



# **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

# PTG

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

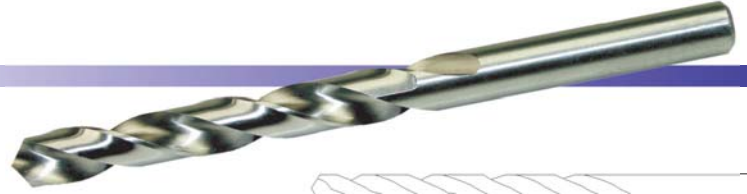


  
head of certification body  
Prof. Dr. Peter Hampe

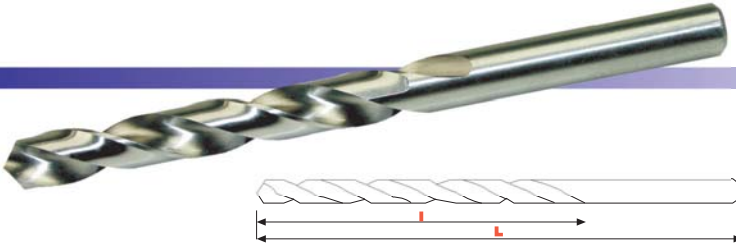
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## SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS TAŞLANMIŞ



KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P333810040	0.4mm	20	5	1.10 €	P333810550	5.5mm	93	57	0.80 €
P333810050	0.5mm	22	6	1.00 €	P333810560	5.6mm	93	57	0.90 €
P333810060	0.6mm	24	7	1.00 €	P333810570	5.7mm	93	57	0.90 €
P333810070	0.7mm	28	9	1.00 €	P333810580	5.8mm	93	57	0.90 €
P333810080	0.8mm	30	10	1.00 €	P333810590	5.9mm	93	57	0.90 €
P333810090	0.9mm	32	11	1.00 €	P333810600	6.0mm	93	57	0.90 €
P333810100	1.0mm	34	12	0.40 €	P333810610	6.1mm	101	63	1.10 €
P333810110	1.1mm	36	14	0.45 €	P333810620	6.2mm	101	63	1.10 €
P333810120	1.2mm	38	16	0.45 €	P333810630	6.3mm	101	63	1.10 €
P333810130	1.3mm	38	16	0.45 €	P333810640	6.4mm	101	63	1.10 €
P333810140	1.4mm	40	18	0.45 €	P333810650	6.5mm	101	63	1.10 €
P333810150	1.5mm	40	18	0.35 €	P333810660	6.6mm	101	63	1.30 €
P333810160	1.6mm	43	20	0.60 €	P333810670	6.7mm	101	63	1.30 €
P333810170	1.7mm	43	20	0.60 €	P333810680	6.8mm	109	69	1.30 €
P333810180	1.8mm	46	22	0.60 €	P333810690	6.9mm	109	69	1.30 €
P333810190	1.9mm	46	22	0.60 €	P333810700	7.0mm	109	69	1.40 €
P333810200	2.0mm	49	24	0.30 €	P333810710	7.1mm	109	69	1.45 €
P333810210	2.1mm	49	24	0.40 €	P333810720	7.2mm	109	69	1.45 €
P333810220	2.2mm	53	27	0.40 €	P333810730	7.3mm	109	69	1.45 €
P333810230	2.3mm	53	27	0.40 €	P333810740	7.4mm	109	69	1.45 €
P333810240	2.4mm	57	30	0.40 €	P333810750	7.5mm	109	69	1.50 €
P333810250	2.5mm	57	30	0.35 €	P333810760	7.6mm	117	75	1.75 €
P333810260	2.6mm	57	30	0.45 €	P333810770	7.7mm	117	75	1.75 €
P333810270	2.7mm	61	33	0.45 €	P333810780	7.8mm	117	75	1.75 €
P333810280	2.8mm	61	33	0.45 €	P333810790	7.9mm	117	75	1.75 €
P333810290	2.9mm	61	33	0.45 €	P333810800	8.0mm	117	75	1.75 €
P333810300	3.0mm	61	33	0.40 €	P333810810	8.1mm	117	75	2.00 €
P333810310	3.1mm	65	36	0.50 €	P333810820	8.2mm	117	75	2.00 €
P333810320	3.2mm	65	36	0.50 €	P333810830	8.3mm	117	75	2.00 €
P333810330	3.3mm	65	36	0.50 €	P333810840	8.4mm	117	75	2.00 €
P333810340	3.4mm	70	39	0.50 €	P333810850	8.5mm	117	75	1.95 €
P333810350	3.5mm	70	39	0.45 €	P333810860	8.6mm	125	81	2.55 €
P333810360	3.6mm	70	39	0.60 €	P333810870	8.7mm	125	81	2.55 €
P333810370	3.7mm	70	39	0.60 €	P333810880	8.8mm	125	81	2.55 €
P333810380	3.8mm	75	43	0.60 €	P333810890	8.9mm	125	81	2.55 €
P333810390	3.9mm	75	43	0.60 €	P333810900	9.0mm	125	81	2.30 €
P333810400	4.0mm	75	43	0.55 €	P333810910	9.1mm	125	81	2.85 €
P333810410	4.1mm	75	43	0.65 €	P333810920	9.2mm	125	81	2.85 €
P333810420	4.2mm	75	43	0.65 €	P333810930	9.3mm	125	81	2.85 €
P333810430	4.3mm	80	47	0.65 €	P333810940	9.4mm	125	81	2.85 €
P333810440	4.4mm	80	47	0.65 €	P333810950	9.5mm	125	81	2.55 €
P333810450	4.5mm	80	47	0.65 €	P333810960	9.6mm	133	87	3.30 €
P333810460	4.6mm	80	47	0.80 €	P333810970	9.7mm	133	87	3.30 €
P333810470	4.7mm	80	47	0.80 €	P333810980	9.8mm	133	87	3.30 €
P333810480	4.8mm	86	52	0.80 €	P333810990	9.9mm	133	87	3.30 €
P333810490	4.9mm	86	52	0.80 €	P333811000	10.0mm	133	87	3.05 €
P333810500	5.0mm	86	52	0.70 €	P333811010	10.1mm	133	87	3.60 €
P333810510	5.1mm	86	52	0.85 €	P333811020	10.2mm	133	87	3.60 €
P333810520	5.2mm	86	52	0.85 €	P333811030	10.3mm	133	87	3.60 €
P333810530	5.3mm	86	52	0.85 €	P333811040	10.4mm	133	87	3.60 €
P333810540	5.4mm	93	57	0.85 €	P333811050	10.5mm	133	87	3.30 €



# PTG

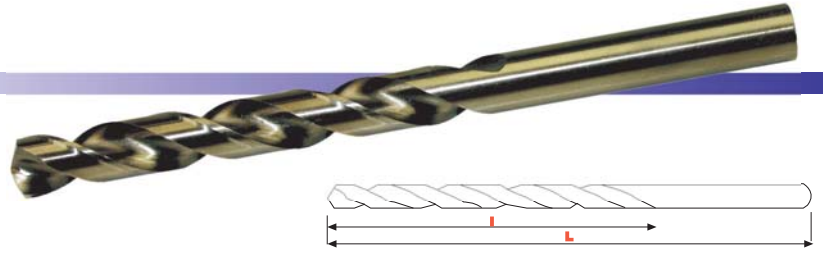
## SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS TAŞLANMIŞ

KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P333811060	10.6mm	133	87	4.95 €	P333811430	14.3mm	169	114	14.30 €
P333811070	10.7mm	142	94	4.95 €	P333811440	14.4mm	169	114	14.30 €
P333811080	10.8mm	142	94	4.95 €	P333811450	14.5mm	169	114	8.80 €
P333811090	10.9mm	142	94	4.95 €	P333811460	14.6mm	169	114	15.40 €
P333811100	11.0mm	142	94	3.85 €	P333811470	14.7mm	169	114	15.40 €
P333811110	11.1mm	142	94	5.50 €	P333811480	14.8mm	169	114	15.40 €
P333811120	11.2mm	142	94	5.50 €	P333811490	14.9mm	169	114	15.40 €
P333811130	11.3mm	142	94	5.50 €	P333811500	15.0mm	169	114	9.90 €
P333811140	11.4mm	142	94	5.50 €	P333811510	15.1mm	178	120	16.50 €
P333811150	11.5mm	142	94	4.50 €	P333811520	15.2mm	178	120	16.50 €
P333811160	11.6mm	142	94	6.05 €	P333811530	15.3mm	178	120	16.50 €
P333811170	11.7mm	142	94	6.05 €	P333811540	15.4mm	178	120	16.50 €
P333811180	11.8mm	142	94	6.05 €	P333811550	15.5mm	178	120	11.00 €
P333811190	11.9mm	151	101	6.05 €	P333811560	15.6mm	178	120	18.70 €
P333811200	12.0mm	151	101	4.95 €	P333811570	15.7mm	178	120	18.70 €
P333811210	12.1mm	151	101	7.15 €	P333811580	15.8mm	178	120	18.70 €
P333811220	12.2mm	151	101	7.15 €	P333811590	15.9mm	178	120	18.70 €
P333811230	12.3mm	151	101	7.15 €	P333811600	16.0mm	178	120	12.10 €
P333811240	12.4mm	151	101	7.15 €	P333811650	16.5mm	184	125	12.65 €
P333811250	12.5mm	151	101	5.50 €	P333811700	17.0mm	184	125	13.20 €
P333811260	12.6mm	151	101	7.70 €	P333811750	17.5mm	191	130	13.75 €
P333811270	12.7mm	151	101	7.70 €	P333811800	18.0mm	191	130	14.30 €
P333811280	12.8mm	151	101	7.70 €	P333811850	18.5mm	198	135	14.85 €
P333811290	12.9mm	151	101	7.70 €	P333811900	19.0mm	198	135	15.40 €
P333811300	13.0mm	151	101	6.05 €	P333811950	19.5mm	205	140	16.50 €
P333811310	13.1mm	151	101	8.80 €	P333812000	20.0mm	205	140	17.50 €
P333811320	13.2mm	151	101	8.80 €	P333812050	20.5mm	213	145	20.00 €
P333811330	13.3mm	160	108	8.80 €	P333812100	21.0mm	213	145	22.00 €
P333811340	13.4mm	160	108	8.80 €	P333812150	21.5mm	221	150	24.50 €
P333811350	13.5mm	160	108	6.60 €	P333812200	22.0mm	221	150	27.50 €
P333811360	13.6mm	160	108	11.00 €	P333812250	22.5mm	229	155	28.50 €
P333811370	13.7mm	160	108	11.00 €	P333812300	23.0mm	229	155	32.00 €
P333811380	13.8mm	160	108	11.00 €	P333812350	23.5mm	229	155	33.00 €
P333811390	13.9mm	160	108	11.00 €	P333812400	24.0mm	236	160	34.00 €
P333811400	14.0mm	160	108	7.70 €	P333812450	24.5mm	236	160	36.50 €
P333811410	14.1mm	169	114	14.30 €	P333812500	25.0mm	236	160	38.50 €
P333811420	14.2mm	169	114	14.30 €					

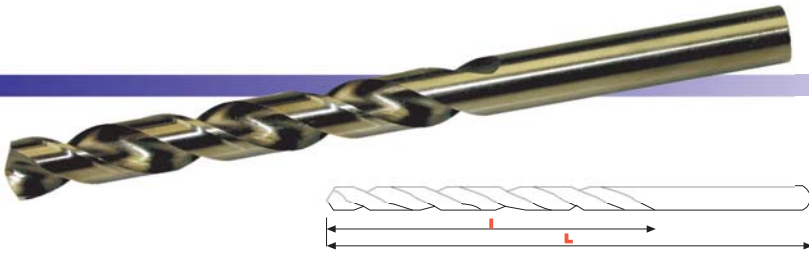


## MATKAP UÇ SETLERİ (PLASTİK KUTULU)

KOD	ÖLÇÜ	ÖZELLİK	FİYAT
P333847519	1 - 10mm (19 PARÇA)	HSS	27.50 €
P333847525	1 - 13mm (25 PARÇA)	HSS	49.50 €
P333859519	1 - 10mm (19 PARÇA)	HSS-CO	57.50 €
P333857025	1 - 13mm (25 PARÇA)	HSS-CO	86.00 €



