

MS SERİSİ MATKAP UCU

GENEL KULLANIM AMAÇLI



MS MATKAP UCU

YEKPARE KARBÜR MATKAP UCU SERİSİ



Kaliteli takımlama için seçenek ve performans oranına göre süper fiyat. Modern metal kesme dünyasının ihtiyaçları için güvenilir karbür ve kaplama teknolojisinin çok yönlü bir kombinasyonu.

Onlarca yıl süren üretim bilgisi ile kesme problemlerine
çözümlerimiz, kapsamlı ve daha uygun maliyetli takımlar sunmamıza olanak sağlamaktadır.



..... Titizlik isteyen DIN 6537' standartlarına göre üretilen bu MS matkap ucu çeşitleri ile kalite ve güvenilirliğe olan bağlılığımız sürüyor.

ÖZELLİKLER

YEKPARE KARBÜR MATKAP UCU SERİSİ

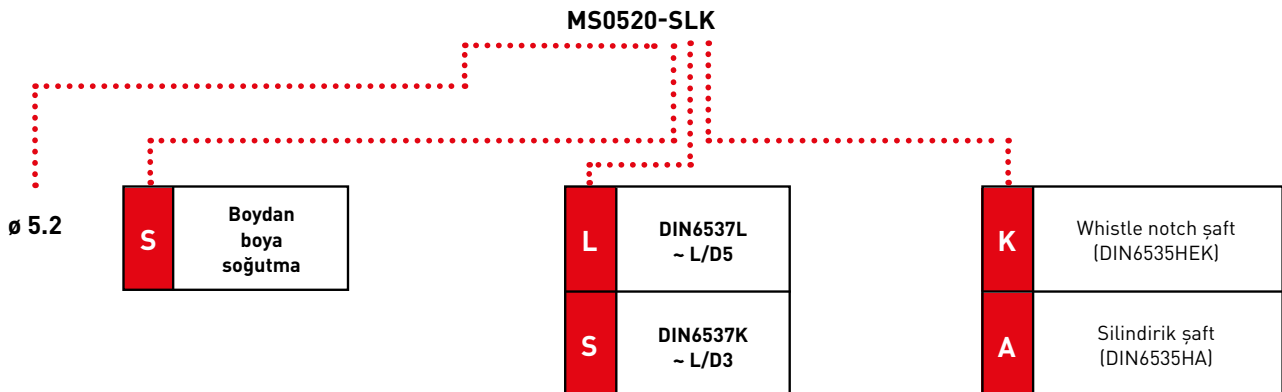


- İçten soğutma sıvı kanalı
- 3 x D ve 5 x D delme derinliği
- Sağlam kesme kenarı geometrisi
- Geniş aralıkta malzemeler için
- Whistle notch / silindirik şaft tipleri
- Süper mikro parçacıklı sinterlenmiş karbür
- Uzun takım ömrü için PVD kaplama



SİPARİŞ KOD TANIMI

MS○○○○○-S○○ (İçten soğutma)

