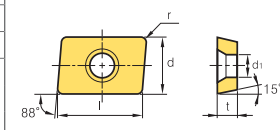
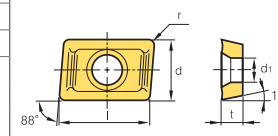
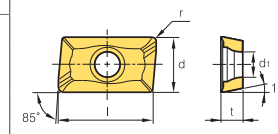
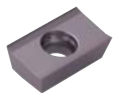
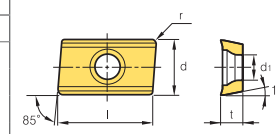
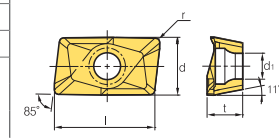
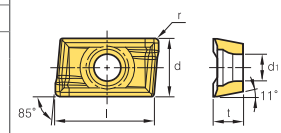
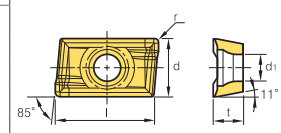
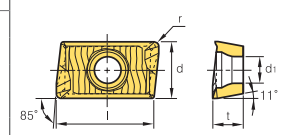
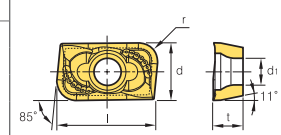
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	PD2000	G10	H01
	Çelik	P	●	◐	◐	✖	●	✖	✖	◐	◐			✖	✖			
	Paslanmaz çelik	M			◐	✖						✖		✖	✖			
	Dökme demir	K					◐						●	✖	✖		◐	●
	Demir-dışı metaller	N														●		◐
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✖	✖			
	Sertleştirilmiş Çelik	H												◐	✖			

İşleme tipi

● Sürekli Kesme
◐ Genel Kesme
✖ Darbeli Kesme

Kesici uç	Kod	Ölçüler (mm) l	d	t	r	d_1	Geometri	Uygun takımlar
ADKA	150308R	15.0	9.525	3.18	0.8	4.5		-
	150308SR	15.0	9.525	3.18	0.8	4.5		
	150308TR	15.0	9.525	3.18	0.8	4.5		
ADLT	150308R	15.0	9.525	3.18	0.8	4.5		E280
	150308SR	15.0	9.525	3.18	0.8	4.5		
	150308TR	15.0	9.525	3.18	0.8	4.5		
APKT	1604PDSR	16.4	9.525	4.76	0.8	4.4		E147 E159
APKT-MA 	1604PDFR-MA	16.4	9.525	4.76	0.2	4.4		E147 E159
	160416FR-MA	16.4	9.525	4.76	1.6	4.4		
APKT-MA2	1604PDFR-MA2	16.5	9.56	5.76	0.8	4.5		E147 E159
	160416FR-MA2	16.5	9.56	5.76	1.6	4.5		
	160432FR-MA2	16.5	9.56	5.76	3.2	4.5		
APKT-MA3	1604PDFR-MA3	16.4	9.525	5.0	0.8	4.4		E147 E159
	160420FR-MA3	16.0	9.525	5.0	2.0	4.4		
APKT-MF	1604PDSR-MF	16.4	9.525	5.0	0.8	4.4		E147 E159 E168
APKT-MM	1604PDSR-MM	16.4	9.525	5.2	0.8	4.4		E147 E159 E168
APKT-MM1	160432R-MM1	16.4	9.525	4.76	3.2	4.4		E147 E159

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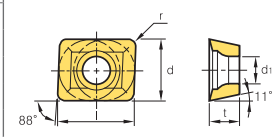
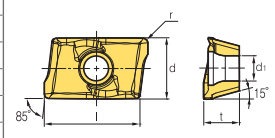
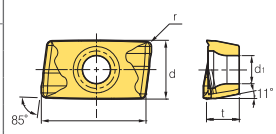
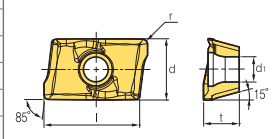
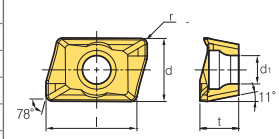
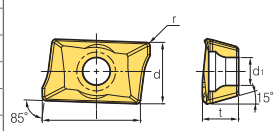
İş parçası			CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10	H01
	Çelik	P	●	⬌	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱		
	Paslanmaz çelik	M			⬌								✱		✱	✱		
	Dökme demir	K				⬌			⬌	⬌				●	✱	✱	⬌	●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S													✱	✱		
	Sertleştirilmiş Çelik	H							●	⬌					⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Ölçüler (mm) l	d	t	r	d_1	Geometri	Uygun takımlar
APLT	070304R	7.5	6.35	3.18	0.4	2.8		E280
APMT-MA	0602PDFR-MA	6	4.24	2.6	0.4	2.0		E143~E146
	060208PDFR-MA	6	4.24	2.6	0.8	2.0		E148
	0903PDFR-MA	9.4	6.21	3.6	0.4	2.8		E151~E158
	090308PDFR-MA	9.4	6.21	3.6	0.8	2.8		E160~E161
	11T3PDFR-MA	11.2	6.467	3.6	0.5	2.9		E164~E171
	11T308PDFR-MA	11.2	6.467	3.6	0.8	2.9		E173~E187
	160404PDFR-MA	16.4	9.41	5.76	0.4	4.5		E189~E193
	1604PDFR-MA	16.4	9.41	5.76	0.8	4.5		
	180604PDFR-MA	17.4	10.98	6.35	0.4	4.5		
	1806PDFR-MA	17.4	10.98	6.35	0.8	4.5		
	180612PDFR-MA	17.4	10.98	6.35	1.2	4.5		
	180616PDFR-MA	17.4	10.98	6.35	1.6	4.5		
	180620PDFR-MA	17.4	10.98	6.35	2.0	4.5		
	180624PDFR-MA	17.4	10.98	6.35	2.4	4.5		
	180630R-MA	17.4	10.98	6.35	3.0	4.5		
APMT-MF	11T3PDSR-MF	11.2	6.467	3.6	0.5	2.9		E145~E146
	1604PDSR-MF	16.4	9.41	5.76	0.8	4.5		E148~E153
	1806PDSR-MF	17.4	10.98	6.35	0.8	4.5		E157~E158
	180612PDSR-MF	17.4	10.98	6.35	1.2	4.5		E160~E163
								E165~E166
								E168
								E171
								E175~E177
								E180~E182
								E185
								E187
								E191~E193
APMT-ML	0903PDER-ML	9.4	6.21	3.6	0.4	2.8		E144~E146
	090308PDER-ML	9.4	6.21	3.6	0.8	2.8		E148
	11T3PDER-ML	11.2	6.467	3.6	0.5	2.9		E151~E153
	11T308PDER-ML	11.2	6.467	3.6	0.8	2.9		E155~E158
	160404PDER-ML	16.4	9.41	5.76	0.4	4.5		E160~E161
	1604PDER-ML	16.4	9.41	5.76	0.8	4.5		E164~E168
	180604PDER-ML	17.4	10.98	6.35	0.4	4.5		E170~E171
	1806PDER-ML	17.4	10.98	6.35	0.8	4.5		E174~E177
	180612PDER-ML	17.4	10.98	6.35	1.2	4.5		E179~E182
	180616PDER-ML	17.4	10.98	6.35	1.6	4.5		E184~E187
	180620PDER-ML	17.4	10.98	6.35	2.0	4.5		E190~E193
	180624PDER-ML	17.4	10.98	6.35	2.4	4.5		
	180630R-ML	17.4	10.98	6.35	3.0	4.5		
APMT-MM	060202PDSR-MM	6	4.24	2.6	0.2	2.0		E143~E146
	0602PDSR-MM	6	4.24	2.6	0.4	2.0		E148~E158
	060208PDSR-MM	6	4.24	2.6	0.8	2.0		E160~E171
	060212R-MM ✱	6	4.24	2.6	1.2	2.0		E173~E188
	060216R-MM	6	4.24	2.6	1.6	2.0		E189~E193
	0903PDSR-MM	9.4	6.21	3.6	0.4	2.8		
	090308PDSR-MM	9.4	6.21	3.6	0.8	2.8		
	090312R-MM	9.4	6.21	3.6	1.2	2.8		
	090316R-MM	9.4	6.21	3.6	1.6	2.8		
	090320R-MM	9.2	6.21	3.6	2.0	2.8		
	090331R-MM ✱	9.2	6.21	3.6	3.1	2.8		
	090332R-MM ✱	9.2	6.21	3.6	3.2	2.8		