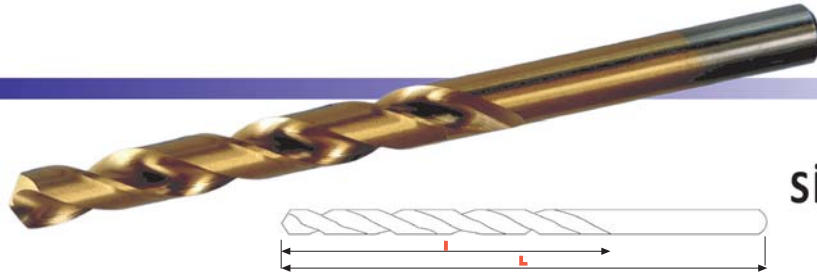
KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P333850100	1.0mm	34	12	0.80 €	P333850610	6.1mm	101	63	3.80 €
P333850110	1.1mm	36	14	0.80 €	P333850620	6.2mm	101	63	3.80 €
P333850120	1.2mm	38	16	0.80 €	P333850630	6.3mm	101	63	3.80 €
P333850130	1.3mm	38	16	0.80 €	P333850640	6.4mm	101	63	3.80 €
P333850140	1.4mm	40	18	0.80 €	P333850650	6.5mm	101	63	3.00 €
P333850150	1.5mm	40	18	0.80 €	P333850660	6.6mm	101	63	4.15 €
P333850160	1.6mm	43	20	0.90 €	P333850670	6.7mm	101	63	4.15 €
P333850170	1.7mm	43	20	0.90 €	P333850680	6.8mm	109	69	4.15 €
P333850180	1.8mm	46	22	0.90 €	P333850690	6.9mm	109	69	4.15 €
P333850190	1.9mm	46	22	0.90 €	P333850700	7.0mm	109	69	3.80 €
P333850200	2.0mm	49	24	0.80 €	P333850710	7.1mm	109	69	5.05 €
P333850210	2.1mm	49	24	1.05 €	P333850720	7.2mm	109	69	5.05 €
P333850220	2.2mm	53	27	1.05 €	P333850730	7.3mm	109	69	5.05 €
P333850230	2.3mm	53	27	1.05 €	P333850740	7.4mm	109	69	5.05 €
P333850240	2.4mm	57	30	1.05 €	P333850750	7.5mm	109	69	4.15 €
P333850250	2.5mm	57	30	0.80 €	P333850760	7.6mm	117	75	5.75 €
P333850260	2.6mm	57	30	1.30 €	P333850770	7.7mm	117	75	5.75 €
P333850270	2.7mm	61	33	1.30 €	P333850780	7.8mm	117	75	5.75 €
P333850280	2.8mm	61	33	1.30 €	P333850790	7.9mm	117	75	5.75 €
P333850290	2.9mm	61	33	1.30 €	P333850800	8.0mm	117	75	5.05 €
P333850300	3.0mm	61	33	0.90 €	P333850810	8.1mm	117	75	6.35 €
P333850310	3.1mm	65	36	1.30 €	P333850820	8.2mm	117	75	6.35 €
P333850320	3.2mm	65	36	1.30 €	P333850830	8.3mm	117	75	6.35 €
P333850330	3.3mm	65	36	1.30 €	P333850840	8.4mm	117	75	6.35 €
P333850340	3.4mm	70	39	1.30 €	P333850850	8.5mm	117	75	5.40 €
P333850350	3.5mm	70	39	1.15 €	P333850860	8.6mm	125	81	7.60 €
P333850360	3.6mm	70	39	1.60 €	P333850870	8.7mm	125	81	7.60 €
P333850370	3.7mm	70	39	1.60 €	P333850880	8.8mm	125	81	7.60 €
P333850380	3.8mm	75	43	1.60 €	P333850890	8.9mm	125	81	7.60 €
P333850390	3.9mm	75	43	1.60 €	P333850900	9.0mm	125	81	6.35 €
P333850400	4.0mm	75	43	1.30 €	P333850910	9.1mm	125	81	8.30 €
P333850410	4.1mm	75	43	1.75 €	P333850920	9.2mm	125	81	8.30 €
P333850420	4.2mm	75	43	1.75 €	P333850930	9.3mm	125	81	8.30 €
P333850430	4.3mm	80	47	1.75 €	P333850940	9.4mm	125	81	8.30 €
P333850440	4.4mm	80	47	1.75 €	P333850950	9.5mm	125	81	7.00 €
P333850450	4.5mm	80	47	1.60 €	P333850960	9.6mm	133	87	9.55 €
P333850460	4.6mm	80	47	2.00 €	P333850970	9.7mm	133	87	9.55 €
P333850470	4.7mm	80	47	2.00 €	P333850980	9.8mm	133	87	9.55 €
P333850480	4.8mm	86	52	2.00 €	P333850990	9.9mm	133	87	9.55 €
P333850490	4.9mm	86	52	2.00 €	P333851000	10.0mm	133	87	8.65 €
P333850500	5.0mm	86	52	1.85 €	P333851020	10.2mm	133	87	10.15 €
P333850510	5.1mm	86	52	2.55 €	P333851050	10.5mm	133	87	8.90 €
P333850520	5.2mm	86	52	2.55 €	P333851100	11.0mm	142	94	10.15 €
P333850530	5.3mm	86	52	2.55 €	P333851150	11.5mm	142	94	11.40 €
P333850540	5.4mm	93	57	2.55 €	P333851200	12.0mm	151	101	12.65 €
P333850550	5.5mm	93	57	2.20 €	P333851250	12.5mm	151	101	14.00 €
P333850560	5.6mm	93	57	2.90 €	P333851300	13.0mm	151	101	15.00 €
P333850570	5.7mm	93	57	2.90 €	P333851350	13.5mm	160	108	23.00 €
P333850580	5.8mm	93	57	2.90 €	P333851400	14.0mm	160	108	24.00 €
P333850590	5.9mm	93	57	2.90 €	P333851450	14.5mm	169	114	27.50 €
P333850600	6.0mm	93	57	2.55 €	P333851500	15.0mm	169	114	29.00 €



# PTG

ALTIN SERİ MATKAP UÇLARI  
DIN338 HSS-CO

KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P333851550	15.5mm	178	120	31.50 €	P333851800	18.0mm	191	130	43.00 €
P333851600	16.0mm	178	120	34.15 €	P333851850	18.5mm	198	135	45.50 €
P333851650	16.5mm	184	125	36.70 €	P333851900	19.0mm	198	135	48.00 €
P333851700	17.0mm	184	125	38.00 €	P333851950	19.5mm	205	140	52.00 €
P333851750	17.5mm	191	130	40.50 €	P333852000	20.0mm	205	140	54.50 €



# PTG

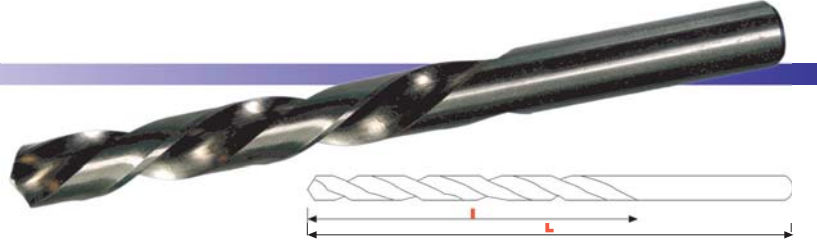
SİLİNDİRİK SAPLI MATKAP UÇLARI  
DIN338 HSS TIN KAPLI

KOD	ÖLÇÜ	L1	L2	FİYAT
P233880100	1.0mm	34	12	0.22 €
P233880150	1.5mm	40	18	0.30 €
P233880200	2.0mm	49	24	0.35 €
P233880250	2.5mm	57	30	0.40 €
P233880300	3.0mm	61	33	0.60 €
P233880320	3.2mm	65	36	0.65 €
P233880330	3.3mm	65	36	0.75 €
P233880350	3.5mm	70	39	0.75 €
P233880400	4.0mm	75	43	0.80 €
P233880420	4.2mm	75	43	0.90 €
P233880450	4.5mm	80	47	0.95 €
P233880500	5.0mm	86	52	1.10 €
P233880520	5.2mm	86	52	1.40 €
P233880550	5.5mm	93	57	1.50 €
P233880600	6.0mm	93	57	1.65 €
P233880650	6.5mm	101	63	1.95 €
P233880680	6.8mm	109	69	2.20 €
P233880700	7.0mm	109	69	2.50 €
P233880750	7.5mm	109	69	2.75 €
P233880800	8.0mm	117	75	3.40 €
P233880850	8.5mm	117	75	3.85 €
P233880900	9.0mm	125	81	4.40 €
P233880950	9.5mm	125	81	4.95 €
P233881000	10.0mm	133	87	5.50 €
P233881050	10.5mm	133	87	6.05 €
P233881100	11.0mm	142	94	7.15 €
P233881150	11.5mm	142	94	7.70 €
P233881200	12.0mm	151	101	8.80 €
P233881250	12.5mm	151	101	9.90 €
P233881300	13.0mm	151	101	11.00 €



# PTG

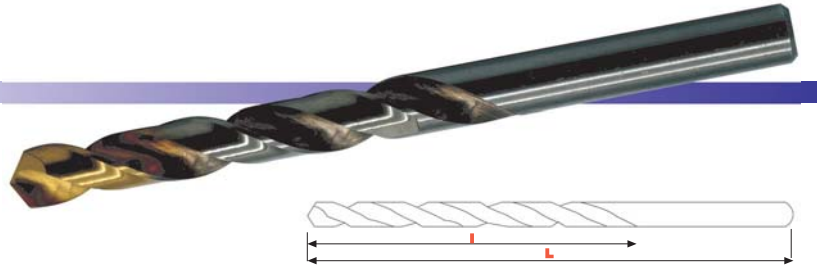
## SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS-SOL TAŞLANMIŞ



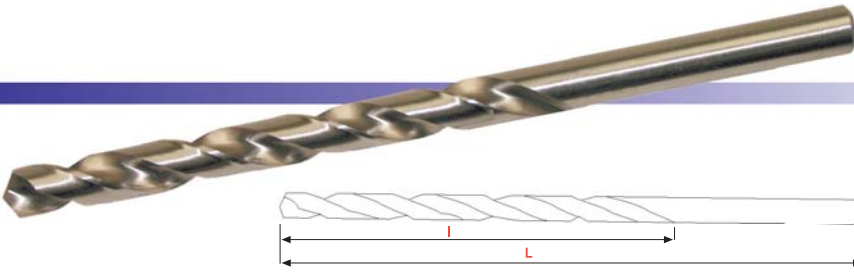
KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P243380100	1.0mm	34	12	0.60 €	P243380750	7.5mm	109	69	4.25 €
P243380150	1.5mm	40	18	0.60 €	P243380800	8.0mm	117	75	4.85 €
P243380200	2.0mm	49	24	0.85 €	P243380850	8.5mm	117	75	6.05 €
P243380250	2.5mm	57	30	0.90 €	P243380900	9.0mm	125	81	6.70 €
P243380300	3.0mm	61	33	0.95 €	P243380950	9.5mm	125	81	7.25 €
P243380350	3.5mm	70	39	1.05 €	P243381000	10.0mm	133	87	8.50 €
P243380400	4.0mm	75	43	1.20 €	P243381050	10.5mm	133	87	9.10 €
P243380450	4.5mm	80	47	1.55 €	P243381100	11.0mm	142	94	9.70 €
P243380500	5.0mm	86	52	1.85 €	P243381150	11.5mm	142	94	10.90 €
P243380550	5.5mm	93	57	2.15 €	P243381200	12.0mm	151	101	11.55 €
P243380600	6.0mm	93	57	3.05 €	P243381250	12.5mm	151	101	13.30 €
P243380650	6.5mm	101	63	3.65 €	P243381300	13.0mm	151	101	13.90 €
P243380700	7.0mm	109	69	3.95 €					

# PTG

## SİLİNDİRİK SAPLI MATKAP UÇLARI DIN338 HSS %25 TIN UÇLU



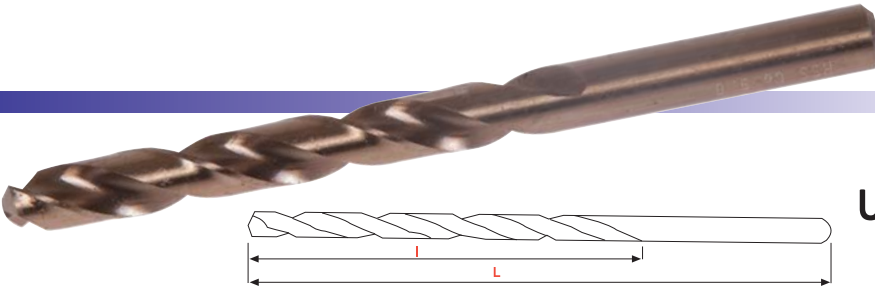
KOD	ÖLÇÜ	L1	L2	FİYAT	KOD	ÖLÇÜ	L1	L2	FİYAT
P433890100	1.0mm	34	12	0.35 €	P433890800	8.0mm	117	75	4.15 €
P433890150	1.5mm	40	18	0.40 €	P433890850	8.5mm	117	75	4.75 €
P433890200	2.0mm	49	24	0.45 €	P433890900	9.0mm	125	81	5.50 €
P433890250	2.5mm	57	30	0.55 €	P433890950	9.5mm	125	81	6.00 €
P433890300	3.0mm	61	33	0.75 €	P433891000	10.0mm	133	87	7.00 €
P433890320	3.2mm	65	36	0.80 €	P433891020	10.2mm	133	87	7.00 €
P433890330	3.3mm	65	36	0.80 €	P433891050	10.5mm	133	87	7.50 €
P433890350	3.5mm	70	39	0.80 €	P433891100	11.0mm	142	94	8.50 €
P433890400	4.0mm	75	43	1.00 €	P433891150	11.5mm	142	94	9.00 €
P433890420	4.2mm	75	43	1.20 €	P433891200	12.0mm	151	101	11.00 €
P433890450	4.5mm	80	47	1.20 €	P433891250	12.5mm	151	101	11.50 €
P433890500	5.0mm	86	52	1.55 €	P433891300	13.0mm	151	101	12.50 €
P433890520	5.2mm	86	52	1.60 €	P433891350	13.5mm	160	108	24.00 €
P433890550	5.5mm	93	57	1.90 €	P433891400	14.0mm	160	108	25.00 €
P433890600	6.0mm	93	57	2.20 €	P433891450	14.5mm	169	114	27.00 €
P433890650	6.5mm	101	63	2.75 €	P433891500	15.0mm	169	114	28.00 €
P433890680	6.8mm	109	69	3.15 €	P433891550	15.5mm	178	120	30.00 €
P433890700	7.0mm	109	69	3.15 €	P433891600	16.0mm	178	120	32.00 €
P433890750	7.5mm	109	69	3.35 €					



# PTG

## UZUN SERİ MATKAP UÇLARI DIN340 HSS TAŞLANMIŞ

KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P334020100	1.0mm	56	33	0.60 €	P334021000	10.0mm	184	121	8.20 €
P334020150	1.5mm	70	45	0.60 €	P334021050	10.5mm	184	121	8.70 €
P334020200	2.0mm	85	56	0.85 €	P334021100	11.0mm	195	128	9.60 €
P334020250	2.5mm	95	62	0.85 €	P334021150	11.5mm	195	128	10.90 €
P334020300	3.0mm	100	66	0.90 €	P334021200	12.0mm	205	134	11.25 €
P334020320	3.2mm	106	69	1.05 €	P334021250	12.5mm	205	134	12.70 €
P334020330	3.3mm	106	69	1.05 €	P334021300	13.0mm	205	134	13.30 €
P334020350	3.5mm	112	73	1.05 €	P334021350	13.5mm	214	140	18.15 €
P334020400	4.0mm	119	78	1.15 €	P334021400	14.0mm	214	140	19.50 €
P334020420	4.2mm	119	78	1.60 €	P334021450	14.5mm	220	144	20.00 €
P334020450	4.5mm	126	82	1.55 €	P334021500	15.0mm	220	144	20.50 €
P334020500	5.0mm	132	87	1.75 €	P334021550	15.5mm	227	149	22.00 €
P334020520	5.2mm	134	90	2.25 €	P334021600	16.0mm	227	149	23.00 €
P334020550	5.5mm	139	91	2.15 €	P334021650	16.5mm	235	154	26.00 €
P334020600	6.0mm	139	91	3.05 €	P334021700	17.0mm	235	154	28.00 €
P334020650	6.5mm	148	97	3.65 €	P334021750	17.5mm	241	158	29.50 €
P334020700	7.0mm	156	102	3.95 €	P334021800	18.0mm	241	158	31.00 €
P334020750	7.5mm	156	102	4.25 €	P334021850	18.5mm	247	162	34.00 €
P334020800	8.0mm	165	109	4.85 €	P334021900	19.0mm	247	162	35.00 €
P334020850	8.5mm	165	109	5.90 €	P334021950	19.5mm	254	166	37.00 €
P334020900	9.0mm	175	115	6.40 €	P334022000	20.0mm	254	166	40.00 €
P334020950	9.5mm	175	115	7.00 €					