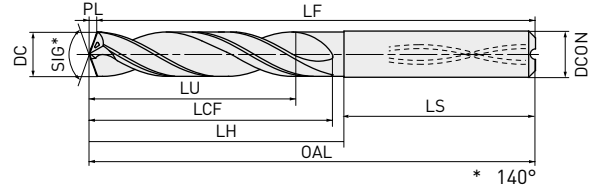


MS MATKAP UCU



SİLİNDİRİK

P M K



DC≤3	3<DC≤6	6<DC≤10	10<DC≤14
0.016	0.016	0.021	0.025
+0.004	+0.004	+0.006	+0.007

Sipariş Numarası	Stok	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0300-SSA	●	3.0	3	15	20	25	62	61	0.5	36	6
MS0300-SLA	●		5	23	28	29	66	65	0.5	36	6
MS0310-SSA	●	3.1	3	14.9	20	25	62	61	0.6	36	6
MS0310-SLA	●		5	22.9	28	29	66	65	0.6	36	6
MS0330-SSA	●	3.3	3	14.7	20	25	62	61	0.6	36	6
MS0330-SLA	●		5	22.7	28	29	66	65	0.6	36	6
MS0340-SSA	●	3.4	3	14.5	20	25	62	61	0.6	36	6
MS0340-SLA	●		5	22.5	28	29	66	65	0.6	36	6
MS0350-SSA	●	3.5	3	14.4	20	25	62	61	0.6	36	6
MS0350-SLA	●		5	22.4	28	29	66	65	0.6	36	6
MS0370-SSA	●	3.7	3	14.1	20	25	62	61	0.7	36	6
MS0370-SLA	●		5	22.1	28	29	66	65	0.7	36	6
MS0380-SSA	●	3.8	3	18	24	29	66	65	0.7	36	6
MS0380-SLA	●		5	30	36	37	74	73	0.7	36	6
MS0390-SSA	●	3.9	3	17.9	24	29	66	65	0.7	36	6
MS0390-SLA	●		5	29.9	36	37	74	73	0.7	36	6
MS0400-SSA	●	4.0	3	17.7	24	29	66	65	0.7	36	6
MS0400-SLA	●		5	29.7	36	37	74	73	0.7	36	6
MS0410-SSA	●	4.1	3	17.6	24	29	66	65	0.7	36	6
MS0410-SLA	●		5	29.6	36	37	74	73	0.7	36	6
MS0420-SSA	●	4.2	3	17.5	24	29	66	65	0.8	36	6
MS0420-SLA	●		5	29.5	36	37	74	73	0.8	36	6
MS0430-SSA	●	4.3	3	17.3	24	29	66	65	0.8	36	6
MS0430-SLA	●		5	29.3	36	37	74	73	0.8	36	6
MS0450-SSA	●	4.5	3	17.1	24	29	66	65	0.8	36	6
MS0450-SLA	●		5	29.1	36	37	74	73	0.8	36	6
MS0460-SSA	●	4.6	3	16.9	24	29	66	65	0.8	36	6
MS0460-SLA	●		5	28.9	36	37	74	73	0.8	36	6
MS0480-SSA	●	4.8	3	20.7	28	29	66	65	0.9	36	6
MS0480-SLA	●		5	36.7	44	45	74	81	0.9	36	6
MS0500-SSA	●	5.0	3	20.4	30	29	66	65	0.9	36	6
MS0500-SLA	●		5	36.4	46	45	82	81	0.9	36	6

MS MATKAP UCU - SİLİNDİRİK

Sipariş Numarası	Stok	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0510-SSA	●	5.1	3	20.3	30	29	66	65	0.9	36	6
MS0510-SLA	●		5	36.3	46	45	82	81	0.9	36	6
MS0520-SSA	●	5.2	3	20.1	30	29	66	65	0.9	36	6
MS0520-SLA	●		5	36.1	46	45	82	81	0.9	36	6
MS0550-SSA	●	5.5	3	19.8	30	29	66	65	1	36	6
