318691050	10.5mm	265	185
P-318691100	11.0mm	280	195
P-318691150	11.5mm	280	195
P-318691200	12.0mm	295	205
P-318691250	12.5mm	295	205
P-318691300	13.0mm	295	205

DIN1869-2			
P-328690200	2.0mm	160	110
P-328690250	2.5mm	180	120
P-328690300	3.0mm	190	130
P-328690350	3.5mm	210	145
P-328690400	4.0mm	220	150
P-328690450	4.5mm	235	160
P-328690500	5.0mm	245	170
P-328690550	5.5mm	260	180
P-328690600	6.0mm	260	180
P-328690650	6.5mm	275	190
P-328690700	7.0mm	290	200
P-328690750	7.5mm	290	200
P-328690800	8.0mm	305	210
P-328690850	8.5mm	305	210
P-328690900	9.0mm	320	220
P-328690950	9.5mm	320	220
P-328691000	10.0mm	340	235
P-328691050	10.5mm	340	235
P-328691100	11.0mm	365	250
P-328691150	11.5mm	365	250
P-328691200	12.0mm	375	260
P-328691250	12.5mm	375	260
P-328691300	13.0mm	375	260

PTG

EXTRA UZUN MATKAP UÇLARI DIN1869(N tipi)



KOD	ÖLÇÜ	L	I
DIN1869-3			
P-338690200	2.0mm	160	110
P-338690250	2.5mm	180	120
P-338690300	3.0mm	240	160
P-338690350	3.5mm	265	180
P-338690400	4.0mm	280	190
P-338690450	4.5mm	295	200
P-338690500	5.0mm	315	210
P-338690550	5.5mm	330	225
P-338690600	6.0mm	330	225
P-338690650	6.5mm	350	235
P-338690700	7.0mm	370	250
P-338690750	7.5mm	370	250
P-338690800	8.0mm	390	265
P-338690850	8.5mm	390	265
P-338690900	9.0mm	410	280
P-338690950	9.5mm	410	280
P-338691000	10.0mm	430	295
P-338691050	10.5mm	430	295
P-338691100	11.0mm	455	310
P-338691150	11.5mm	455	310
P-338691200	12.0mm	480	330
P-338691250	12.5mm	480	330
P-338691300	13.0mm	480	330

PTG



PUNTA MATKAP UÇLARI HSS DIN333 FORM A

KOD	ÖLÇÜ	L	d
DIN333 FORM A			
P233300080	0.80mm	315	3.15
P233300100	1.00mm	31.5	3.15
P233300125	1.25mm	31.5	3.15
P233300160	1.60mm	35.5	4
P233300200	2.00mm	40	5
P233300250	2.50mm	45	6.30
P233300315	3.15mm	50	8
P233300400	4.00mm	56	10
P233300500	5.00mm	63	12.5
P233300630	6.30mm	71	16
P233300800	8.00mm	80	20
P233301000	10.0mm	100	25

DIN333 FORM A UZUN



P231200100	1.00mm	120	3.15
P231200125	1.25mm	120	3.15
P231200160	1.60mm	120	4
P231200200	2.00mm	120	5
P231200250	2.50mm	120	6.30
P231200315	3.15mm	120	8
P231200400	4.00mm	120	10
P231200500	5.00mm	120	12



PTG

PUNTA ÇÜRÜTME MATKAP UÇLARI HSS-CO5 DIN1897

KOD	ÖLÇÜ	ÖZELLİK
P218980600	6 X 66mm	
P218980700	7 X 74mm	
P218980800	8 X 79mm	
P218981000	10 X 89mm	
P218900600TIN	6 X 66mm	TIN KAPLAMA
P218900700TIN	7 X 74mm	TIN KAPLAMA
P218900800TIN	8 X 79mm	TIN KAPLAMA
P218901000TIN	10 X 89mm	TIN KAPLAMA
P218940800	8 X 44mm	HSS-E KAPLAMASIZ
P218950800TIN	8 X 47mm	HSS-E TIN KAPLAMA