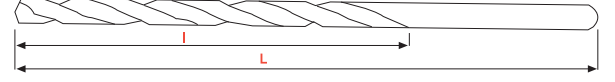
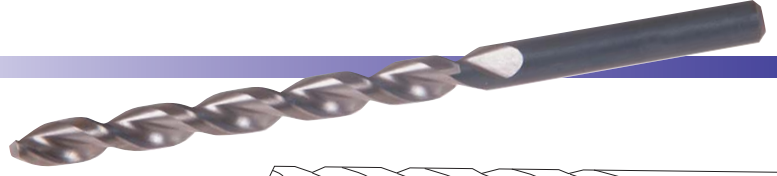


# PTG

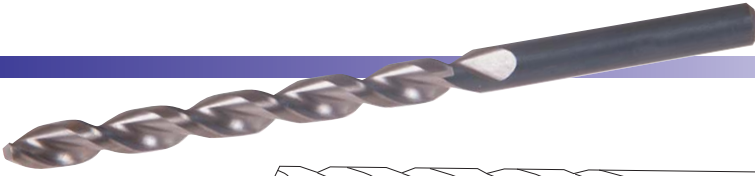
## UZUN SERİ MATKAP UÇLARI DIN340 HSS-CO TAŞLANMIŞ

KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P334050080	0.8mm	56	33	2.00 €	P334050600	6.0mm	139	91	3.95 €
P334050100	1.0mm	56	33	1.65 €	P334050650	6.5mm	148	97	4.80 €
P334050150	1.5mm	70	45	1.70 €	P334050700	7.0mm	156	102	5.80 €
P334050200	2.0mm	85	56	1.75 €	P334050750	7.5mm	156	102	6.95 €
P334050250	2.5mm	95	62	1.80 €	P334050800	8.0mm	165	109	7.50 €
P334050300	3.0mm	100	66	1.85 €	P334050850	8.5mm	165	109	8.50 €
P334050320	3.2mm	106	69	1.90 €	P334050900	9.0mm	175	115	10.55 €
P334050330	3.3mm	106	69	2.00 €	P334050950	9.5mm	175	115	11.90 €
P334050350	3.5mm	112	73	1.85 €	P334051000	10.0mm	184	121	13.20 €
P334050400	4.0mm	119	78	1.90 €	P334051050	10.5mm	184	121	13.85 €
P334050420	4.2mm	119	78	2.35 €	P334051100	11.0mm	195	128	16.50 €
P334050450	4.5mm	126	82	2.35 €	P334051150	11.5mm	195	128	17.15 €
P334050500	5.0mm	132	87	3.30 €	P334051200	12.0mm	205	134	20.00 €
P334050520	5.2mm	134	90	3.60 €	P334051250	12.5mm	205	134	21.00 €
P334050550	5.5mm	139	91	3.80 €	P334051300	13.0mm	205	134	24.00 €

## UZUN SERİ MATKAP UÇLARI DIN340 HSS GT100



KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P334030050	0.5mm	49	28	3.45 €	P334030570	5.7mm	139	91	5.60 €
P334030060	0.6mm	50	29	3.45 €	P334030580	5.8mm	139	91	5.60 €
P334030070	0.7mm	51	30	3.45 €	P334030590	5.9mm	139	91	5.60 €
P334030080	0.8mm	52	31	3.45 €	P334030600	6.0mm	139	91	4.20 €
P334030090	0.9mm	54	32	3.45 €	P334030610	6.1mm	148	97	6.05 €
P334030100	1.0mm	56	33	3.45 €	P334030620	6.2mm	148	97	6.05 €
P334030110	1.1mm	60	37	3.45 €	P334030630	6.3mm	148	97	6.05 €
P334030120	1.2mm	65	41	3.45 €	P334030640	6.4mm	148	97	6.05 €
P334030130	1.3mm	65	41	3.45 €	P334030650	6.5mm	148	97	4.90 €
P334030140	1.4mm	70	45	3.45 €	P334030660	6.6mm	148	97	6.70 €
P334030150	1.5mm	70	45	1.90 €	P334030670	6.7mm	148	97	6.70 €
P334030160	1.6mm	76	50	3.45 €	P334030680	6.8mm	156	102	6.70 €
P334030170	1.7mm	76	50	3.45 €	P334030690	6.9mm	156	102	6.70 €
P334030180	1.8mm	80	53	3.45 €	P334030700	7.0mm	156	102	5.60 €
P334030190	1.9mm	80	53	3.45 €	P334030710	7.1mm	156	102	7.70 €
P334030200	2.0mm	85	56	1.95 €	P334030720	7.2mm	156	102	7.70 €
P334030210	2.1mm	85	56	2.60 €	P334030730	7.3mm	156	102	7.70 €
P334030220	2.2mm	90	59	2.60 €	P334030740	7.4mm	156	102	7.70 €
P334030230	2.3mm	90	59	2.60 €	P334030750	7.5mm	156	102	6.25 €
P334030240	2.4mm	95	62	2.60 €	P334030760	7.6mm	165	109	9.75 €
P334030250	2.5mm	95	62	1.95 €	P334030770	7.7mm	165	109	9.75 €
P334030260	2.6mm	95	62	2.75 €	P334030780	7.8mm	165	109	9.75 €
P334030270	2.7mm	100	66	2.75 €	P334030790	7.9mm	165	109	9.75 €
P334030280	2.8mm	100	66	2.75 €	P334030800	8.0mm	165	109	8.35 €
P334030290	2.9mm	100	66	2.75 €	P334030810	8.1mm	165	109	11.50 €
P334030300	3.0mm	100	66	2.05 €	P334030820	8.2mm	165	109	11.50 €
P334030310	3.1mm	106	69	3.50 €	P334030830	8.3mm	165	109	11.50 €
P334030320	3.2mm	106	69	3.50 €	P334030840	8.4mm	165	109	11.50 €
P334030330	3.3mm	106	69	3.50 €	P334030850	8.5mm	165	109	9.75 €
P334030340	3.4mm	112	73	3.50 €	P334030860	8.6mm	175	115	13.90 €
P334030350	3.5mm	112	73	2.55 €	P334030870	8.7mm	175	115	13.90 €
P334030360	3.6mm	112	73	3.70 €	P334030880	8.8mm	175	115	13.90 €
P334030370	3.7mm	112	73	3.70 €	P334030890	8.9mm	175	115	13.90 €
P334030380	3.8mm	119	78	3.70 €	P334030900	9.0mm	175	115	11.15 €
P334030390	3.9mm	119	78	3.70 €	P334030910	9.1mm	175	115	15.30 €
P334030400	4.0mm	119	78	2.75 €	P334030920	9.2mm	175	115	15.30 €
P334030410	4.1mm	119	78	4.20 €	P334030930	9.3mm	175	115	15.30 €
P334030420	4.2mm	119	78	4.20 €	P334030940	9.4mm	175	115	15.30 €
P334030430	4.3mm	126	82	4.20 €	P334030950	9.5mm	175	115	12.50 €
P334030440	4.4mm	126	82	4.20 €	P334030960	9.6mm	184	121	16.70 €
P334030450	4.5mm	126	82	3.10 €	P334030970	9.7mm	184	121	16.70 €
P334030460	4.6mm	126	82	4.90 €	P334030980	9.8mm	184	121	16.70 €
P334030470	4.7mm	126	82	4.90 €	P334030990	9.9mm	184	121	16.70 €
P334030480	4.8mm	132	87	4.90 €	P334031000	10.0mm	184	121	13.90 €
P334030490	4.9mm	132	87	4.90 €	P334031010	10.1mm	184	121	18.10 €
P334030500	5.0mm	132	87	3.50 €	P334031020	10.2mm	184	121	18.10 €
P334030510	5.1mm	132	87	5.30 €	P334031030	10.3mm	184	121	18.10 €
P334030520	5.2mm	132	87	5.30 €	P334031040	10.4mm	184	121	18.10 €
P334030530	5.3mm	132	87	5.30 €	P334031050	10.5mm	184	121	14.60 €
P334030540	5.4mm	139	91	5.30 €	P334031060	10.6mm	184	121	19.50 €
P334030550	5.5mm	139	91	3.80 €	P334031070	10.7mm	195	128	19.50 €
P334030560	5.6mm	139	91	5.60 €	P334031080	10.8mm	195	128	19.50 €



# PTG

## UZUN SERİ MATKAP UÇLARI DIN340 HSS GT100

KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P334031090	10.9mm	195	128	19.50 €	P334031390	13.9mm	214	140	47.40 €
P334031100	11.0mm	195	128	15.30 €	P334031400	14.0mm	214	140	34.80 €
P334031110	11.1mm	195	128	20.90 €	P334031410	14.1mm	214	140	51.85 €
P334031120	11.2mm	195	128	20.90 €	P334031420	14.2mm	214	140	51.85 €
P334031130	11.3mm	195	128	20.90 €	P334031430	14.3mm	214	140	51.85 €
P334031140	11.4mm	195	128	20.90 €	P334031440	14.4mm	214	140	51.85 €
P334031150	11.5mm	195	128	16.55 €	P334031450	14.5mm	214	140	37.95 €
P334031160	11.6mm	195	128	24.70 €	P334031460	14.6mm	214	140	55.65 €
P334031170	11.7mm	195	128	24.70 €	P334031470	14.7mm	214	140	55.65 €
P334031180	11.8mm	195	128	24.70 €	P334031480	14.8mm	214	140	55.65 €
P334031190	11.9mm	205	134	24.70 €	P334031490	14.9mm	214	140	55.65 €
P334031200	12.0mm	205	134	18.10 €	P334031500	15.0mm	220	144	41.75 €
P334031210	12.1mm	205	134	25.30 €	P334031510	15.1mm	220	144	62.10 €
P334031220	12.2mm	205	134	25.30 €	P334031520	15.2mm	220	144	62.10 €
P334031230	12.3mm	205	134	25.30 €	P334031530	15.3mm	220	144	62.10 €
P334031240	12.4mm	205	134	25.30 €	P334031540	15.4mm	220	144	62.10 €
P334031250	12.5mm	205	134	19.50 €	P334031550	15.5mm	220	144	44.85 €
P334031260	12.6mm	205	134	27.85 €	P334031560	15.6mm	220	144	64.40 €
P334031270	12.7mm	205	134	27.85 €	P334031570	15.7mm	220	144	64.40 €
P334031280	12.8mm	205	134	27.85 €	P334031580	15.8mm	220	144	64.40 €
P334031290	12.9mm	205	134	27.85 €	P334031590	15.9mm	220	144	64.40 €
P334031300	13.0mm	205	134	20.85 €	P334031600	16.0mm	227	149	47.00 €
P334031310	13.1mm	205	134	43.70 €	P334031650	16.5mm	235	154	50.50 €
P334031320	13.2mm	205	134	43.70 €	P334031700	17.0mm	235	154	59.80 €
P334031330	13.3mm	205	134	43.70 €	P334031750	17.5mm	241	158	65.50 €
P334031340	13.4mm	205	134	43.70 €	P334031800	18.0mm	241	158	69.00 €
P334031350	13.5mm	205	134	32.25 €	P334031850	18.5mm	247	162	73.50 €
P334031360	13.6mm	214	140	47.40 €	P334031900	19.0mm	247	162	82.00 €
P334031370	13.7mm	214	140	47.40 €	P334031950	19.5mm	254	166	85.00 €
P334031380	13.8mm	214	140	47.40 €	P334032000	20.0mm	254	166	90.00 €



# PTG

## TERS KILAVUZ TAKIMLARI

KOD	ÖLÇÜ	ÖZELLİK	FİYAT
P368881803	M3 - M18	5 Parça	11.00 €
P368882403	M3 - M24	6 Parça	15.20 €
P368885003	M3 - M50	8 Parça	34.50 €

# PTG



## KISA SERİ MATKAP UÇLARI DIN1897 HSS GT100



KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P189710200	2.0mm	38	12	0.90 €	P189710700	7.0mm	74	34	4.05 €
P189710250	2.5mm	43	14	1.00 €	P189710750	7.5mm	74	34	4.60 €
P189710300	3.0mm	46	16	1.25 €	P189710800	8.0mm	79	37	5.10 €
P189710320	3.2mm	49	18	1.55 €	P189710850	8.5mm	79	37	6.15 €
P189710330	3.3mm	49	18	1.55 €	P189710900	9.0mm	84	40	7.15 €
P189710350	3.5mm	52	20	1.55 €	P189710950	9.5mm	84	40	7.15 €
P189710400	4.0mm	55	22	1.55 €	P189711000	10.0mm	89	43	7.85 €
P189710420	4.2mm	55	22	2.05 €	P189711050	10.5mm	89	43	8.20 €
P189710450	4.5mm	58	24	2.05 €	P189711100	11.0mm	95	47	9.15 €
P189710500	5.0mm	62	26	2.15 €	P189711150	11.5mm	95	47	10.15 €
P189710520	5.2mm	62	26	2.80 €	P189711200	12.0mm	102	51	10.75 €
P189710550	5.5mm	66	28	2.80 €	P189711250	12.5mm	102	51	11.20 €
P189710600	6.0mm	66	28	3.10 €	P189711300	13.0mm	102	51	12.30 €
P189710650	6.5mm	70	31	3.65 €					

