

**DORMER PRAMET**

# Ulusal havacilik standarti (NAS) için matkaplar





## ULUSAL HAVACILIK STANDARTLARINA BAĞLI ÜRETİLEN MATKAPLAR (NAS)



### ÖNSÖZ

Dormer Pramet, Precision Twist Drill (PTD) markası altında üretilen özellikle havacılık endüstrisi için tasarlanmış kapsamlı matkap ürün grubunu sunar.

Çeşitli uygulamalarda kullanılmak üzere farklı tiplerde bulunan program içindeki tüm ürünler AIA (Amerika Havacılık ve Uzay Sanayicileri Birliği) tarafından yayınlanan NAS 907 özelliklerine göre tasarlanmış ve üretilmiştir. Bu özelliklerin özeti bu broşürün arkasında belirtilmiştir.



### MALZEME

- En üst kalite HSS ve HSS-E çeliklerinden üretilmiştir.
- Bu malzemeler iyi kızıl sertlik sunmasının yanısıra soğutmanın sürekli uygulanmadığı sınırlı erişime sahip alanlardaki delik delme işleminde de **iyi takım ömrü** sunar.
- HSS ve HSS-E malzemeleri **serttirler** ancak el uygulamalarında kullanıldığında avantaj sağlayacak ve **basınç altında esneyeceklerdir**.

### YÜZEY İŞLEMİ

- Standart menevişlemeli mavi kaplama oksidasyonu azaltır ve genel delik delme uygulamalarında talaş yığılmasını önlemeye yardımcı olur.
- Bronz kaplama oksidasyonu önlerken aynı zamanda kobalt alaşımlı çelikten üretilen matkaplar için bir gösterge olan talaş yığılmasını önler.

### GEOMETRİ

- NAS 907 spesifikasyonlarına göre üretilmiştir.
- Uç açısı (118° veya 135°) matkabın kesme işlemine anında başlamasını sağlar, takımın kayma şansını ve parçanın zarar görme olasılığını düşürür.
- Ağız yapısı ile birleştirilen uç geometrisi mükemmel kesit dayanımı sağlarken aynı zamanda el uygulamaları için faydalı olacak iş parçasına nüfuz etmesi için gerekli kuvvetleri azaltır.

### MÜKEMMEL ARALIK

- Metrik 1.00mm - 13.00mm
- Kesirli 1/64 inç - 11/16 inç
- Gösterge N1 ile N60
- Harf A'dan Z'ye

## MATKAP TİPLERİ



### STANDART UZUNLUKLU TAKIMLAR

genel el ile delik delme uygulamaları için



### VİDALI ALTİGEN ŞAFTLI MATKAPLAR

kapalı alanlarda çalıştırıldığında dik açılı delik delme kafalarında kullanımında arttırılmış hassasiyet sağlamak için

- 5/16AF Hex'li 1/4-28 UNF Diş



### UZUN SERİLER HAVACILIK UZATMA MATKAPLARI

for drilling in difficult to reach areas

- Erişimi zor alanlara delik delme için 6 ve 12 inç uzunlukları mevcuttur

	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	
	NAS 965	NAS 965	NAS 965	NAS 907	DIN 1897	NAS 907	NAS 907	NAS 907	NAS 907	NAS 907	NAS 907	DIN 338	NAS 907	NAS 907	
				2.5XD	2.5XD	4XD	4XD	4XD	4XD	3XD	4XD	4XD	4XD	4XD	
	135°	135°	135°	135°	135°	118°	135°	135°	135°	135°	135°	135°	135°	135°	
	ST	ST	ST	ST	ST	ST	ST	ST	ST	Bronze	Bronze	Bronze	Bronze	Bronze	
					N							N			
	TS41	TS10 TS18	TS51 TS52	R40C R41C R42C	4ASM	R10A R15A R18A	R10B R15B R18B	500-6 501-6 502-6	500-12 501-12 502-12	R88CO R89CO	R10CO R15CO R18CO	2ACO	CO500-6 CO501-6	CO500-12 CO501-12	
	N40 - N10	1/8 - 1/4 N40 - N10	1/8 - 1/4 N40 - N10	1/16 - 1/2 N60 - N1 A - Z	1.00 - 12.50	1/16 - 1/2 A - Z N52 - N1	1/16 - 1/2 A - Z N52 - N1	3/64 - 1/2 N60 - N1 A - Z	3/64 - 1/2 N50 - N1 A - Z	1/16 - 1/2 N52 - N3	1/64 - 11/16 A - Z N80 - N1	1.00 - 13.00	1/16 - 1/4 N52 - N1	1/16 - 1/4 N40 - N2	
AMG	6	6	6	7	10	12	16	19	22	24	26	26	32	32	ISO
1.1	■115J	■115J	■115J	■115J	■115J	●115J	●115J			■115J	●115J	●115J			P 1
1.2	■98J	■98J	■98J	■98J	■98J	●98H	●98H			■98H	●98H	●98H			P 1
1.3	■89G	■89G	■89G	■89G	■89G	●89G	●89G	●82F	●82F	■89G	●89G	●89G			P 2
1.4	■69G	■69G	■69G	■69G	■69G	●79F	●79F	●66F	●66F	■79F	●79F	●79F			P 3
1.5	●46F	●46F	●46F	●46F	●46F	■56E	■56E	■43E	■43E	■56E	■56E	■56E			P 4
1.6	●33E	●33E	●33E	●33E	●33E	■33D	■33D	■30D	■30D	■33D	■33D	■33D	■20B	■20B	H 1
1.7															H 3
1.8															H 4
2.1	■52F	■52F	■52F	■52F	■52F	●72E	●72E	●49E	●49E	●72E	●72E	●72E	●95H	●95H	M 1
2.2	●30H	●30H	●30H	●30H	●30H	●36G	●36G	■26G	■26G	●36G	●36G	●36G	●56F	●56F	M 3
2.3	●33D	●33D	●33D	●33D	●33D	●49C	●49C	■30C	■30C	●49C	●49C	●49C	●56D	●56D	M 2
2.4													●30D	●30D	S 2
3.1	■105J	■105J	■105J	■105J	■105J	●115H	●115H	●98I	●98I	●115H	●115H	●115H	●161H	●161H	K 1
3.2	■89G	■89G	■89G	■89G	■89G	●92D	●92D	●79F	●79F	●92D	●92D	●92D	●85H	●85H	K 2
3.3	■66F	■66F	■66F	■66F	■66F	●72E	●72E	●66E	●66E	●72E	●72E	●72E	●85F	●85F	K 3
3.4	●52F	●52F	●52F	●52F	●52F	■56E	■56E	■46E	■46E	■56E	■56E	■56E	■56D	■56D	K 4
4.1	■89G	■89G	■89G	■89G	■89G	■92F	■92F	■75F	■75F	■92F	■92F	■92F			S 1
4.2	●52E	●52E	●52E	●52E	●52E	■66D	■66D	■39D	■39D	■66D	■66D	■66D			S 2
4.3	●26C	●26C	●26C	●26C	●26C	■36C	■36C	■20B	■20B	■36C	■36C	■36C	■20D	■20D	S 3
5.1	●43H	●43H	●43H	●43H	●43H	●49G	●49G	■33G	■33G	●49G	●49G	●49G			S 1
5.2	●26F	●26F	●26F	●26F	●26F	■23E	■23E	■20E	■20E	■23E	■23E	■23E	■20B	■20B	S 2
5.3	●13B	●13B	●13B	●13B	●13B	●20B	●20B	●10A	●10A	●20B	●20B	●20B	●16B	●16B	S 3
6.1	●118H	●118H	●118H	●118H	●118H	■125H	■125H			●125H	●125H	●125H			N 3
6.2	■125J	■125J	■125J	■125J	■125J	■131F	■131F			■131F	■131F	■131F			N 4
6.3	●89I	●89I	●89I	●89I	●89I	●89H	●89H	●89H	●89H	●89H	●89H	●89H			N 3
6.4	●52H	●52H	●52H	●52H	●52H	●69F	●69F	■52G	■52G	●69F	●69F	●69F			N 4
7.1	■108K	■108K	■108K	■108K	■108K	■108J	■108J			●108J	●108J	●108J			N 1
7.2	●98J	●98J	●98J	●98J	●98J	●98I	●98I			●98I	●98I	●98I			N 1
7.3	●98I	●98I	●98I	●98I	●98I	●98H	●98H			●98H	●98H	●98H			N 1
7.4	●82I	●82I	●82I	●82I	●82I	●89F	●89F	■79F	■79F	●89F	●89F	●89F			N 2
8.1	●98K	●98K	●98K	●98K	●98K										O
8.2	●115I	●115I	●115I	●115I	●115I										O
8.3	●56G	●56G	●56G	●56G	●56G										O
9.1	●13C	●13C	●13C	●13C	●13C	●20C	●20C	●10B	●10B	●20C	●20C	●20C			H
10.1															O

Fn	HSS		HSS-E									
	1mm	2mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	20mm
A	0.012	0.023	0.029	0.032	0.036	0.042	0.054	0.062	0.069	0.082	0.086	0.110
B	0.014	0.028	0.037	0.041	0.046	0.053	0.067	0.080	0.090	0.103	0.108	0.135
C	0.015	0.032	0.044	0.050	0.056	0.064	0.080	0.098	0.110	0.125	0.130	0.160
D	0.016	0.038	0.053	0.060	0.068	0.078	0.098	0.119	0.130	0.149	0.155	0.188
E	0.017	0.043	0.062	0.071	0.080	0.092	0.115	0.140	0.150	0.173	0.180	0.215
F	0.018	0.050	0.073	0.084	0.095	0.109	0.138	0.165	0.178	0.202	0.210	0.248
G	0.019	0.056	0.084	0.096	0.109	0.126	0.160	0.190	0.205	0.231	0.240	0.280
H	0.020	0.066	0.102	0.116	0.130	0.150	0.190	0.228	0.243	0.271	0.280	0.320
I	0.021	0.076	0.119	0.134	0.150	0.173	0.220	0.265	0.280	0.310	0.320	0.360
J	0.024	0.084	0.135	0.152	0.170	0.197	0.250	0.298	0.315	0.349	0.360	0.405
K	0.026	0.092	0.150	0.170	0.190	0.220	0.280	0.330	0.350	0.388	0.400	0.450

mm/REV ± 25 %

$$n = \frac{V_c \times 1000}{\pi \times D}$$

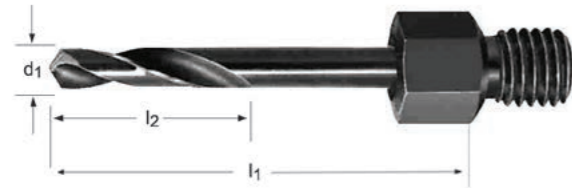
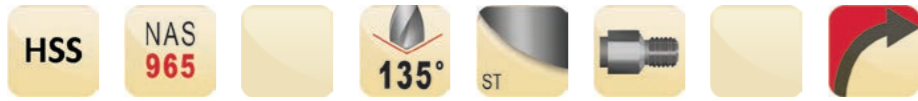
$$V_f = n \times f_n$$

**TS41**  
**TS10**  
**TS18**  
**TS51**  
**TS52**

• Vidalı altıgen şaftlı matkaplar

TS41; TS10; TS18; T51; TS52	1.1	1.2	1.3	1.4	2.1	3.1	3.2	3.3	4.1				
	1.5	1.6	2.2	2.3	3.4	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3
	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3	9.1				