MS0550-SLA	●		5	35.8	46	45	82	81	1	36	6
MS0560-SSA	●	5.6	3	19.6	30	29	66	65	1	36	6
MS0560-SLA	●		5	35.6	46	45	82	81	1	36	6
MS0570-SSA	●	5.7	3	19.5	30	29	66	65	1	36	6
MS0570-SLA	●		5	35.5	46	45	82	81	1	36	6
MS0580-SSA	●	5.8	3	19.4	30	29	66	65	1.1	36	6
MS0580-SLA	●		5	35.4	46	45	82	81	1.1	36	6
MS0600-SSA	●	6.0	3	19.1	30	29	66	65	1.1	36	6
MS0600-SLA	●		5	35.1	46	45	82	81	1.1	36	6
MS0610-SSA	●	6.1	3	25	34	42	79	78	1.1	36	8
MS0610-SLA	●		5	44	53	54	91	90	1.1	36	8
MS0620-SSA	●	6.2	3	24.8	34	42	79	78	1.1	36	8
MS0620-SLA	●		5	43.8	53	54	91	90	1.1	36	8
MS0650-SSA	●	6.5	3	24.4	34	42	79	78	1.2	36	8
MS0650-SLA	●		5	43.4	53	54	91	90	1.2	36	8
MS0660-SSA	●	6.6	3	24.3	34	42	79	78	1.2	36	8
MS0660-SLA	●		5	43.3	53	54	91	90	1.2	36	8
MS0680-SSA	●	6.8	3	24	34	42	79	78	1.2	36	8
MS0680-SLA	●		5	43	53	54	91	90	1.2	36	8
MS0690-SSA	●	6.9	3	23.9	34	42	79	78	1.3	36	8
MS0690-SLA	●		5	42.9	53	54	91	90	1.3	36	8
MS0700-SSA	●	7.0	3	23.8	34	42	79	78	1.3	36	8
MS0700-SLA	●		5	42.8	53	54	91	90	1.3	36	8
MS0730-SSA	●	7.3	3	30.4	34	42	79	78	1.3	36	8
MS0730-SLA	●		5	42.4	53	54	91	90	1.3	36	8
MS0740-SSA	●	7.4	3	30.2	41	42	79	78	1.3	36	8
MS0740-SLA	●		5	42.2	53	54	91	90	1.3	36	8
MS0750-SSA	●	7.5	3	30.1	41	42	79	78	1.4	36	8
MS0750-SLA	●		5	42.1	53	54	91	90	1.4	36	8
MS0780-SSA	●	7.8	3	29.7	41	42	79	78	1.4	36	8
MS0780-SLA	●		5	41.7	53	54	91	90	1.4	36	8
MS0800-SSA	●	8.0	3	29.5	41	42	79	78	1.5	36	10
MS0800-SLA	●		5	41.5	53	54	91	90	1.5	36	10
MS0830-SSA	●	8.3	3	34.1	47	48	89	87	1.5	40	10
MS0830-SLA	●		5	48.1	61	62	103	101	1.5	40	10
MS0850-SSA	●	8.5	3	33.8	47	48	89	87	1.5	40	10
MS0850-SLA	●		5	47.8	61	62	103	101	1.5	40	10
MS0860-SSA	●	8.6	3	33.7	47	48	89	87	1.6	40	10
MS0860-SLA	●		5	47.7	61	62	103	101	1.6	40	10
MS0870-SSA	●	8.7	3	33.5	47	48	89	87	1.6	40	10
MS0870-SLA	●		5	47.5	61	62	103	101	1.6	40	10
MS0880-SSA	●	8.8	3	33.4	47	48	89	87	1.6	40	10
MS0880-SLA	●		5	47.4	61	62	103	101	1.6	40	10
MS0900-SSA	●	9.0	3	33.3	47	48	89	87	1.6	40	10
MS0900-SLA	●		5	47.3	61	62	103	101	1.6	40	10