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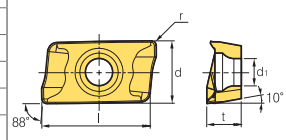
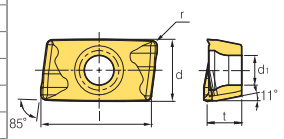
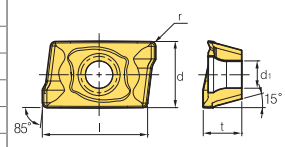
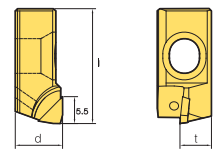
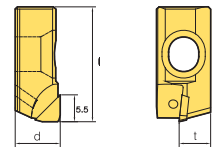
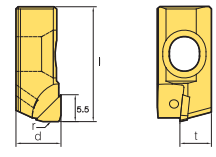
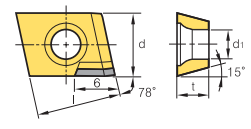
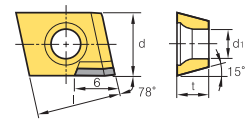
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	DP150	DP200
	Çelik	P	●	⬌	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱		
	Paslanmaz çelik	M			⬌								✱		✱	✱		
	Dökme demir	K				⬌			⬌	⬌				●	✱	✱		
	Demir-dışı metaller	N															●	●
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S													✱	✱		
	Sertleştirilmiş Çelik	H							●	⬌					⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d_1	Geometri	Uygun takımlar
APMT-MM	11T3PDSR-MM	11.2	6.467	3.6	0.5	2.85		E143~E171 E173~E193
	11T308PDSR-MM	11.2	6.467	3.6	0.8	2.85		
	11T312PDSR-MM	11.2	6.467	3.6	1.2	2.85		
	11T316R-MM	11.0	6.467	3.6	1.6	2.85		
	11T318R-MM	11.0	6.467	3.6	1.8	2.85		
	11T324R-MM	11.0	6.467	3.6	2.4	2.85		
	1604PDSR-MM	16.4	9.41	5.76	0.8	4.5		
	160410PDSR-MM	16.4	9.41	5.76	1.0	4.5		
	160416PDSR-MM	16.4	9.41	5.76	1.6	4.5		
	160424R-MM	16	9.41	5.76	2.4	4.5		
	160430R-MM	16	9.41	5.76	3.0	4.5		
	160432R-MM	16	9.41	5.76	3.2	4.5		
	160450R-MM *	16	9.41	5.76	5.0	4.5		
	160464R-MM *	16	9.41	5.76	6.4	4.5		
	1806PDSR-MM	17.4	10.98	6.35	0.8	4.5		
	180612PDSR-MM	17.4	10.98	6.35	1.2	4.5		
	180616PDSR-MM	17.4	10.98	6.35	1.6	4.5		
	180620PDSR-MM	17.4	10.98	6.35	2.0	4.5		
	180624PDSR-MM	17.4	10.98	6.35	2.4	4.5		
	180630R-MM	16.7	10.98	6.35	3.0	4.5		
	180632R-MM *	16.7	10.98	6.35	3.2	4.5		
	180640R-MM *	16.7	10.98	6.35	4.0	4.5		
	180648R-MM *	16.7	10.98	6.35	4.8	4.5		
	180650R-MM *	16.7	10.98	6.35	5.0	4.5		
	180660R-MM *	16.7	10.98	6.35	6.0	4.5		
	180664R-MM	16.7	10.98	6.35	6.4	4.5		
BAMPR-XAF	BAMPR-XAF	25.5	10.5	7	-	-		E133~E134
BAMPR-XAW	BAMPR-XAW	25.5	10	7	-	-		E133~E134
BAMPR-XAWR	BAMPR-XAWR	25.5	10	7	-	-		E133~E134
CDEW-NAF Keskin kenar	1204R-NAF	12.7	9.525	4.76	-	4.4		E132
	1204L-NAF	12.7	9.525	4.76	-	4.4		
CDEW-NAW Keskin kenar Silici Kesici uç	1204R-NAW	12.7	9.525	4.76	-	4.4		E132
	1204L-NAW	12.7	9.525	4.76	-	4.4		

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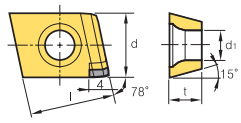
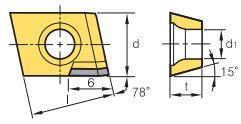
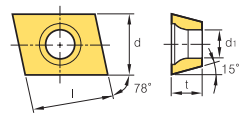
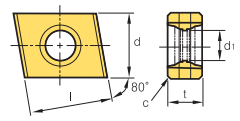
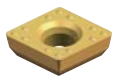
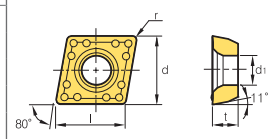
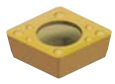
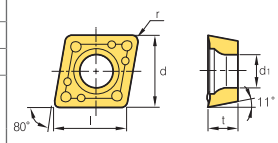
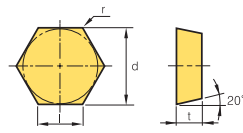
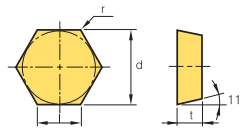
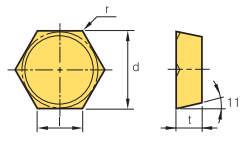
Frezeleme Uçları E

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	H01	DP150	DP200
	Çelik	P	●	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱			
	Paslanmaz çelik	M										✱		✱	✱			
	Dökme demir	K			⬌			⬌	⬌				●	✱	✱	●		
	Demir-dışı metaller	N														⬌	●	●
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✱			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı										Kaplamasız	PCD		Ölçüler (mm)					Geometri	Uygun takımlar
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	H01	DP150	DP200	l	d	t	r	d1		
CDEW-XAW Keskin kenar Silici Kesici uç	1204R-XAW																●	12.7	9.525	4.76	-	4.4		E132
	1204L-XAW																	12.7	9.525	4.76	-	4.4		
CDEW-XAF Keskin kenar	1204R-XAF																●	12.7	9.525	4.76	-	4.4		E132
	1204L-XAF																	12.7	9.525	4.76	-	4.4		
CDEW-XCF Keskin kenar	1204R-XCF														●			12.7	9.525	4.76	-	4.4		E132
	1204L-XCF																	12.7	9.525	4.76	-	4.4		
CNHQ	1005-C0.5																	10	10	5.4	-	4.7		E346
	1305-C0.5																	12.7	10	5.4	-	4.7		E347
	1606-C0.5																	16	12	6.4	-	5.9		
CPMH 	120408-MM								●									12.9	12.7	4.76	0.8	5.5		E320
CPMT 	060204-MM								●									6.4	6.35	2.38	0.4	2.75		E320
	080308-MM								●									8.1	7.938	3.40	0.8	3.18		
	09T308-MM								●									9.7	9.525	3.97	0.8	4.4		
HECN	090408FN																	9.0	15.875	4.76	0.8	-		E358
	090408SN																	9.0	15.875	4.76	0.8	-		
	090408TN																	9.0	15.875	4.76	0.8	-		
	110412FN																	11.0	19.05	4.76	1.2	-		
	110412TN																	11.0	19.05	4.76	1.2	-		
HPEN	090408FN																	9.0	15.875	4.76	0.8	-		E358
	090408SN																	9.0	15.875	4.76	0.8	-		
	090408EN																	9.0	15.875	4.76	0.8	-		
	110412FN																	11.0	19.05	4.76	1.2	-		
HPEN-WC	090408-WC																	9.0	15.875	4.76	0.8	-		E358
	110412-WC																	11.0	19.05	4.76	1.2	-		

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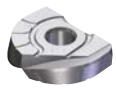
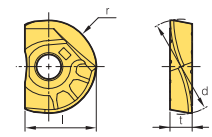
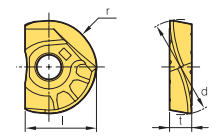
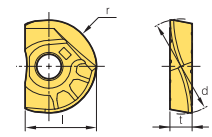
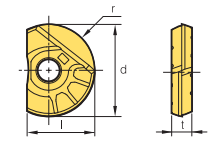
E Frezeleme Uçları

İş parçası		CN2000	CN30	PC2005	PC2010	PC2015	PC210F	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10	H01
Çelik	P	●	◐	●	◐	✱	✱	●	◐	◐	◐			✱	✱		
Paslanmaz çelik	M				●	◐	◐					✱		✱	✱		
Dökme demir	K			●	◐	✱	✱	◐	◐				●	✱	✱	◐	●
Demir-dışı metaller	N					●	●										◐
Isı dayanımlı alaşımlar,titanyum alaşımlı	S					●	●							✱	✱		
Sertleştirilmiş Çelik	H			●	◐	✱	✱	●	◐					◐	✱		

İşleme tipi

● Sürekli Kesme
◐ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Ölçüler (mm) l	d	t	r	d_1	Geometri	Uygun takımlar
LBH 	080	7.0	8	2.4	4	-		E296~ E299
	100	8.5	10	2.6	5	-		
	120	10.0	12	3	6	-		
	160	12.0	16	4	8	-		
	200	15.0	20	5	10	-		
	250	18.5	25	6	12.5	-		
	300	22.5	30	7	15	-		
	320	23.5	32	7	16	-		
LBH-KF	080-KF	7.0	8	2.4	4			E295 E296
	100-KF	8.5	10	2.6	5			
	120-KF	10.0	12	3	6			
	130-KF	20.5	13	3	6.5			
	160-KF	12.0	16	4	8			
	170-KF	12.5	17	4	8.5			
	200-KF	15.0	20	5	10			
	210-KF	15.5	21	5	10.5			
	250-KF	18.5	25	6	12.5			
	300-KF	22.5	30	7	15			
	320-KF	23.5	32	7	16			
LBH-KH	080-KH	7.0	8	2.4	4			E295 E296
	100-KH	8.5	10	2.6	5			
	120-KH	10.0	12	3	6			
	130-KH	20.5	13	3	6.5			
	160-KH	12.0	16	4	8			
	170-KH	12.5	17	4	8.5			
	200-KH	15.0	20	5	10			
	210-KH	15.5	21	5	10.5			
	250-KH	18.5	25	6	12.5			
	260-KH	19.0	26	6	13			
	300-KH	22.5	30	7	15			
	320-KH	23.5	32	7	16			
LBS	080	18.5	25	6	12.5	-		E296~ E299
	090	19.0	26	6	13	-		
	100	22.5	30	7	15	-		
	110	23.0	31	7	15.5	-		
	120	23.5	32	7	16	-		
	130	7.0	8	2.4	4	-		
	160	7.5	9	2.4	4.5	-		
	170	8.5	10	2.6	5	-		
	200	9.0	11	2.6	5.5	-		
	210	10.0	12	3	6	-		
	250	10.5	13	3	6.5	-		
	260	12.0	16	4	8	-		
	300	12.5	17	4	8.5	-		
	310	15.0	20	5	10	-		
	320	15.5	21	5	10.5	-		

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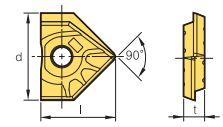
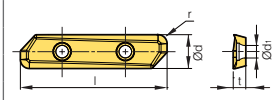
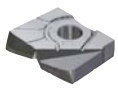
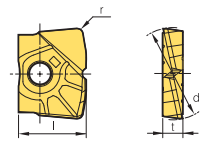
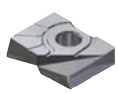
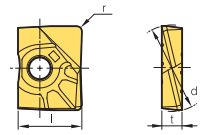
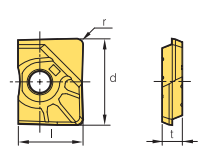
Frezeleme Uçları E