**TS41**  
**TS10**  
**TS18**  
**TS51**  
**TS52**



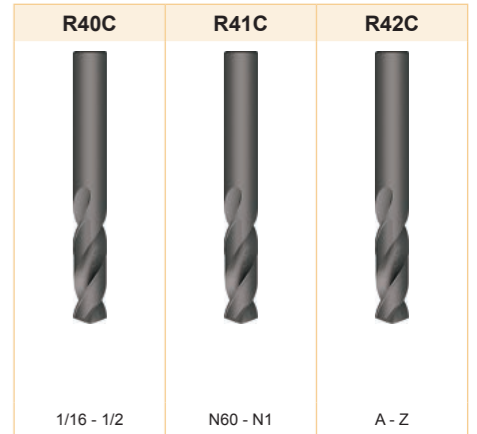
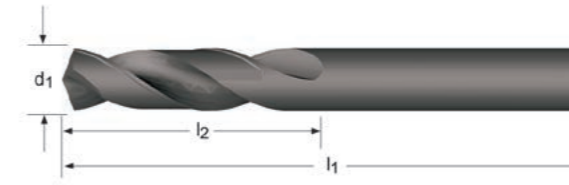
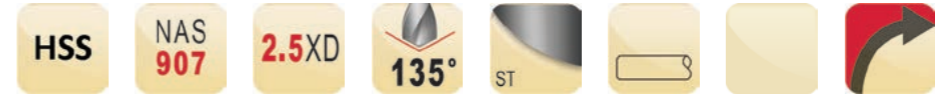
d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø Inch	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	TS41	TS10	TS18	TS51	TS52
40		0.0980	5/32	9/16	1	TS41N40				
40		0.0980	7/8	2.1/8	1					TS52N40
40		0.0980	9/16	1"	1			TS18N40		
	1/8	0.1250	7/8	2.1/8	1				TS511/8	
	1/8	0.1250	9/16	1"	1		TS101/8			
30		0.1285	1.1/8	2.1/8	1					TS52N30
30		0.1285	5/16	9/16	1	TS41N30				
30		0.1285	9/16	1.1/4	1			TS18N30		
	5/32	0.1563	1.1/8	2.1/8	1				TS515/32	
	5/32	0.1563	9/16	1.1/4	1		TS105/32			
21		0.1590	1.1/8	2.1/8	1					TS52N21
21		0.1590	9/16	1.1/4	1			TS18N21		
20		0.1610	1.1/8	2.1/8	1					TS52N20
20		0.1610	5/16	9/16	1	TS41N20				
20		0.1610	9/16	1.1/4	1			TS18N20		
	3/16	0.1875	1.1/8	2.1/8	1				TS513/16	
	3/16	0.1875	9/16	1.1/4	1		TS103/16			
11		0.1910	1.1/8	2.1/8	1					TS52N11
11		0.1910	5/16	9/16	1	TS41N11				
11		0.1910	9/16	1.1/4	1			TS18N11		
10		0.1935	1.1/8	2.1/8	1					TS52N10
10		0.1935	5/16	9/16	1	TS41N10				
10		0.1935	9/16	1.1/4	1			TS18N10		
	7/32	0.2188	1.1/8	2.1/8	1				TS517/32	
	7/32	0.2188	9/16	1.1/4	1		TS107/32			
	1/4	0.2500	1.1/8	2.1/8	1				TS511/4	
	1/4	0.2500	9/16	1.1/4	1		TS101/4			

**R40C**  
**R41C**  
**R42C**

• Sac Metal Matkapları Tip C

R40C; R41C; R42C	1.1	1.2	1.3	1.4	2.1	3.1	3.2	3.3	4.1							
	1.5	1.6	2.2	2.3	3.4	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2
	7.3	7.4	8.1	8.2	8.3	9.1										

**R40C**  
**R41C**  
**R42C**



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R40C	R41C	R42C
	60		0.0400	1/2	1.3/8	12		R41CN60 <sup>1)</sup>	
	59		0.0410	1/2	1.3/8	12		R41CN59 <sup>1)</sup>	
	58		0.0420	1/2	1.3/8	12		R41CN58 <sup>1)</sup>	
	57		0.0430	1/2	1.3/8	12		R41CN57 <sup>1)</sup>	
	56		0.0465	1/2	1.3/8	12		R41CN56 <sup>1)</sup>	
	55		0.0520	5/8	1.5/8	12		R41CN55 <sup>1)</sup>	
	54		0.0550	5/8	1.5/8	12		R41CN54 <sup>1)</sup>	
	53		0.0595	5/8	1.5/8	12		R41CN53 <sup>1)</sup>	
1/16			0.0625	5/8	1.5/8	12	R40C1/16		
	52		0.0635	11/16	1.11/16	12		R41CN52	
	51		0.0670	11/16	1.11/16	12		R41CN51	
	50		0.0700	11/16	1.11/16	12		R41CN50	
	49		0.0730	11/16	1.11/16	12		R41CN49	
	48		0.0760	11/16	1.11/16	12		R41CN48	
5/64			0.0781	11/16	1.11/16	12	R40C5/64		
	47		0.0785	11/16	1.11/16	12		R41CN47	
	46		0.0810	3/4	1.3/4	12		R41CN46	
	45		0.0820	3/4	1.3/4	12		R41CN45	
	44		0.0860	3/4	1.3/4	12		R41CN44	
	43		0.0890	3/4	1.3/4	12		R41CN43	
	42		0.0935	3/4	1.3/4	12		R41CN42	
3/32			0.0938	3/4	1.3/4	12	R40C3/32		
	41		0.0960	13/16	1.13/16	12		R41CN41	
	40		0.0980	13/16	1.13/16	12		R41CN40	
	39		0.0995	13/16	1.13/16	12		R41CN39	
	38		0.1015	13/16	1.13/16	12		R41CN38	
	37		0.1040	13/16	1.13/16	12		R41CN37	
	36		0.1065	13/16	1.13/16	12		R41CN36	
7/64			0.1094	13/16	1.13/16	12	R40C7/64		
	35		0.1100	7/8	1.7/8	12		R41CN35	
	34		0.1110	7/8	1.7/8	12		R41CN34	
	33		0.1130	7/8	1.7/8	12		R41CN33	
	32		0.1160	7/8	1.7/8	12		R41CN32	
	31		0.1200	7/8	1.7/8	12		R41CN31	

<sup>1)</sup> Not Split Point

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R40C	R41C	R42C
1/8			0.1250	7/8	1.7/8	12	R40C1/8		
	30		0.1285	15/16	1.15/16	12		R41CN30	
	29		0.1360	15/16	1.15/16	12		R41CN29	
	28		0.1405	15/16	1.15/16	12		R41CN28	
9/64			0.1406	15/16	1.15/16	12	R40C9/64		
	27		0.1440	1"	2.1/16	12		R41CN27	
	26		0.1470	1"	2.1/16	12		R41CN26	
	25		0.1495	1"	2.1/16	12		R41CN25	
	24		0.1520	1"	2.1/16	12		R41CN24	
	23		0.1540	1"	2.1/16	12		R41CN23	
5/32			0.1563	1"	2.1/16	12	R40C5/32		
	22		0.1570	1.1/16	2.1/8	12		R41CN22	
	21		0.1590	1.1/16	2.1/8	12		R41CN21	
	20		0.1610	1.1/16	2.1/8	12		R41CN20	
	19		0.1660	1.1/16	2.1/8	12		R41CN19	
	18		0.1695	1.1/16	2.1/8	12		R41CN18	
11/64			0.1719	1.1/16	2.1/8	12	R40C11/64		
	17		0.1730	1.1/8	2.3/16	12		R41CN17	
	16		0.1770	1.1/8	2.3/16	12		R41CN16	
	15		0.1800	1.1/8	2.3/16	12		R41CN15	
	14		0.1820	1.1/8	2.3/16	12		R41CN14	
	13		0.1850	1.1/8	2.3/16	12		R41CN13	
3/16			0.1875	1.1/8	2.3/16	12	R40C3/16		
	12		0.1890	1.3/16	2.1/4	12		R41CN12	
	11		0.1910	1.3/16	2.1/4	12		R41CN11	
	10		0.1935	1.3/16	2.1/4	12		R41CN10	
	9		0.1960	1.3/16	2.1/4	12		R41CN9	
	8		0.1990	1.3/16	2.1/4	12		R41CN8	
	7		0.2010	1.3/16	2.1/4	12		R41CN7	
13/64			0.2031	1.3/16	2.1/4	12	R40C13/64		
	6		0.2040	1.1/4	2.3/8	12		R41CN6	
	5		0.2055	1.1/4	2.3/8	12		R41CN5	
	4		0.2090	1.1/4	2.3/8	12		R41CN4	
	3		0.2130	1.1/4	2.3/8	12		R41CN3	
7/32			0.2188	1.1/4	2.3/8	12	R40C7/32		
	2		0.2210	1.5/16	2.7/16	12		R41CN2	
	1		0.2280	1.5/16	2.7/16	12		R41CN1	
		A	0.2340	1.5/16	2.7/16	12			R42CA
15/64			0.2344	1.5/16	2.7/16	12	R40C15/64		
		B	0.2374	1.3/8	2.1/2	12			R42CB
		C	0.2421	1.3/8	2.1/2	12			R42CC
		D	0.2461	1.3/8	2.1/2	12			R42CD
1/4			0.2500	1.3/8	2.1/2	12	R40C1/4		
		E	0.2500	1.3/8	2.1/2	12			R42CE
		F	0.2571	1.7/16	2.5/8	12			R42CF
		G	0.2610	1.7/16	2.5/8	12			R42CG
17/64			0.2656	1.7/16	2.5/8	12	R40C17/64		
		H	0.2661	1.1/2	2.11/16	12			R42CH
		I	0.2720	1.1/2	2.11/16	12			R42CI
		J	0.2772	1.1/2	2.11/16	12			R42CJ
		K	0.2811	1.1/2	2.11/16	12			R42CK
9/32			0.2813	1.1/2	2.11/16	12	R40C9/32		
		L	0.2992	1.9/16	2.3/4	12			R42CL
		M	0.2949	1.9/16	2.3/4	12			R42CM
19/64			0.2969	1.9/16	2.3/4	12	R40C19/64		
		N	0.3020	1.5/8	2.13/16	12			R42CN
5/16			0.3125	1.5/8	2.13/16	6	R40C5/16		
		O	0.3161	1.11/16	2.15/16	6			R42CO
		P	0.3228	1.11/16	2.15/16	6			R42CP
21/64			0.3281	1.11/16	2.15/16	6	R40C21/64		
		Q	0.3319	1.11/16	3"	6			R42CQ
		R	0.3390	1.11/16	3"	6			R42CR
11/32			0.3437	1.11/16	3"	6	R40C11/32		
		S	0.3480	1.3/4	3.1/16	6			R42CS
		T	0.3580	1.3/4	3.1/16	6			R42CT
23/64			0.3594	1.3/4	3.1/16	6	R40C23/64		
		U	0.3680	1.13/16	3.1/8	6			R42CU
3/8			0.3750	1.13/16	3.1/8	6	R40C3/8		

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R40C	R41C	R42C
		V	0.3772	1.7/8	3.1/4	6			R42CV
		W	0.3858	1.7/8	3.1/4	6			R42CW
25/64			0.3906	1.7/8	3.1/4	6	R40C25/64		
		X	0.3969	1.15/16	3.5/16	6			R42CX
		Y	0.4039	1.15/16	3.5/16	6			R42CY
13/32			0.4063	1.15/16	3.5/16	6	R40C13/32		
		Z	0.4130	2"	3.3/8	6			R42CZ
27/64			0.4219	2"	3.3/8	6	R40C27/64		
7/16			0.4375	2.1/16	3.7/16	6	R40C7/16		
29/64			0.4531	2.1/8	3.9/16	6	R40C29/64		
15/32			0.4687	2.1/8	3.5/8	6	R40C15/32		
31/64			0.4844	2.3/16	3.11/16	6	R40C31/64		
1/2			0.5000	2.1/4	3.3/4	6	R40C1/2		

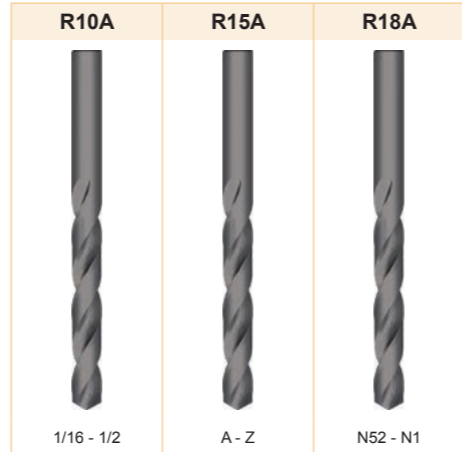
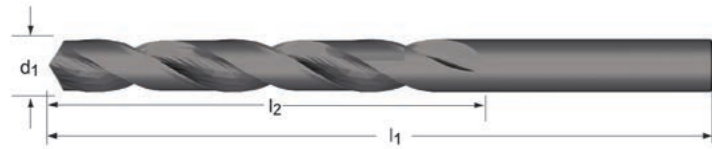