# PTG



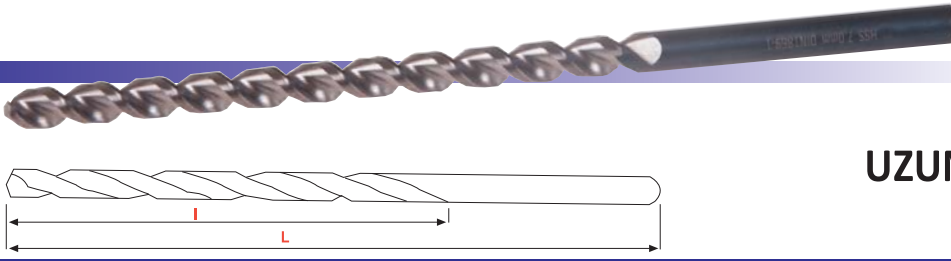
## UZUN SERİ MATKAP UÇLARI DIN1869-1 (GT-100)



KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P318690080	0.8mm	80	50	4.00 €	P318690550	5.5mm	205	140	10.40 €
P318690100	1.0mm	96	60	3.35 €	P318690600	6.0mm	205	140	11.20 €
P318690110	1.1mm	96	60	4.00 €	P318690650	6.5mm	215	150	12.00 €
P318690120	1.2mm	96	60	4.00 €	P318690680	6.8mm	215	150	15.95 €
P318690130	1.3mm	105	66	4.00 €	P318690700	7.0mm	225	155	12.80 €
P318690150	1.5mm	120	80	3.70 €	P318690750	7.5mm	225	155	14.00 €
P318690200	2.0mm	125	85	4.70 €	P318690800	8.0mm	240	165	15.30 €
P318690250	2.5mm	140	95	5.25 €	P318690850	8.5mm	240	165	18.75 €
P318690300	3.0mm	150	100	5.65 €	P318690900	9.0mm	250	175	23.30 €
P318690320	3.2mm	150	100	6.65 €	P318690950	9.5mm	250	175	24.20 €
P318690330	3.3mm	150	100	6.65 €	P318691000	10.0mm	265	18	24.80 €
P318690350	3.5mm	165	115	6.05 €	P318691050	10.5mm	265	185	27.30 €
P318690400	4.0mm	175	120	6.45 €	P318691100	11.0mm	280	195	28.50 €
P318690420	4.2mm	180	125	9.65 €	P318691150	11.5mm	280	195	30.50 €
P318690450	4.5mm	185	125	7.25 €	P318691200	12.0mm	295	205	33.00 €
P318690500	5.0mm	195	135	8.85 €	P318691250	12.5mm	295	205	34.50 €
P318690520	5.2mm	195	135	12.00 €	P318691300	13.0mm	295	205	37.50 €

# PTG

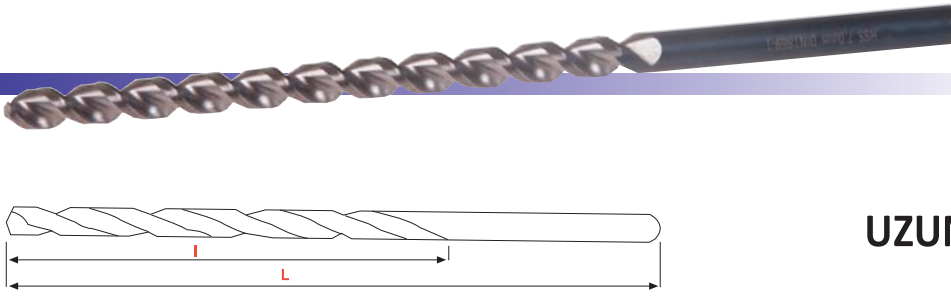
## UZUN SERİ MATKAP UÇLARI DIN1869-2 (GT-100)



KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P418690100	1.0mm	115	80	6.05 €	P418690700	7.0mm	290	200	19.35 €
P418690150	1.5mm	135	90	6.65 €	P418690750	7.5mm	290	200	21.30 €
P418690200	2.0mm	160	110	7.45 €	P418690800	8.0mm	305	210	22.65 €
P418690250	2.5mm	180	120	8.50 €	P418690850	8.5mm	305	210	27.95 €
P418690300	3.0mm	190	130	8.70 €	P418690900	9.0mm	320	220	30.65 €
P418690350	3.5mm	210	145	9.35 €	P418690950	9.5mm	320	220	31.30 €
P418690400	4.0mm	220	150	10.00 €	P418691000	10.0mm	340	235	33.30 €
P418690420	4.2mm	220	150	11.50 €	P418691050	10.5mm	340	235	37.50 €
P418690450	4.5mm	235	160	11.35 €	P418691100	11.0mm	365	250	40.00 €
P418690500	5.0mm	245	170	12.65 €	P418691150	11.5mm	365	250	45.00 €
P418690550	5.5mm	260	180	14.60 €	P418691200	12.0mm	375	260	48.00 €
P418690600	6.0mm	260	180	15.30 €	P418691250	12.5mm	375	260	49.50 €
P418690650	6.5mm	275	190	18.00 €	P418691300	13.0mm	375	260	53.00 €

# PTG

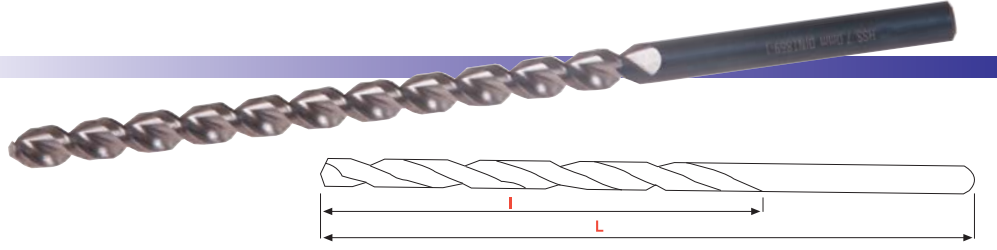
## UZUN SERİ MATKAP UÇLARI DIN1869-3 (GT-100)



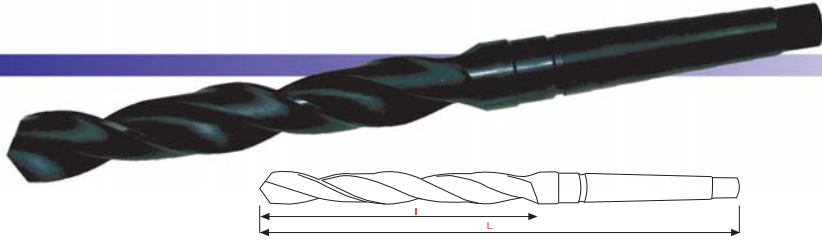
KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P518690200	2.0mm	200	135	11.90 €	P518690800	8.0mm	390	265	40.90 €
P518690250	2.5mm	225	150	12.10 €	P518690850	8.5mm	390	265	46.40 €
P518690300	3.0mm	235	160	12.25 €	P518690900	9.0mm	410	280	48.00 €
P518690350	3.5mm	265	180	12.35 €	P518690950	9.5mm	410	280	49.40 €
P518690400	4.0mm	280	190	13.80 €	P518691000	10.0mm	430	295	51.00 €
P518690450	4.5mm	295	200	18.90 €	P518691050	10.5mm	430	295	55.00 €
P518690500	5.0mm	315	210	20.35 €	P518691100	11.0mm	455	310	58.00 €
P518690550	5.5mm	330	225	21.75 €	P518691150	11.5mm	455	310	65.00 €
P518690600	6.0mm	330	225	23.20 €	P518691200	12.0mm	480	330	71.00 €
P518690650	6.5mm	350	235	26.90 €	P518691250	12.5mm	480	330	74.50 €
P518690700	7.0mm	370	250	30.50 €	P518691300	13.0mm	480	330	89.50 €
P518690750	7.5mm	370	250	31.90 €					

# PTG

## EXTRA ÇOK UZUN SERİ MATKAP UÇLARI



KOD	ÖLÇÜ	L	I	FİYAT
<b>500mm BOY</b>				
P618690400	4.0mm	500	400	57.00 €
P618690450	4.5mm	500	400	57.00 €
P618690500	5.0mm	500	400	59.50 €
P618690550	5.5mm	500	400	59.50 €
P618690600	6.0mm	500	400	61.50 €
P618690650	6.5mm	500	400	63.00 €
P618690700	7.0mm	500	400	65.50 €
P618690750	7.5mm	500	400	67.50 €
P618690800	8.0mm	500	500	70.00 €
P618690865	8.0mm	600	500	85.00 €
P618690850	8.5mm	500	400	87.00 €
P618690900	9.0mm	500	400	87.00 €
P618691000	10.0mm	600	500	90.00 €
P618691050	10.5mm	600	500	95.00 €
P618691100	11.0mm	600	500	105.00 €
P618691150	11.5mm	600	500	110.00 €
P618691200	12.0mm	600	500	115.00 €
<b>375mm BOY</b>				
P318691350	13.5mm	375	265	56.00 €
P318691400	14.0mm	375	265	59.00 €
P318691450	14.5mm	375	265	64.00 €
P318691500	15.0mm	375	265	69.00 €
P318691550	15.5mm	375	265	72.50 €
P318691600	16.0mm	375	265	77.50 €
P318691650	16.5mm	375	265	82.00 €
P318691700	17.0mm	375	265	85.50 €
P318691750	17.5mm	375	265	90.50 €
P318691800	18.0mm	375	265	96.50 €
P318691850	18.5mm	375	265	100.00 €
P318691900	19.0mm	375	265	105.50 €
P318691950	19.5mm	375	265	111.00 €
P318692000	20.0mm	375	265	115.00 €
<b>600mm BOY</b>				
P618691400	14.0mm	480	330	109.00 €
P618691450	14.5mm	480	330	116.00 €
P618691500	15.0mm	600	500	138.00 €
P618691550	15.5mm	600	500	145.00 €
P618691600	16.0mm	600	500	152.00 €
P618691650	16.5mm	600	500	167.00 €
P618691700	17.0mm	600	500	174.00 €
P618691750	17.5mm	600	500	181.00 €
P618691800	18.0mm	600	500	195.00 €
P618691850	18.5mm	600	500	203.00 €
P618691900	19.0mm	600	500	210.00 €
P618691950	19.5mm	600	500	217.00 €
P618692000	20.0mm	600	500	232.00 €



# PTG

## KONİK SAPLI MATKAP UÇLARI DIN345

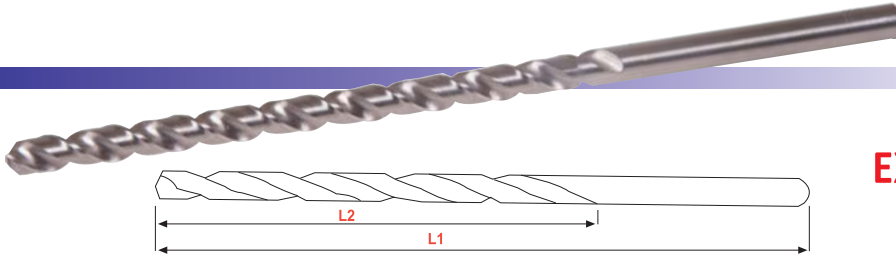
KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P334500800	8.0mm	156	75	10.30 €	P334503400	34.0mm	339	190	91.00 €
P334500850	8.5mm	156	75	10.30 €	P334503450	34.5mm	339	190	94.50 €
P334500900	9.0mm	162	81	10.30 €	P334503500	35.0mm	339	190	94.50 €
P334500950	9.5mm	162	81	10.30 €	P334503550	35.5mm	339	190	100.00 €
P334501000	10.0mm	168	87	10.30 €	P334503600	36.0mm	344	195	100.00 €
P334501050	10.5mm	168	87	10.30 €	P334503650	36.5mm	344	195	105.50 €
P334501100	11.0mm	175	94	10.30 €	P334503700	37.0mm	344	195	105.50 €
P334501150	11.5mm	175	94	10.30 €	P334503750	37.5mm	344	195	110.00 €
P334501200	12.0mm	182	101	10.90 €	P334503800	38.0mm	349	200	110.00 €
P334501250	12.5mm	182	101	10.90 €	P334503850	38.5mm	349	200	114.00 €
P334501300	13.0mm	182	101	11.50 €	P334503900	39.0mm	349	200	114.00 €
P334501350	13.5mm	189	108	11.50 €	P334503950	39.5mm	349	200	117.00 €
P334501400	14.0mm	189	108	12.10 €	P334504000	40.0mm	349	200	117.00 €
P334501450	14.5mm	212	114	12.70 €	P334504050	40.5mm	354	205	137.50 €
P334501500	15.0mm	212	114	12.70 €	P334504100	41.0mm	354	205	137.50 €
P334501550	15.5mm	218	120	13.30 €	P334504150	41.5mm	354	205	141.00 €
P334501600	16.0mm	218	120	13.90 €	P334504200	42.0mm	354	205	141.00 €
P334501650	16.5mm	223	125	14.50 €	P334504250	42.5mm	354	205	146.00 €
P334501700	17.0mm	223	125	14.50 €	P334504300	43.0mm	359	210	146.00 €
P334501750	17.5mm	228	130	15.15 €	P334504350	43.5mm	359	210	153.00 €
P334501800	18.0mm	228	130	15.75 €	P334504400	44.0mm	359	210	153.00 €
P334501850	18.5mm	233	135	16.95 €	P334504450	44.5mm	359	210	157.00 €
P334501900	19.0mm	233	135	17.60 €	P334504500	45.0mm	359	210	157.00 €
P334501950	19.5mm	238	140	18.15 €	P334504550	45.5mm	364	215	172.00 €
P334502000	20.0mm	238	140	18.15 €	P334504600	46.0mm	364	215	172.00 €
P334502050	20.5mm	243	145	22.00 €	P334504650	46.5mm	364	215	175.50 €
P334502100	21.0mm	243	145	22.55 €	P334504700	47.0mm	364	215	175.50 €
P334502150	21.5mm	248	150	23.10 €	P334504750	47.5mm	364	215	184.50 €
P334502200	22.0mm	248	150	23.10 €	P334504800	48.0mm	369	220	184.50 €
P334502250	22.5mm	253	155	24.20 €	P334504850	48.5mm	369	220	189.00 €
P334502300	23.0mm	253	155	24.20 €	P334504900	49.0mm	369	220	189.00 €
P334502350	23.5mm	276	155	26.60 €	P334504950	49.5mm	369	220	194.00 €
P334502400	24.0mm	281	160	26.60 €	P334505000	50.0mm	369	220	194.00 €
P334502450	24.5mm	281	160	30.25 €	P334505100	51.0mm	412	225	233.00 €
P334502500	25.0mm	281	160	30.25 €	P334505200	52.0mm	412	225	236.00 €
P334502550	25.5mm	286	165	30.90 €	P334505300	53.0mm	412	225	242.00 €
P334502600	26.0mm	286	165	31.45 €	P334505400	54.0mm	417	230	248.00 €
P334502650	26.5mm	286	165	33.30 €	P334505500	55.0mm	417	230	254.00 €
P334502700	27.0mm	291	170	34.10 €	P334505600	56.0mm	417	230	278.50 €
P334502750	27.5mm	291	170	35.20 €	P334505700	57.0mm	422	235	284.50 €
P334502800	28.0mm	291	170	35.20 €	P334505800	58.0mm	422	235	291.00 €
P334502850	28.5mm	296	175	37.95 €	P334505900	59.0mm	422	235	296.00 €
P334502900	29.0mm	296	175	37.95 €	P334506000	60.0mm	422	235	315.00 €
P334502950	29.5mm	296	175	40.15 €	P334506100	61.0mm	427	240	330.00 €
P334503000	30.0mm	296	175	40.15 €	P334506200	62.0mm	427	240	330.00 €
P334503050	30.5mm	301	180	45.10 €	P334506300	63.0mm	427	240	330.00 €
P334503100	31.0mm	301	180	45.10 €	P334506400	64.0mm	427	240	330.00 €
P334503150	31.5mm	301	180	47.30 €	P334506500	65.0mm	432	245	330.00 €
P334503200	32.0mm	334	185	51.15 €	P334506600	66.0mm	433	246	350.00 €
P334503250	32.5mm	334	185	85.00 €	P334506700	67.0mm	434	247	350.00 €
P334503300	33.0mm	334	185	88.00 €	P334506800	68.0mm	435	248	350.00 €
P334503350	33.5mm	334	185	90.00 €	P334507000	70.0mm	436	249	350.00 €