PTG

PARMAK FREZELER DIN844-BN HSS-CO



KOD	ÖLÇÜ	L	I	KOD	ÖLÇÜ	L	I
P384410200	2.0mm	51	7	P384411900	19.0mm	104	38
P384410250	2.5mm	52	8	P384412000	20.0mm	104	38
P384410300	3.0mm	52	8	P384412100	21.0mm	104	38
P384410400	4.0mm	55	11	P384412200	22.0mm	104	38
P384410500	5.0mm	57	13	P384412300	23.0mm	121	38
P384410600	6.0mm	57	13	P384412400	24.0mm	121	45
P384410700	7.0mm	66	16	P384412500	25.0mm	121	45
P384410800	8.0mm	69	19	P384412600	26.0mm	121	45
P384410900	9.0mm	69	19	P384412700	27.0mm	121	45
P384411000	10.0mm	72	22	P384412800	28.0mm	121	45
P384411100	11.0mm	79	22	P384412900	29.0mm	121	45
P384411200	12.0mm	83	26	P384413000	30.0mm	121	45
P384411300	13.0mm	83	26	P384413200	32.0mm	133	53
P384411400	14.0mm	83	26	P384413400	34.0mm	133	53
P384411500	15.0mm	83	26	P384413500	35.0mm	133	53
P384411600	16.0mm	92	32	P384413600	36.0mm	133	53
P384411700	17.0mm	92	32	P384413800	38.0mm	133	53
P384411800	18.0mm	92	38	P384414000	40.0mm	133	53

PTG

2 AĞIZ PARMAK FREZELER DIN327



KOD	ÖLÇÜ	I	L	d
P84362902	2.0mm	7	54	6
P84362903	3.0mm	8	56	6
P84362904	4.0mm	11	63	6
P84362905	5.0mm	13	68	6
P84362905	6.0mm	13	68	6
P84362907	7.0mm	16	80	10
P84362908	8.0mm	19	88	10
P84362910	10.0mm	22	95	10
P84362912	12.0mm	26	110	12
P84362914	14.0mm	26	110	12
P84362916	16.0mm	32	123	16
P84362918	18.0mm	32	123	16
P84362920	20.0mm	38	141	20

PTG

KABATALAŞ PARMAK FREZELER DIN844 - BNR HSS-CO



KOD	ÖLÇÜ	L	d
HSS-CO %8 - KISA			
P384430800	8.0mm	69	19
P384431000	10.0mm	72	22
P384431200	12.0mm	83	26
P384431400	14.0mm	83	26
P384431600	16.0mm	92	32
P384431800	18.0mm	92	32
P384432000	20.0mm	104	38
P384432200	22.0mm	104	38
P384432400	24.0mm	121	45
P384432500	25.0mm	121	45
HSS-CO %8 - UZUN			
P384440800	8.0mm	88	38
P384441000	10.0mm	95	45
P384441200	12.0mm	110	53
P384441400	14.0mm	110	53
P384441600	16.0mm	123	63
P384441800	18.0mm	123	63
P384442000	20.0mm	141	75

PTG

KABATALAŞ PARMAK FREZELER DIN844 - BNR HSS UZUN



KOD	ÖLÇÜ	L	I
P84396505	5.0mm	64	22
P84396506	6.0mm	68	24
P84396508	8.0mm	88	38
P84396510	10.0mm	95	45
P84396512	12.0mm	110	53
P84396514	14.0mm	110	53
P84396516	16.0mm	123	63
P84396518	18.0mm	123	63
P84396520	20.0mm	141	75
P84396525	25.0mm	166	90
P84396530	30.0mm	166	90
P84396532	32.0mm	186	106