# R10A R15A R18A

• Silindirik Şaftlı Matkaplar Tip A

R10A; R15A; R18A	▪	1.5	1.6	3.4	4.1	4.2	4.3	5.2										
	•	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	3.3	5.1	5.3	6.1	6.2	6.3	6.4	
		7.1	7.2	7.3	7.4	9.1												

R10A R15A R18A



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R10A	R15A	R18A
1/16			0.0625	7/8	1.7/8	12	R10A1/16		
	52		0.0635	7/8	1.7/8	12			R18AN52
	51		0.0670	1"	2"	12			R18AN51
	50		0.0700	1"	2"	12			R18AN50
	49		0.0730	1"	2"	12			R18AN49
	48		0.0760	1"	2"	12			R18AN48
5/64			0.0781	1"	2"	12	R10A5/64		
	47		0.0785	1"	2"	12			R18AN47
	46		0.0810	1.1/8	2.1/8	12			R18AN46
	45		0.0820	1.1/8	2.1/8	12			R18AN45
	44		0.0860	1.1/8	2.1/8	12			R18AN44
	43		0.0890	1.1/4	2.1/4	12			R18AN43
	42		0.0935	1.1/4	2.1/4	12			R18AN42
3/32			0.0938	1.1/4	2.1/4	12	R10A3/32		
	41		0.0960	1.3/8	2.3/8	12			R18AN41
	40		0.0980	1.3/8	2.3/8	12			R18AN40
	39		0.0995	1.3/8	2.3/8	12			R18AN39
	38		0.1015	1.7/16	2.1/2	12			R18AN38
	37		0.1040	1.7/16	2.1/2	12			R18AN37
	36		0.1065	1.7/16	2.1/2	12			R18AN36
7/64			0.1094	1.1/2	2.5/8	12	R10A7/64		
	35		0.1100	1.1/2	2.5/8	12			R18AN35
	34		0.1110	1.1/2	2.5/8	12			R18AN34
	33		0.1130	1.1/2	2.5/8	12			R18AN33
	32		0.1160	1.5/8	2.3/4	12			R18AN32
	31		0.1200	1.5/8	2.3/4	12			R18AN31
1/8			0.1250	1.5/8	2.3/4	12	R10A1/8		
	30		0.1285	1.5/8	2.3/4	12			R18AN30
	29		0.1360	1.3/4	2.7/8	12			R18AN29
	28		0.1405	1.3/4	2.7/8	12			R18AN28
9/64			0.1406	1.3/4	2.7/8	12	R10A9/64		
	27		0.1440	1.7/8	3"	12			R18AN27
	26		0.1470	1.7/8	3"	12			R18AN26
	25		0.1495	1.7/8	3"	12			R18AN25

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R10A	R15A	R18A
	24		0.1520	2"	3.1/8	12			R18AN24
	23		0.1540	2"	3.1/8	12			R18AN23
5/32			0.1563	2"	3.1/8	12	R10A5/32		
	22		0.1570	2"	3.1/8	12			R18AN22
	21		0.1590	2.1/8	3.1/4	12			R18AN21
	20		0.1610	2.1/8	3.1/4	12			R18AN20
	19		0.1660	2.1/8	3.1/4	12			R18AN19
	18		0.1695	2.1/8	3.1/4	12			R18AN18
11/64			0.1719	2.1/8	3.1/4	12	R10A11/64		
	17		0.1730	2.3/16	3.3/8	12			R18AN17
	16		0.1770	2.3/16	3.3/8	12			R18AN16
	15		0.1800	2.3/16	3.3/8	12			R18AN15
	14		0.1820	2.3/16	3.3/8	12			R18AN14
	13		0.1850	2.5/16	3.1/2	12			R18AN13
3/16			0.1875	2.5/16	3.1/2	12	R10A3/16		
	12		0.1890	2.5/16	3.1/2	12			R18AN12
	11		0.1910	2.5/16	3.1/2	12			R18AN11
	10		0.1935	2.7/16	3.5/8	12			R18AN10
	9		0.1960	2.7/16	3.5/8	12			R18AN9
	8		0.1990	2.7/16	3.5/8	12			R18AN8
	7		0.2010	2.7/16	3.5/8	12			R18AN7
13/64			0.2031	2.7/16	3.5/8	12	R10A13/64		
	6		0.2040	2.1/2	3.3/4	12			R18AN6
	5		0.2055	2.1/2	3.3/4	12			R18AN5
	4		0.2090	2.1/2	3.3/4	12			R18AN4
	3		0.2130	2.1/2	3.3/4	12			R18AN3
7/32			0.2188	2.1/2	3.3/4	12	R10A7/32		
	2		0.2210	2.5/8	3.7/8	12			R18AN2
	1		0.2280	2.5/8	3.7/8	12			R18AN1
		A	0.2340	2.5/8	3.7/8	12		R15AA	
15/64			0.2344	2.5/8	3.7/8	12	R10A15/64		
		B	0.2374	2.3/4	4"	12		R15AB	
		C	0.2421	2.3/4	4"	12		R15AC	
		D	0.2461	2.3/4	4"	12		R15AD	
1/4			0.2500	2.3/4	4"	12	R10A1/4		
		E	0.2500	2.3/4	4"	12		R15AE	
		F	0.2571	2.7/8	4.1/8	12		R15AF	
		G	0.2610	2.7/8	4.1/8	12		R15AG	
17/64			0.2656	2.7/8	4.1/8	12	R10A17/64		
		H	0.2661	2.7/8	4.1/8	12		R15AH	
		I	0.2720	2.7/8	4.1/8	12		R15AI	
		J	0.2772	2.7/8	4.1/8	12		R15AJ	
		K	0.2811	2.15/16	4.1/4	12		R15AK	
3/32			0.2813	2.15/16	4.1/4	12	R10A3/32		
		L	0.2902	2.15/16	4.1/4	12		R15AL	
		M	0.2949	3.1/16	4.3/8	12		R15AM	
19/64			0.2969	3.1/16	4.3/8	12	R10A19/64		
		N	0.3020	3.1/16	4.3/8	12		R15AN	
5/16			0.3125	3.3/16	4.1/2	6	R10A5/16		
		O	0.3161	3.3/16	4.1/2	6		R15AO	
		P	0.3228	3.5/16	4.5/8	6		R15AP	
21/64			0.3281	3.5/16	4.5/8	6	R10A21/64		
		Q	0.3319	3.7/16	4.3/4	6		R15AQ	
		R	0.3390	3.7/16	4.3/4	6		R15AR	
11/32			0.3437	3.7/16	4.3/4	6	R10A11/32		
		S	0.3480	3.1/2	4.7/8	6		R15AS	
		T	0.3580	3.1/2	4.7/8	6		R15AT	
23/64			0.3594	3.1/2	4.7/8	6	R10A23/64		
		U	0.3680	3.5/8	5"	6		R15AU	
3/8			0.3750	3.5/8	5"	6	R10A3/8		
		V	0.3772	3.5/8	5"	6		R15AV	
		W	0.3858	3.3/4	5.1/8	6		R15AW	
25/64			0.3906	3.3/4	5.1/8	6	R10A25/64		
		X	0.3969	3.3/4	5.1/8	6		R15AX	
		Y	0.4039	3.7/8	5.1/4	6		R15AY	
13/32			0.4063	3.7/8	5.1/4	6	R10A13/32		
		Z	0.4130	3.7/8	5.1/4	6		R15AZ	
27/64			0.4219	3.15/16	5.3/8	6	R10A27/64		





$d_1$ Ø Inch	$d_1$ Ø Nr.	$d_1$ Ø letter	$d_1$ decimal Inch	$l_2$ Inch	$l_1$ Inch	Pack Qty	R10A	R15A	R18A
7/16			0.4375	4.1/16	5.1/2	6	R10A7/16		
29/64			0.4531	4.3/16	5.5/8	6	R10A29/64		
15/32			0.4687	4.5/16	5.3/4	6	R10A15/32		
31/64			0.4844	4.3/8	5.7/8	6	R10A31/64		
1/2			0.5000	4.1/2	6"	6	R10A1/2		



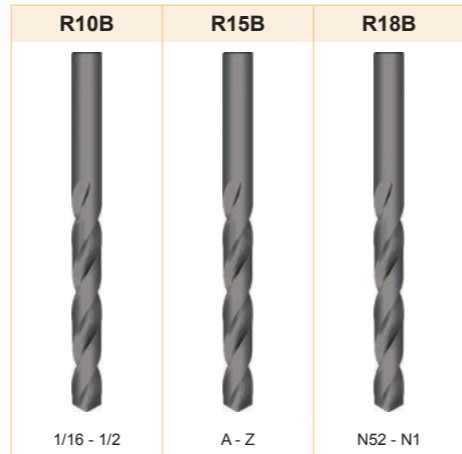
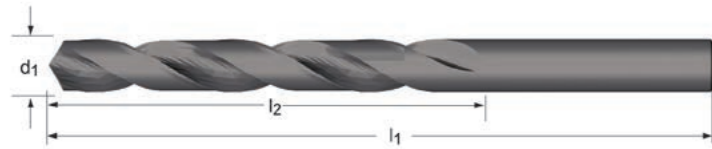
# R10B R15B R18B

• Silindirik Şaftlı Matkaplar

Tip B

R10B; R15B; R18B	▪	1.5	1.6	3.4	4.1	4.2	4.3	5.2												
	•	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	3.3	5.1	5.3	6.1	6.2	6.3	6.4			
		7.1	7.2	7.3	7.4	9.1														

R10B R15B R18B



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R10B	R15B	R18B
1/16			0.0625	7/8	1.7/8	12	R10B1/16		
	52		0.0635	7/8	1.7/8	12			R18BN52
	51		0.0670	1"	2"	12			R18BN51
	50		0.0700	1"	2"	12			R18BN50
	49		0.0730	1"	2"	12			R18BN49
	48		0.0760	1"	2"	12			R18BN48
5/64			0.0781	1"	2"	12	R10B5/64		
	47		0.0785	1"	2"	12			R18BN47
	46		0.0810	1.1/8	2.1/8	12			R18BN46
	45		0.0820	1.1/8	2.1/8	12			R18BN45
	44		0.0860	1.1/8	2.1/8	12			R18BN44
	43		0.0890	1.1/4	2.1/4	12			R18BN43
	42		0.0935	1.1/4	2.1/4	12			R18BN42
3/32			0.0938	1.1/4	2.1/4	12	R10B3/32		
	41		0.0960	1.3/8	2.3/8	12			R18BN41
	40		0.0980	1.3/8	2.3/8	12			R18BN40
	39		0.0995	1.3/8	2.3/8	12			R18BN39
	38		0.1015	1.7/16	2.1/2	12			R18BN38
	37		0.1040	1.7/16	2.1/2	12			R18BN37
	36		0.1065	1.7/16	2.1/2	12			R18BN36
7/64			0.1094	1.1/2	2.5/8	12	R10B7/64		
	35		0.1100	1.1/2	2.5/8	12			R18BN35
	34		0.1110	1.1/2	2.5/8	12			R18BN34
	33		0.1130	1.1/2	2.5/8	12			R18BN33
	32		0.1160	1.5/8	2.3/4	12			R18BN32
	31		0.1200	1.5/8	2.3/4	12			R18BN31
1/8			0.1250	1.5/8	2.3/4	12	R10B1/8		
	30		0.1285	1.5/8	2.3/4	12			R18BN30
	29		0.1360	1.3/4	2.7/8	12			R18BN29
	28		0.1405	1.3/4	2.7/8	12			R18BN28
9/64			0.1406	1.3/4	2.7/8	12	R10B9/64		
	27		0.1440	1.7/8	3"	12			R18BN27
	26		0.1470	1.7/8	3"	12			R18BN26
	25		0.1495	1.7/8	3"	12			R18BN25