MS MATKAP UCU - SİLİNDİRİK

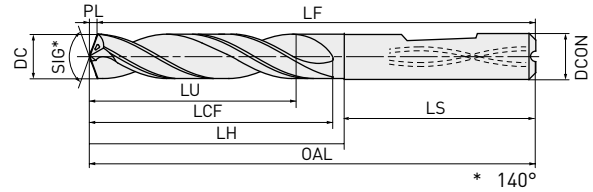
Sipariş Numarası	Stok	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0930-SSA	●	9.3	3	33.1	47	48	89	87	1.6	40	10
MS0930-SLA	●		5	47.1	61	62	103	101	1.6	40	10
MS0950-SSA	●	9.5	3	32.5	47	48	89	87	1.7	40	10
MS0950-SLA	●		5	46.5	61	62	103	101	1.7	40	10
MS0980-SSA	●	9.8	3	32.1	47	48	89	87	1.8	40	10
MS0980-SLA	●		5	46.1	61	62	103	101	1.8	40	10
MS1000-SSA	●	10.0	3	31.8	47	48	89	87	1.8	40	10
MS1000-SLA	●		5	45.8	61	62	103	101	1.8	40	10
MS1020-SSA	●	10.2	3	39.6	55	56	102	100	1.9	45	12
MS1020-SLA	●		5	55.6	71	72	118	116	1.9	45	12
MS1030-SSA	●	10.3	3	39.4	55	56	102	100	1.9	45	12
MS1030-SLA	●		5	55.4	71	72	118	116	1.9	45	12
MS1040-SSA	●	10.4	3	39.3	55	56	102	100	1.9	45	12
MS1040-SLA	●		5	55.3	71	72	118	116	1.9	45	12
MS1050-SSA	●	10.5	3	39.2	55	56	102	100	1.9	45	12
MS1050-SLA	●		5	55.2	71	72	118	116	1.9	45	12
MS1070-SSA	●	10.7	3	38.9	55	56	102	100	1.9	45	12
MS1070-SLA	●		5	54.9	71	72	118	116	1.9	45	12
MS1080-SSA	●	10.8	3	38.8	55	56	102	100	2	45	12
MS1080-SLA	●		5	54.8	71	72	118	116	2	45	12
MS1100-SSA	●	11.0	3	38.5	55	56	102	100	2	45	12
MS1100-SLA	●		5	54.5	71	72	118	116	2	45	12
MS1120-SSA	●	11.2	3	38.2	55	56	102	100	2	45	12
MS1120-SLA	●		5	54.2	71	72	118	116	2	45	12
MS1140-SSA	●	11.4	3	38	55	56	102	100	2.1	45	12
MS1140-SLA	●		5	54	71	72	118	116	2.1	45	12
MS1150-SSA	●	11.5	3	37.8	55	56	102	100	2.1	45	12
MS1150-SLA	●		5	53.8	71	72	118	116	2.1	45	12
MS1170-SSA	●	11.7	3	37.6	55	56	102	100	2.1	45	12
MS1170-SLA	●		5	53.6	71	72	118	116	2.1	45	12
MS1180-SSA	●	11.8	3	37.4	55	56	102	100	2.1	45	12
MS1180-SLA	●		5	53.4	71	72	118	116	2.1	45	12
MS1200-SSA	●	12.0	3	37.2	55	56	102	100	2.2	45	12
MS1200-SLA	●		5	53.2	71	72	118	116	2.2	45	12
MS1250-SSA	●	12.5	3	41.5	60	61	107	105	2.3	45	14
MS1250-SLA	●		5	58.5	77	78	124	122	2.3	45	14
MS1260-SSA	●	12.6	3	41.4	60	61	107	105	2.3	45	14
MS1260-SLA	●		5	58.4	77	78	124	122	2.3	45	14
MS1270-SSA	●	12.7	3	41.3	60	61	107	105	2.3	45	14
MS1270-SLA	●		5	58.3	77	78	124	122	2.3	45	14
MS1300-SSA	●	13.0	3	40.9	60	61	107	105	2.4	45	14
MS1300-SLA	●		5	57.9	77	78	124	122	2.4	45	14
MS1350-SSA	●	13.5	3	40.2	60	61	107	105	2.5	45	14
MS1350-SLA	●		5	57.2	77	78	124	122	2.5	45	14
MS1370-SSA	●	13.7	3	39.9	60	61	107	105	2.5	45	14
MS1370-SLA	●		5	56.9	77	78	124	122	2.5	45	14
MS1400-SSA	●	14.0	3	39.5	60	62	107	105	2.5	45	14
MS1400-SLA	●		5	56.5	77	79	124	122	2.5	45	14

MS MATKAP UCU



WHISTLE NOTCH

P M K



DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 14
0.016	0.016	0.021	0.025
+0.004	+0.004	+0.006	+0.007

Sipariş Numarası	Stok	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0300-SSK	●	3.0	3	15	20	25	62	61	0.5	36	6
MS0300-SLK	●		5	23	28	29	66	65	0.5	36	6
MS0310-SSK	●	3.1	3	14.9	20	25	62	61	0.6	36	6
MS0310-SLK	●		5	22.9	28	29	66	65	0.6	36	6
MS0330-SSK	●	3.3	3	14.7	20	25	62	61	0.6	36	6
MS0330-SLK	●		5	22.7	28	29	66	65	0.6	36	6
MS0340-SSK	●	3.4	3	14.5	20	25	62	61	0.6	36	6
MS0340-SLK	●		5	22.5	28	29	66	65	0.6	36	6
MS0350-SSK	●	3.5	3	14.4	20	25	62	61	0.6	36	6
MS0350-SLK	●		5	22.4	28	29	66	65	0.6	36	6
MS0370-SSK	●	3.7	3	14.1	20	25	62	61	0.7	36	6
MS0370-SLK	●		5	22.1	28	29	66	65	0.7	36	6
MS0380-SSK	●	3.8	3	18	24	29	66	65	0.7	36	6
MS0380-SLK	●		5	30	36	37	74	73	0.7	36	6
MS0390-SSK	●	3.9	3	17.9	24	29	66	65	0.7	36	6
MS0390-SLK	●		5	29.9	36	37	74	73	0.7	36	6
MS0400-SSK	●	4.0	3	17.7	24	29	66	65	0.7	36	6
MS0400-SLK	●		5	29.7	36	37	74	73	0.7	36	6
MS0410-SSK	●	4.1	3	17.6	24	29	66	65	0.7	36	6
MS0410-SLK	●		5	29.6	36	37	74	73	0.7	36	6
MS0420-SSK	●	4.2	3	17.5	24	29	66	65	0.8	36	6
MS0420-SLK	●		5	29.5	36	37	74	73	0.8	36	6
MS0430-SSK	●	4.3	3	17.3	24	29	66	65	0.8	36	6
MS0430-SLK	●		5	29.3	36	37	74	73	0.8	36	6
MS0450-SSK	●	4.5	3	17.1	24	29	66	65	0.8	36	6
MS0450-SLK	●		5	29.1	36	37	74	73	0.8	36	6
MS0460-SSK	●	4.6	3	16.9	24	29	66	65	0.8	36	6
MS0460-SLK	●		5	28.9	36	37	74	73	0.8	36	6
MS0480-SSK	●	4.8	3	20.7	28	29	66	65	0.9	36	6
MS0480-SLK	●		5	36.7	44	45	74	81	0.9	36	6
MS0500-SSK	●	5.0	3	20.4	30	29	66	65	0.9	36	6
MS0500-SLK	●		5	36.4	46	45	82	81	0.9	36	6