NEW

KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P234101400	14.0mm	223	142	33.00 €	P234103050	30.5mm	360	239	146.50 €
P234101450	14.5mm	245	147	35.00 €	P234103100	31.0mm	360	239	148.50 €
P234101500	15.0mm	245	147	36.50 €	P234103150	31.5mm	360	239	154.00 €
P234101550	15.5mm	251	153	38.50 €	P234103200	32.0mm	397	248	177.00 €
P234101600	16.0mm	251	153	39.50 €	P234103250	32.5mm	397	248	191.50 €
P234101650	16.5mm	257	159	41.00 €	P234103300	33.0mm	397	248	209.00 €
P234101700	17.0mm	257	159	41.50 €	P234103350	33.5mm	397	248	221.00 €
P234101750	17.5mm	263	165	42.00 €	P234103400	34.0mm	397	248	226.50 €
P234101800	18.0mm	263	165	42.50 €	P234103450	34.5mm	406	257	239.00 €
P234101850	18.5mm	269	171	43.00 €	P234103500	35.0mm	406	257	242.00 €
P234101900	19.0mm	269	171	43.50 €	P234103550	35.5mm	406	257	251.00 €
P234101950	19.5mm	275	177	47.50 €	P234103600	36.0mm	416	267	258.50 €
P234102000	20.0mm	275	177	49.50 €	P234103650	36.5mm	416	267	272.00 €
P234102050	20.5mm	282	184	57.00 €	P234103700	37.0mm	416	267	275.00 €
P234102100	21.0mm	282	184	58.50 €	P234103750	37.5mm	426	277	284.00 €
P234102150	21.5mm	289	191	64.00 €	P234103800	38.0mm	426	277	293.00 €
P234102200	22.0mm	289	191	66.00 €	P234103850	38.5mm	426	277	322.00 €
P234102250	22.5mm	296	198	71.50 €	P234103900	39.0mm	426	277	327.00 €
P234102300	23.0mm	296	198	74.00 €	P234103950	39.5mm	426	277	337.00 €
P234102350	23.5mm	319	198	77.00 €	P234104000	40.0mm	426	277	339.00 €
P234102400	24.0mm	327	206	80.50 €	P234104050	40.5mm	436	287	341.00 €
P234102450	24.5mm	327	206	86.00 €	P234104100	41.0mm	436	287	346.50 €
P234102500	25.0mm	327	206	88.00 €	P234104150	41.5mm	436	287	352.00 €
P234102550	25.5mm	335	214	96.00 €	P234104200	42.0mm	436	287	361.00 €
P234102600	26.0mm	335	214	99.00 €	P234104250	42.5mm	436	287	399.00 €
P234102650	26.5mm	335	214	102.50 €	P234104300	43.0mm	447	298	407.00 €
P234102700	27.0mm	343	222	107.00 €	P234104400	44.0mm	447	298	426.00 €
P234102750	27.5mm	343	222	112.00 €	P234104500	45.0mm	447	298	443.00 €
P234102800	28.0mm	343	222	115.50 €	P234104600	46.0mm	459	310	476.00 €
P234102850	28.5mm	351	230	125.50 €	P234104700	47.0mm	459	310	496.00 €
P234102900	29.0mm	351	230	129.00 €	P234104800	48.0mm	470	321	528.00 €
P234102950	29.5mm	351	230	133.00 €	P234104900	49.0mm	470	321	550.00 €
P234103000	30.0mm	351	230	135.00 €	P234105000	50.0mm	470	321	571.00 €



# PTG

**EXTRA UZUN MATKAP UÇLARI**  
**DIN1869(N tipi)**

KOD	ÖLÇÜ	L1	L2	FİYAT
<b>DIN1869-1</b>				
P-318690200	2.0mm	125	85	2.05 €
P-318690250	2.5mm	140	95	2.50 €
P-318690300	3.0mm	150	100	3.05 €
P-318690350	3.5mm	165	115	3.60 €
P-318690400	4.0mm	175	120	4.15 €
P-318690420	4.2mm	180	125	4.80 €
P-318690450	4.5mm	185	125	4.95 €
P-318690500	5.0mm	195	135	5.85 €
P-318690550	5.5mm	205	140	6.85 €
P-318690600	6.0mm	205	140	7.60 €
P-318690650	6.5mm	215	150	9.00 €
P-318690680	6.8mm	225	155	12.40 €
P-318690700	7.0mm	225	155	10.95 €
P-318690750	7.5mm	225	155	13.70 €
P-318690800	8.0mm	240	165	15.20 €
P-318690850	8.5mm	240	165	16.00 €
P-318690900	9.0mm	250	175	18.20 €
P-318690950	9.5mm	250	175	20.50 €
P-318691000	10.0mm	265	185	24.00 €
P-318691050	10.5mm	265	185	29.00 €
P-318691100	11.0mm	280	195	30.00 €
P-318691150	11.5mm	280	195	32.50 €
P-318691200	12.0mm	295	205	34.00 €
P-318691250	12.5mm	295	205	36.50 €
P-318691300	13.0mm	295	205	41.00 €
<b>DIN1869-2</b>				
P-328690200	2.0mm	160	110	3.05 €
P-328690250	2.5mm	180	120	3.45 €
P-328690300	3.0mm	190	130	3.45 €
P-328690350	3.5mm	210	145	4.15 €
P-328690400	4.0mm	220	150	5.05 €
P-328690450	4.5mm	235	160	5.85 €
P-328690500	5.0mm	245	170	6.85 €
P-328690550	5.5mm	260	180	8.35 €
P-328690600	6.0mm	260	180	9.90 €
P-328690650	6.5mm	275	190	10.90 €
P-328690700	7.0mm	290	200	15.15 €
P-328690750	7.5mm	290	200	16.70 €
P-328690800	8.0mm	305	210	20.10 €
P-328690850	8.5mm	305	210	22.00 €
P-328690900	9.0mm	320	220	24.00 €
P-328690950	9.5mm	320	220	26.50 €
P-328691000	10.0mm	340	235	31.50 €
P-328691050	10.5mm	340	235	34.00 €
P-328691100	11.0mm	365	250	38.50 €
P-328691150	11.5mm	365	250	41.50 €
P-328691200	12.0mm	375	260	47.00 €
P-328691250	12.5mm	375	260	51.50 €
P-328691300	13.0mm	375	260	58.50 €

# PTG

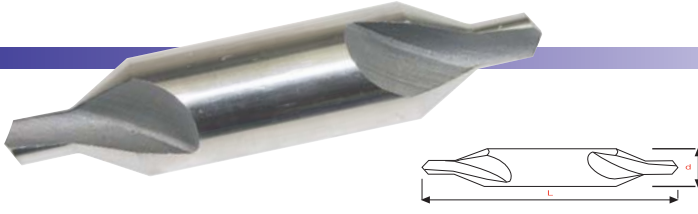
## EXTRA UZUN MATKAP UÇLARI DIN1869(N tipi)



KOD	ÖLÇÜ	L	I	FİYAT
<b>DIN1869-3</b>				
P-338690200	2.0mm	160	110	4.50 €
P-338690250	2.5mm	180	120	4.15 €
P-338690300	3.0mm	240	160	5.20 €
P-338690350	3.5mm	265	180	5.30 €
P-338690400	4.0mm	280	190	6.20 €
P-338690450	4.5mm	295	200	6.90 €
P-338690500	5.0mm	315	210	7.60 €
P-338690550	5.5mm	330	225	10.35 €
P-338690600	6.0mm	330	225	12.40 €
P-338690650	6.5mm	350	235	13.80 €
P-338690700	7.0mm	370	250	16.60 €
P-338690750	7.5mm	370	250	20.00 €
P-338690800	8.0mm	390	265	23.00 €
P-338690850	8.5mm	390	265	24.00 €
P-338690900	9.0mm	410	280	28.50 €
P-338690950	9.5mm	410	280	33.50 €
P-338691000	10.0mm	430	295	38.00 €
P-338691050	10.5mm	430	295	41.00 €
P-338691100	11.0mm	455	310	44.00 €
P-338691150	11.5mm	455	310	47.00 €
P-338691200	12.0mm	480	330	53.00 €
P-338691250	12.5mm	480	330	58.00 €
P-338691300	13.0mm	480	330	62.00 €

# PTG

## PUNTA MATKAP UÇLARI HSS DIN333 FORM A



KOD	ÖLÇÜ	L	d	FİYAT
<b>DIN333 FORM A</b>				
P233300080	0.80mm	315	3.15	2.80 €
P233300100	1.00mm	31.5	3.15	1.60 €
P233300125	1.25mm	31.5	3.15	1.65 €
P233300160	1.60mm	35.5	4	1.80 €
P233300200	2.00mm	40	5	1.90 €
P233300250	2.50mm	45	6.30	2.55 €
P233300315	3.15mm	50	8	3.15 €
P233300400	4.00mm	56	10	4.15 €
P233300500	5.00mm	63	12.5	5.70 €
P233300630	6.30mm	71	16	10.10 €
P233300800	8.00mm	80	20	19.00 €
P233301000	10.0mm	100	25	34.50 €

### DIN333 FORM A UZUN



P231200100	1.00mm	120	3.15	2.55 €
P231200125	1.25mm	120	3.15	3.15 €
P231200160	1.60mm	120	4	3.80 €
P231200200	2.00mm	120	5	4.45 €
P231200250	2.50mm	120	6.30	5.05 €
P231200315	3.15mm	120	8	7.05 €
P231200400	4.00mm	120	10	9.50 €
P231200500	5.00mm	120	12	12.65 €



# PTG

## PUNTA ÇÜRÜTME MATKAP UÇLARI HSS-CO5 DIN1897

KOD	ÖLÇÜ	ÖZELLİK	FİYAT
P218980600	6 X 66mm		6.00 €
P218980700	7 X 74mm		7.50 €
P218980800	8 X 79mm		8.50 €
P218981000	10 X 89mm		13.00 €
P218900600TIN	6 X 66mm	TIN KAPLAMA	8.00 €
P218900700TIN	7 X 74mm	TIN KAPLAMA	9.00 €
P218900800TIN	8 X 79mm	TIN KAPLAMA	11.00 €
P218901000TIN	10 X 89mm	TIN KAPLAMA	14.00 €
P218940800	8 X 44mm	HSS-E KAPLAMASIZ	8.00 €
P218950800TIN	8 X 47mm	HSS-E TIN KAPLAMA	9.00 €

# PTG

## PARMAK FREZELER DIN844-BN HSS-CO



KOD	ÖLÇÜ	L	I	FİYAT	KOD	ÖLÇÜ	L	I	FİYAT
P384410200	2.0mm	51	7	5.50 €	P384411900	19.0mm	104	38	30.00 €
P384410250	2.5mm	52	8	5.50 €	P384412000	20.0mm	104	38	32.00 €
P384410300	3.0mm	52	8	6.00 €	P384412100	21.0mm	104	38	37.00 €
P384410400	4.0mm	55	11	6.00 €	P384412200	22.0mm	104	38	42.00 €
P384410500	5.0mm	57	13	6.00 €	P384412300	23.0mm	121	38	54.00 €
P384410600	6.0mm	57	13	10.00 €	P384412400	24.0mm	121	45	56.00 €
P384410700	7.0mm	66	16	12.00 €	P384412500	25.0mm	121	45	70.00 €
P384410800	8.0mm	69	19	13.00 €	P384412600	26.0mm	121	45	60.00 €
P384410900	9.0mm	69	19	14.00 €	P384412700	27.0mm	121	45	64.00 €
P384411000	10.0mm	72	22	14.00 €	P384412800	28.0mm	121	45	66.00 €
P384411100	11.0mm	79	22	15.00 €	P384412900	29.0mm	121	45	75.00 €
P384411200	12.0mm	83	26	15.00 €	P384413000	30.0mm	121	45	76.00 €
P384411300	13.0mm	83	26	15.00 €	P384413200	32.0mm	133	53	95.00 €
P384411400	14.0mm	83	26	18.00 €	P384413400	34.0mm	133	53	110.00 €
P384411500	15.0mm	83	26	19.00 €	P384413500	35.0mm	133	53	120.00 €
P384411600	16.0mm	92	32	20.00 €	P384413600	36.0mm	133	53	125.00 €
P384411700	17.0mm	92	32	24.00 €	P384413800	38.0mm	133	53	160.00 €
P384411800	18.0mm	92	38	25.00 €	P384414000	40.0mm	133	53	170.00 €