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R10B	R15B	R18B
	24		0.1520	2"	3.1/8	12			R18BN24
	23		0.1540	2"	3.1/8	12			R18BN23
5/32			0.1563	2"	3.1/8	12	R10B5/32		
	22		0.1570	2"	3.1/8	12			R18BN22
	21		0.1590	2.1/8	3.1/4	12			R18BN21
	20		0.1610	2.1/8	3.1/4	12			R18BN20
	19		0.1660	2.1/8	3.1/4	12			R18BN19
	18		0.1695	2.1/8	3.1/4	12			R18BN18
11/64			0.1719	2.1/8	3.1/4	12	R10B11/64		
	17		0.1730	2.3/16	3.3/8	12			R18BN17
	16		0.1770	2.3/16	3.3/8	12			R18BN16
	15		0.1800	2.3/16	3.3/8	12			R18BN15
	14		0.1820						R18BN14
	13		0.1850						R18BN13
3/16			0.1875	2.5/16	3.1/2	12	R10B3/16		
	12		0.1890	2.5/16	3.1/2	12			R18BN12
	11		0.1910	2.5/16	3.1/2	12			R18BN11
	10		0.1935	2.7/16	3.5/8	12			R18BN10
	9		0.1960	2.7/16	3.5/8	12			R18BN9
	8		0.1990	2.7/16	3.5/8	12			R18BN8
	7		0.2010	2.7/16	3.5/8	12			R18BN7
13/64			0.2031	2.7/16	3.5/8	12	R10B13/64		
	6		0.2040	2.1/2	3.3/4	12			R18BN6
	5		0.2055	2.1/2	3.3/4	12			R18BN5
	4		0.2090	2.1/2	3.3/4	12			R18BN4
	3		0.2130	2.1/2	3.3/4	12			R18BN3
7/32			0.2188	2.1/2	3.3/4	12	R10B7/32		
	2		0.2210	2.5/8	3.7/8	12			R18BN2
	1		0.2280	2.5/8	3.7/8	12			R18BN1
		A	0.2340	2.5/8	3.7/8	12		R15BA	
15/64			0.2344	2.5/8	3.7/8	12	R10B15/64		
		B	0.2374	2.3/4	4"	12		R15BB	
		C	0.2421	2.3/4	4"	12		R15BC	
		D	0.2461	2.3/4	4"	12		R15BD	
1/4			0.2500	2.3/4	4"	12	R10B1/4		
		E	0.2500	2.3/4	4"	12		R15BE	
		F	0.2571	2.7/8	4.1/8	12		R15BF	
		G	0.2610	2.7/8	4.1/8	12		R15BG	
17/64			0.2656	2.7/8	4.1/8	12	R10B17/64		
		H	0.2661	2.7/8	4.1/8	12		R15BH	
		I	0.2720	2.7/8	4.1/8	12		R15BI	
		J	0.2772	2.7/8	4.1/8	12		R15BJ	
		K	0.2811	2.15/16	4.1/4	12		R15BK	
3/32			0.2813	2.15/16	4.1/4	12	R10B3/32		
		L	0.2902	2.15/16	4.1/4	12		R15BL	
		M	0.2949	3.1/16	4.3/8	12		R15BM	
19/64			0.2969	3.1/16	4.3/8	12	R10B19/64		
		N	0.3020	3.1/16	4.3/8	12		R15BN	
5/16			0.3125	3.3/16	4.1/2	6	R10B5/16		
		O	0.3161	3.3/16	4.1/2	6		R15BO	
		P	0.3228	3.5/16	4.5/8	6		R15BP	
21/64			0.3281	3.5/16	4.5/8	6	R10B21/64		
		Q	0.3319	3.7/16	4.3/4	6		R15BQ	
		R	0.3390	3.7/16	4.3/4	6		R15BR	
11/32			0.3437	3.7/16	4.3/4	6	R10B11/32		
		S	0.3480	3.1/2	4.7/8	6		R15BS	
		T	0.3580	3.1/2	4.7/8	6		R15BT	
23/64			0.3594	3.1/2	4.7/8	6	R10B23/64		
		U	0.3680	3.5/8	5"	6		R15BU	
3/8			0.3750	3.5/8	5"	6	R10B3/8		
		V	0.3772	3.5/8	5"	6		R15BV	
		W	0.3858	3.3/4	5.1/8	6		R15BW	
25/64			0.3906	3.3/4	5.1/8	6	R10B25/64		
		X	0.3969	3.3/4	5.1/8	6		R15BX	
		Y	0.4039	3.7/8	5.1/4	6		R15BY	
13/32			0.4063	3.7/8	5.1/4	6	R10B13/32		
		Z	0.4130	3.7/8	5.1/4	6		R15BZ	
27/64			0.4219	3.15/16	5.3/8	6	R10B27/64		

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R10B	R15B	R18B
7/16			0.4375	4.1/16	5.1/2	6	R10B7/16		
29/64			0.4531	4.3/16	5.5/8	6	R10B29/64		
15/32			0.4687	4.5/16	5.3/4	6	R10B15/32		
31/64			0.4844	4.3/8	5.7/8	6	R10B31/64		
1/2			0.5000	4.1/2	6"	6	R10B1/2		

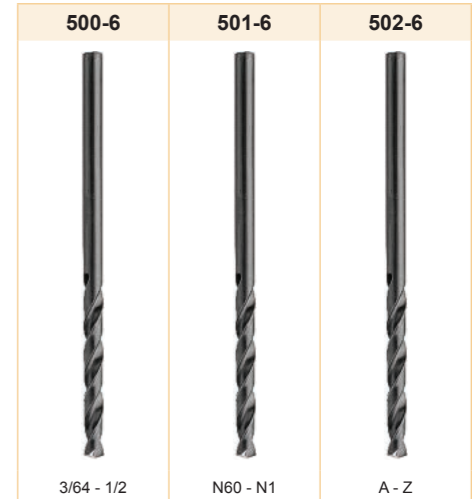
## 500-6 501-6 502-6

• Havacılık uzatma matkapları - 6 inç

Tip B

500-6; 501-6; 502-6	▪	1.5	1.6	2.2	2.3	3.4	4.1	4.2	4.3	5.1	6.4	7.4
	•	1.3	1.4	2.1	3.1	3.2	3.3	5.2	5.3	6.3	9.1	

500-6  
501-6  
502-6



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	500-6	501-6	502-6
	60		0.0400	11/16	6"	12		501-6N60	<sup>1)</sup>
	59		0.0410	11/16	6"	12		501-6N59	<sup>1)</sup>
	58		0.0420	11/16	6"	12		501-6N58	<sup>1)</sup>
	57		0.0430	3/4	6"	12		501-6N57	<sup>1)</sup>
	56		0.0465	3/4	6"	12		501-6N56	<sup>1)</sup>
3/64			0.0469	3/4	6"	12	500-63/64	<sup>1)</sup>	
	55		0.0520	7/8	6"	12		501-6N55	<sup>1)</sup>
	54		0.0550	7/8	6"	12		501-6N54	<sup>1)</sup>
	53		0.0595	7/8	6"	12		501-6N53	<sup>1)</sup>
1/16			0.0625	7/8	6"	12	500-61/16		
	52		0.0635	7/8	6"	12		501-6N52	
	51		0.0670	1"	6"	12		501-6N51	
	50		0.0700	1"	6"	12		501-6N50	
	49		0.0730	1"	6"	12		501-6N49	
	48		0.0760	1"	6"	12		501-6N48	
5/64			0.0781	1"	6"	12	500-65/64		
	47		0.0785	1"	6"	12		501-6N47	
	46		0.0810	1.1/8	6"	12		501-6N46	
	45		0.0820	1.1/8	6"	12		501-6N45	
	44		0.0860	1.1/8	6"	12		501-6N44	
	43		0.0890	1.1/4	6"	12		501-6N43	
	42		0.0935	1.1/4	6"	12		501-6N42	
3/32			0.0938	1.1/4	6"	12	500-63/32		
	41		0.0960	1.3/8	6"	12		501-6N41	
	40		0.0980	1.3/8	6"	12		501-6N40	
	39		0.0995	1.3/8	6"	12		501-6N39	
	38		0.1015	1.7/16	6"	12		501-6N38	
	37		0.1040	1.7/16	6"	12		501-6N37	
	36		0.1065	1.7/16	6"	12		501-6N36	
7/64			0.1094	1.1/2	6"	12	500-67/64		
	35		0.1100	1.1/2	6"	12		501-6N35	
	34		0.1110	1.1/2	6"	12		501-6N34	
	33		0.1130	1.1/2	6"	12		501-6N33	
	32		0.1160	1.5/8	6"	12		501-6N32	

<sup>1)</sup> Not Split Point

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	500-6	501-6	502-6
	31		0.1200	1.5/8	6"	12		501-6N31	
1/8			0.1250	1.5/8	6"	12	500-61/8		
	30		0.1285	1.5/8	6"	12		501-6N30	
	29		0.1360	1.3/4	6"	12		501-6N29	
	28		0.1405	1.3/4	6"	12		501-6N28	
9/64			0.1406	1.3/4	6"	12	500-69/64		
	27		0.1440	1.7/8	6"	12		501-6N27	
	26		0.1470	1.7/8	6"	12		501-6N26	
	25		0.1495	1.7/8	6"	12		501-6N25	
	24		0.1520	2"	6"	12		501-6N24	
	23		0.1540	2"	6"	12		501-6N23	
3/32			0.1563	2"	6"	12	500-63/32		
	22		0.1570	2"	6"	12		501-6N22	
	21		0.1590	2.1/8	6"	12		501-6N21	
	20		0.1610	2.1/8	6"	12		501-6N20	
	19		0.1660	2.1/8	6"	12		501-6N19	
	18		0.1695	2.1/8	6"	12		501-6N18	
11/64			0.1719	2.1/8	6"	12	500-611/64		
	17		0.1730	2.3/16	6"	12		501-6N17	
	16		0.1770	2.3/16	6"	12		501-6N16	
	15		0.1800	2.3/16	6"	12		501-6N15	
	14		0.1820	2.3/16	6"	12		501-6N14	
	13		0.1850	2.5/16	6"	12		501-6N13	
3/16			0.1875	2.5/16	6"	12	500-63/16		
	12		0.1890	2.5/16	6"	12		501-6N12	
	11		0.1910	2.5/16	6"	12		501-6N11	
	10		0.1935	2.7/16	6"	12		501-6N10	
	9		0.1960	2.7/16	6"	12		501-6N9	
	8		0.1990	2.7/16	6"	12		501-6N8	
	7		0.2010	2.7/16	6"	12		501-6N7	
13/64			0.2031	2.7/16	6"	12	500-613/64		
	6		0.2040	2.1/2	6"	12		501-6N6	
	5		0.2055	2.1/2	6"	12		501-6N5	
	4		0.2090	2.1/2	6"	12		501-6N4	
	3		0.2130	2.1/2	6"	12		501-6N3	
7/32			0.2188	2.1/2	6"	12	500-67/32		
	2		0.2210	2.5/8	6"	12		501-6N2	
	1		0.2280	2.5/8	6"	12		501-6N1	
		A	0.2340	2.5/8	6"	12			502-6A
15/64			0.2344	2.5/8	6"	12	500-615/64		
		B	0.2374	2.3/4	6"	12			502-6B
		C	0.2421	2.3/4	6"	12			502-6C
		D	0.2461	2.3/4	6"	12			502-6D
		E	0.2500	2.3/4	6"	12			502-6E
1/4			0.2500	2.3/4	6"	12	500-61/4		
		F	0.2571	2.7/8	6"	12			502-6F
		G	0.2610	2.7/8	6"	6			502-6G
17/64			0.2656	2.7/8	6"	6	500-617/64		
		H	0.2661	2.7/8	6"	6			502-6H
		I	0.2720	2.7/8	6"	6			502-6I
		J	0.2772	2.7/8	6"	6			502-6J
		K	0.2811	2.15/16	6"	6			502-6K
9/32			0.2813	2.15/16	6"	6	500-69/32		
		L	0.2902	2.15/16	6"	6			502-6L
		M	0.2949	3.1/16	6"	6			502-6M
19/64			0.2969	3.1/16	6"	6	500-619/64		
		N	0.3020	3.1/16	6"	6			502-6N
5/16			0.3125	3.3/16	6"	6	500-65/16		
		O	0.3161	3.3/16	6"	6			502-6O
		P	0.3228	3.5/16	6"	6			502-6P
21/64			0.3281	3.5/16	6"	6	500-621/64		
		Q	0.3319	3.7/16	6"	6			502-6Q
		R	0.3390	3.7/16	6"	6			502-6R
11/32			0.3437	3.7/16	6"	6	500-611/32		
		S	0.3480	3.1/2	6"	6			502-6S
		T	0.3580	3.1/2	6"	6			502-6T
23/64			0.3594	3.1/2	6"	6	500-623/64		
		U	0.3680	3.5/8	6"	6			502-6U
3/8			0.3750	3.5/8	6"	6	500-63/8		
		V	0.3772	3.5/8	6"	6			502-6V