PTG

EL RAYBALARI DIN206 HSS FORM B



KOD	ÖLÇÜ	L1	L2	g	KOD	ÖLÇÜ	L1	L2	g
P220600200	2.0mm	50	25	1.6	P220601700	17.0mm	175	87	12.5
P220600250	2.5mm	58	29	2.1	P220601800	18.0mm	188	93	14
P220600300	3.0mm	62	31	2.24	P220601900	19.0mm	188	93	14
P220600350	3.5mm	71	35	2.7	P220602000	20.0mm	201	100	16
P220600400	4.0mm	76	38	3.15	P220602100	21.0mm	201	100	16
P220600450	4.5mm	81	41	3.55	P220602200	22.0mm	215	107	18
P220600500	5.0mm	87	44	4.0	P220602300	23.0mm	215	107	18
P220600550	5.5mm	93	47	4.5	P220602400	24.0mm	231	115	20
P220600600	6.0mm	93	47	4.5	P220602500	25.0mm	231	115	20
P220600650	6.5mm	100	50	5.0	P220602600	26.0mm	231	115	20
P220600700	7.0mm	107	54	5.6	P220602700	27.0mm	247	124	22.4
P220600750	7.5mm	107	54	5.6	P220602800	28.0mm	247	124	22.4
P220600800	8.0mm	115	58	6.3	P220602900	29.0mm	247	124	22.4
P220600850	8.5mm	115	58	6.3	P220603000	30.0mm	247	124	22.4
P220600900	9.0mm	124	62	7.1	P220603100	31.0mm	265	133	25
P220601000	10.0mm	133	62	8.0	P220603200	32.0mm	265	133	25
P220601050	10.5mm	133	66	8.0	P220603300	33.0mm	265	133	25
P220601100	11.0mm	142	71	9.0	P220603400	34.0mm	265	133	25
P220601200	12.0mm	152	76	10.0	P220603500	35.0mm	284	142	28
P220601300	13.0mm	152	76	10.0	P220603600	36.0mm	284	142	28
P220601400	14.0mm	163	81	11.2	P220603700	37.0mm	284	142	28
P220601500	15.0mm	163	81	11.2	P220603800	38.0mm	305	152	31.5
P220601600	16.0mm	175	87	12.5	P220604000	40.0mm	305	152	31.5

PTG

SİLİNDİRİK SAPLI MAKİNA RAYBALARI DIN212 HSS-CO FORM B/D



KOD	ÖLÇÜ	L1	L2	KOD	ÖLÇÜ	L1	L2
P2221250200	2.0mm	49	11	P2221251000	10.0mm	133	38
P2221250250	2.5mm	57	14	P2221251100	11.0mm	142	41
P2221250300	3.0mm	61	15	P2221251200	12.0mm	151	44
P2221250350	3.5mm	70	18	P2221251300	13.0mm	151	44
P2221250400	4.0mm	75	19	P2221251400	14.0mm	160	47
P2221250450	4.5mm	80	21	P2221251500	15.0mm	162	50
P2221250500	5.0mm	86	23	P2221251600	16.0mm	170	52
P2221250600	6.0mm	93	26	P2221251700	17.0mm	175	54
P2221250700	7.0mm	109	31	P2221251800	18.0mm	182	56
P2221250800	8.0mm	117	33	P2221251900	19.0mm	189	58
P2221250900	9.0mm	125	36	P2221252000	20.0mm	195	60



PTG

MAKİNA RAYBALARI DIN208 HSS-CO FORM B

KOD	ÖLÇÜ	L1	L2
P220851000	10.0mm	168	38
P220851100	11.0mm	175	41
P220851200	12.0mm	182	44
P220851300	13.0mm	182	44
P220851400	14.0mm	189	47
P220851500	15.0mm	204	50
P220851600	16.0mm	210	52
P220851700	17.0mm	214	54
P220851800	18.0mm	219	56
P220851900	19.0mm	223	58
P220852000	20.0mm	228	60
P220852100	21.0mm	232	62
P220852200	22.0mm	237	64
P220852300	23.0mm	241	66
P220852400	24.0mm	268	68
P220852500	25.0mm	268	68
P220852600	26.0mm	273	70
P220852800	28.0mm	277	71
P220853000	30.0mm	281	73
P220853200	32.0mm	317	77
P220853500	35.0mm	321	78
P220854000	40.0mm	329	81



PTG

PİM RAYBALARI DIN9 HSS-CO

KOD	ÖLÇÜ	L1	L2
P220900150	1.5mm	68	48
P220900200	2.0mm	68	48
P220900250	2.5mm	68	48
P220900300	3.0mm	80	58
P220900400	4.0mm	93	68
P220900500	5.0mm	100	73
P220900600	6.0mm	135	105
P220900800	8.0mm	180	145
P220901000	10.0mm	215	175
P220901200	12.0mm	255	210
P220901400	14.0mm	280	230
P220901600	16.0mm	280	230
P220901800	18.0mm	310	250
P220902000	20.0mm	310	250