# PTG

## 2 AĞIZ PARMAK FREZELER DIN327



KOD	ÖLÇÜ	I	L	d	FİYAT
P84362902	2.0mm	7	54	6	5.00 €
P84362903	3.0mm	8	56	6	5.50 €
P84362904	4.0mm	11	63	6	5.50 €
P84362905	5.0mm	13	68	6	6.00 €
P84362905	6.0mm	13	68	6	6.00 €
P84362907	7.0mm	16	80	10	7.50 €
P84362908	8.0mm	19	88	10	8.00 €
P84362910	10.0mm	22	95	10	9.00 €
P84362912	12.0mm	26	110	12	10.50 €
P84362914	14.0mm	26	110	12	13.50 €
P84362916	16.0mm	32	123	16	16.00 €
P84362918	18.0mm	32	123	16	18.00 €
P84362920	20.0mm	38	141	20	24.00 €

# PTG

## KABATALAŞ PARMAK FREZELER DIN844 - BNR HSS-CO



KOD	ÖLÇÜ	L	d	FİYAT
<b>HSS-CO %8 - KISA</b>				
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	42.00 €
P384432400	24.0mm	121	45	57.00 €
P384432500	25.0mm	121	45	-

<b>HSS-CO %8 - UZUN</b>				
P384440800	8.0mm	88	38	15.50 €
P384441000	10.0mm	95	45	15.50 €
P384441200	12.0mm	110	53	20.00 €
P384441400	14.0mm	110	53	24.00 €
P384441600	16.0mm	123	63	30.00 €
P384441800	18.0mm	123	63	36.00 €
P384442000	20.0mm	141	75	46.00 €



# PTG

## KABATALAŞ PARMAK FREZELER DIN844 - BNR HSS UZUN

KOD	ÖLÇÜ	L	I	FİYAT
P84396505	5.0mm	64	22	9.00 €
P84396506	6.0mm	68	24	10.00 €
P84396508	8.0mm	88	38	12.50 €
P84396510	10.0mm	95	45	13.50 €
P84396512	12.0mm	110	53	16.00 €
P84396514	14.0mm	110	53	19.00 €
P84396516	16.0mm	123	63	24.00 €
P84396518	18.0mm	123	63	30.00 €
P84396520	20.0mm	141	75	36.50 €
P84396525	25.0mm	166	90	60.00 €
P84396530	30.0mm	166	90	90.00 €
P84396532	32.0mm	186	106	114.00 €

# PTG

## EL RAYBALARI DIN206 HSS FORM B



KOD	ÖLÇÜ	L1	L2	g	FİYAT	KOD	ÖLÇÜ	L1	L2	g	FİYAT
P220600200	2.0mm	50	25	1.6	7.70 €	P220601700	17.0mm	175	87	12.5	35.20 €
P220600250	2.5mm	58	29	2.1	8.80 €	P220601800	18.0mm	188	93	14	33.00 €
P220600300	3.0mm	62	31	2.24	7.70 €	P220601900	19.0mm	188	93	14	41.00 €
P220600350	3.5mm	71	35	2.7	8.80 €	P220602000	20.0mm	201	100	16	38.50 €
P220600400	4.0mm	76	38	3.15	7.70 €	P220602100	21.0mm	201	100	16	49.50 €
P220600450	4.5mm	81	41	3.55	8.80 €	P220602200	22.0mm	215	107	18	46.50 €
P220600500	5.0mm	87	44	4.0	7.70 €	P220602300	23.0mm	215	107	18	58.50 €
P220600550	5.5mm	93	47	4.5	8.80 €	P220602400	24.0mm	231	115	20	56.00 €
P220600600	6.0mm	93	47	4.5	8.80 €	P220602500	25.0mm	231	115	20	60.50 €
P220600650	6.5mm	100	50	5.0	9.90 €	P220602600	26.0mm	231	115	20	66.00 €
P220600700	7.0mm	107	54	5.6	8.80 €	P220602700	27.0mm	247	124	22.4	71.50 €
P220600750	7.5mm	107	54	5.6	13.20 €	P220602800	28.0mm	247	124	22.4	77.00 €
P220600800	8.0mm	115	58	6.3	12.10 €	P220602900	29.0mm	247	124	22.4	90.00 €
P220600850	8.5mm	115	58	6.3	13.20 €	P220603000	30.0mm	247	124	22.4	90.00 €
P220600900	9.0mm	124	62	7.1	13.20 €	P220603100	31.0mm	265	133	25	99.00 €
P220601000	10.0mm	133	62	8.0	15.40 €	P220603200	32.0mm	265	133	25	105.00 €
P220601050	10.5mm	133	66	8.0	18.70 €	P220603300	33.0mm	265	133	25	108.00 €
P220601100	11.0mm	142	71	9.0	18.70 €	P220603400	34.0mm	265	133	25	123.00 €
P220601200	12.0mm	152	76	10.0	18.70 €	P220603500	35.0mm	284	142	28	132.00 €
P220601300	13.0mm	152	76	10.0	27.50 €	P220603600	36.0mm	284	142	28	138.50 €
P220601400	14.0mm	163	81	11.2	25.30 €	P220603700	37.0mm	284	142	28	148.50 €
P220601500	15.0mm	163	81	11.2	30.80 €	P220603800	38.0mm	305	152	31.5	165.00 €
P220601600	16.0mm	175	87	12.5	27.50 €	P220604000	40.0mm	305	152	31.5	176.00 €

# PTG

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



KOD	ÖLÇÜ	L1	L2	FİYAT	KOD	ÖLÇÜ	L1	L2	FİYAT
P2221250200	2.0mm	49	11	8.80 €	P2221251000	10.0mm	133	38	16.50 €
P2221250250	2.5mm	57	14	8.80 €	P2221251100	11.0mm	142	41	20.00 €
P2221250300	3.0mm	61	15	8.80 €	P2221251200	12.0mm	151	44	22.00 €
P2221250350	3.5mm	70	18	8.80 €	P2221251300	13.0mm	151	44	27.50 €
P2221250400	4.0mm	75	19	8.80 €	P2221251400	14.0mm	160	47	29.00 €
P2221250450	4.5mm	80	21	8.80 €	P2221251500	15.0mm	162	50	31.00 €
P2221250500	5.0mm	86	23	8.80 €	P2221251600	16.0mm	170	52	31.00 €
P2221250600	6.0mm	93	26	8.80 €	P2221251700	17.0mm	175	54	33.00 €
P2221250700	7.0mm	109	31	8.80 €	P2221251800	18.0mm	182	56	33.00 €
P2221250800	8.0mm	117	33	9.90 €	P2221251900	19.0mm	189	58	41.50 €
P2221250900	9.0mm	125	36	12.65 €	P2221252000	20.0mm	195	60	44.00 €



# PTG

## MAKİNA RAYBALARI DIN208 HSS-CO FORM B

KOD	ÖLÇÜ	L1	L2	FİYAT
P220851000	10.0mm	168	38	24.50 €
P220851100	11.0mm	175	41	30.00 €
P220851200	12.0mm	182	44	27.50 €
P220851300	13.0mm	182	44	31.00 €
P220851400	14.0mm	189	47	30.00 €
P220851500	15.0mm	204	50	35.50 €
P220851600	16.0mm	210	52	33.00 €
P220851700	17.0mm	214	54	37.50 €
P220851800	18.0mm	219	56	34.00 €
P220851900	19.0mm	223	58	41.00 €
P220852000	20.0mm	228	60	38.50 €
P220852100	21.0mm	232	62	46.50 €
P220852200	22.0mm	237	64	44.00 €
P220852300	23.0mm	241	66	49.50 €
P220852400	24.0mm	268	68	47.50 €
P220852500	25.0mm	268	68	49.50 €
P220852600	26.0mm	273	70	55.00 €
P220852800	28.0mm	277	71	60.50 €
P220853000	30.0mm	281	73	77.00 €
P220853200	32.0mm	317	77	88.00 €
P220853500	35.0mm	321	78	104.50 €
P220854000	40.0mm	329	81	132.00 €



# PTG

## PİM RAYBALARI DIN9 HSS-CO

KOD	ÖLÇÜ	L1	L2	FİYAT
P220900150	1.5mm	68	48	14.85 €
P220900200	2.0mm	68	48	14.85 €
P220900250	2.5mm	68	48	14.85 €
P220900300	3.0mm	80	58	16.50 €
P220900400	4.0mm	93	68	16.50 €
P220900500	5.0mm	100	73	19.25 €
P220900600	6.0mm	135	105	21.00 €
P220900800	8.0mm	180	145	30.00 €
P220901000	10.0mm	215	175	49.50 €
P220901200	12.0mm	255	210	71.50 €
P220901400	14.0mm	280	230	88.00 €
P220901600	16.0mm	280	230	110.00 €
P220901800	18.0mm	310	250	132.00 €
P220902000	20.0mm	310	250	154.00 €






## KARBÜR KALIPÇI FREZELER

KOD	ÖLÇÜ	L	I	d	FİYAT	KOD	ÖLÇÜ	L	I	d	FİYAT
 <p><b>FORM A</b></p>						 <p><b>FORM B</b></p>					
P2710010300	3.0mm	38	14	3	4.75 €	P2710020300	3.0mm	38	14	3	5.40 €
P2710010600	6.0mm	56	16	6	9.50 €	P2710020600	6.0mm	56	16	6	9.10 €
P2710010800	8.0mm	60	20	6	14.00 €	P2710020800	8.0mm	60	20	6	13.80 €
P2710011000	10.0mm	60	20	6	19.00 €	P2710021000	10.0mm	60	20	6	17.70 €
P2710011200	12.0mm	65	25	6	30.50 €	P2710021200	12.0mm	65	25	6	29.50 €
P2710011600	16.0mm	65	25	6	44.00 €	P2710021600	16.0mm	65	25	6	45.30 €
 <p><b>FORM C</b></p>						 <p><b>FORM D</b></p>					
P2710030300	3.0mm	38	14	3	4.75 €	P2710050300	3.0mm	40	3	3	6.00 €
P2710030600	6.0mm	56	16	6	9.50 €	P2710050600	6.0mm	45	5	6	7.00 €
P2710030800	8.0mm	60	20	6	14.00 €	P2710050800	8.0mm	47	7	6	8.50 €
P2710031000	10.0mm	60	20	6	19.00 €	P2710051000	10.0mm	49	9	6	10.50 €
P2710031200	12.0mm	65	25	6	30.00 €	P2710051200	12.0mm	50	10	6	15.50 €
P2710031600	16.0mm	65	25	6	45.00 €	P2710051600	16.0mm	54	14	6	27.00 €
 <p><b>FORM E</b></p>						 <p><b>FORM F</b></p>					
P2710060300	3.0mm	38	6	3	4.75 €	P2710070300	3.0mm	38	14	3	4.75 €
P2710060600	6.0mm	50	10	6	7.50 €	P2710070600	6.0mm	58	18	6	8.50 €
P2710060800	8.0mm	53	13	6	10.50 €	P2710070800	8.0mm	60	20	6	9.50 €
P2710061000	10.0mm	56	16	6	14.75 €	P2710071000	10.0mm	60	20	6	14.00 €
P2710061200	12.0mm	60	20	6	23.50 €	P2710071200	12.0mm	65	25	6	23.00 €
P2710061600	16.0mm	70	25	6	43.00 €	P2710071600	16.0mm	65	25	6	37.00 €



## KARBÜR KALIPÇI FREZELER

KOD	ÖLÇÜ	L	I	d	FİYAT	KOD	ÖLÇÜ	L	I	d	FİYAT
 <p><b>FORM G</b></p>						 <p><b>FORM H</b></p>					
P2710080300	3.0mm	38	15	3	4.50 €	P2710100300	3.0mm	38	6	3	5.00 €
P2710080600	6.0mm	58	18	6	8.50 €	P2710100600	6.0mm	58	18	6	8.00 €
P2710080800	8.0mm	60	20	6	9.50 €	P2710100800	8.0mm	60	20	6	13.50 €
P2710081000	10.0mm	60	20	6	14.00 €	P2710101000	10.0mm	65	25	6	21.50 €
P2710081200	12.0mm	65	25	6	21.50 €	P2710101200	12.0mm	72	32	6	33.00 €
P2710081600	16.0mm	65	25	6	36.00 €	P2710101600	16.0mm	82	36	6	55.00 €
 <p><b>FORM L</b></p>						 <p><b>FORM M</b></p>					
P2710110300	3.0mm	54	14	3	5.00 €	P2710120300	3.0mm	38	12	3	4.75 €
P2710110600	6.0mm	56	16	6	8.00 €	P2710120600	6.0mm	58	18	6	7.50 €
P2710110800	8.0mm	62	22	6	11.50 €	P2710120800	8.0mm	58	18	6	9.50 €
P2710111000	10.0mm	65	25	6	15.50 €	P2710121000	10.0mm	60	20	6	12.50 €
P2710111200	12.0mm	68	28	6	22.50 €	P2710121200	12.0mm	65	25	6	18.50 €
P2710111600	16.0mm	73	33	6	43.00 €	P2710121600	16.0mm	65	25	6	27.00 €



## KARBÜR KALIPÇI FREZE TAKIMLARI

KOD	ÜRÜN	FİYAT
P2710707010	10/12MM 10 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM A+C+F+G)	224.00 €
P2710707506	6MM 5 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)	52.00 €
P2710707508	8MM 5 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)	62.50 €
P2710707510	10MM 5 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)	84.00 €
P2710707512	12MM 10 PARÇA KARBÜR KALIPÇI FREZE SETİ (FORM B+C+D+F+G)	129.00 €