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	500-6	501-6	502-6
		W	0.3858	3.3/4	6"	6			502-6W
25/64			0.3906	3.3/4	6"	6	500-625/64		
		X	0.3969	3.3/4	6"	6			502-6X
		Y	0.4039	3.7/8	6"	6			502-6Y
13/32			0.4063	3.7/8	6"	6	500-613/32		
		Z	0.4130	3.7/8	6"	6			502-6Z
27/64			0.4219	3.15/16	6"	6	500-627/64		
7/16			0.4375	4.1/16	6"	6	500-67/16		
29/64			0.4531	4.3/16	6"	6	500-629/64		
15/32			0.4687	4.5/16	6"	6	500-615/32		
31/64			0.4844	4.3/8	6"	6	500-631/64		
1/2			0.5000	4.1/2	6"	6	500-61/2		

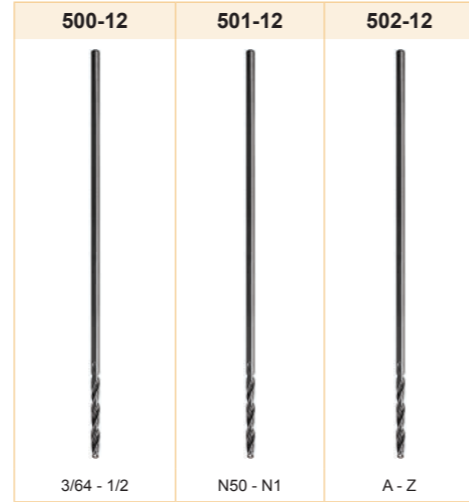
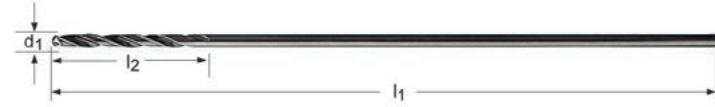
# 500-12 501-12 502-12

• Havacılık uzatma matkapları - 12 inç Tip B

500-12; 501-12; 502-12	1.5	1.6	2.2	2.3	3.4	4.1	4.2	4.3	5.1	6.4	7.4
	1.3	1.4	2.1	3.1	3.2	3.3	5.2	5.3	6.3	9.1	

500-12  
501-12  
502-12

HSS NAS 907 4XD 135° ST



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	500-12	501-12	502-12
3/64			0.0469	3/4	12"	12	500-123/64		
1/16			0.0625	7/8	12"	12	500-121/16		
	50		0.0700	1"	12"	12		501-12N50	
	49		0.0730	1"	12"	12		501-12N49	
	48		0.0760	1"	12"	12		501-12N48	
5/64			0.0781	1"	12"	12	500-125/64		
	47		0.0785	1"	12"	12		501-12N47	
	46		0.0810	1.1/8	12"	12		501-12N46	
	45		0.0820	1.1/8	12"	12		501-12N45	
	44		0.0860	1.1/8	12"	12		501-12N44	
	43		0.0890	1.1/4	12"	12		501-12N43	
	42		0.0935	1.1/4	12"	12		501-12N42	
3/32			0.0938	1.1/4	12"	12	500-123/32		
	41		0.0960	1.3/8	12"	12		501-12N41	
	40		0.0980	1.3/8	12"	12		501-12N40	
	37		0.1040	1.7/16	12"	12		501-12N37	
	36		0.1065	1.7/16	12"	12		501-12N36	
7/64			0.1094	1.1/2	12"	12	500-127/64		
	31		0.1200	1.5/8	12"	12		501-12N31	
1/8			0.1250	1.5/8	12"	12	500-121/8		
	30		0.1285	1.5/8	12"	12		501-12N30	
	29		0.1360	1.3/4	12"	12		501-12N29	
9/64			0.1406	1.3/4	12"	12	500-129/64		
	27		0.1440	1.7/8	12"	12		501-12N27	
	26		0.1470	1.7/8	12"	12		501-12N26	
	25		0.1495	1.7/8	12"	12		501-12N25	
	23		0.1540	2"	12"	12		501-12N23	
5/32			0.1563	2"	12"	12	500-125/32		
	22		0.1570	2"	12"	12		501-12N22	
	21		0.1590	2.1/8	12"	12		501-12N21	
	20		0.1610	2.1/8	12"	12		501-12N20	
	19		0.1660	2.1/8	12"	12		501-12N19	
	18		0.1695	2.1/8	12"	12		501-12N18	
11/64			0.1719	2.1/8	12"	12	500-1211/64		

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø letter	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	500-12	501-12	502-12
	17		0.1730	2.3/16	12"	12		501-12N17	
	16		0.1770	2.3/16	12"	12		501-12N16	
	13		0.1850	2.5/16	12"	12		501-12N13	
3/16			0.1875	2.5/16	12"	6	500-123/16		
	12		0.1890	2.5/16	12"	6		501-12N12	
	11		0.1910	2.5/16	12"	6		501-12N11	
	10		0.1935	2.7/16	12"	6		501-12N10	
	9		0.1960	2.7/16	12"	6		501-12N9	
	7		0.2010	2.7/16	12"	6		501-12N7	
13/64			0.2031	2.7/16	12"	6	500-1213/64		
	5		0.2055	2.1/2	12"	6		501-12N5	
	4		0.2090	2.1/2	12"	6		501-12N4	
	3		0.2130	2.1/2	12"	6		501-12N3	
7/32			0.2188	2.1/2	12"	6	500-127/32		
	1		0.2280	2.5/8	12"	6		501-12N1	
		A	0.2340	2.5/8	12"	6			502-12A
15/64			0.2344	2.5/8	12"	6	500-1215/64		
		B	0.2374	2.3/4	12"	6			502-12B
		C	0.2421	2.3/4	12"	6			502-12C
		D	0.2461	2.3/4	12"	6			502-12D
		E	0.2500	2.3/4	12"	6			502-12E
1/4			0.2500	2.3/4	12"	6	500-121/4		
		F	0.2571	2.7/8	12"	6			502-12F
		G	0.2610	2.7/8	12"	6			502-12G
17/64			0.2656	2.7/8	12"	6	500-1217/64		
		H	0.2661	2.7/8	12"	6			502-12H
		I	0.2720	2.7/8	12"	6			502-12I
		J	0.2772	2.7/8	12"	6			502-12J
		K	0.2811	2.15/16	12"	6			502-12K
9/32			0.2813	2.15/16	12"	6	500-129/32		
		L	0.2902	2.15/16	12"	6			502-12L
		M	0.2949	3.1/16	12"	6			502-12M
19/64			0.2969	3.1/16	12"	6	500-1219/64		
		N	0.3020	3.1/16	12"	6			502-12N
5/16			0.3125	3.3/16	12"	6	500-125/16		
		O	0.3161	3.3/16	12"	6			502-12O
		P	0.3228	3.5/16	12"	6			502-12P
21/64			0.3281	3.5/16	12"	6	500-1221/64		
		Q	0.3319	3.7/16	12"	6			502-12Q
		R	0.3390	3.7/16	12"	6			502-12R
11/32			0.3437	3.7/16	12"	6	500-1211/32		
		S	0.3480	3.1/2	12"	3			502-12S
		T	0.3580	3.1/2	12"	3			502-12T
23/64			0.3594	3.1/2	12"	3	500-1223/64		
		U	0.3680	3.5/8	12"	3			502-12U
3/8			0.3750	3.5/8	12"	3	500-123/8		
		V	0.3772	3.5/8	12"	3			502-12V
		W	0.3858	3.3/4	12"	3			502-12W
25/64			0.3906	3.3/4	12"	3	500-1225/64		
		X	0.3969	3.3/4	12"	3			502-12X
		Y	0.4039	3.7/8	12"	3			502-12Y
13/32			0.4063	3.7/8	12"	3	500-1213/32		
		Z	0.4130	3.7/8	12"	3			502-12Z
27/64			0.4219	3.15/16	12"	3	500-1227/64		
7/16			0.4375	4.1/16	12"	3	500-127/16		
29/64			0.4531	4.3/16	12"	3	500-1229/64		
15/32			0.4687	4.5/16	12"	3	500-1215/32		
31/64			0.4844	4.3/8	12"	3	500-1231/64		
1/2			0.5000	4.1/2	12"	3	500-121/2		

<sup>1)</sup> Not Split Point

# R88CO R89CO

• Silindirik Şaftlı Matkaplar, Kısa Helis Tip D

R88CO; R89CO	▪	1.5	1.6	3.4	4.1	4.2	4.3	5.2										
	•	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	3.3	5.1	5.3	6.1	6.2	6.3	6.4	
		7.1	7.2	7.3	7.4	9.1												

R88CO R89CO

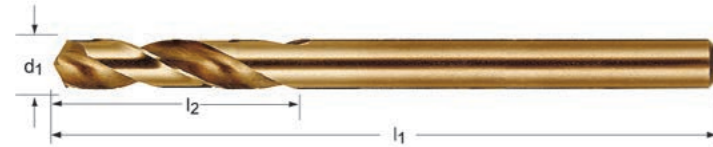
HSS-E

NAS  
907

3XD

135°

Bronze



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R88CO	R89CO
1/16		0.0625	7/16	1.7/8	12	R88CO1/16	
	52	0.0635	7/16	1.7/8	12		R89CON52
	51	0.0670	1/2	2"	12		R89CON51
	50	0.0700	1/2	2"	12		R89CON50
	49	0.0730	1/2	2"	12		R89CON49
5/64		0.0781	1/2	2"	12	R88CO5/64	
	46	0.0810	9/16	2.1/8	12		R89CON46
	45	0.0820	9/16	2.1/8	12		R89CON45
	44	0.0860	9/16	2.1/8	12		R89CON44
	43	0.0890	5/8	2.1/4	12		R89CON43
	42	0.0935	5/8	2.1/4	12		R89CON42
3/32		0.0938	5/8	2.1/4	12	R88CO3/32	
	41	0.0960	5/8	2.3/8	12		R89CON41
	40	0.0980	13/16	2.3/8	12		R89CON40
	39	0.0995	13/16	2.3/8	12		R89CON39
	36	0.1065	13/16	2.1/2	12		R89CON36
7/64		0.1094	13/16	2.5/8	12	R88CO7/64	
	31	0.1200	7/8	2.3/4	12		R89CON31
1/8		0.1250	7/8	2.3/4	12	R88CO1/8	
	30	0.1285	15/16	2.3/4	12		R89CON30
	29	0.1360	15/16	2.7/8	12		R89CON29
9/64		0.1406	15/16	2.7/8	12	R88CO9/64	
	27	0.1440	1"	3"	12		R89CON27
	26	0.1470	1"	3"	12		R89CON26
	25	0.1495	1"	3"	12		R89CON25
	24	0.1520	1"	3.1/8	12		R89CON24
5/32		0.1563	1"	3.1/8	12	R88CO5/32	
	22	0.1570	1.1/16	3.1/8	12		R89CON22
	21	0.1590	1.1/16	3.1/4	12		R89CON21
	20	0.1610	1.1/16	3.1/4	12		R89CON20
11/64		0.1719	1.1/16	3.1/4	12	R88CO11/64	
	16	0.1770	1.1/8	3.3/8	12		R89CON16
	13	0.1850	1.1/8	3.1/2	12		R89CON13
3/16		0.1875	1.1/8	3.1/2	12	R88CO3/16	
	12	0.1890	1.1/8	3.1/2	12		R89CON12
	11	0.1910	1.3/16	3.1/2	12		R89CON11