KARBÜR KALIPÇI FREZELER

KOD	ÖLÇÜ	L	I	d	KOD	ÖLÇÜ	L	I	d
									
FORM A					FORM B				
P2710010300	3.0mm	38	14	3	P2710020300	3.0mm	38	14	3
P2710010600	6.0mm	56	16	6	P2710020600	6.0mm	56	16	6
P2710010800	8.0mm	60	20	6	P2710020800	8.0mm	60	20	6
P2710011000	10.0mm	60	20	6	P2710021000	10.0mm	60	20	6
P2710011200	12.0mm	65	25	6	P2710021200	12.0mm	65	25	6
P2710011600	16.0mm	65	25	6	P2710021600	16.0mm	65	25	6
									
FORM C					FORM D				
P2710030300	3.0mm	38	14	3	P2710050300	3.0mm	40	3	3
P2710030600	6.0mm	56	16	6	P2710050600	6.0mm	45	5	6
P2710030800	8.0mm	60	20	6	P2710050800	8.0mm	47	7	6
P2710031000	10.0mm	60	20	6	P2710051000	10.0mm	49	9	6
P2710031200	12.0mm	65	25	6	P2710051200	12.0mm	50	10	6
P2710031600	16.0mm	65	25	6	P2710051600	16.0mm	54	14	6
									
FORM E					FORM F				
P2710060300	3.0mm	38	6	3	P2710070300	3.0mm	38	14	3
P2710060600	6.0mm	50	10	6	P2710070600	6.0mm	58	18	6
P2710060800	8.0mm	53	13	6	P2710070800	8.0mm	60	20	6
P2710061000	10.0mm	56	16	6	P2710071000	10.0mm	60	20	6
P2710061200	12.0mm	60	20	6	P2710071200	12.0mm	65	25	6
P2710061600	16.0mm	70	25	6	P2710071600	16.0mm	65	25	6



KARBÜR KALIPÇI FREZELER

KOD	ÖLÇÜ	L	I	d	KOD	ÖLÇÜ	L	I	d
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FORM G

P2710080300	3.0mm	38	15	3
P2710080600	6.0mm	58	18	6
P2710080800	8.0mm	60	20	6
P2710081000	10.0mm	60	20	6
P2710081200	12.0mm	65	25	6
P2710081600	16.0mm	65	25	6



FORM H

P2710100300	3.0mm	38	6	3
P2710100600	6.0mm	58	18	6
P2710100800	8.0mm	60	20	6
P2710101000	10.0mm	65	25	6
P2710101200	12.0mm	72	32	6
P2710101600	16.0mm	82	36	6



FORM L

P2710110300	3.0mm	54	14	3
P2710110600	6.0mm	56	16	6
P2710110800	8.0mm	62	22	6
P2710111000	10.0mm	65	25	6
P2710111200	12.0mm	68	28	6
P2710111600	16.0mm	73	33	6



FORM M

P2710120300	3.0mm	38	12	3
P2710120600	6.0mm	58	18	6
P2710120800	8.0mm	58	18	6
P2710121000	10.0mm	60	20	6
P2710121200	12.0mm	65	25	6
P2710121600	16.0mm	65	25	6



KARBÜR KALIPÇI FREZE TAKIMLARI

KOD	ÜRÜN
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P2710707010	10/12MM 10 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM A+C+F+G)
P2710707506	6MM 5 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)
P2710707508	8MM 5 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)
P2710707510	10MM 5 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)
P2710707512	12MM 10 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)



HSS Bİ-METAL PANÇLAR

KOD	ÖLÇÜ	KOD	ÖLÇÜ
P274001400	14mm	P274005700	57mm
P274001600	16mm	P274005900	59mm
P274001700	17mm	P274006000	60mm
P274001900	19mm	P274006400	64mm
P274002000	20mm	P274006500	65mm
P274002100	21mm	P274006700	67mm
P274002200	22mm	P274006800	68mm
P274002400	24mm	P274007000	70mm
P274002500	25mm	P274007300	73mm
P274002700	27mm	P274007500	75mm
P274002900	29mm	P274007600	76mm
P274003000	30mm	P274007900	79mm
P274003200	32mm	P274008300	83mm
P274003300	33mm	P274008600	86mm
P274003500	35mm	P274008900	89mm
P274003700	37mm	P274009200	92mm
P274003800	38mm	P274009500	95mm
P274004000	40mm	P274009800	98mm
P274004100	41mm	P274010000	100mm
P274004300	43mm	P274010200	102mm
P274004400	44mm	P274010500	105mm
P274004500	45mm	P274010800	108mm
P274004600	46mm	P274011100	111mm
P274004800	48mm	P274011400	114mm
P274005000	50mm	P274012100	121mm
P274005100	51mm	P274012700	127mm
P274005200	52mm	P274014000	140mm
P274005400	54mm	P274014600	146mm
P274005500	55mm	P274015200	152mm