## HSS Bİ-METAL PANÇLAR

KOD	ÖLÇÜ	FİYAT	KOD	ÖLÇÜ	FİYAT
P274001400	14mm	3.10 €	P274005700	57mm	10.30 €
P274001600	16mm	3.40 €	P274005900	59mm	10.75 €
P274001700	17mm	3.70 €	P274006000	60mm	11.70 €
P274001900	19mm	3.80 €	P274006400	64mm	12.40 €
P274002000	20mm	3.90 €	P274006500	65mm	12.50 €
P274002100	21mm	4.20 €	P274006700	67mm	12.60 €
P274002200	22mm	4.50 €	P274006800	68mm	12.70 €
P274002400	24mm	4.70 €	P274007000	70mm	13.00 €
P274002500	25mm	5.00 €	P274007300	73mm	13.15 €
P274002700	27mm	5.35 €	P274007500	75mm	14.00 €
P274002900	29mm	5.55 €	P274007600	76mm	14.00 €
P274003000	30mm	5.90 €	P274007900	79mm	14.20 €
P274003200	32mm	6.10 €	P274008300	83mm	15.40 €
P274003300	33mm	6.40 €	P274008600	86mm	15.85 €
P274003500	35mm	6.80 €	P274008900	89mm	16.15 €
P274003700	37mm	7.00 €	P274009200	92mm	17.20 €
P274003800	38mm	7.10 €	P274009500	95mm	17.90 €
P274004000	40mm	7.20 €	P274009800	98mm	18.55 €
P274004100	41mm	7.50 €	P274010000	100mm	18.75 €
P274004300	43mm	7.70 €	P274010200	102mm	18.95 €
P274004400	44mm	7.95 €	P274010500	105mm	19.40 €
P274004500	45mm	8.60 €	P274010800	108mm	20.10 €
P274004600	46mm	8.60 €	P274011100	111mm	20.50 €
P274004800	48mm	8.60 €	P274011400	114mm	21.35 €
P274005000	50mm	9.10 €	P274012100	121mm	23.75 €
P274005100	51mm	9.10 €	P274012700	127mm	24.70 €
P274005200	52mm	9.60 €	P274014000	140mm	28.20 €
P274005400	54mm	10.00 €	P274014600	146mm	29.65 €
P274005500	55mm	10.00 €	P274015200	152mm	30.90 €



## HSS Bİ-METAL PANÇ SETLERİ

KOD	ÖLÇÜ	İÇERİK	FİYAT
P274070009	9 PARÇA	22/29/35/44/51/64 mm panç + 2 Adaptör + 1 Adap.Matkabı	73.85 €
P274070014	14 PARÇA	16/20/22/25/29/35/44/51/64/68/76 mm panç + 2 Adaptör + 1 Adap.Matkabı	114.35 €
P274070017	17 PARÇA	16/20/22/25/29/32/35/38/44/51/57/64/68/76 mm panç + 2 Adaptör + 1 Adap.Matkabı	137.25 €
P274080016	16 PARÇA	19/20/22/25/29/35/38/40/48/60/65/68/86 mm panç + 2 Adaptör + 1 Adap.Matkabı	154.90 €



# PTG

## CARBİDE PANÇLAR

KOD	ÖLÇÜ	FİYAT	KOD	ÖLÇÜ	FİYAT
P274501600	16mm	8.15 €	P274505200	52mm	27.55 €
P274501700	17mm	8.70 €	P274505400	54mm	28.55 €
P274501800	18mm	9.20 €	P274505500	55mm	28.55 €
P274501900	19mm	9.70 €	P274505700	57mm	29.55 €
P274502000	20mm	10.20 €	P274506000	60mm	30.60 €
P274502100	21mm	10.70 €	P274506200	62mm	32.65 €
P274502200	22mm	11.25 €	P274506500	65mm	33.65 €
P274502400	24mm	12.25 €	P274506800	68mm	35.70 €
P274502500	25mm	12.75 €	P274507000	70mm	35.70 €
P274502600	26mm	13.25 €	P274507300	73mm	37.70 €
P274502700	27mm	13.80 €	P274507600	76mm	39.75 €
P274502800	28mm	14.30 €	P274507800	78mm	40.80 €
P274503000	30mm	15.30 €	P274508000	80mm	40.80 €
P274503100	31mm	16.30 €	P274508200	82mm	42.80 €
P274503200	32mm	16.30 €	P274508300	83mm	43.85 €
P274503300	33mm	17.35 €	P274509000	90mm	46.90 €
P274503400	34mm	17.35 €	P274509500	95mm	49.95 €
P274503500	35mm	17.85 €	P274510000	100mm	52.00 €
P274503600	36mm	18.85 €	P274510500	105mm	74.40 €
P274503700	37mm	19.40 €	P274511000	110mm	78.50 €
P274503800	38mm	19.40 €	P274511500	115mm	81.55 €
P274504000	40mm	20.40 €	P274512500	125mm	88.65 €
P274504200	42mm	21.40 €	P274513000	130mm	97.85 €
P274504500	45mm	22.95 €	P274513500	135mm	112.10 €
P274504700	47mm	24.50 €	P274514000	140mm	116.20 €
P274504800	48mm	24.50 €	P274514500	145mm	124.35 €
P274505000	50mm	25.50 €	P274515000	150mm	128.40 €
P274505100	51mm	26.50 €			

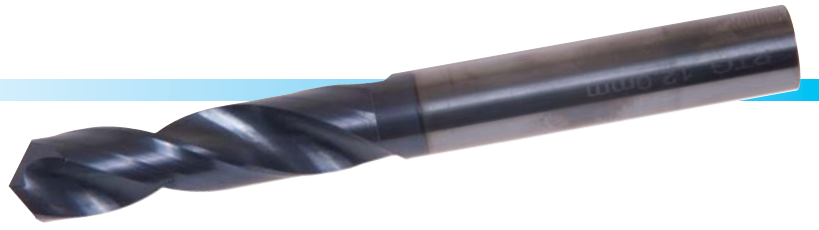


# PTG

## Bİ-METAL PANÇ ADAPTÖRLERİ & PANÇ MATKABI

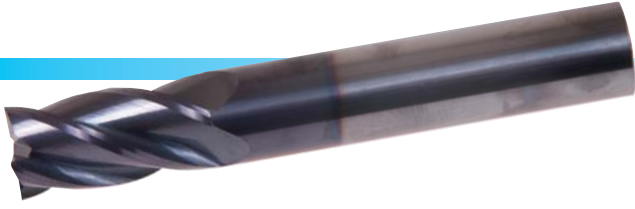
KOD	ÜRÜN	Q2	FİYAT
P274400201	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	11 mm	7.95 €
P274400202	32-210 Bİ-METAL PANÇ ADAPTÖRÜ	11 mm	14.60 €
P274400203	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	1/4" ( 6,35 mm )	7.00 €
P274400204	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	9,5 mm	7.95 €
P274400205	32-210 Bİ-METAL PANÇ ADAPTÖRÜ	9,5 mm	14.60 €
P274400206	14-30 Bİ-METAL PANÇ ADAPTÖRÜ	10 mm ( SDS - PLUS )	10.40 €
P274400207	32-210 Bİ-METAL PANÇ ADAPTÖRÜ	10 mm ( SDS - PLUS )	15.10 €
P274400301	6.35 * 75 PANÇ ADAPTÖR MATKABI		4.60 €
P274400302	6.35 * 105 PANÇ ADAPTÖR MATKABI		5.80 €

## KARBÜR MATKAP UÇLARI DIN6539



KOD	ÖLÇÜ	L1	L2	FİYAT
VR-65390100	1.0mm	38	12	5.75 €
VR-65390150	1.5mm	38	12	6.50 €
VR-65390200	2.0mm	38	12	6.50 €
VR-65390250	2.5mm	43	14	7.50 €
VR-65390300	3.0mm	46	16	7.50 €
VR-65390320	3.2mm	46	16	8.00 €
VR-65390330	3.3mm	46	16	8.00 €
VR-65390350	3.5mm	52	20	8.00 €
VR-65390400	4.0mm	55	22	8.25 €
VR-65390420	4.2mm	55	22	8.50 €
VR-65390450	4.5mm	58	24	13.00 €
VR-65390500	5.0mm	62	26	13.25 €
VR-65390550	5.5mm	66	28	16.00 €
VR-65390600	6.0mm	66	28	16.00 €
VR-65390650	6.5mm	70	31	20.00 €
VR-65390700	7.0mm	74	34	22.00 €
VR-65390750	7.5mm	74	34	27.00 €
VR-65390800	8.0mm	79	37	27.50 €
VR-65390850	8.5mm	79	37	36.00 €
VR-65390900	9.0mm	84	40	37.00 €
VR-65390950	9.5mm	84	40	41.00 €
VR-65391000	10.0mm	89	43	43.00 €
VR-65391050	10.5mm	89	43	50.00 €
VR-65391100	11.0mm	95	47	57.00 €
VR-65391150	11.5mm	95	47	59.00 €
VR-65391200	12.0mm	102	51	65.00 €
VR-65391250	12.5mm	102	51	70.00 €
VR-65391300	13.0mm	102	51	72.00 €
VR-65391350	13.5mm	102	51	80.00 €
VR-65391400	14.0mm	107	54	90.00 €
VR-65391450	14.5mm	111	56	101.00 €
VR-65391500	15.0mm	111	56	104.00 €
VR-65391550	15.5mm	115	58	117.00 €
VR-65391600	16.0mm	115	58	117.00 €
VR-65391650	16.5mm	119	60	135.00 €
VR-65391700	17.0mm	119	60	138.00 €
VR-65391750	17.5mm	123	62	160.00 €
VR-65391800	18.0mm	123	62	160.00 €
VR-65391850	18.5mm	127	64	180.00 €
VR-65391900	19.0mm	127	64	180.00 €
VR-65391950	19.5mm	127	64	192.00 €
VR-65392000	20.0mm	131	66	195.00 €

## 4 AĞIZ KARBÜR PARMAK FREZELER DIN846



KOD	ÖLÇÜ	L1	L2	FİYAT	KOD	ÖLÇÜ	L1	L2	FİYAT
VR-65280100	1.0mm	50	3	5.00 €	VR-65281100	11.0mm	75	25	32.00 €
VR-65280150	1.5mm	50	4	5.75 €	VR-65281200	12.0mm	75	30	33.00 €
VR-65280200	2.0mm	50	6	5.75 €	VR-65281300	13.0mm	75	25	55.00 €
VR-65280250	2.5mm	50	6	6.00 €	VR-65281400	14.0mm	80	35	48.00 €
VR-65280300	3.0mm	50	8	6.00 €	VR-65281500	15.0mm	90	35	69.00 €
VR-65280400	4.0mm	50	10	6.00 €	VR-65281600	16.0mm	100	40	75.00 €
VR-65280500	5.0mm	50	13	8.50 €	VR-65281800	18.0mm	100	40	95.00 €
VR-65280600	6.0mm	50	15	9.00 €	VR-65282000	20.0mm	100	40	115.00 €
VR-65280700	7.0mm	63	19	15.00 €	VR-65282200	22.0mm	105	40	150.00 €
VR-65280800	8.0mm	60	20	15.00 €	VR-65282400	24.0mm	105	40	180.00 €
VR-65280900	9.0mm	75	25	27.00 €	VR-65282500	25.0mm	105	40	200.00 €
VR-65281000	10.0mm	75	25	27.00 €					



## 4 AĞIZ KARBÜR P. FREZELER UZUN

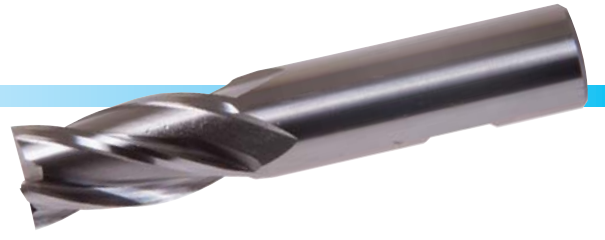
KOD	ÖLÇÜ	L	I	d	FİYAT
P84254503	3.0mm	20	58	6	16.00 €
P84254504	4.0mm	20	58	6	17.50 €
P84254505	5.0mm	25	63	6	22.00 €
P84254506	6.0mm	25	75	6	27.00 €
P84254508	8.0mm	28	75	8	40.00 €
P84254510	10.0mm	35	75	10	53.00 €
P84254512	12.0mm	45	100	12	88.00 €
P84254514	14.0mm	50	100	14	110.00 €
P84254516	16.0mm	50	100	16	140.00 €
P84254518	18.0mm	50	100	18	175.00 €
P84254520	20.0mm	60	120	20	247.00 €



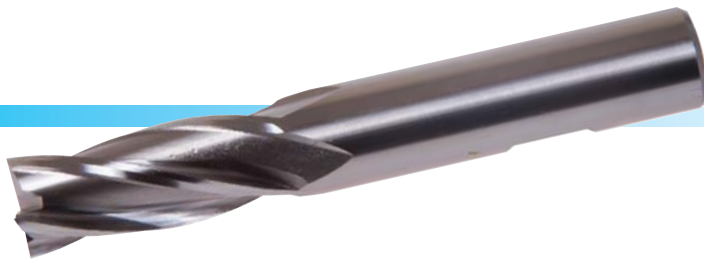
## 2 AĞIZ KARBÜR PARMAK FREZELER

KOD	ÖLÇÜ	L	I	d	FİYAT
P84252802	2.0mm	6	50	6	11.50 €
P84252803	3.0mm	6	50	6	12.00 €
P84252804	4.0mm	8	50	6	13.50 €
P84252805	5.0mm	8	50	6	16.50 €
P84252806	6.0mm	19	63	6	20.00 €
P84252808	8.0mm	19	63	8	32.00 €
P84252810	10.0mm	22	70	10	47.00 €
P84252812	12.0mm	25	75	12	68.00 €
P84252814	14.0mm	30	88	14	88.00 €
P84252816	16.0mm	32	88	16	125.00 €
P84252818	18.0mm	36	100	18	155.00 €
P84252820	20.0mm	38	100	20	200.00 €