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	R88CO	R89CO
	10	0.1935	1.3/16	3.5/8	12		R89CON10
	9	0.1960	1.3/16	3.5/8	12		R89CON9
	8	0.1990	1.3/16	3.5/8	12		R89CON8
	7	0.2010	1.3/16	3.5/8	12		R89CON7
13/64		0.2031	1.3/16	3.5/8	12	R88CO13/64	
	6	0.2040	1.1/4	3.3/4	12		R89CON6
	5	0.2055	1.1/4	3.3/4	12		R89CON5
	3	0.2130	1.1/4	3.3/4	12		R89CON3
5/32		0.2188	1.1/4	3.3/4	12	R88CO5/32	
15/64		0.2344	1.5/16	3.7/8	12	R88CO15/64	
1/4		0.2500	1.3/8	4"	12	R88CO1/4	
17/64		0.2656	1.7/16	4.1/8	12	R88CO17/64	
9/32		0.2813	1.1/2	4.1/4	12	R88CO9/32	
19/64		0.2969	1.9/16	4.3/8	12	R88CO19/64	
5/16		0.3125	1.5/8	4.1/2	6	R88CO5/16	
21/64		0.3281	1.11/16	4.5/8	6	R88CO21/64	
11/32		0.3437	1.11/16	4.3/4	6	R88CO11/32	
23/64		0.3594	1.3/4	4.7/8	6	R88CO23/64	
3/8		0.3750	1.13/16	5"	6	R88CO3/8	
25/64		0.3906	1.7/8	5.1/8	6	R88CO25/64	
13/32		0.4063	1.15/16	5.1/4	6	R88CO13/32	
27/64		0.4219	2"	5.3/8	6	R88CO27/64	
7/16		0.4375	2.1/16	5.1/2	6	R88CO7/16	
29/64		0.4531	2.1/8	5.5/8	6	R88CO29/64	
15/32		0.4687	2.1/8	5.3/4	6	R88CO15/32	
31/64		0.4844	2.3/16	5.7/8	6	R88CO31/64	
1/2		0.5000	2.1/4	6"	6	R88CO1/2	

# R10CO R15CO R18CO 2ACO

• Silindirik Şaftlı Matkaplar

Tip J

R10CO; R15CO; R18CO; 2ACO	1.5	1.6	3.4	4.1	4.2	4.3	5.2	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	3.3	5.1	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	9.1
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**R10CO**  
**R15CO**  
**R18CO**

HSS-E NAS 907 4XD 135° Bronze

**2ACO**

HSS-E NAS 907 4XD 135° Bronze N



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø letter	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø mm	d <sub>1</sub> dec. Inch	l <sub>2</sub> Inch	l <sub>2</sub> mm	l <sub>1</sub> Inch	l <sub>1</sub> mm	Pack Qty	R10CO	R15CO	R18CO	2ACO
		80		0.0135	1/8		3/4		12			R18CON80	<sup>1)</sup>
		79		0.0145	1/8		3/4		12			R18CON79	<sup>1)</sup>
1/64				0.0156	3/16		3/4		12	R10CO1/64	<sup>1)</sup>		
		78		0.0160	3/16		7/8		12			R18CON78	<sup>1)</sup>
		77		0.0180	3/16		7/8		12			R18CON77	<sup>1)</sup>
		76		0.0200	3/16		7/8		12			R18CON76	<sup>1)</sup>
		75		0.0210	1/4		1"		12			R18CON75	<sup>1)</sup>
		74		0.0225	1/4		1"		12			R18CON74	<sup>1)</sup>
		73		0.0240	5/16		1.1/8		12			R18CON73	<sup>1)</sup>
		72		0.0250	5/16		1.1/8		12			R18CON72	<sup>1)</sup>
		71		0.0260	3/8		1.1/4		12			R18CON71	<sup>1)</sup>
		70		0.0280	3/8		1.1/4		12			R18CON70	<sup>1)</sup>
		69		0.0292	1/2		1.3/8		12			R18CON69	<sup>1)</sup>
		68		0.0310			1.3/8		12			R18CON68	<sup>1)</sup>
1/32				0.0313	1/2		1.3/8		12	R10CO1/32	<sup>1)</sup>		
		67		0.0320	1/2		1.3/8		12			R18CON67	<sup>1)</sup>
		66		0.0330	1/2		1.3/8		12			R18CON66	<sup>1)</sup>
		65		0.0350	5/8		1.1/2		12			R18CON65	<sup>1)</sup>
		64		0.0360	5/8		1.1/2		12			R18CON64	<sup>1)</sup>
		63		0.0370	5/8		1.1/2		12			R18CON63	<sup>1)</sup>
		62		0.0380	5/8		1.1/2		12			R18CON62	<sup>1)</sup>
		61		0.0390	11/16		1.5/8		12			R18CON61	<sup>1)</sup>
		60	1.00	0.0394		12		34	12				2ACO1.00
		59		0.0400	11/16		1.5/8		12			R18CON60	
		58	1.05	0.0410	11/16		1.5/8		12			R18CON59	
				0.0413		12		34	12				2ACO1.05
				0.0420	11/16		1.5/8		12			R18CON58	

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø letter	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø mm	d <sub>1</sub> dec. Inch	l <sub>2</sub> Inch	l <sub>2</sub> mm	l <sub>1</sub> Inch	l <sub>1</sub> mm	Pack Qty	R10CO	R15CO	R18CO	2ACO
		57		0.0430	3/4		1.3/4		12			R18CON57	
				1.10	0.0433		14	36	12				2ACO1.10
				1.15	0.0453		14	36	12				2ACO1.15
3/64		56		0.0465	3/4		1.3/4		12	R10CO3/64		R18CON56	
				0.0469	3/4		1.3/4		12				
				1.20	0.0472		16	38	12				2ACO1.20
				1.25	0.0492		16	38	12				2ACO1.25
				1.30	0.0512		16	38	12				2ACO1.30
		55		0.0520	7/8		1.7/8		12			R18CON55	
				0.0531			18	40	12				2ACO1.35
				0.0551			18	40	12				2ACO1.40
		54		0.0550	7/8		1.7/8		12			R18CON54	
				0.0571			18	40	12				2ACO1.45
				0.0591			18	40	12				2ACO1.50
		53		0.0595	7/8		1.7/8		12			R18CON53	
				0.0610			20	43	12				2ACO1.55
1/16				0.0625	7/8		1.7/8		12	R10CO1/16			
				0.0630			20	43	12				2ACO1.60
		52		0.0635	7/8		1.7/8		12			R18CON52	
				0.0650			20	43	12				2ACO1.65
				0.0669			20	43	12				2ACO1.70
		51		0.0670	1"		2"		12			R18CON51	
				0.0689			22	46	12				2ACO1.75
		50		0.0700	1"		2"		12			R18CON50	
				0.0709			22	46	12				2ACO1.80
				0.0728			22	46	12				2ACO1.85
		49		0.0730	1"		2"		12			R18CON49	
				0.0748			22	46	12				2ACO1.90
		48		0.0760	1"		2"		12			R18CON48	
				0.0768			24	49	12				2ACO1.95
5/64				0.0781	1"		2"		12	R10CO5/64			
				0.0785					12			R18CON47	
				0.0787			24	49	12				2ACO2.00
				0.0807			24	49	12				2ACO2.05
		46		0.0810	1.1/8		2.1/8		12			R18CON46	
		45		0.0820	1.1/8		2.1/8		12			R18CON45	
				0.0827			24	49	12				2ACO2.10
		44		0.0860	1.1/8		2.1/8		12			R18CON44	
				0.0866			27	53	12				2ACO2.20
		43		0.0890	1.1/4		2.1/4		12			R18CON43	
				0.0906			27	53	12				2ACO2.30
				0.0925			27	53	12				2ACO2.35
		42		0.0935	1.1/4		2.1/4		12			R18CON42	
3/32				0.0938	1.1/4		2.1/4		12	R10CO3/32			
				0.0945			30	57	12				2ACO2.40
		41		0.0960	1.3/8		2.3/8		12			R18CON41	
		40		0.0980	1.3/8		2.3/8		12			R18CON40	
				0.0984			30	57	12				2ACO2.50
		39		0.0995	1.3/8		2.3/8		12			R18CON39	
		38		0.1015	1.7/16		2.1/2		12			R18CON38	
				0.1024			30	57	12				2ACO2.60
		37		0.1040	1.7/16		2.1/2		12			R18CON37	
				0.1063			33	61	12				2ACO2.70
		36		0.1065	1.7/16		2.1/2		12			R18CON36	
7/64				0.1094	1.1/2		2.5/8		12	R10CO7/64			
				0.1100	1.1/2		2.5/8		12			R18CON35	
				0.1102			33	61	12				2ACO2.80
		34		0.1110	1.1/2		2.5/8		12			R18CON34	
		33		0.1130	1.1/2		2.5/8		12			R18CON33	
				0.1142			33	61	12				2ACO2.90
		32		0.1160	1.5/8		2.3/4		12			R18CON32	
				0.1181			33	61	12				2ACO3.00
		31		0.1200	1.5/8		2.3/4		12			R18CON31	
				0.1220			36	65	12				2ACO3.10
1/8				0.1250	1.5/8		2.3/4		12	R10CO1/8			
				0.1260			36	65	12				2ACO3.20
				0.1280			36	65	12				2ACO3.25
		30		0.1285	1.5/8		2.3/4		12			R18CON30	
				0.1299			36	65	12				2ACO3.30
				0.1339			39	70	12				2ACO3.40

<sup>1)</sup> Not Split Point

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø letter	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø mm	d <sub>1</sub> dec. Inch	l <sub>2</sub> Inch	l <sub>2</sub> mm	l <sub>1</sub> Inch	l <sub>1</sub> mm	Pack Qty	R10CO	R15CO	R18CO	2ACO
		29	3.50	0.1360	1.3/4	39	2.7/8	70	12			R18CON29	2ACO3.50
9/64		28	3.60	0.1378	1.3/4	39	2.7/8	70	12			R18CON28	2ACO3.60
				0.1405	1.3/4		2.7/8		12	R10CO9/64			
				0.1406	1.3/4		2.7/8		12				2ACO3.60
		27	3.70	0.1417	1.7/8	39	3"	70	12			R18CON27	2ACO3.70
				0.1457	1.7/8		3"		12			R18CON26	2ACO3.75
		26	3.75	0.1470	1.7/8	39	3"	70	12				2ACO3.80
				0.1476					12				2ACO3.80
				0.1496					12				
		25	4.00	0.1495	1.7/8	43	3"	75	12			R18CON25	
				0.1520	2"		3.1/8		12			R18CON24	
		24	4.20	0.1540	2"	43	3.1/8	75	12			R18CON23	
5/32		23	4.25	0.1563	2"	43	3.1/8	75	12	R10CO5/32			
				0.1570	2"		3.1/8		12			R18CON22	2ACO4.00
		22	4.30	0.1575	2.1/8	43	3.1/4	75	12			R18CON21	
				0.1590	2.1/8		3.1/4		12			R18CON20	2ACO4.10
		21	4.40	0.1610	2.1/8	43	3.1/4	75	12				2ACO4.20
				0.1614					12				2ACO4.20
				0.1654					12			R18CON19	
		19	4.25	0.1660	2.1/8	43	3.1/4	75	12				2ACO4.25
				0.1673					12				2ACO4.30
				0.1693					12				
		18	4.30	0.1695	2.1/8	47	3.1/4	80	12			R18CON18	
11/64				0.1719	2.1/8		3.1/4		12	R10CO11/64			
				0.1730	2.3/16		3.3/8		12			R18CON17	
		17	4.40	0.1732	2.3/16	47	3.3/8	80	12				2ACO4.40
				0.1772					12				2ACO4.50
				0.1770	2.3/16		3.3/8		12			R18CON16	
		16	4.50	0.1800	2.3/16	47	3.3/8	80	12			R18CON15	
				0.1820	2.3/16		3.3/8		12			R18CON14	
				0.1850	2.5/16		3.1/2		12			R18CON13	2ACO4.70
3/16			4.70	0.1850	2.5/16	47	3.1/2	80	12	R10CO3/16			
				0.1875	2.5/16		3.1/2		12				
		12	4.80	0.1890	2.5/16	52	3.1/2	86	12			R18CON12	2ACO4.80
				0.1890					12				
				0.1910	2.5/16		3.1/2		12			R18CON11	
		11	5.00	0.1935	2.7/16	52	3.5/8	86	12			R18CON10	
				0.1960	2.7/16		3.5/8		12			R18CON9	2ACO5.00
		8	5.10	0.1969	2.7/16	52	3.5/8	86	12			R18CON8	2ACO5.10
				0.1990					12				
				0.2008					12			R18CON7	
13/64		7	5.20	0.2010	2.7/16	52	3.5/8	86	12	R10CO13/64			
				0.2031	2.7/16		3.5/8		12				
		6	5.25	0.2040	2.1/2	52	3.3/4	86	12			R18CON6	2ACO5.20
				0.2047					12				2ACO5.20
				0.2055	2.1/2		3.3/4		12			R18CON5	2ACO5.25
		5	5.30	0.2067	2.1/2	52	3.3/4	86	12				2ACO5.30
				0.2087					12				
				0.2090	2.1/2		3.3/4		12			R18CON4	
		4	5.50	0.2130	2.1/2	57	3.3/4	93	12			R18CON3	2ACO5.50
7/32				0.2165	2.1/2		3.3/4		12	R10CO7/32			
				0.2188					12				
				0.2205					12				2ACO5.60
		2	5.70	0.2210	2.5/8	57	3.7/8	93	12			R18CON2	2ACO5.70
				0.2244					12				2ACO5.70
				0.2280	2.5/8		3.7/8		12			R18CON1	2ACO5.90
		1	5.90	0.2323	2.5/8	57	3.7/8	93	12				2ACO5.90
15/64	A		6.00	0.2340	2.5/8	57	3.7/8	93	12	R10CO15/64	R15COA		
				0.2344	2.5/8		3.7/8		12				
	B		6.10	0.2362	2.3/4	63	4"	101	12			R15COB	2ACO6.00
				0.2374					12				
	C		6.20	0.2402	2.3/4	63	4"	101	12			R15COC	2ACO6.10
				0.2421					12				
	D		6.30	0.2441	2.3/4	63	4"	101	12			R15COD	2ACO6.20
				0.2461					12				
				0.2480					12				2ACO6.30
1/4				0.2500	2.3/4	63	4"	101	12	R10CO1/4			
	E			0.2500	2.3/4	63	4"	101	12		R15COE		
				0.2520					12				2ACO6.40