HSS Bİ-METAL PANÇ SETLERİ

KOD	ÖLÇÜ	İÇERİK
P274070009	9 PARÇA	22/29/35/44/51/64 mm panç + 2 Adaptör + 1 Adap.Matkabı
P274070014	14 PARÇA	16/20/22/25/29/35/44/51/64/68/76 mm panç + 2 Adaptör + 1 Adap.Matkabı
P274070017	17 PARÇA	16/20/22/25/29/32/35/38/44/51/57/64/68/76 mm panç + 2 Adaptör + 1 Adap.Matkabı
P274080016	16 PARÇA	19/20/22/25/29/35/38/40/48/60/65/68/86 mm panç + 2 Adaptör + 1 Adap.Matkabı



PTG

CARBİDE PANÇLAR

KOD	ÖLÇÜ	KOD	ÖLÇÜ
P274501600	16mm	P274505200	52mm
P274501700	17mm	P274505400	54mm
P274501800	18mm	P274505500	55mm
P274501900	19mm	P274505700	57mm
P274502000	20mm	P274506000	60mm
P274502100	21mm	P274506200	62mm
P274502200	22mm	P274506500	65mm
P274502400	24mm	P274506800	68mm
P274502500	25mm	P274507000	70mm
P274502600	26mm	P274507300	73mm
P274502700	27mm	P274507600	76mm
P274502800	28mm	P274507800	78mm
P274503000	30mm	P274508000	80mm
P274503100	31mm	P274508200	82mm
P274503200	32mm	P274508300	83mm
P274503300	33mm	P274509000	90mm
P274503400	34mm	P274509500	95mm
P274503500	35mm	P274510000	100mm
P274503600	36mm	P274510500	105mm
P274503700	37mm	P274511000	110mm
P274503800	38mm	P274511500	115mm
P274504000	40mm	P274512500	125mm
P274504200	42mm	P274513000	130mm
P274504500	45mm	P274513500	135mm
P274504700	47mm	P274514000	140mm
P274504800	48mm	P274514500	145mm
P274505000	50mm	P274515000	150mm
P274505100	51mm		



PTG

Bİ-METAL PANÇ ADAPTÖRLERİ & PANÇ MATKABI

KOD	ÜRÜN	Q2
P274400201	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	11 mm
P274400202	32-210 Bİ-METAL PANÇ ADAPTÖRÜ	11 mm
P274400203	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	1/4" (6,35 mm)
P274400204	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	9,5 mm
P274400205	32-210 Bİ-METAL PANÇ ADAPTÖRÜ	9,5 mm
P274400206	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	10 mm (SDS - PLUS)
P274400207	32-210 Bİ-METAL PANÇ ADAPTÖRÜ	10 mm (SDS - PLUS)
P274400301	6.35 * 75 PANÇ ADAPTÖR MATKABI	
P274400302	6.35 * 105 PANÇ ADAPTÖR MATKABI	



KOD	ÖLÇÜ	L1	L2
VR-65390100	1.0mm	38	12
VR-65390150	1.5mm	38	12
VR-65390200	2.0mm	38	12
VR-65390250	2.5mm	43	14
VR-65390300	3.0mm	46	16
VR-65390320	3.2mm	46	16
VR-65390330	3.3mm	46	16
VR-65390350	3.5mm	52	20
VR-65390400	4.0mm	55	22
VR-65390420	4.2mm	55	22
VR-65390450	4.5mm	58	24
VR-65390500	5.0mm	62	26
VR-65390550	5.5mm	66	28
VR-65390600	6.0mm	66	28
VR-65390650	6.5mm	70	31
VR-65390700	7.0mm	74	34
VR-65390750	7.5mm	74	34
VR-65390800	8.0mm	79	37
VR-65390850	8.5mm	79	37
VR-65390900	9.0mm	84	40
VR-65390950	9.5mm	84	40
VR-65391000	10.0mm	89	43
VR-65391050	10.5mm	89	43
VR-65391100	11.0mm	95	47
VR-65391150	11.5mm	95	47
VR-65391200	12.0mm	102	51
VR-65391250	12.5mm	102	51
VR-65391300	13.0mm	102	51
VR-65391350	13.5mm	102	51
VR-65391400	14.0mm	107	54
VR-65391450	14.5mm	111	56
VR-65391500	15.0mm	111	56
VR-65391550	15.5mm	115	58
VR-65391600	16.0mm	115	58
VR-65391650	16.5mm	119	60
VR-65391700	17.0mm	119	60
VR-65391750	17.5mm	123	62
VR-65391800	18.0mm	123	62
VR-65391850	18.5mm	127	64
VR-65391900	19.0mm	127	64
VR-65391950	19.5mm	127	64
VR-65392000	20.0mm	131	66