## PARMAK FREZELER DIN844-BN HSS (M2 çelik)



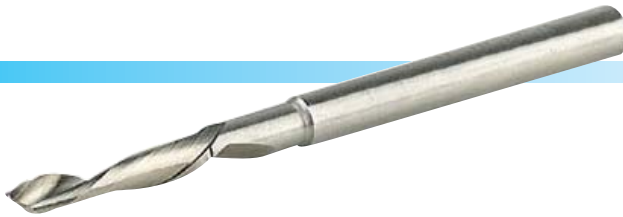
KOD	ÖLÇÜ	L1	L2	FİYAT
VR-84410200	2.0mm	51	7	-
VR-84410250	2.5mm	52	8	-
VR-84410300	3.0mm	52	8	-
VR-84410400	4.0mm	55	11	-
VR-84410500	5.0mm	57	13	-
VR-84410600	6.0mm	57	13	-
VR-84410700	7.0mm	66	16	4.00 €
VR-84410800	8.0mm	69	19	-
VR-84410900	9.0mm	69	19	6.00 €
VR-84411000	10.0mm	72	22	-
VR-84411100	11.0mm	79	22	8.00 €
VR-84411200	12.0mm	83	26	-
VR-84411300	13.0mm	83	26	10.00 €
VR-84411400	14.0mm	83	26	-
VR-84411500	15.0mm	83	26	-
VR-84411600	16.0mm	92	32	14.00 €
VR-84411700	17.0mm	92	32	15.00 €
VR-84411800	18.0mm	92	38	-
VR-84411900	19.0mm	104	38	20.00 €
VR-84412000	20.0mm	104	38	21.00 €
VR-84412100	21.0mm	104	38	27.00 €
VR-84412200	22.0mm	104	38	-
VR-84412300	23.0mm	121	38	35.00 €
VR-84412400	24.0mm	121	45	38.00 €
VR-84412500	25.0mm	121	45	-
VR-84412600	26.0mm	121	45	42.00 €
VR-84412700	27.0mm	121	45	44.00 €
VR-84412800	28.0mm	121	45	46.00 €
VR-84412900	29.0mm	121	45	48.00 €
VR-84413000	30.0mm	121	45	50.00 €
VR-84413100	31.0mm	133	53	53.00 €
VR-84413200	32.0mm	133	53	57.00 €
VR-84413300	33.0mm	133	53	60.00 €
VR-84413400	34.0mm	133	53	63.00 €
VR-84413500	35.0mm	133	53	67.00 €
VR-84413600	36.0mm	133	53	70.00 €
VR-84413800	38.0mm	133	53	73.00 €
VR-84414000	40.0mm	133	53	85.00 €



# VÖRKER

## PARMAK FREZELER DIN844-BN HSS (M2 çelik) UZUN

KOD	ÖLÇÜ	L1	L2	FİYAT
VR-84420200	2.0mm	54	10	-
VR-84420250	2.5mm	56	12	-
VR-84420300	3.0mm	56	12	3.00 €
VR-84420400	4.0mm	63	19	3.25 €
VR-84420500	5.0mm	68	24	4.00 €
VR-84420600	6.0mm	68	24	-
VR-84420700	7.0mm	80	30	6.00 €
VR-84420800	8.0mm	88	38	-
VR-84420900	9.0mm	88	38	8.00 €
VR-84421000	10.0mm	95	45	9.00 €
VR-84421200	12.0mm	110	53	10.00 €
VR-84421300	13.0mm	110	53	12.00 €
VR-84421400	14.0mm	110	53	13.00 €
VR-84421500	15.0mm	110	53	-
VR-84421600	16.0mm	123	63	19.00 €
VR-84421700	17.0mm	123	63	20.00 €
VR-84421800	18.0mm	123	63	21.00 €
VR-84421900	19.0mm	123	63	25.00 €
VR-84422000	20.0mm	141	75	28.00 €
VR-84422200	22.0mm	141	75	38.00 €
VR-84422400	24.0mm	166	90	49.00 €
VR-84422500	25.0mm	166	90	52.00 €
VR-84422800	28.0mm	166	90	55.00 €
VR-84423000	30.0mm	166	90	64.00 €
VR-84423200	32.0mm	186	106	75.00 €
VR-84423400	34.0mm	186	106	83.00 €
VR-84423600	36.0mm	186	106	92.00 €
VR-84424000	40.0mm	217	125	135.00 €



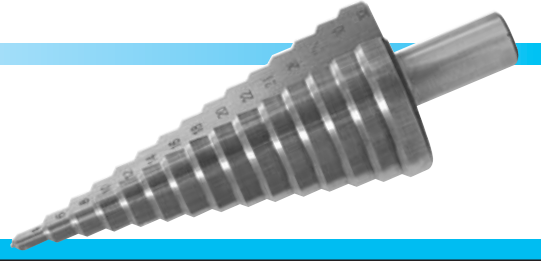
# VÖRKER

## TEK AĞIZ ALÜMİNYUM FREZE HSS

KOD	ÖLÇÜ	d	L1	L2	FİYAT
VR-8460400	4.0mm	8	60	12	-
VR-8460401	4.0mm	8	100	23	7.50 €
VR-8460500	5.0mm	8	60	14	6.50 €
VR-8460501	5.0mm	8	80	23	-
VR-8460600	6.0mm	8	60	14	6.50 €
VR-8460601	6.0mm	8	100	25	9.00 €
VR-8460800	8.0mm	8	80	14	8.00 €
VR-8460801	8.0mm	8	120	25	11.00 €
VR-8461000	10.0mm	10	120	25	13.00 €

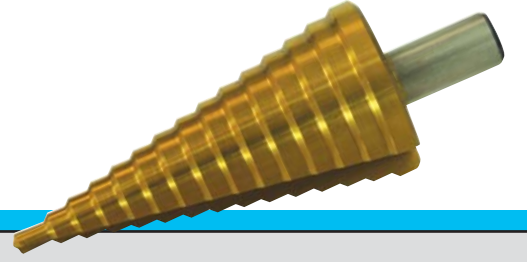


## KADEMELİ SAC DELME MATKABI HSS (M2 çelik)



KOD	ÖLÇÜ	FİYAT
VR-13412D	4 X 12	11.00 €
VR-13420D	4 X 20	16.50 €
VR-13432D	4 X 32	35.00 €
VR-13439D	4 X 39	38.50 €

## KADEMELİ SAC DELME MATKABI HSS - TIN (M2 çelik)



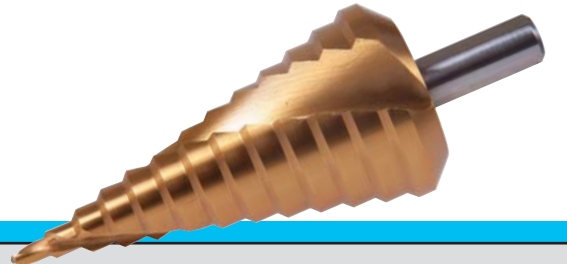
KOD	ÖLÇÜ	FİYAT
VR-14412T	4 X 12	13.20 €
VR-14420T	4 X 20	22.00 €
VR-14432T	4 X 32	42.00 €
VR-14439T	4 X 39	49.50 €
VR-13460D	6 X 50	60.50 €

## KADEMELİ SAC DELME MATKABI HELİS (M2 çelik)

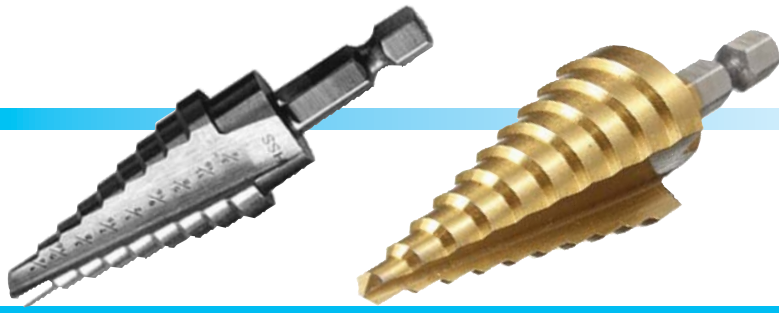


KOD	ÖLÇÜ	FİYAT
VR-10412S	4 X 12	13.20 €
VR-10420S	4 X 20	22.00 €
VR-10432S	4 X 32	42.00 €
VR-10439S	4 X 39	49.50 €

## KADEMELİ SAC DELME MATKABI HELİS - TIN (M2 çelik)

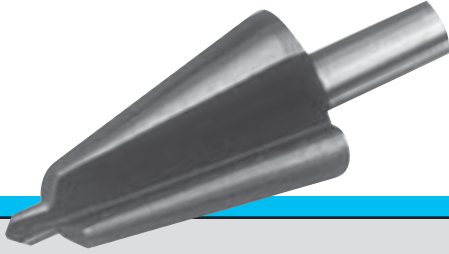


KOD	ÖLÇÜ	FİYAT
VR-11412T	4 X 12	16.50 €
VR-11420T	4 X 20	27.50 €
VR-11432T	4 X 32	49.50 €
VR-11439T	4 X 39	55.00 €



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

KOD	ÖLÇÜ	FİYAT
VR-16412B	4 X 12	10.00 €
VR-16420B	4 X 20	15.00 €
VR-16432B	4 X 32	35.00 €
VR-17412T	4 X 12 TIN KAPLI	12.00 €
VR-17420T	4 X 20 TIN KAPLI	20.00 €
VR-17432T	4 X 32 TIN KAPLI	40.00 €



## KADEMELİ SAC DELME MATKABI HSS - KONİK (M2 çelik)

KOD	ÖLÇÜ	FİYAT
VR-18314D	3 X 14	11.00 €
VR-18315D	8 X 20	16.50 €
VR-18316D	16 X 30,5	42.00 €
VR-18317D	24 X 40	55.00 €
VR-18318D	36 X 50	71.50 €
VR-18319D	40 X 61	99.00 €



## KADEMELİ SAC DELME SETLER

KOD	ÖLÇÜ	ÖZELLİK	FİYAT
VR-10412D	4 X 12 - 4 X 20 - 4 X 32	HSS	71.50 €
VR-10413D	4 X 12 - 4 X 20 - 4 X 32	HSS - TIN	77.00 €
VR-10415S	4 X 12 - 4 X 20 - 4 X 32	HELİS	77.00 €
VR-10420T	4 X 12 - 4 X 20 - 4 X 32	HELİS - TIN	88.00 €

## HAVŞA FREZE DIN335 HSS-CO 90°



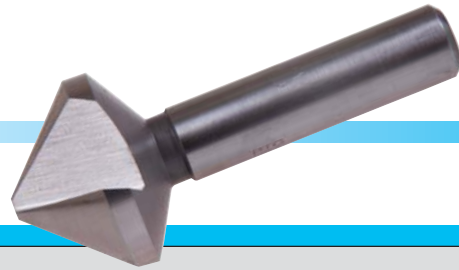
KOD	ÖLÇÜ	L	d	FİYAT
VR-33510630	6.3mm	44	6	6.00 €
VR-33510830	8.3mm	52	6	7.00 €
VR-33511040	10.4mm	52	6	9.00 €
VR-33511240	12.4mm	52	10	9.50 €
VR-33511650	16.5mm	60	10	13.00 €
VR-33512050	20.5mm	68	10	16.00 €
VR-33512500	25.0mm	84	12	23.00 €
VR-33512800	28.0mm	87	14	32.00 €
VR-33513100	31.0mm	90	16	38.00 €
VR-33514000	40.0mm	97	16	50.00 €

## HAVŞA FREZE DIN335 HSS TIN 90°



KOD	ÖLÇÜ	L	d	FİYAT
VR-3350630T	6.3mm	44	6	6.60 €
VR-3350830T	8.3mm	52	6	7.70 €
VR-3351040T	10.4mm	52	6	10.00 €
VR-3351240T	12.4mm	52	10	12.00 €
VR-3351650T	16.5mm	60	10	16.00 €
VR-3352050T	20.5mm	68	10	18.50 €
VR-3352500T	25.0mm	84	12	25.00 €
VR-3353100T	31.0mm	90	16	42.00 €
VR-3354000T	40.0mm	97	16	58.00 €

## HAVŞA FREZE DIN335 HSS 60°



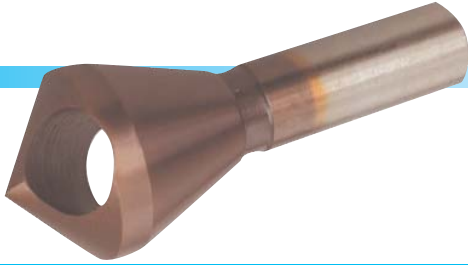
KOD	ÖLÇÜ	L	d	FİYAT
VR-3350630	6.3mm	44	6	4.00 €
VR-3350830	8.3mm	52	6	4.50 €
VR-3351040	10.4mm	52	6	5.50 €
VR-3351240	12.4mm	52	10	8.00 €
VR-3351650	16.5mm	60	10	12.00 €
VR-3352050	20.5mm	68	10	15.00 €
VR-3352500	25.0mm	84	12	20.00 €
VR-3353100	31.0mm	90	16	40.00 €



# VÖRKER

## SABİT PİLOTLU HAVŞA FREZE DIN373 HSS-CO

KOD	ÖLÇÜ	L	d	FİYAT
VR-37310300	M3	14	6	8.00 €
VR-37310400	M4	14	8	8.00 €
VR-37310500	M5	18	10	10.00 €
VR-37310600	M6	18	11	12.00 €
VR-37310800	M8	22	15	16.00 €
VR-37311000	M10	22	18	24.00 €
VR-37311200	M12	22	20	32.00 €



# VÖRKER

## DELİKLİ HAVŞA FREZE DIN335 HSS-TICN

KOD	ÖLÇÜ	FİYAT
VR-3350205	2-5	6.05 €
VR-3350510	5-10	11.00 €
VR-3351015	10-15	16.50 €
VR-3351520	15-20	33.00 €
VR-3352025	20-25	66.00 €
VR-3352530	25-30	93.50 €
VR-3353035	30-35	121.00 €



# VÖRKER

## HAVŞA FREZE SETLERİ DIN335 HSS

KOD	ÖLÇÜ	FİYAT
VR-33506	6.3mm, 8.3mm, 10.4mm, 12.4mm, 16.5mm, 20.5mm	75.00 €
VR33506T	6.3mm, 8.3mm, 10.4mm, 12.4mm, 16.5mm, 20.5mm TIN KAPLAMA	85.00 €

**VÖRKER**