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø letter	d <sub>1</sub> Ø Nr.	d <sub>1</sub> Ø mm	d <sub>1</sub> dec. Inch	l <sub>2</sub> Inch	l <sub>2</sub> mm	l <sub>1</sub> Inch	l <sub>1</sub> mm	Pack Qty	R10CO	R15CO	R18CO	2ACO
			6.50	0.2559	2.7/8	63	4.1/8	101	12				2ACO6.50
	F			0.2571	2.7/8	63	4.1/8	101	12		R15COF		2ACO6.60
			6.60	0.2598	2.7/8	63	4.1/8	101	12				2ACO6.60
	G			0.2610	2.7/8	63	4.1/8	101	12		R15COG		2ACO6.70
			6.70	0.2638	2.7/8	63	4.1/8	101	12				2ACO6.70
17/64				0.2656	2.7/8	69	4.1/8	109	12	R10CO17/64			
				0.2661	2.7/8	69	4.1/8	109	12		R15COH		2ACO6.80
				0.2677					12				2ACO6.90
				0.2717					12				2ACO6.90
	I			0.2720	2.7/8	69	4.1/8	109	12		R15COI		2ACO7.00
				0.2756	2.7/8	69	4.1/8	109	12				2ACO7.00
	J			0.2772	2.7/8	69	4.1/8	109	12		R15COJ		2ACO7.10
				0.2795					12				2ACO7.10
9/32				0.2811	2.15/16	69	4.1/4	109	12	R10CO9/32	R15COK		
				0.2813	2.15/16	69	4.1/4	109	12				2ACO7.20
				0.2835					12				2ACO7.25
				0.2854					12				2ACO7.25
				0.2874					12				2ACO7.30
				0.2902	2.15/16	69	4.1/4	109	12		R15COL		
	M			0.2949	3.1/16	69	4.3/8	109	12		R15COM		
				0.2953					12				2ACO7.50
19/64				0.2969	3.1/16	69	4.3/8	109	12	R10CO19/64			
				0.3020	3.1/16	69	4.3/8	109	12		R15CON		
				0.3071					12				2ACO7.80
				0.3110					12				2ACO7.90
5/16				0.3125	3.3/16	75	4.1/2	117	6	R10CO5/16			2ACO8.00
				0.3150					6				2ACO8.00
	O			0.3161	3.3/16	75	4.1/2	117	6		R15COO		
				0.3228	3.5/16	75	4.5/8	117	6		R15COP		2ACO8.20
	P			0.3228					6				
21/64				0.3281	3.5/16	75	4.5/8	117	6	R10CO21/64			
				0.3307					6				2ACO8.40
	Q			0.3319	3.7/16	75	4.3/4	117	6		R15COQ		
				0.3346					6				2ACO8.50
				0.3390	3.7/16	75	4.3/4	117	6		R15COR		
11/32				0.3437	3.7/16	81	4.3/4	125	6	R10CO11/32			
				0.3465					6				2ACO8.80
	S			0.3480	3.1/2	81	4.7/8	125	6		R15COS		
				0.3504					6				2ACO8.90
				0.3543					6				2ACO9.00
				0.3580	3.1/2	81	4.7/8	125	6		R15COT		
				0.3583					6				2ACO9.10
23/64				0.3594	3.1/2	81	4.7/8	125	6	R10CO23/64			
				0.3622					6				2ACO9.20
				0.3661					6				2ACO9.30
				0.3680	3.5/8	81	5"	125	6		R15COU		
				0.3701					6				2ACO9.40
				0.3740					6				2ACO9.50
3/8				0.3750	3.5/8	81	5"	125	6	R10CO3/8			
				0.3772	3.5/8	81	5"	125	6		R15COV		
				0.3780					6				2ACO9.60
				0.3819					6				2ACO9.70
				0.3858	3.3/4	87	5.1/8	133	6		R15COW		2ACO9.80
				0.3858					6				
25/64				0.3906	3.3/4	87	5.1/8	133	6	R10CO25/64			
				0.3937					6				2ACO10.00
				0.3969	3.3/4	87	5.1/8	133	6		R15COX		
				0.4016					6				2ACO10.20
				0.4039	3.7/8	87	5.1/4	133	6		R15COY		
13/32				0.4063	3.7/8	87	5.1/4	133	6	R10CO13/32			
	</												





d <sub>1</sub> ∅ Inch	d <sub>1</sub> ∅ letter	d <sub>1</sub> ∅ Nr.	d <sub>1</sub> ∅ mm	d <sub>1</sub> dec. Inch	l <sub>2</sub> Inch	l <sub>2</sub> mm	l <sub>1</sub> Inch	l <sub>1</sub> mm	Pack Qty	R10CO	R15CO	R18CO	2ACO
15/32				0.4687	4.5/16		5.3/4		6	R10CO15/32			
			12.00	0.4724		101		151	6				2ACO12.00
			12.20	0.4803		101		151	6				2ACO12.20
31/64				0.4844	4.3/8		5.7/8		6	R10CO31/64			
			12.50	0.4921		101		151	6				2ACO12.50
1/2				0.5000	4.1/2		6"		6	R10CO1/2			
			13.00	0.5118		101		151	1				2ACO13.00
33/64				0.5156	4.13/16		6.5/8		1	R10CO33/64			
17/32				0.5313	4.13/16		6.5/8		1	R10CO17/32			
35/64				0.5469	4.13/16		6.5/8		1	R10CO35/64			
9/16				0.5625	4.13/16		6.5/8		1	R10CO9/16			
37/64				0.5781	4.13/16		6.5/8		1	R10CO37/64			
19/32				0.5937	5.3/16		7.1/8		1	R10CO19/32			
39/64				0.6094	5.3/16		7.1/8		1	R10CO39/64			
5/8				0.6250	5.3/16		7.1/8		1	R10CO5/8			
41/64				0.6406	5.3/16		7.1/8		1	R10CO41/64			
21/32				0.6563	5.3/16		7.1/8		1	R10CO21/32			
43/64				0.6719	5.5/8		7.5/8		1	R10CO43/64			
11/16				0.6875	5.5/8		7.5/8		1	R10CO11/16			



# CO500-6 CO501-6 CO500-12 CO501-12

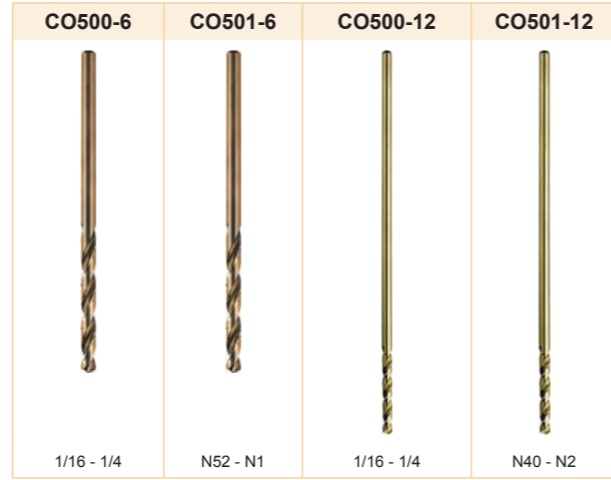
• Havacılık uzatma matkapları

Tip J

CO500-6; CO501-6; CO500-12; CO501-12	1.6	3.4	4.3	5.2				
	2.1	2.2	2.3	2.4	3.1	3.2	3.3	5.3

CO500-6  
CO501-6  
CO500-12  
CO501-12

HSS-E NAS 907 4XD 135°  
Bronze



d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	CO500-6	CO501-6	CO500-12	CO501-12
1/16		0.0625	7/8	12"	12			CO500-121/16	
1/16		0.0625	7/8	6"	12	CO500-61/16			
	52	0.0635	7/8	6"	12		CO501-6N52		
	51	0.0670	1"	6"	12		CO501-6N51		
	50	0.0700	1"	6"	12		CO501-6N50		
	49	0.0730	1"	6"	12		CO501-6N49		
	48	0.0760	1"	6"	12		CO501-6N48		
5/64		0.0781	1"	12"	12			CO500-125/64	
5/64		0.0781	1"	6"	12	CO500-65/64			
	47	0.0785	1"	6"	12		CO501-6N47		
	46	0.0810	1.1/8	6"	12		CO501-6N46		
	45	0.0820	1.1/8	6"	12		CO501-6N45		
	44	0.0860	1.1/8	6"	12		CO501-6N44		
	43	0.0890	1.1/4	6"	12		CO501-6N43		
	42	0.0935	1.1/4	6"	12		CO501-6N42		
3/32		0.0938	1.1/4	12"	12			CO500-123/32	
3/32		0.0938	1.1/4	6"	12	CO500-63/32			
	41	0.0960	1.3/8	6"	12		CO501-6N41		
	40	0.0980	1.3/8	12"	12				CO501-12N40
	40	0.0980	1.3/8	6"	12		CO501-6N40		
	39	0.0995	1.3/8	6"	12		CO501-6N39		
	38	0.1015	1.7/16	6"	12		CO501-6N38		
	37	0.1040	1.7/16	6"	12		CO501-6N37		
	36	0.1065	1.7/16	6"	12		CO501-6N36		
7/64		0.1094	1.1/2	12"	12			CO500-127/64	
7/64		0.1094	1.1/2	6"	12	CO500-67/64			
	35	0.1100	1.1/2	6"	12		CO501-6N35		
	34	0.1110	1.1/2	6"	12		CO501-6N34		
	33	0.1130	1.1/2	6"	12		CO501-6N33		
	32	0.1160	1.5/8	6"	12		CO501-6N32		
	31	0.1200	1.5/8	6"	12		CO501-6N31		
1/8		0.1250	1.5/8	12"	12			CO500-121/8	
1/8		0.1250	1.5/8	6"	12	CO500-61/8			
	30	0.1285	1.5/8	12"	12				CO501-12N30