İş parçası			CN2000	CN30	PC2005	PC2010	PC2015	PC210F	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10	H01
	Çelik	P	●	⬌	●	⬌	✱	✱	●	⬌	⬌	⬌			✱	✱		
	Paslanmaz çelik	M				●	⬌	⬌					✱		✱	✱		
	Dökme demir	K			●	⬌	✱	✱	⬌	⬌				●	✱	✱	⬌	●
	Demir-dışı metaller	N					●	●										⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S					●	●							✱	✱		
	Sertleştirilmiş Çelik	H			●	⬌	✱	✱	●	⬌					⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı											Kaplamasız		Ölçüler (mm)					Geometri	Uygun takımlar
		CN2000	CN30	PC2005	PC2010	PC2015	PC210F	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	G10	H01	l	d	t	r	d_1		
LCF	160-D90						●											13.7	16	4	-	-		E296~ E299
	200-D90						●											17.0	20	5	-	-		
	250-D90																	21.5	25	6	-	-		
LDET Yeni	650540PPFR-MA																	65	15	5.625	4.0	5.56		E341
	650550PPFR-MA																	65	15	5.625	5.0	5.56		
LFH 	100																	8.5	10	2.6	1.0	-		E296~ E299
	120						●											10.0	12	3	1.0	-		
	160						●											12.0	16	4	1.5	-		
	200																	15.0	20	5	1.5	-		
	250																	18.5	25	6	2.0	-		
	300																	22.5	30	7	2.0	-		
	320																	23.5	32	7	2.0	-		
LRH 	100-R05						●											8.5	10	2.6	0.5	-	 LRH Tip	E296~ E299
	100-R10						●											8.5	10	2.6	1.0	-		
	100-R20																	8.5	10	2.6	2.0	-		
	110-R05																	9.0	11	2.6	0.5	-		
	120-R05						●											10.0	12	3	0.5	-		
	120-R10						●											10.0	12	3	1.0	-		
	120-R20																	10.0	12	3	2.0	-		
	130-R05																	10.5	13	3	0.5	-		
	160-R05						●											12.0	16	4	0.5	-		
	160-R10						●											12.0	16	4	1.0	-		
	160-R20																	12.0	16	4	2.0	-		
	160-R30						●											12.0	16	4	3.0	-		
	170-R05																	12.5	17	4	0.5	-		
LR (Özel Tip)	200-R05						●											15.0	20	5	0.5	-	 LR Tip	
	200-R10						●											15.0	20	5	1.0	-		
	200-R20						●											15.0	20	5	2.0	-		
	200-R30						●											15.0	20	5	3.0	-		
	210-R05																	15.5	21	5	0.5	-		
	250-R05																	18.5	25	6	0.5	-		
	250-R10						●											18.5	25	6	1.0	-		
	250-R20																	18.5	25	6	2.0	-		
	250-R30																	18.5	25	6	3.0	-		
	260-R05																	19.0	26	6	0.5	-		
	300-R10																	22.5	30	7	1.0	-		
	300-R20																	22.5	30	7	2.0	-		
	300-R30																	22.5	30	7	3.0	-		
	310-R05																	23.0	31	7	0.5	-		
	320-R10						●											23.5	32	7	1.0	-		
	320-R20						●											23.5	32	7	2.0	-		
	320-R30						●											23.5	32	7	3.0	-		

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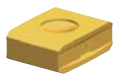
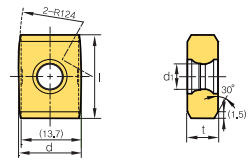
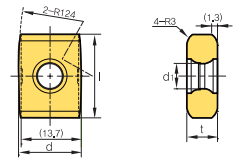
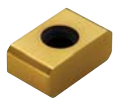
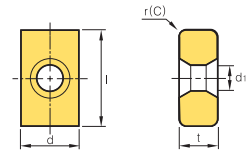
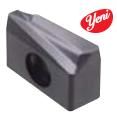
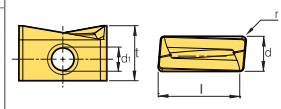
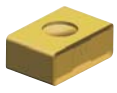
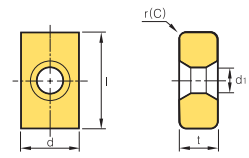
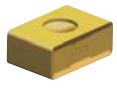
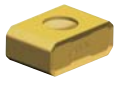
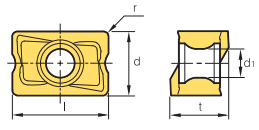
E Frezeleme Uçları

İş parçası		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
Çelik	P	●	⊜	●	✱	✱	●	⊜	⊜	⊜			✱	✱	⊜		
Paslanmaz çelik	M										✱		✱	✱			
Dökme demir	K			⊜			⊜	⊜				●	✱	✱		⊜	●
Demir-dışı metaller	N																⊜
Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
Sertleştirilmiş Çelik	H						●	⊜					⊜	✱			

İşleme tipi

● Sürekli Kesme
⊜ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet CN2000	Sermet CN30	Kaplamalı NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	Kaplamasız ST30A	G10	H01	l	d	t	r	d_1	Geometri	Uygun takımlar
LNCS 	1907-C1.5-WC																	19.05	14.3	7	-	5.8		E369 E370
LNCS	1907-R3.0-WC																	19.05	14.3	7	-	5.8		E369 E370
LNE 	324-R0.8																	15.9	9.525	6.35	0.8	4.4		E376~ E380
	324-C1.0																	15.9	9.525	6.35	1.0	4.4		
LNKT 	170708PNR-MM												●	●				16.5	7.0	11.0	0.8	4.5		E284 E285
	170708PNR-ML											●	●	●				16.5	7.0	11.0	0.8	4.5		
KEL-MF 	150608-MF																	15.88	15.23	6.35	0.8	-		E379
	150608-ML																	15.88	15.23	6.35	0.8	-		
KEL-QNN 	1506QNN-MF																	15.88	15.23	6.35	0.8	-		E362
	1506QNN-ML																	15.88	15.23	6.35	0.8	-		
KEL-ANN 	1506ANN-MF																	15.88	15.23	6.35	0.8	-		E362
	1506ANN-ML																	15.88	15.23	6.35	0.8	-		
LNM(E)X-MF	LNMX 100605PNR-MF									●		●	●	●				10.0	6.5	6.5	0.5	3.5		E92
	100608PNR-MF									●		●	●	●				10.0	6.5	6.5	0.8	3.5		E93
	LNEX 100605PNR-MF											●	●	●				10.0	6.5	6.5	0.5	3.5		E96
	100608PNR-MF								●			●	●	●				10.0	6.5	6.5	0.8	3.5		E97 E100~ E104

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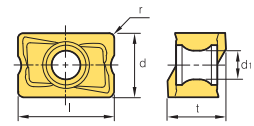
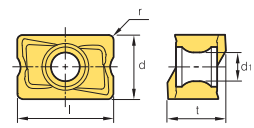
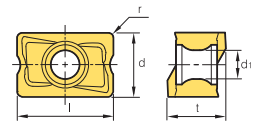
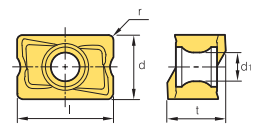
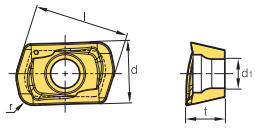
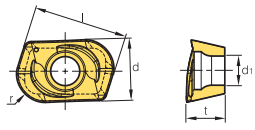
Frezeleme Uçları E

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱	⬌		
	Paslanmaz çelik	M										✱		✱	✱			
	Dökme demir	K			⬌			⬌	⬌				●	✱	✱		⬌	●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✱			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod		Sermet		Kaplamalı											Kaplamasız			Ölçüler (mm)					Geometri	Uygun takımlar
			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01	l	d	t	r	d_1		
LNM(E)X-MF	LNMX	151004PNR-MF									●		●	●	●				15.0	10.0	10.0	0.4	4.5		E92
		151008PNR-MF								●	●		●	●	●				15.0	10.0	10.0	0.8	4.5		E93
		151016PNR-MF									●		●	●	●				15.0	10.0	10.0	1.6	4.5		E96
	LNEX	151004PNR-MF											●	●	●				15.0	10.0	10.0	0.4	4.5		E97
		151008PNR-MF											●	●	●				15.0	10.0	10.0	0.8	4.5		E100~
		151016PNR-MF											●	●	●				15.0	10.0	10.0	1.6	4.5		E104
LNM(E)X-MM	LNMX	100605PNR-MM								●	●	●	●	●	●				10.0	6.5	6.5	0.5	3.5		E92~
		100608PNR-MM								●	●			●	●				10.0	6.5	6.5	0.8	3.5		E106
		100605PNL-MM								●	●		●	●	●				10.0	6.5	6.5	0.5	3.5		
	LNEX	100605PNR-MM								●			●	●	●				10.0	6.5	6.5	0.5	3.5		
		100608PNR-MM											●	●	●				10.0	6.5	6.5	0.8	3.5		
		100605PNL-MM											●	●	●				10.0	6.5	6.5	0.5	3.5		
LNM(E)X-MM	LNMX	151004PNR-MM									●		●		●				15.0	10.0	10.0	0.4	4.5		E92~
		151008PNR-MM								●	●	●	●	●	●				15.0	10.0	10.0	0.8	4.5		E106
		151016PNR-MM								●	●		●		●				15.0	10.0	10.0	1.6	4.5		
		151008PNL-MM									●			●	●				15.0	10.0	10.0	0.8	4.5		
	LNEX	151004PNR-MM											●	●	●				15.0	10.0	10.0	0.4	4.5		
		151008PNR-MM								●			●	●	●				15.0	10.0	10.0	0.8	4.5		
		151016PNR-MM											●	●	●				15.0	10.0	10.0	1.6	4.5		
		151008PNL-MM											●	●	●				15.0	10.0	10.0	0.8	4.5		
LNEX-MA	LNEX	100605PNR-MA																●	10.0	6.5	6.5	0.5	3.5		E92~E93
		151004PNR-MA																●	15.0	10.0	10.0	0.4	4.5		E96~E97
		151008PNR-MA																●	15.0	10.0	10.0	0.8	4.5		E100~
																									E104
LPMT-MF	LPMT	040210R-MF							●					●	●				6.4	4.2	2.6	1.0	2.0		E254~
																									E256
	LPMT	040220R-MF							●					●	●				6.4	4.2	2.6	2.0	2.0		E254~
																									E256

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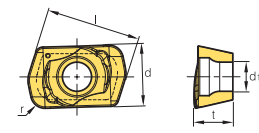
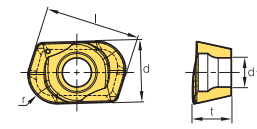
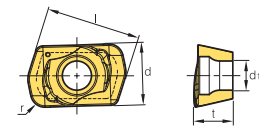
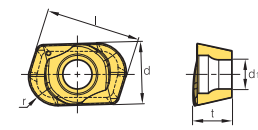
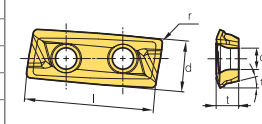
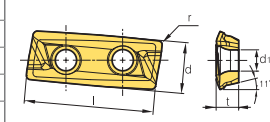
E Frezeleme Uçları