MS MATKAP UCU - WHISTLE NOTCH

Sipariş Numarası	Stok	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0510-SSK	●	5.1	3	20.3	30	29	66	65	0.9	36	6
MS0510-SLK	●		5	36.3	46	45	82	81	0.9	36	6
MS0520-SSK	●	5.2	3	20.1	30	29	66	65	0.9	36	6
MS0520-SLK	●		5	36.1	46	45	82	81	0.9	36	6
MS0550-SSK	●	5.5	3	19.8	30	29	66	65	1	36	6
MS0550-SLK	●		5	35.8	46	45	82	81	1	36	6
MS0560-SSK	●	5.6	3	19.6	30	29	66	65	1	36	6
MS0560-SLK	●		5	35.6	46	45	82	81	1	36	6
MS0570-SSK	●	5.7	3	19.5	30	29	66	65	1	36	6
MS0570-SLK	●		5	35.5	46	45	82	81	1	36	6
MS0580-SSK	●	5.8	3	19.4	30	29	66	65	1.1	36	6
MS0580-SLK	●		5	35.4	46	45	82	81	1.1	36	6
MS0600-SSK	●	6.0	3	19.1	30	29	66	65	1.1	36	6
MS0600-SLK	●		5	35.1	46	45	82	81	1.1	36	6
MS0610-SSK	●	6.1	3	25	34	42	79	78	1.1	36	8
MS0610-SLK	●		5	44	53	54	91	90	1.1	36	8
MS0620-SSK	●	6.2	3	24.8	34	42	79	78	1.1	36	8
MS0620-SLK	●		5	43.8	53	54	91	90	1.1	36	8
MS0650-SSK	●	6.5	3	24.4	34	42	79	78	1.2	36	8
MS0650-SLK	●		5	43.4	53	54	91	90	1.2	36	8
MS0660-SSK	●	6.6	3	24.3	34	42	79	78	1.2	36	8
MS0660-SLK	●		5	43.3	53	54	91	90	1.2	36	8
MS0680-SSK	●	6.8	3	24	34	42	79	78	1.2	36	8
MS0680-SLK	●		5	43	53	54	91	90	1.2	36	8
MS0690-SSK	●	6.9	3	23.9	34	42	79	78	1.3	36	8
MS0690-SLK	●		5	42.9	53	54	91	90	1.3	36	8
MS0700-SSK	●	7.0	3	23.8	34	42	79	78	1.3	36	8
MS0700-SLK	●		5	42.8	53	54	91	90	1.3	36	8
MS0730-SSK	●	7.3	3	30.4	34	42	79	78	1.3	36	8
MS0730-SLK	●		5	42.4	53	54	91	90	1.3	36	8
MS0740-SSK	●	7.4	3	30.2	41	42	79	78	1.3	36	8
MS0740-SLK	●		5	42.2	53	54	91	90	1.3	36	8
MS0750-SSK	●	7.5	3	30.1	41	42	79	78	1.4	36	8
MS0750-SLK	●		5	42.1	53	54	91	90	1.4	36	8
MS0780-SSK	●	7.8	3	29.7	41	42	79	78	1.4	36	8
MS0780-SLK	●		5	41.7	53	54	91	90	1.4	36	8
MS0800-SSK	●	8.0	3	29.5	41	42	79	78	1.5	36	10
MS0800-SLK	●		5	41.5	53	54	91	90	1.5	36	10
MS0830-SSK	●	8.3	3	34.1	47	48	89	87	1.5	40	10
MS0830-SLK	●		5	48.1	61	62	103	101	1.5	40	10
MS0850-SSK	●	8.5	3	33.8	47	48	89	87	1.5	40	10
MS0850-SLK	●		5	47.8	61	62	103	101	1.5	40	10
MS0860-SSK	●	8.6	3	33.7	47	48	89	87	1.6	40	10
MS0860-SLK	●		5	47.7	61	62	103	101	1.6	40	10
MS0870-SSK	●	8.7	3	33.5	47	48	89	87	1.6	40	10
MS0870-SLK	●		5	47.5	61	62	103	101	1.6	40	10
MS0880-SSK	●	8.8	3	33.4	47	48	89	87	1.6	40	10
MS0880-SLK	●		5	47.4	61	62	103	101	1.6	40	10
MS0900-SSK	●	9.0	3	33.3	47	48	89	87	1.6	40	10
MS0900-SLK	●		5	47.3	61	62	103	101	1.6	40	10