d <sub>1</sub> Ø Inch	d <sub>1</sub> Ø Nr.	d <sub>1</sub> decimal Inch	l <sub>2</sub> Inch	l <sub>1</sub> Inch	Pack Qty	CO500-6	CO501-6	CO500-12	CO501-12
	30	0.1285	1.5/8	6"	12		CO501-6N30		
	29	0.1360	1.3/4	12"	12				CO501-12N29
	29	0.1360	1.3/4	6"	12		CO501-6N29		
	28	0.1405	1.3/4	6"	12		CO501-6N28		
9/64		0.1406	1.3/4	12"	12			CO500-129/64	
9/64		0.1406	1.3/4	6"	12	CO500-69/64			
	27	0.1440	1.7/8	12"	12				CO501-12N27
	27	0.1440	1.7/8	6"	12		CO501-6N27		
	26	0.1470	1.7/8	6"	12		CO501-6N26		
	25	0.1495	1.7/8	6"	12		CO501-6N25		
	24	0.1520	2"	6"	12		CO501-6N24		
	23	0.1540	2"	6"	12		CO501-6N23		
5/32		0.1563	2"	12"	12			CO500-125/32	
5/32		0.1563	2"	6"	12	CO500-65/32			
	22	0.1570	2"	6"	12		CO501-6N22		
	21	0.1590	2.1/8	12"	12				CO501-12N21
	21	0.1590	2.1/8	6"	12		CO501-6N21		
	20	0.1610	2.1/8	12"	12				CO501-12N20
	20	0.1610	2.1/8	6"	12		CO501-6N20		
	19	0.1660	2.1/8	12"	12				CO501-12N19
	19	0.1660	2.1/8	6"	12		CO501-6N19		
	18	0.1695	2.1/8	6"	12		CO501-6N18		
11/64		0.1719	2.1/8	12"	12			CO500-1211/64	
11/64		0.1719	2.1/8	6"	12	CO500-611/64			
	17	0.1730	2.3/16	6"	12		CO501-6N17		
	16	0.1770	2.3/16	12"	12				CO501-12N16
	16	0.1770	2.3/16	6"	12		CO501-6N16		
	15	0.1800	2.3/16	6"	12		CO501-6N15		
	14	0.1820	2.3/16	6"	12		CO501-6N14		
	13	0.1850	2.5/16	6"	12		CO501-6N13		
3/16		0.1875	2.5/16	12"	6			CO500-123/16	
3/16		0.1875	2.5/16	6"	12	CO500-63/16			
	12	0.1890	2.5/16	6"	12		CO501-6N12		
	11	0.1910	2.5/16	12"	12				CO501-12N11
	11	0.1910	2.5/16	6"	12		CO501-6N11		
	10	0.1935	2.7/16	12"	6				CO501-12N10
	10	0.1935	2.7/16	6"	12		CO501-6N10		
	9	0.1960	2.7/16	6"	12		CO501-6N9		
	8	0.1990	2.7/16	6"	12		CO501-6N8		
	7	0.2010	2.7/16	6"	12		CO501-6N7		
13/64		0.2031	2.7/16	12"	6			CO500-1213/64	
13/64		0.2031	2.7/16	6"	12	CO500-613/64			
	6	0.2040	2.1/2	6"	12		CO501-6N6		
	5	0.2055	2.1/2	6"	12		CO501-6N5		
	4	0.2090	2.1/2	6"	12		CO501-6N4		
	3	0.2130	2.1/2	6"	12		CO501-6N3		
7/32		0.2188	2.1/2	12"	6			CO500-127/32	
7/32		0.2188	2.1/2	6"	12	CO500-67/32			
	2	0.2210	2.5/8	12"	6				CO501-12N2
	2	0.2210	2.5/8	6"	12		CO501-6N2		
	1	0.2280	2.5/8	6"	12		CO501-6N1		
15/64		0.2344	2.5/8	12"	6			CO500-1215/64	
15/64		0.2344	2.5/8	6"	12	CO500-615/64			
1/4		0.2500	2.3/4	12"	6			CO500-121/4	
1/4		0.2500	2.3/4	6"	12	CO500-61/4			

## ULUSAL HAVACILIK SPESİFİKASYON ÖZETİ

<b>NAS 907 Tip A</b>	
Ölçü Aralığı	Ø1/16" - Ø1/2"
Malzeme	HSS (M-2 veya M-7)
Şaft Seçenekleri	Düz, 3 düzlüklü, çabuk değiştirilebilir, düşürülmüş şaft, 3 düzlüklü düşürülmüş şaft, Tanj
Yüzey İşlemi	Parlak finiş standartı, oksit veya müşteri tarafından belirtilen diğer opsiyonel finiş
Web Yapısı	Kalınlık inç başına 0.017" ± 0.003" düzenli olarak artar
Arka Konik	Tüm çaplar için inç başına 0.0002" ile 0.0005"
Uç Tipi	P-5 (118°) uç açısı, genel amaçlı
Uzunluklar	Silindirik Uzunluk - standart, 6" ve 12" Havacılık Uzatma Uzunlukları - opsiyonel
<b>NAS 907 Tip B</b>	
Ölçü Aralığı	Ø1/16" - Ø1/2"
Malzeme	HSS (M-2 veya M-7)
Şaft Seçenekleri	Düz, 3 düzlüklü, çabuk değiştirilebilir, düşürülmüş şaft, 3 düzlüklü düşürülmüş şaft, Tanj
Yüzey İşlemi	Parlak finiş standartı, oksit veya müşteri tarafından belirtilen diğer opsiyonel finiş
Web Yapısı	Kalınlık inç başına 0.024" ± 0.003" düzenli olarak artar
Uç Tipi	P-3 (135°) uç açısı, genel amaçlı
Uzunluklar	Silindirik Uzunluk - standart, 6" ve 12" Havacılık Uzatma Uzunlukları - opsiyonel
<b>NAS 907 Tip C</b>	
Ölçü Aralığı	Ø1/16" - Ø1/2"
Malzeme	HSS (M-2 veya M-7)
Şaft Seçenekleri	Düz, 3 düzlüklü, çabuk değiştirilebilir, düşürülmüş şaft, 3 düzlüklü düşürülmüş şaft, Tanj
Yüzey İşlemi	Parlak finiş standartı, oksit veya müşteri tarafından belirtilen diğer opsiyonel finiş
Web Yapısı	Kalınlık inç başına 0.024" ± 0.003" düzenli olarak artar
Uç Tipi	P-3 (135°) uç açısı, genel amaçlı
Uzunluklar	Vidalı Makine Uzunluk standartı
<b>NAS 907 Tip D</b>	
Ölçü Aralığı	Ø1/16" - Ø1/2"
Malzeme	HSCo (M33 veya M42)
Şaft Seçenekleri	Düz, 3 düzlüklü, çabuk değiştirilebilir, düşürülmüş şaft, 3 düzlüklü düşürülmüş şaft, Tanj
Yüzey İşlemi	Bronz oksit finiş standartı, müşteri tarafından belirtilen opsiyonel finişler
Web Yapısı	Kalınlık inç başına 0.027" ± 0.003" düzenli olarak artar
Uç Tipi	P-9 (135°) uç açısı, zor görevler için
Uzunluklar	Silindirik Uzunluk - standart, 6" ve 12" Havacılık Uzatma Uzunlukları - opsiyonel
<b>NAS 907 Tip J</b>	
Ölçü Aralığı	Ø1/16" - Ø1/2"
Malzeme	HSCo (M33 veya M42)
Şaft Seçenekleri	Düz, 3 düzlüklü, çabuk değiştirilebilir, düşürülmüş şaft, 3 düzlüklü düşürülmüş şaft, Tanj
Yüzey İşlemi	Bronz oksit finiş standartı, müşteri tarafından belirtilen opsiyonel finişler
Web Yapısı	Kalınlık inç başına 0.006" ± 0.002" düzenli olarak artar
Uç Tipi	P-3 (135°) uç açısı, genel amaçlı
Uzunluklar	Silindirik Uzunluk - standart, 6" ve 12" Havacılık Uzatma Uzunlukları - opsiyonel
<b>NAS 965 Tip B</b>	
Ölçü Aralığı	Ø1/16" - ØF
Malzeme	HSS (M-2 veya M-7)
Şaft Seçenekleri	1/4-28 UNF Dişli Altgen (5/16" Anahtar Düzlükleri)
Yüzey İşlemi	Oksit finiş standartı, müşteri tarafından belirtilen diğer opsiyonel finişler
Web Yapısı	Kalınlık inç başına 0.024" ± 0.003" düzenli olarak artar
Uç Tipi	P-3 (135°) uç açısı, genel amaçlı
Uzunluklar	Sac, kısa ve uzun (2-1/8" O.A.L.) serileri mevcuttur

Malzeme



Yüksek Hız Çeliği



Kobaltlı Yüksek Hız Çeliği

Kaplama



Buharla Sertleştirilmiş



Bronz

Yön



Sağ

Rating



Mükemmel Seçim



İyi Seçim

Boy



Delme Açısı



Form



Standard



Şaft



Silindirik Şaft



Dişli Altıgen Şaft

# SIMPLY RELIABLE

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## Argentina

T: 54 (11) 6777-6777  
F: 54 (11) 4441-4467  
info.ar@dormerpramet.com

## Australia

T: 1300 131 274  
F: 1300 809 510  
info.au@dormerpramet.com

## Austria

T: +31 10 2080 240  
F: +31 10 2080 282  
info.at@dormerpramet.com

## Belgium & Luxembourg

T: +32 3 440 59 01  
F: +32 3 449 15 43  
info.be@dormerpramet.com

## Brazil

T: +55 11 5660 3000  
F: +55 11 5667 5883  
info.br@dormerpramet.com

## Canada

T: (888) 336 7637  
En Français: (888) 368 8457  
F: (905) 542 7000  
cs.canada@dormerpramet.com

## China

T: +86 21 2416 0508  
F: +86 21 5442 6315  
info.cn@dormerpramet.com

## Croatia

T: +385 98 407 489  
info.hr@dormerpramet.com

## Czech Republic

T: +420 583 381 111  
F: +420 583 215 401  
info.cz@dormerpramet.com

## Denmark

T: 808 82106  
F: +46 35 16 52 90  
info.se@dormerpramet.com

## Finland

T: 0205 44 7003  
F: 0205 44 7004  
info.fi@dormerpramet.com

## France

T: +33 (0)2 47 62 57 01  
F: +33 (0)2 47 62 52 00  
info.fr@dormerpramet.com

## Germany

T: +49 9131 933 08 70  
F: +49 9131 933 08 742  
info.de@dormerpramet.com

## Hungary

T: +36-96 / 522-846  
F: +36-96 / 522-847  
info.hu@dormerpramet.com

## India

T: +91 11 4601 5686  
info.in@dormerpramet.com

## Italy

T: +39 02 38 04 51  
F: +39 02 38 04 52 43  
info.it@dormerpramet.com

## Kazakhstan

T: +7 771 305 11 45  
info.kz@dormerpramet.com

## Mexico

T: +52 (555) 7293981  
F: +52 (555) 7293981  
cs.mexico@dormerpramet.com

## Netherlands

T: +31 10 2080 240  
F: +31 10 2080 282  
info.nl@dormerpramet.com

## New Zealand

T: 0800 800 922  
info.int@dormerpramet.com

## Norway

T: 800 10 113  
F: +46 35 16 52 90  
info.se@dormerpramet.com

## Poland

T: +48 32 78-15-890  
F: +48 32 78-60-406  
info.pl@dormerpramet.com

## Portugal

T: +351 21 424 54 21  
F: +351 21 424 54 25  
info.pt@dormerpramet.com

## Romania

T: +4(0)730 015 885  
info.ro@dormerpramet.com

## Russia

T: +7 495 775 10 28  
F: +7 (499) 763 38 90  
info.ru@dormerpramet.com

## Slovakia

T: +421 (41) 764 54 60  
F: +421 (41) 763 74 49  
info.sk@dormerpramet.com

## Slovenia

T: +385 98 407 489  
info.si@dormerpramet.com

## Spain

T: +34 935717722  
F: +34 935717765  
info.es@dormerpramet.com

## Sweden

responsible for **Iceland**  
T: +46 35 16 52 96  
F: +46 35 16 52 90  
info.se@dormerpramet.com

## Switzerland

T: +31 10 2080 240  
F: +31 10 2080 282  
info.ch@dormerpramet.com

## Turkey

T: +90 533 212 45 47  
info.tr@dormerpramet.com

## Ukraine

T: +38 056 376 51 19  
F: +38 056 376 51 20  
info.ua@dormerpramet.com

## United Kingdom

responsible for **Ireland**  
T: 0870 850 4466  
F: 0870 850 8866  
info.uk@dormerpramet.com

## United States of America

T: (800) 877-3745  
F: (847) 783-5760  
cs@dormerpramet.com

## Other countries

### South America

T: +55 11 5660 3000  
F: +55 11 5667 5883  
info.br@dormerpramet.com

### Central and Eastern Europe

T: +420 583 381 526  
F: +420 583 381 401  
info.rcee@dormerpramet.com

### Rest of the World





Dormer Pramet International UK  
T: +44 1246 571338  
F: +44 1246 571339  
info.int@dormerpramet.com

### Dormer Pramet International CZ

T: +420 583 381 520  
F: +420 583 215 401  
info.int.cz@dormerpramet.com

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