HAVŞA FREZE DIN335 HSS-CO 90°



KOD	ÖLÇÜ	L	d
VR-33510630	6.3mm	44	6
VR-33510830	8.3mm	52	6
VR-33511040	10.4mm	52	6
VR-33511240	12.4mm	52	10
VR-33511650	16.5mm	60	10
VR-33512050	20.5mm	68	10
VR-33512500	25.0mm	84	12
VR-33512800	28.0mm	87	14
VR-33513100	31.0mm	90	16
VR-33514000	40.0mm	97	16

HAVŞA FREZE DIN335 HSS TIN 90°



KOD	ÖLÇÜ	L	d
VR-3350630T	6.3mm	44	6
VR-3350830T	8.3mm	52	6
VR-3351040T	10.4mm	52	6
VR-3351240T	12.4mm	52	10
VR-3351650T	16.5mm	60	10
VR-3352050T	20.5mm	68	10
VR-3352500T	25.0mm	84	12
VR-3353100T	31.0mm	90	16
VR-3354000T	40.0mm	97	16

HAVŞA FREZE DIN335 HSS 60°



KOD	ÖLÇÜ	L	d
VR-3350630	6.3mm	44	6
VR-3350830	8.3mm	52	6
VR-3351040	10.4mm	52	6
VR-3351240	12.4mm	52	10
VR-3351650	16.5mm	60	10
VR-3352050	20.5mm	68	10
VR-3352500	25.0mm	84	12
VR-3353100	31.0mm	90	16



VÖRKER

SABİT PİLOTLU HAVŞA FREZE
DIN373 HSS-CO

KOD	ÖLÇÜ	L	d
VR-37310300	M3	14	6
VR-37310400	M4	14	8
VR-37310500	M5	18	10
VR-37310600	M6	18	11
VR-37310800	M8	22	15
VR-37311000	M10	22	18
VR-37311200	M12	22	20



VÖRKER

DELİKLİ HAVŞA FREZE
DIN335 HSS-TICN

KOD	ÖLÇÜ
VR-3350205	2-5
VR-3350510	5-10
VR-3351015	10-15
VR-3351520	15-20
VR-3352025	20-25
VR-3352530	25-30
VR-3353035	30-35



VÖRKER

HAVŞA FREZE SETLERİ
DIN335 HSS

KOD	ÖLÇÜ
VR-33506	6.3mm, 8.3mm, 10.4mm, 12.4mm, 16.5mm, 20.5mm
VR33506T	6.3mm, 8.3mm, 10.4mm, 12.4mm, 16.5mm, 20.5mm TIN KAPLAMA



4 AĞIZ KARBÜR PARMAK FREZELER DIN846

KOD	ÖLÇÜ	L1	L2	KOD	ÖLÇÜ	L1	L2
VR-65280100	1.0mm	50	3	VR-65280900	9.0mm	75	25
VR-65280150	1.5mm	50	4	VR-65281000	10.0mm	75	25
VR-65280200	2.0mm	50	6	VR-65281200	12.0mm	75	30
VR-65280250	2.5mm	50	6	VR-65281400	14.0mm	80	35
VR-65280300	3.0mm	50	8	VR-65281600	16.0mm	100	40
VR-65280400	4.0mm	50	10	VR-65281800	18.0mm	100	40
VR-65280500	5.0mm	50	13	VR-65282000	20.0mm	100	40
VR-65280600	6.0mm	50	15	VR-65282200	22.0mm	105	40
VR-65280700	7.0mm	63	19	VR-65282400	24.0mm	105	40
VR-65280800	8.0mm	60	20	VR-65282500	25.0mm	105	40