MS MATKAP UCU - WHISTLE NOTCH

Sipariş Numarası	Stok	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0930-SSK	●	9.3	3	33.1	47	48	89	87	1.6	40	10
MS0930-SLK	●		5	47.1	61	62	103	101	1.6	40	10
MS0950-SSK	●	9.5	3	32.5	47	48	89	87	1.7	40	10
MS0950-SLK	●		5	46.5	61	62	103	101	1.7	40	10
MS0980-SSK	●	9.8	3	32.1	47	48	89	87	1.8	40	10
MS0980-SLK	●		5	46.1	61	62	103	101	1.8	40	10
MS1000-SSK	●	10.0	3	31.8	47	48	89	87	1.8	40	10
MS1000-SLK	●		5	45.8	61	62	103	101	1.8	40	10
MS1020-SSK	●	10.2	3	39.6	55	56	102	100	1.9	45	12
MS1020-SLK	●		5	55.6	71	72	118	116	1.9	45	12
MS1030-SSK	●	10.3	3	39.4	55	56	102	100	1.9	45	12
MS1030-SLK	●		5	55.4	71	72	118	116	1.9	45	12
MS1040-SSK	●	10.4	3	39.3	55	56	102	100	1.9	45	12
MS1040-SLK	●		5	55.3	71	72	118	116	1.9	45	12
MS1050-SSK	●	10.5	3	39.2	55	56	102	100	1.9	45	12
MS1050-SLK	●		5	55.2	71	72	118	116	1.9	45	12
MS1070-SSK	●	10.7	3	38.9	55	56	102	100	1.9	45	12
MS1070-SLK	●		5	54.9	71	72	118	116	1.9	45	12
MS1080-SSK	●	10.8	3	38.8	55	56	102	100	2	45	12
MS1080-SLK	●		5	54.8	71	72	118	116	2	45	12
MS1100-SSK	●	11.0	3	38.5	55	56	102	100	2	45	12
MS1100-SLK	●		5	54.5	71	72	118	116	2	45	12
MS1120-SSK	●	11.2	3	38.2	55	56	102	100	2	45	12
MS1120-SLK	●		5	54.2	71	72	118	116	2	45	12
MS1140-SSK	●	11.4	3	38	55	56	102	100	2.1	45	12
MS1140-SLK	●		5	54	71	72	118	116	2.1	45	12
MS1150-SSK	●	11.5	3	37.8	55	56	102	100	2.1	45	12
MS1150-SLK	●		5	53.8	71	72	118	116	2.1	45	12
MS1170-SSK	●	11.7	3	37.6	55	56	102	100	2.1	45	12
MS1170-SLK	●		5	53.6	71	72	118	116	2.1	45	12
MS1180-SSK	●	11.8	3	37.4	55	56	102	100	2.1	45	12
MS1180-SLK	●		5	53.4	71	72	118	116	2.1	45	12
MS1200-SSK	●	12.0	3	37.2	55	56	102	100	2.2	45	12
MS1200-SLK	●		5	53.2	71	72	118	116	2.2	45	12
MS1250-SSK	●	12.5	3	41.5	60	61	107	105	2.3	45	14
MS1250-SLK	●		5	58.5	77	78	124	122	2.3	45	14
MS1260-SSK	●	12.6	3	41.4	60	61	107	105	2.3	45	14
MS1260-SLK	●		5	58.4	77	78	124	122	2.3	45	14
MS1270-SSK	●	12.7	3	41.3	60	61	107	105	2.3	45	14
MS1270-SLK	●		5	58.3	77	78	124	122	2.3	45	14
MS1300-SSK	●	13.0	3	40.9	60	61	107	105	2.4	45	14
MS1300-SLK	●		5	57.9	77	78	124	122	2.4	45	14
MS1350-SSK	●	13.5	3	40.2	60	61	107	105	2.5	45	14
MS1350-SLK	●		5	57.2	77	78	124	122	2.5	45	14
MS1370-SSK	●	13.7	3	39.9	60	61	107	105	2.5	45	14
MS1370-SLK	●		5	56.9	77	78	124	122	2.5	45	14
MS1400-SSK	●	14.0	3	39.5	60	62	107	105	2.5	45	14
MS1400-SLK	●		5	56.5	77	79	124	122	2.5	45	14