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱	⬌		
	Paslanmaz çelik	M										✱		✱	✱			
	Dökme demir	K			⬌			⬌	⬌				●	✱	✱		⬌	●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✱			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı										Kaplamasız			Ölçüler (mm)					Geometri	Uygun takımlar
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01	l	d	t	r	d_1		
LPMW	LPMW 040210R						●	●					●					6.4	4.2	2.6	1.0	2.0		E254~ E256
	LPMW 040220R						●	●					●					6.4	4.2	2.6	2.0	2.0		E254~ E256
LPEW	LPEW 040210R						●	●					●					6.4	4.2	2.6	1.0	2.0		E254~ E256
	LPEW 040220R						●	●					●					6.4	4.2	2.6	2.0	2.0		E254~ E256
LXET-MA	250404PEFR-32-MA																	25	10.775	4.76	0.4	4.5		E337~ E340
	2504PEFR-32-MA																●	25	10.775	4.76	0.8	4.5		
	250412PEFR-32-MA																	25	10.775	4.76	1.2	4.5		
	250416PEFR-32-MA																	25	10.775	4.76	1.6	4.5		
	250404PEFR-40-MA																	25	10.618	4.76	0.4	4.5		
	2504PEFR-40-MA																	25	10.618	4.76	0.8	4.5		
	250412PEFR-40-MA																	25	10.618	4.76	1.2	4.5		
	250416PEFR-40-MA																	25	10.618	4.76	1.6	4.5		
	340504PEFR-50-MA																	34	13.765	5.56	0.4	5.56		
	3405PEFR-50-MA																●	34	13.765	5.56	0.8	5.56		
	340512PEFR-50-MA																	34	13.765	5.56	1.2	5.56		
	340516PEFR-50-MA																	34	13.765	5.56	1.6	5.56		
	340504PEFR-63-MA																●	34	13.803	5.56	0.4	5.56		
	3405PEFR-63-MA																●	34	13.803	5.56	0.8	5.56		
	340512PEFR-63-MA																	34	13.803	5.56	1.2	5.56		
	340516PEFR-63-MA																	34	13.803	5.56	1.6	5.56		
LXET-ML	250404PEER-32-ML																	25	10.775	4.76	0.4	4.5		E337~ E340
	2504PEER-32-ML																	25	10.775	4.76	0.8	4.5		
	250412PEER-32-ML																	25	10.775	4.76	1.2	4.5		
	250416PEER-32-ML																	25	10.775	4.76	1.6	4.5		
	250404PEER-40-ML																	25	10.618	4.76	0.4	4.5		
	2504PEER-40-ML																	25	10.618	4.76	0.8	4.5		
	250412PEER-40-ML																	25	10.618	4.76	1.2	4.5		
	250416PEER-40-ML																	25	10.618	4.76	1.6	4.5		
	340504PEER-50-ML																	34	13.765	5.56	0.4	5.56		
	3405PEER-50-ML																	34	13.765	5.56	0.8	5.56		
	340512PEER-50-ML																	34	13.765	5.56	1.2	5.56		
	340516PEER-50-ML																	34	13.765	5.56	1.6	5.56		
	340504PEER-63-ML																	34	13.803	5.56	0.4	5.56		
	3405PEER-63-ML																	34	13.803	5.56	0.8	5.56		
	340512PEER-63-ML																	34	13.803	5.56	1.2	5.56		
	340516PEER-63-ML																	34	13.803	5.56	1.6	5.56		

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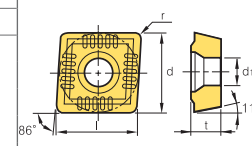
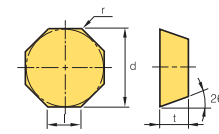
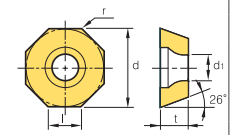
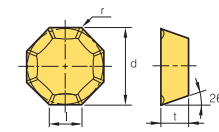
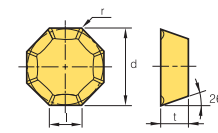
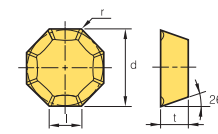
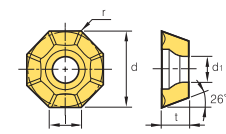
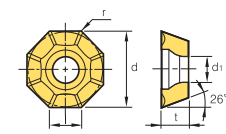
Frezeleme Uçları E

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5400	ST30A	H01
	Çelik	P	●	⬌	⬌	✱	●	✱	✱	●	⬌	⬌	⬌			✱	⬌	
	Paslanmaz çelik	M			⬌	✱								✱		✱		
	Dökme demir	K					⬌			⬌	⬌				●	✱		●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S														✱		
	Sertleştirilmiş Çelik	H								●	⬌					✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Ölçüler (mm) l	d	t	r	d_1	Geometri	Uygun takımlar
MPMT	090308	9.5	9.525	3.18	0.8	4.5		-
	120408 (PC3500 ●)	12.7	12.7	4.76	0.8	5.5		
OFCN	0704SN (PC6510 ●)	7.4	18	4.86	0.5	-		E58
	0704FN	7.4	18	4.86	0.5	-		
	070408SN	7.4	18	4.86	0.8	-		
	070408FN	7.4	18	4.86	0.8	-		
	070408TN	7.4	18	4.86	0.8	-		
OFCW	05T3SN	5.2	12.7	3.85	0.5	4.4		E57
	05T3FN	5.2	12.7	3.85	0.5	4.4		
	05T308FN	5.2	12.7	3.85	0.8	4.4		
OFKR-MA	0704FN-MA (Kaplamasız ●)	7.4	18	4.76	0.5	-		E58
	0704EN-MA	7.4	18	4.76	0.5	-		
OFKR-MF	0704SN-MF (CN2000 ●, CN30 ●)	7.4	18	4.76	0.5	-		E58
	070408SN-MF	7.4	18	4.76	0.8	-		
OFKR-MM	0704SN-MM (CN2000 ●, CN30 ●, PC3500 ●, PC6510 ●, PC5400 ●)	7.4	18	4.76	0.5	-		E58
	070408SN-MM (CN2000 ●)	7.4	18	4.76	0.8	-		
OFKT-MA	05T3FN-MA (Kaplamasız ●)	5.2	12.7	3.97	0.5	4.4		E57 E58
	05T3EN-MA	5.2	12.7	3.97	0.5	4.4		
	0704FN-MA (Kaplamasız ●)	7.4	18	4.76	0.5	5.8		
	0704EN-MA	7.4	18	4.76	0.5	5.8		
OFKT-MF	05T3SN-MF (PC6510 ●)	5.2	12.7	3.97	0.5	4.4		E57
	05T308SN-MF	5.2	12.7	3.97	0.8	5.8		

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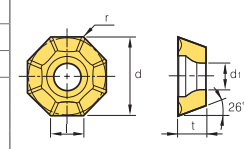
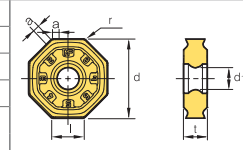
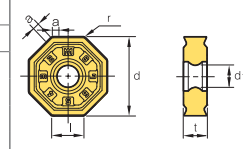
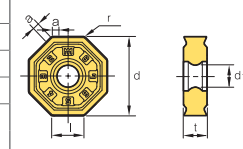
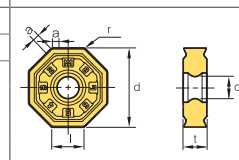
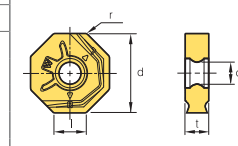
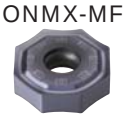
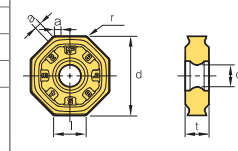
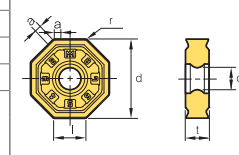
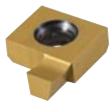
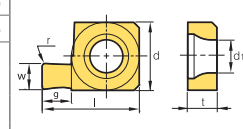
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	H01
	Çelik	P	●	⬢	⬢	●	✖	✖	●	⬢	⬢	⬢			✖	✖	⬢	
	Paslanmaz çelik	M			⬢								✖		✖	✖		
	Dökme demir	K				⬢			⬢	⬢				●	✖	✖		●
	Demir-dışı metaller	N																⬢
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S													✖	✖		
	Sertleştirilmiş Çelik	H							●	⬢					⬢	✖		

İşleme tipi

● Sürekli Kesme
⬢ Genel Kesme
✖ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d1	a	W	g	Geometri	Uygun takımlar
OFKT-MM	05T3SN-MM	5.2	12.7	3.97	0.5	4.4	-	-	-		E57
	05T308SN-MM	5.2	12.7	3.97	0.8	4.4	-	-	-		E58
	0704SN-MM	7.4	18	4.76	0.5	5.5	-	-	-		
ONHX-MF	060608-MF	6.6	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-MF	8.4	20.2	6.0	0.8	5.6	-	-	-		E127
	0606ANN-MF	6.6	16.0	6.0	0.8	5.6	1.03	-	-		
	0806ANN-MF	8.4	20.2	6.0	0.8	5.6	1.53	-	-		
ONHX-ML Yeni	060608-ML	6.6	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-ML	8.4	20.2	6.0	0.8	5.6	-	-	-		E127
ONHX-MM	060608-MM	6.6	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-MM	8.4	20.2	6.0	0.8	5.6	-	-	-		E127
	0606ANN-MM	6.6	16.0	6.0	0.8	5.6	1.03	-	-		
	0806ANN-MM	8.4	20.2	6.0	0.8	5.6	1.53	-	-		
ONHX-MA	060608-MA	6.6	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-MA	8.4	20.2	6.0	0.8	5.6	-	-	-		E127
ONHX-W	060608-W	6.5	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-W	8.2	20.2	6.0	0.8	5.6	-	-	-		E127
ONMX-MF 	060608-MF	6.6	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-MF	8.4	20.2	6.0	0.8	5.6	-	-	-		E127
	0606ANN-MF	6.6	16.0	6.0	0.8	5.6	1.03	-	-		
	0806ANN-MF	8.4	20.2	6.0	0.8	5.6	1.53	-	-		
ONMX-MM	060608-MM	6.6	16.0	6.0	0.8	5.6	-	-	-		E126
	080608-MM	8.4	20.2	6.0	0.8	5.6	-	-	-		E127
	0606ANN-MM	6.6	16.0	6.0	0.8	5.6	1.03	-	-		
	0806ANN-MM	8.4	20.2	6.0	0.8	5.6	1.53	-	-		
ORG 	265	10	7	3.0	0.3	3.5	-	2.65	2.8		E311
	325	10	7	3.0	0.3	3.5	-	3.25	2.8		
	405	15	12	4.5	0.5	4.5	-	4.05	4.5		
	470	15	12	4.5	0.5	4.5	-	4.70	4.5		