PTG

4 AĞIZ KARBÜR PARMAK FREZELER UZUN

KOD	ÖLÇÜ	L	l	d
P84254503	3.0mm	20	58	6
P84254504	4.0mm	20	58	6
P84254505	5.0mm	25	63	6
P84254506	6.0mm	25	75	6
P84254508	8.0mm	28	75	8
P84254510	10.0mm	35	75	10
P84254512	12.0mm	45	100	12
P84254514	14.0mm	50	100	14
P84254516	16.0mm	50	100	16
P84254518	18.0mm	50	100	18
P84254520	20.0mm	60	120	20



2 AĞIZ KARBÜR PARMAK FREZELER

KOD	ÖLÇÜ	L	l	d
P84252802	2.0mm	6	50	6
P84252803	3.0mm	6	50	6
P84252804	4.0mm	8	50	6
P84252805	5.0mm	8	50	6
P84252806	6.0mm	19	63	6
P84252808	8.0mm	19	63	8
P84252810	10.0mm	22	70	10
P84252812	12.0mm	25	75	12
P84252814	14.0mm	30	88	14
P84252816	16.0mm	32	88	16
P84252818	18.0mm	36	100	18
P84252820	20.0mm	38	100	20

PARMAK FREZELER DIN844-BN HSS (M2 çelik)



KOD	ÖLÇÜ	L1	L2
VR-84410200	2.0mm	51	7
VR-84410250	2.5mm	52	8
VR-84410300	3.0mm	52	8
VR-84410400	4.0mm	55	11
VR-84410500	5.0mm	57	13
VR-84410600	6.0mm	57	13
VR-84410700	7.0mm	66	16
VR-84410800	8.0mm	69	19
VR-84410900	9.0mm	69	19
VR-84411000	10.0mm	72	22
VR-84411100	11.0mm	79	22
VR-84411200	12.0mm	83	26
VR-84411300	13.0mm	83	26
VR-84411400	14.0mm	83	26
VR-84411500	15.0mm	83	26
VR-84411600	16.0mm	92	32
VR-84411700	17.0mm	92	32
VR-84411800	18.0mm	92	38
VR-84411900	19.0mm	104	38
VR-84412000	20.0mm	104	38
VR-84412100	21.0mm	104	38
VR-84412200	22.0mm	104	38
VR-84412300	23.0mm	121	38
VR-84412400	24.0mm	121	45
VR-84412500	25.0mm	121	45
VR-84412600	26.0mm	121	45
VR-84412700	27.0mm	121	45
VR-84412800	28.0mm	121	45
VR-84412900	29.0mm	121	45
VR-84413000	30.0mm	121	45
VR-84413100	31.0mm	133	53
VR-84413200	32.0mm	133	53
VR-84413300	33.0mm	133	53
VR-84413400	34.0mm	133	53
VR-84413500	35.0mm	133	53
VR-84413600	36.0mm	133	53
VR-84413800	38.0mm	133	53
VR-84414000	40.0mm	133	53



VÖRKER

PARMAK FREZELER DIN844-BN HSS (M2 çelik) UZUN

KOD	ÖLÇÜ	L1	L2
VR-84420200	2.0mm	54	10
VR-84420250	2.5mm	56	12
VR-84420300	3.0mm	56	12
VR-84420400	4.0mm	63	19
VR-84420500	5.0mm	68	24
VR-84420600	6.0mm	68	24
VR-84420700	7.0mm	80	30
VR-84420800	8.0mm	88	38
VR-84420900	9.0mm	88	38
VR-84421000	10.0mm	95	45
VR-84421200	12.0mm	110	53
VR-84421300	13.0mm	110	53
VR-84421400	14.0mm	110	53
VR-84421500	15.0mm	110	53
VR-84421600	16.0mm	123	63
VR-84421700	17.0mm	123	63
VR-84421800	18.0mm	123	63
VR-84421900	19.0mm	123	63
VR-84422000	20.0mm	141	75
VR-84422200	22.0mm	141	75
VR-84422400	24.0mm	166	90
VR-84422500	25.0mm	166	90
VR-84422800	28.0mm	166	90
VR-84423000	30.0mm	166	90
VR-84423200	32.0mm	186	106
VR-84423400	34.0mm	186	106
VR-84423600	36.0mm	186	106
VR-84424000	40.0mm	217	125