MS MATKAP UCU

ÖNERİLEN KESME KOŞULLARI

Malzeme	Özellikler	Kopma Mukavemeti	Ø 3.0 – 5.9		Ø 6.0 – 9.9		Ø 10.0 – 14.0		
			Vc	f	Vc	f	Vc	f	
P	Alaşımsız Sülfür ≤%0,25 C	150 HB tavlınmış	<500	100	0.18	110	0.25	130	0.30
	Fosforlu Çelik ≤%0,25 C	200 HB tavlınmış	~680	100	0.18	110	0.25	130	0.30
	Karbon Çeliği ≤%0,55 C	275 HB temperlenmiş	>800	80	0.18	90	0.25	100	0.30
	Temperlenmiş Çelik ≤%0,55 C	300 HB tavlınmış	~680	60	0.18	70	0.25	80	0.30
	Kalıp Çeliği / Dökme Çelik	350 HB temperlenmiş	>800	50	0.15	60	0.20	70	0.25
	Düşük Alaşımlı Çelik, Kalıp Çeliği	<200 HB tavlınmış	<680	50	0.18	80	0.25	80	0.30
	Yay Çeliği, Nitrürlenmiş Çelik	250 HB temperlenmiş	850	60	0.18	70	0.25	80	0.30
	Yüzeyi Sertleştirilmiş Çelik	>250 HB temperlenmiş	>850	60	0.18	70	0.25	80	0.30
	Rulman Çeliği, Dökme Çelik	>300 HB temperlenmiş	>1000	50	0.15	60	0.20	70	0.30
	Yüksek Alaşımlı Isıya Dayanıklı elikler	<200 HB tavlınmış	<680	50	0.15	55	0.20	60	0.25
	Supap Çeliği	250 HB temperlenmiş	850	45	0.15	50	0.20	55	0.25
	Kalıp Çeliği	>250 HB temperlenmiş	>850	50	0.18	55	0.20	60	0.25
Dökme Çelik	>300 HB temperlenmiş	>1000	45	0.15	50	0.20	55	0.25	
M	Paslanmaz Çelik	200 HB ferrit./mart.	680	45	0.15	50	0.20	60	0.25
	Isıya Dayanıklı Çelik	250 HB martensitik	850	45	0.15	50	0.20	60	0.25
	Dökme Çelik	230 HB ostenitik	~950	45	0.15	50	0.20	60	0.25
K	Lamine Grafit	<180 HB ferritik	100 - 400	100	0.20	100	0.25	110	0.30
	Dökme Demir	220 HB perlitik	100 - 400	90	0.20	90	0.25	100	0.30
	Küresel Dökme Demir	<180 HB ferritik	400 - 800	80	0.20	80	0.25	90	0.30
	Duktil Dökme Demir	250 HB perlitik	400 - 800	80	0.20	80	0.25	90	0.30
	Temperlenmiş ve Siyah	<180 HB ferritik	350 - 700	50	0.20	65	0.20	75	0.25
	Dökme Demir	220 HB perlitik	350 - 700	50	0.15	60	0.20	70	0.22

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Tarafından yayınlanmıştır:  MITSUBISHI MATERIALS TOOLS EUROPE | 2023.12