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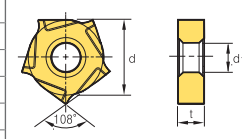
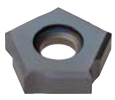
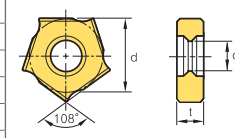
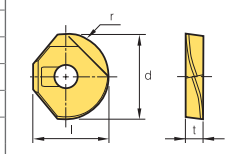
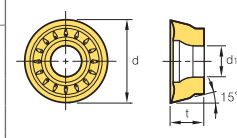
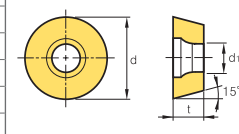
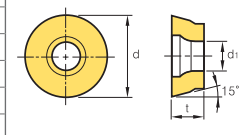
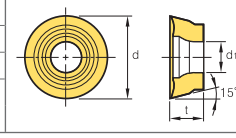
Frezeleme Uçları E

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC210F	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	H01
	Çelik	P	●	⬌	●	✱	✱	✱	●	⬌	⬌	⬌			✱	✱	⬌	
	Paslanmaz çelik	M						⬌					✱		✱	✱		
	Dökme demir	K			⬌			✱	⬌	⬌				●	✱	✱		●
	Demir-dışı metaller	N						●										⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S						●							✱	✱		
	Sertleştirilmiş Çelik	H						✱	●	⬌					⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı											Kaplamasız		Ölçüler (mm)						Geometri	Uygun takımlar
		CN2000	CN30	NC5330	NC5340	NC5350	PC210F	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	H01	l	d	t	r	d_1	Kesici Genişlik		
PNEJ	1223N									●								-	12.7	2.3	-	5.0	4.0		E350
	1225N																	-	12.7	2.5	-	5.0	4.5		E351
	1230N																	-	12.7	3.0	-	5.0	5.0		
	1235N									●				●				-	12.7	3.5	-	5.0	6.0		
	1240N									●				●				-	12.7	4.0	-	5.0	7.0		
	1245N									●				●				-	12.7	4.5	-	5.0	8.0		
	1250N																	-	12.7	5.0	-	5.0	9.0		
	1255N									●								-	12.7	5.5	-	5.0	10.0		
	1260N																	-	12.7	6.0	-	5.0	11.0		
	1265N													●				-	12.7	6.5	-	5.0	12.0		
	1270N																	-	12.7	7.0	-	5.0	13.0		
	1275N													●				-	12.7	7.5	-	5.0	14.0		
	1285N																	-	12.7	8.5	-	5.0	16.0		
PNEJ-C 	1223N-C03																	-	12.7	2.3	-	5.0	4.0		E350
	1230N-C03																	-	12.7	3.0	-	5.0	5.0		E351
	1235N-C03																	-	12.7	3.5	-	5.0	6.0		
	1240N-C05																	-	12.7	4.0	-	5.0	7.0		
	1245N-C05																	-	12.7	4.5	-	5.0	8.0		
	1250N-C05																	-	12.7	5.0	-	5.0	9.0		
	1255N-C05																	-	12.7	5.5	-	5.0	10.0		
	1260N-C05																	-	12.7	6.0	-	5.0	11.0		
	1265N-C05																	-	12.7	6.5	-	5.0	12.0	✱ C03: Chamfer 0.3 mm C05: Chamfer 0.5 mm	
	1270N-C05																	-	12.7	7.0	-	5.0	13.0		
	1275N-C05																	-	12.7	7.5	-	5.0	14.0		
RC	16						●											15.8	16	3.5	8	-	-		E300
	20						●											17.8	20	4	10	-	-		
	25						●											22.0	25	5	12.5	-	-		
	30																	26.8	30	6	15	-	-		
	32						●											27.8	32	6	16	-	-		
RDCT-MA	10T3M0-MA															●		-	10	3.97	-	3.85	-		E223
	1204M0-MA															●		-	12	4.76	-	4.5	-		E224 E229 E230 E235
RDHW	0501M0F																	-	5	1.59	-	2.3	-		E227
	0501M0E											●						-	5	1.59	-	2.3	-		E228
	0501M0S																	-	5	1.59	-	2.3	-		E233
	06T1M0F																	-	6	1.98	-	2.5	-		E234
	06T1M0E											●						-	6	1.98	-	2.5	-		
	06T1M0S																	-	6	1.98	-	2.5	-		
	0702M0F																	-	7	2.38	-	2.8	-		
	0702M0E											●						-	7	2.38	-	2.8	-		
	0702M0S																	-	7	2.38	-	2.8	-		
	0803M0F																	-	8	3.18	-	3.4	-		
	0803M0E											●						-	8	3.18	-	3.4	-		
	0803M0S																	-	8	3.18	-	3.4	-		
RDHW	1605M0F																	-	16	5.56	-	5.5	-		E225
	1605M0E																	-	16	5.56	-	5.5	-		E226
	1605M0S																	-	16	5.56	-	5.5	-		E231
	2006M0F																	-	20	6.35	-	5.5	-		E232
	2006M0E																	-	20	6.35	-	5.5	-		E235
	2006M0S																	-	20	6.35	-	5.5	-		
RDKT-MF	10T3M0-MF											●		●				-	10	3.97	-	3.85	-		E223
	1204M0-MF											●		●				-	12	4.76	-	4.5	-		E224
	1605M0-MF																	-	16	5.56	-	5.5	-		E229 E230 E235

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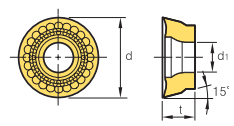
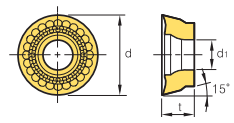
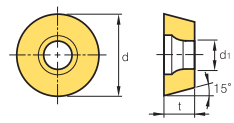
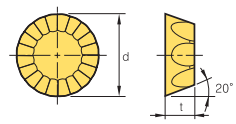
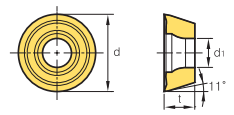
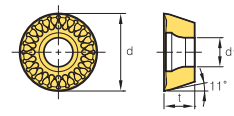
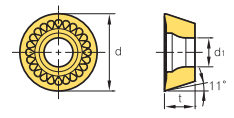
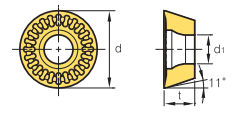
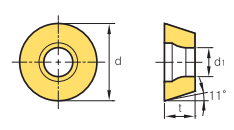
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	H01
	Çelik	P	●	⬌	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱	⬌	
	Paslanmaz çelik	M			⬌								✱		✱	✱		
	Dökme demir	K				⬌			⬌	⬌				●	✱	✱		●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S													✱	✱		
	Sertleştirilmiş Çelik	H							●	⬌					⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d_1	Geometri	Uygun takımlar
RDKT-ML	1605M0-ML	-	16	5.56	-	5.5		E225 E231 E235
RDKT-MM	10T3M0-MM	-	10	3.97	-	3.85		E223~ E226 E229~ E235
	1204M0-MM	-	12	4.76	-	4.5		
	1605M0-MM	-	16	5.56	-	5.5		
	2006M0-MM	-	20	6.35	-	5.5		
RDKW	0501M0E	-	5	1.59	-	2.3		E227 E228 E233 E234
	06T1M0E	-	6	1.98	-	2.5		
	0702M0E	-	7	2.38	-	2.8		
	0803M0E	-	8	3.18	-	3.4		
REKR-MM	170400-MM	-	17.8	4.76	-	-		E58
RPCT-MA Yeni	10T3M0-MA	-	10	3.97	-	4.0		E237~ E248
	1204M0-MA	-	12	4.76	-	4.5		
	1606M0-MA	-	16	6.35	-	5.5		
	2007M0-MA	-	20	7.00	-	7.0		
RPET-ML Yeni	0803M0E-ML	-	8	3.18	-	3.4		E237~ E248
	103TM0E-ML	-	10	3.97	-	4.0		
	1204M0E-ML	-	12	4.76	-	4.5		
	1606M0E-ML	-	16	6.35	-	5.5		
	2007M0E-ML	-	20	7.00	-	7.0		
RPMT-MF Yeni	0803M0E-MF	-	8	3.18	-	3.4		E237~ E248
	10T3M0E-MF	-	10	3.97	-	4.0		
	1204M0E-MF	-	12	4.76	-	4.5		
	1606M0E-MF	-	16	6.35	-	5.5		
	2007M0E-MF	-	20	7.00	-	7.0		
RPMT-MM Yeni	0803M0S-MM	-	8	3.18	-	3.4		E237~ E248
	10T3M0S-MM	-	10	3.97	-	4.0		
	1204M0S-MM	-	12	4.76	-	4.5		
	1606M0S-MM	-	16	6.35	-	5.5		
	2007M0S-MM	-	20	7.00	-	7.0		
RPMW Yeni	0803M0E1	-	8	3.18	-	3.4		E237~ E248
	10T3M0E1	-	10	3.97	-	4.0		
	1204M0S1	-	12	4.76	-	4.5		
	1204M0S2	-	12	4.76	-	4.5		
	1606M0S1	-	16	6.35	-	5.5		
	2007M0S1	-	20	7.00	-	7.0		

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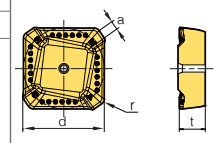
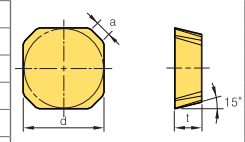
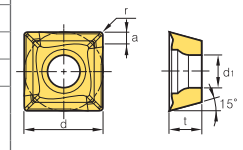
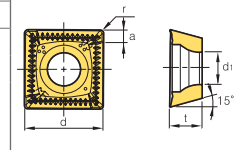
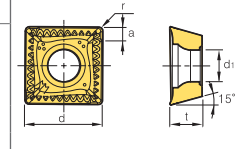
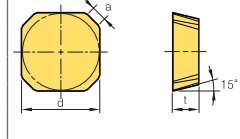
Frezeleme Uçları E