VÖRKER

TEK AĞIZ ALÜMİNYUM FREZE HSS

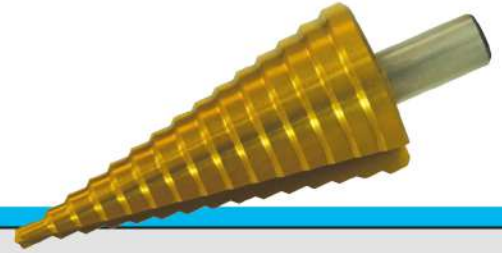
KOD	ÖLÇÜ	d	L1	L2
VR-8460400	4.0mm	8	60	12
VR-8460401	4.0mm	8	100	23
VR-8460500	5.0mm	8	60	14
VR-8460501	5.0mm	8	80	23
VR-8460600	6.0mm	8	60	14
VR-8460601	6.0mm	8	100	25
VR-8460800	8.0mm	8	80	14
VR-8460801	8.0mm	8	120	25
VR-8461000	10.0mm	10	120	25

KADEMELİ SAC DELME MATKABI HSS (M2 çelik)



KOD	ÖLÇÜ
VR-13412D	4 X 12
VR-13420D	4 X 20
VR-13432D	4 X 32
VR-13439D	4 X 39

KADEMELİ SAC DELME MATKABI HSS - TIN(M2 çelik)



KOD	ÖLÇÜ
VR-14412T	4 X 12
VR-14420T	4 X 20
VR-14432T	4 X 32
VR-14439T	4 X 39
VR-13460D	6 X 50

KADEMELİ SAC DELME MATKABI HELİS (M2 çelik)

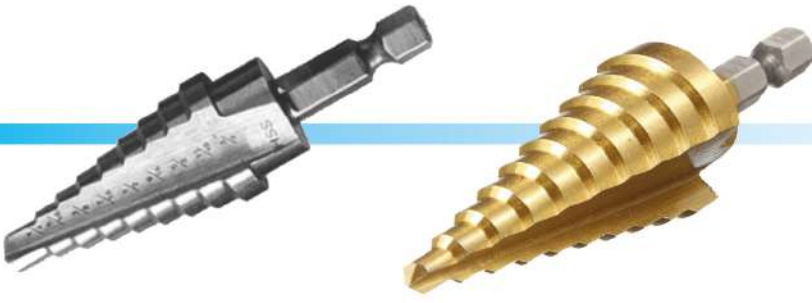


KOD	ÖLÇÜ
VR-10412S	4 X 12
VR-10420S	4 X 20
VR-10432S	4 X 32
VR-10439S	4 X 39

KADEMELİ SAC DELME MATKABI HELİS - TIN (M2 çelik)



KOD	ÖLÇÜ
VR-11412T	4 X 12
VR-11420T	4 X 20
VR-11432T	4 X 32
VR-11439T	4 X 39



VÖRKER

KADEMELİ SAC DELME MATKABI 1/4" BİTS (M2 çelik)

KOD	ÖLÇÜ
VR-16412B	4 X 12
VR-16420B	4 X 20
VR-16432B	4 X 32
VR-17412T	4 X 12 TIN KAPLI
VR-17420T	4 X 20 TIN KAPLI
VR-17432T	4 X 32 TIN KAPLI



KADEMELİ SAC DELME MATKABI HSS - KONİK (M2 çelik)

KOD	ÖLÇÜ
VR-18314D	3 X 14
VR-18315D	8 X 20
VR-18316D	16 X 30,5
VR-18317D	24 X 40
VR-18318D	36 X 50
VR-18319D	40 X 61



KADEMELİ SAC DELME SETLER

KOD	ÖLÇÜ	ÖZELLİK
VR-10412D	4 X 12 - 4 X 20 - 4 X 32	HSS
VR-10413D	4 X 12 - 4 X 20 - 4 X 32	HSS - TIN
VR-10415S	4 X 12 - 4 X 20 - 4 X 32	HELİS
VR-10420T	4 X 12 - 4 X 20 - 4 X 32	HELİS - TIN

VÖRKER