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PD2000	ST30A	G10	H01
	Çelik	P	●	⬌	⬌	✱	●	✱	✱	⬌	⬌			✱		⬌		
	Paslanmaz çelik	M			⬌	✱						✱		✱				
	Dökme demir	K					⬌						●	✱			⬌	●
	Demir-dışı metaller	N													●			⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱				
	Sertleştirilmiş Çelik	H												⬌				

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet CN2000	Sermet CN30	Kaplamalı NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PD2000	Kaplamasız ST30A	G10	H01	l	d	t	r	d1	a	Geometri	Uygun takımlar
SCKN	220715DDSR-MM																	-	22.0	7.0	1.5	-	2.5		E53
	280920DDSR-MM																	-	28.0	9.0	2.0	-	3.0		
SDCN	42M															●		-	12.7	3.18	-	-	1.5		E42
	42M-G																●	-	12.7	3.18	-	-	1.5		E46
	42MT	●	●		●										●			-	12.7	3.18	-	-	1.5		E54
	42MT-RH																	-	12.7	3.18	-	-	1.5		E55
	42MT-S20										●							-	12.7	3.18	-	-	1.5		
	53M															●		-	15.875	4.76	-	-	1.5		
	53M-G																●	-	15.875	4.76	-	-	1.5		
	53MT		●	●											●			-	15.875	4.76	-	-	1.5		
	53MT-RH								●									-	15.875	4.76	-	-	1.5		
	53MT-S20										●							-	15.875	4.76	-	-	1.5		
	1203AEEN																	-	12.7	3.18	-	-	1.5		
	1203AEEN-RH																	-	12.7	3.18	-	-	1.43		
	1203AESN																	-	12.7	3.18	-	-	1.5	• **Kenar Kesme Geometresi** · G: Hafif Kenar, Keskin Kenar · S20: STS · RH: Güçlendirilmiş Kenar • **Yan - Kesme Kenar Geometrisi** · M: AEFN · MT: AETN	
	1203AESN-RH																	-	12.7	3.18	-	-	1.43		
	1504AEEN																	-	15.875	4.76	-	-	1.5		
	1504AEEN-RH											●	●					-	15.875	4.76	-	-	1.43		
	1504AESN																	-	15.875	4.76	-	-	1.5		
	1504AESN-RH										●	●						-	15.875	4.76	-	-	1.43		
SDET-MA	09M402R-MA													●		●		-	9.525	3.923	0.2	4.0	1.2		E217~ E222
	09M404R-MA																	-	9.525	3.923	0.4	4.0	1.2		
	09M405R-MA																	-	9.525	3.923	0.5	4.0	1.2		
	130504R-MA																●	-	13.5	5.56	0.4	5.56	2.2		
SDET-MF	09M405R-MF																	-	9.525	4	0.5	4	1.2		E217~ E222
	130508R-MF																	-	13.5	5.56	0.8	5.56	2.2		
SDET-MM	09M405R-MM																	-	9.525	4	0.5	4	1.2		E217~ E222
	130508R-MM																	-	13.5	5.56	0.8	5.56	2.2		
SDKN-CM	42MT-CM		●															-	12.7	3.18	-	-	1.5		E42 E54

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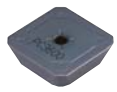
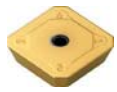
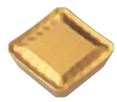
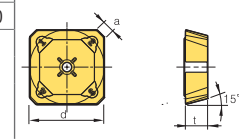
E Frezeleme Uçları

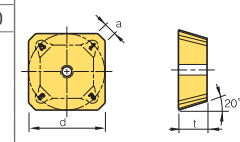
İş parçası		CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
Çelik	P	●	⬢	⬢	✱	●	✱	✱	⬢	⬢			✱	✱	⬢		
Paslanmaz çelik	M			⬢	✱						✱		✱	✱			
Dökme demir	K					⬢						●	✱	✱		⬢	●
Demir-dışı metaller	N																⬢
Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
Sertleştirilmiş Çelik	H												⬢	✱			

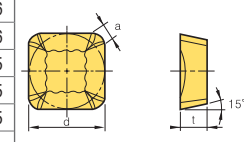
İşleme tipi

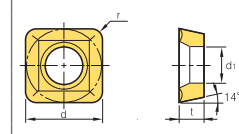
● Sürekli Kesme
⬢ Genel Kesme
✱ Darbeli Kesme

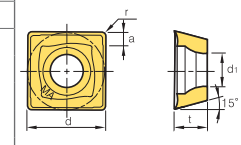
Kesici uç	Kod	CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01	l	d	t	r	d1	a	Uygun takımlar
		Sermet		Kaplamalı											Kaplamasız			Ölçüler (mm)						
SDKN-MU 	1203AESN-MU									●								-	12.7	3.18	-	-	2.08	E42
	1504AESN-MU									●								-	15.875	4.76	-	-	2.10	E46
																								E54 E55
SDKN-SU 	1203AESN-SU									●			●	●				-	12.7	3.18	-	-	2.08	E42
	1504AESN-SU									●			●	●				-	15.875	4.76	-	-	2.10	E46
																								E54 E55
SDKR-MX 	1203AESN-MX																	-	12.7	3.18	-	-	1.46	E42
	1203AETN-MX																	-	12.7	3.18	-	-	1.46	E46
	1203AEN-MX			●														-	12.7	3.18	-	-	1.46	E54
	1504AESN-MX				●													-	15.875	4.76	-	-	1.45	E55
	1504AETN-MX																	-	15.875	4.76	-	-	1.45	
	1504AEN-MX			●														-	15.875	4.76	-	-	1.45	
SDMT-MM	090308-MM								●				●					-	9.525	3.18	0.8	4.4	-	E280 E303
SDXT-MA	09M405R-MA																●	-	9.525	4.0	0.5	4.0	1.2	E217~ E222
	130508R-MA																●	-	13.5	5.56	0.8	5.56	2.2	
SDXT-MF	09M403R-MF																	-	9.525	4.0	0.3	4.0	1.2	E217~ E222
	09M403L-MF																	-	9.525	4.0	0.3	4.0	1.2	
	09M404R-MF																	-	9.525	4.0	0.4	4.0	1.2	
	09M404L-MF																	-	9.525	4.0	0.4	4.0	1.2	
	09M405R-MF			●						●	●	●	●	●				-	9.525	4.0	0.5	4.0	1.2	
	09M405L-MF																	-	9.525	4.0	0.5	4.0	1.2	
	130508R-MF			●						●	●	●	●	●				-	13.5	5.56	0.8	5.56	2.2	
SDXT-MM	09M405R-MM			●	●				●	●	●	●	●	●				-	9.525	4.0	0.5	4.0	1.2	E217~ E222
	09M405L-MM									●		●						-	9.525	4.0	0.5	4.0	1.2	
	130508R-MM			●	●				●	●	●	●	●	●				-	13.5	5.56	0.8	5.56	2.2	
	130508L-MM																	-	13.5	5.56	0.8	5.56	2.2	
	130538-MM																	-	13.5	5.56	3.8	5.56	2.2	
SECA	1204AFSN			●														-	12.7	4.76	-	5.56	2.66	-
	1204AFTN																	-	12.7	4.76	-	5.56	2.66	
	1204AFFN																	-	12.7	4.76	-	5.56	2.66	
	1204AFEN		●						●		●							-	12.7	4.76	-	5.56	2.66	
	1504AFSN																	-	15.875	4.76	-	5.5	2.8	
	1504AFTN																	-	15.875	4.76	-	5.5	2.8	
	1504AFFN																	-	15.875	4.76	-	5.5	2.8	

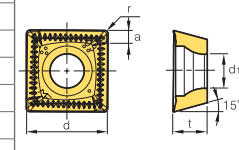


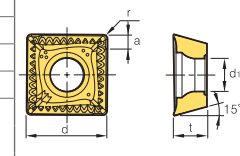


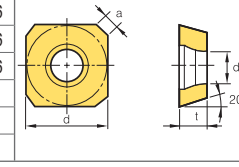












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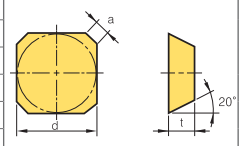
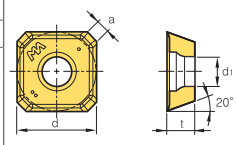
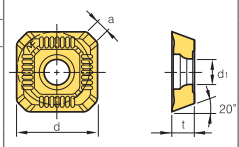
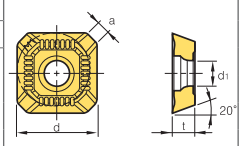
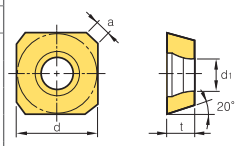
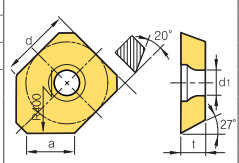
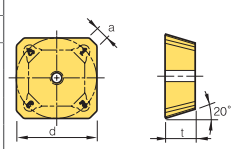
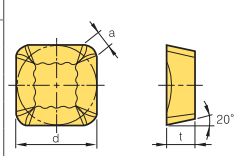
Frezeleme Uçları E

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3600	PC9530	PC6510	PC5300	PC5400	PD2000	ST30A	G10	H01
	Çelik	P	●	⬌	⬌	✱	●	✱	✱	⬌			✱	✱		⬌		
	Paslanmaz çelik	M			⬌	✱					✱		✱	✱				
	Dökme demir	K					⬌					●	✱	✱			⬌	●
	Demir-dışı metaller	N													●			⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S											✱	✱				
	Sertleştirilmiş Çelik	H											⬌	✱				

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı										Kaplamasız			Ölçüler (mm)						Geometri	Uygun takımlar
		CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3600	PC9530	PC6510	PC5300	PC5400	PD2000	ST30A	G10	H01	l	d	t	r	d_1	a		
SECN	1203AFFN															●	●	-	12.7	3.18	-	-	2.36	 ● Kenar Şekli - S20: STS - RH: Güçlendirilmiş Kenar, STS	E44 E45
	1203AFTN	●	●												●			-	12.7	3.18	-	-	2.36		
	1203AFEN																	-	12.7	3.18	-	-	2.36		
	1203AFSN			●	●													-	12.7	3.18	-	-	2.36		
	1203AFEN-RH										●	●						-	12.7	3.18	-	-	2.36		
	1203AFSN-RH																	-	12.7	3.18	-	-	2.36		
	1203AFTN-S20									●								-	12.7	3.18	-	-	2.36		
	1504AFFN															●		-	15.875	4.76	-	-	2.4		
	1504AFTN		●															-	15.875	4.76	-	-	2.4		
	1504AFEN																	-	15.875	4.76	-	-	2.4		
	1504AFSN																	-	15.875	4.76	-	-	2.4		
	1504AFEN-RH																	-	15.875	4.76	-	-	2.4		
	1504AFSN-RH										●							-	15.875	4.76	-	-	2.4		
	1504AFTN-S20																	-	15.875	4.76	-	-	2.4		
SEET-MA	0903AGFN-MA													●			●	-	9.525	3.18	-	3.4	2.11		E211~ E216
	14M4AGFN-MA																●	-	14.0	4.0	-	4.4	2.64		
SEET-MF	0903AGSN-MF									●	●	●	●					-	9.525	3.18	-	3.4	2.11		E211~ E216
	14M4AGSN-MF									●	●	●	●					-	14.0	4.0	-	4.4	2.64		
SEET-MM	0903AGSN-MM										●	●	●					-	9.525	3.18	-	3.4	2.11		E211~ E216
	14M4AGSN-MM									●	●	●	●	●				-	14.0	4.0	-	4.4	2.64		
SEEW	0903AGTN																	-	9.525	3.18	-	3.4	2.11		E211~ E216
	14M4AGTN		●															-	14.0	4.0	-	4.4	2.64		
SEEW-W	14M4AGFN-W																	-	14.0	4.0	-	4.4	8.5		E212 E214 E216
	14M4AGSN-W											●						-	14.0	4.0	-	4.4	8.5		
	14M4AGTN-W									●		●						-	14.0	4.0	-	4.4	8.5		
SEKN-SU	1203AFSN-SU									●								-	12.7	3.18	-	1.98	-		E44 E45
	1504AFSN-SU									●								-	15.875	4.76	-	2.04	-		
SEKR-MF1	1203AFSN-MF1																	-	12.7	3.18	-	2.3	-		E44 E45

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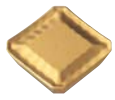
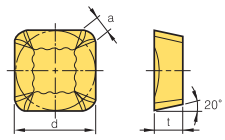
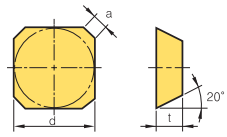
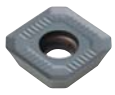
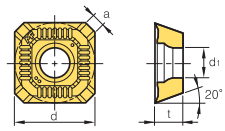
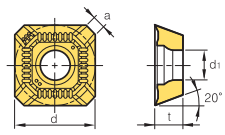
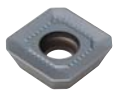
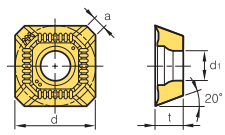
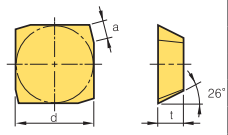
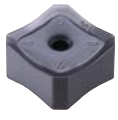
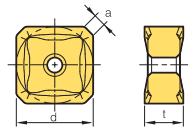
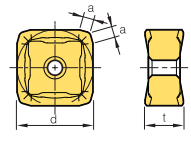
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⊛	⊛	✱	●	✱	✱	⊛	⊛			✱	✱	⊛		
	Paslanmaz çelik	M			⊛	✱						✱		✱	✱			
	Dökme demir	K					⊛						●	✱	✱		⊛	●
	Demir-dışı metaller	N																⊛
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H												⊛	✱			

İşleme tipi

● Sürekli Kesme
⊛ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı										Kaplamasız			Ölçüler (mm)					Geometri	Uygun takımlar
		CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01	l	d	t	d_1	a		
SEKR-MX 	1203AFSN-MX			●	●						●							-	12.7	3.18	-	2.3		E44
	1204AFSN-MX			●														-	12.7	4.76	-	2.3		E45
	1504AFSN-MX			●							●							-	15.875	4.76	-	2.4		
SEMN	1204AZ																	-	12.7	4.76	-	2.0		-
SEXT-MF 	0903AGSN-MF									●		●	●	●				-	9.525	3.18	3.4	2.11		E211~
	14M4AGSN-MF									●		●	●	●				-	14.0	4.0	4.4	2.64		E216
SEXT-MM	0903AGSN-MM								●	●		●	●	●				-	9.525	3.18	3.4	2.11		E211~
	14M4AGSN-MM			●	●				●	●	●	●	●	●				-	14.0	4.0	4.4	2.64		E216
SEXT-MR 	0903AGSN-MR																	-	9.525	3.18	3.4	2.11		E211~
	14M4AGSN-MR										●		●					-	14.0	4.0	4.4	2.64		E216
SFCN	1203EFR																●	-	12.7	3.18	-	2.5		E46
SNC(M)F-MF 	SNCF 1206ANN-MF																	-	12.7	6.6	-	2		E121
	SNCF 1507ANN-MF											●						-	15.875	7.35	-	2.1		E122
	SNMF 1206ANN-MF																	-	12.7	6.6	-	2		
	SNMF 1507ANN-MF																	-	15.875	7.35	-	2.1		
	SNCF 1206ENN-MF											●						-	12.7	6.6	-	1.8		E123
	SNCF 1507ENN-MF											●						-	15.875	7.35	-	1.8		E124
	SNMF 1206ENN-MF								●									-	12.7	6.6	-	1.8		
	SNMF 1507ENN-MF																	-	15.875	7.35	-	1.8		

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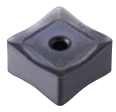
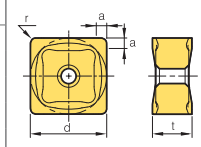
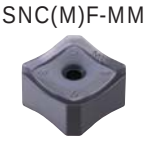
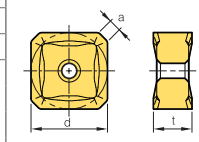
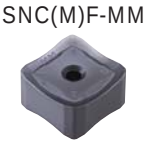
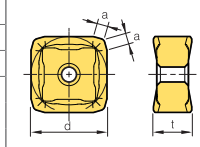
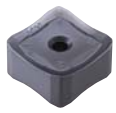
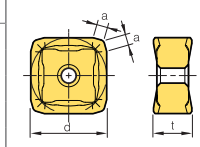
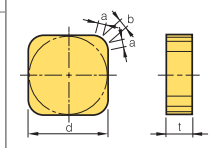
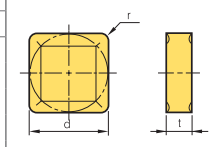
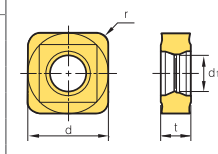
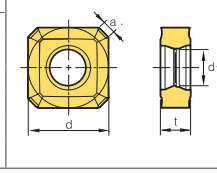
Frezeleme Uçları E

İş parçası			CN2000	CN30	NCM325	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	H01
	Çelik	P	●	⬌	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱	⬌	
	Paslanmaz çelik	M			⬌								✱		✱	✱		
	Dökme demir	K				⬌			⬌	⬌				●	✱	✱		●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S													✱	✱		
	Sertleştirilmiş Çelik	H							●	⬌					⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d_1	a	b	Geometri	Uygun takımlar
SNC(M)F-MF 	SNCF 1206QNN-MF	-	12.7	6.6	0.8	-	1	-		E125
	SNMF 1206QNN-MF	-	12.7	6.6	0.8	-	1	-		
SNC(M)F-MM 	SNCF 1206ANN-MM	-	12.7	6.6	-	-	2	-		E121
	1507ANN-MM	-	15.875	7.35	-	-	2.1	-		E122
	SNMF 1206ANN-MM	-	12.7	6.6	-	-	2	-		
	1507ANN-MM	-	15.875	7.35	-	-	2.1	-		
SNC(M)F-MM 	SNCF 1206ENN-MM	-	12.7	6.6	-	-	1.8	-		E123
	1507ENN-MM	-	15.875	7.35	-	-	1.8	-		E124
	SNMF 1206ENN-MM	-	12.7	6.6	-	-	1.8	-		
	1507ENN-MM	-	15.875	7.35	-	-	1.8	-		
SNC(M)F-MM 	SNCF 1206QNN-MM	-	12.7	6.6	0.8	-	1	-		E125
	SNMF 1206QNN-MM	-	12.7	6.6	0.8	-	1	-		
SNCN	1204ENN	-	12.7	4.76	-	-	1.4	1.0		E47
	1504ENN	-	15.875	4.76	-	-	1.4	1.0		
SNEF	435	-	12.7	4.76	2.0	-	-	-		E366
	535	-	15.875	4.76	2.0	-	-	-		
SNEU-MF	120420-MF	-	12.7	4.76	2.0	5.7	(2.3)	-		E368
SNEU-MF	1204ANN-MF	-	12.7	4.76	-	5.7	(2.0)	-		E368

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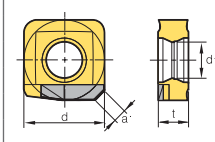
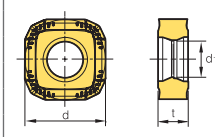
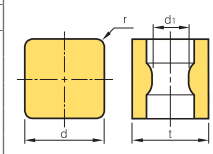
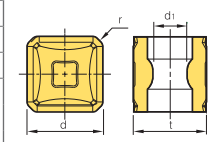
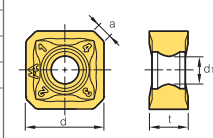
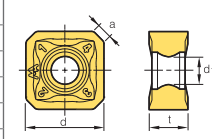
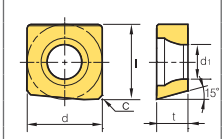
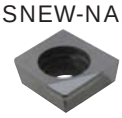
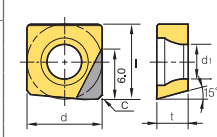
E Frezeleme Uçları

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	H01	DP150	DP200
	Çelik	P	●	⬌	●	✖	✖	●	⬌	⬌	⬌			✖	✖			
	Paslanmaz çelik	M										✖		✖	✖			
	Dökme demir	K			⬌			⬌	⬌				●	✖	✖	●		
	Demir-dışı metaller	N														⬌	●	●
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✖	✖			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✖			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✖ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d_1	a	Geometri	Uygun takımlar
SNEU-TBW	**1204-TBW**	-	12.7	4.76	-	5.7	(2.1)		E368
SNEU-WMF	**1204R-WMF**	-	12.7	4.76	-	5.7	-		E368
SNEX	**101010**	-	10	10	1.0	4.6	-		-
	1010ZNN	-	10	10	(1.0)	4.6	-		
SNEX-CU1	**101010-CU1**	-	10	10	1.0	4.6	-		-
	1010ZNN-CU1	-	10	10	(1.0)	4.6	-		
	121212-CU1	-	12.7	12.7	1.2	5.6	-		
	1212ZNN-CU1	-	12.7	12.7	(1.2)	5.6	-		
SNEX-MA	**1206ANN-MA**	-	12.7	6.35	-	4.5	2.36		E111~ E120
	1206ENN-MA	-	12.7	6.35	-	5.2	1.82		
	1206QNN-MA	-	12.7	6.35	-	5.2	1.39		
	120612-MA	-	12.7	6.35	1.2	5.2	-		
SNEX-ML	**1206ANN-ML**	-	12.7	6.35	-	4.5	-		E111~ E120
	1206ENN-ML	-	12.7	6.35	-	4.5	2.36		
	1206QNN-ML	-	12.7	6.35	-	4.5	1.82		
	120612-ML	-	12.7	6.35	1.2	4.5	1.39		
	1507ANN-ML	-	15.875	7.94	-	5.6	3.16		
	1507ENN-ML	-	15.875	7.94	-	5.6	2.66		
SNEW	**09T3ADFR**	9.525	9.525	3.97	-	4.4	-		E135 E136
SNEW-NAF 	**09T3ADTR-NAF**	9.525	9.525	3.97	-	4.4	-		E135 E136
	09T3ADTR-NAW	9.525	9.525	3.97	-	4.4	-		
	NAW: Silici uç								

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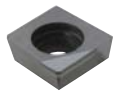
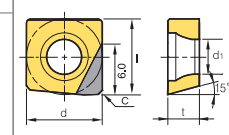
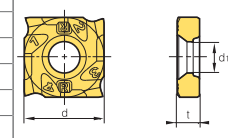
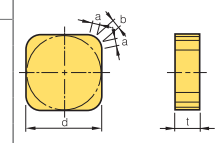
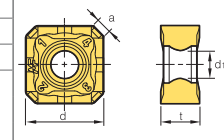
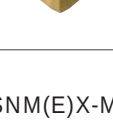
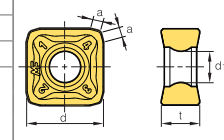
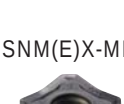
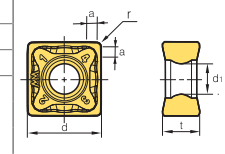
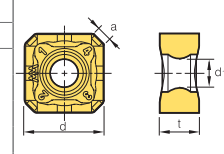
Frezeleme Uçları E

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	H01	DP150	DP200
	Çelik	P	●	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱			
	Paslanmaz çelik	M										✱		✱	✱			
	Dökme demir	K			⬌			⬌	⬌				●	✱	✱	●		
	Demir-dışı metaller	N														⬌	●	●
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✱			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod		Sermet CN2000	Sermet CN30	Kaplamalı NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	Kaplamasız H01	PCD DP150	PCD DP200	l	d	t	r	d_1	a	b	Geometri	Uygun takımlar
SNEW-XAF 	09T3ADTR-XAF																	●	9.525	9.525	3.97	-	4.4	-	-		E135
	09T3ADTR-XAW																	●	9.525	9.525	3.97	-	4.4	-	-		E136
	XAW: Silici uç																										
SNHT-WX	1102308R/L-WX													●					-	11	2.30	-	4	-	-		E355
	110308R/L-WX													●					-	11	3.00	-	4	-	-		E356
	120308R/L-WX																		-	12.7	3.25	-	5	-	-		
	1203508R/L-WX													●					-	12.7	3.50	-	5	-	-		
	120408R/L-WX																		-	12.7	4.00	-	5	-	-		
	1204508R/L-WX													●					-	12.7	4.54	-	5	-	-		
	120508R/L-WX													●					-	12.7	5.00	-	5	-	-		
	1205408R/L-WX													●					-	12.7	5.47	-	5	-	-		
	120608R/L-WX																		-	12.7	6.00	-	5	-	-		
	1206508R/L-WX																		-	12.7	6.50	-	5	-	-		
	120708R/L-WX																		-	12.7	7.00	-	5	-	-		
	1207508R/L-WX																		-	12.7	7.5	-	5	-	-		
SNKN	1204ENN												●						-	12.7	4.76	-	-	1.4	1.0		E47
	1504ENN																		-	15.875	4.76	-	-	1.4	1.0		
SNM(E)X-MF	SNMX 1206ANN-MF									●	●		●	●	●				-	12.7	6.35	-	4.5	2.36	-		E111
	1507ANN-MF										●		●	●	●				-	15.875	7.94	-	5.6	3.15	-		E112
	SNEX 1206ANN-MF									●	●		●	●	●				-	12.7	6.35	-	4.5	2.36	-		E116
	1507ANN-MF												●	●	●				-	15.875	7.94	-	5.6	3.15	-		
SNM(E)X-MF 	SNMX 1206ENN-MF									●	●		●	●	●				-	12.7	6.35	-	4.5	1.82	-		E111~
	1507ENN-MF										●		●	●	●				-	15.875	7.94	-	5.6	2.66	-		E114
	SNEX 1206ENN-MF												●	●	●				-	12.7	6.35	-	4.5	1.82	-		
	1507ENN-MF												●	●	●				-	15.875	7.94	-	5.6	2.66	-		
SNM(E)X-MF 	SNMX 1206QNN-MF									●	●		●	●	●				-	12.7	6.35	-	5.2	2.36	-		E119
	120612-MF										●		●	●	●				-	12.7	6.35	1.2	5.2	-	-		E120
	SNEX 1206QNN-MF									●			●	●	●				-	12.7	6.35	-	5.2	2.36	-		
	120612-MF												●	●	●				-	12.7	6.35	1.2	5.2	-	-		
SNM(E)X-MM	SNMX 1206ANN-MM				●					●	●	●	●	●	●				-	12.7	6.35	-	4.5	2.36	-		E111~
	1507ANN-MM									●	●		●	●	●				-	15.875	7.94	-	5.6	3.15	-		E114
	SNEX 1206ANN-MM									●	●	●	●	●	●				-	12.7	6.35	-	4.5	2.36	-		
	1507ANN-MM												●	●	●				-	15.875	7.94	-	5.6	3.15	-		

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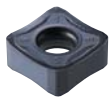
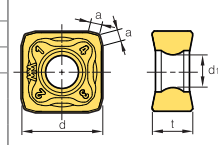
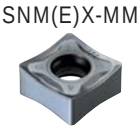
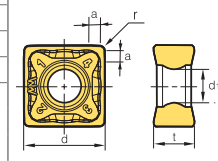
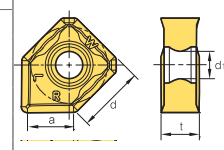
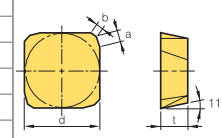
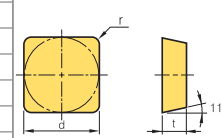
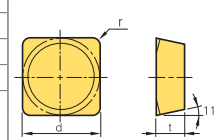
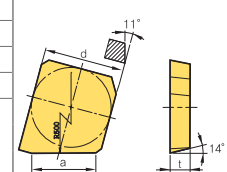
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⬢	⬢	✖	●	✖	✖	⬢	⬢			✖	✖			
	Paslanmaz çelik	M			⬢	✖						✖		✖	✖			
	Dökme demir	K					⬢						●	✖	✖	●		
	Demir-dışı metaller	N														⬢	●	●
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✖	✖			
	Sertleştirilmiş Çelik	H												⬢	✖			

İşleme tipi

● Sürekli Kesme
⬢ Genel Kesme
✖ Darbeli Kesme

Kesici uç	Kod		l	d	t	r	d_1	a	b	Geometri	Uygun takımlar
SNM(E)X-MM 	SNMX	1206ENN-MM	-	12.7	6.35	-	5.2	1.82	-		E115~ E118
		1507ENN-MM	-	15.875	7.94	-	5.6	2.66	-		
	SNEX	1206ENN-MM	-	12.7	6.35	-	5.2	1.82	-		
		1507ENN-MM	-	15.875	7.94	-	5.6	2.66	-		
SNM(E)X-MM 	SNMX	1206QNN-MM	-	12.7	6.35	-	4.5	2.36	-		E119 E120
		120612-MM	-	12.7	6.35	1.2	4.5	-	-		
	SNEX	1206QNN-MM	-	12.7	6.35	-	4.5	2.36	-		
		120612-MM	-	12.7	6.35	1.2	4.5	-	-		
SNEX-W	1206ANN-W		-	12.7	6.35	-	4.5	7.6	-		E111 E112
SPCN	1203EDR		-	12.7	3.18	-	-	1.4	1.0		E48 E49
	1203EDR-RH		-	12.7	3.18	-	-	1.4	1.0		
	1203EDL		-	12.7	3.18	-	-	1.4	1.0		
	1203EDR-G		-	12.7	3.18	-	-	1.4	1.0		
	1203EDR-RN		-	12.7	3.18			1.4	1.0		
	1203EDER-RH		-	12.7	3.18	-	-	1.63	0.8		
	1203EDSR-RH		-	12.7	3.18	-	-	1.63	0.8		
	1203EDTR-RH		-	12.7	3.18	-	-	1.63	0.8		
	1203EDR-S20		-	12.7	3.18	-	-	1.4	1.0		
	1204EDR		-	12.7	4.76	-	-	1.4	1.0		
	150412T		-	15.875	4.76	1.2	-	-	-		
	1504EDR		-	15.875	4.76	-	-	1.4	1.0	 SPCN150412T	
	1504EDR-RH			15.875	4.76	-	-	1.4	1.0		
	1504EDSR		-	15.875	4.76	-	-	1.4	1.0		
	1504EDL		-	15.875	4.76	-	-	1.4	1.0		
	1504EDR-G		-	15.875	4.76	-	-	1.4	1.0		
	1504EDR-RN		-	15.875	4.76	-	-	1.4	1.0		
	1504EDER-RH		-	15.875	4.76	-	-	1.64	0.8		
	1504EDSR-RH		-	15.875	4.76	-	-	1.64	0.8		
	1504EDTR-RH		-	15.875	4.76	-	-	1.64	0.8		
	1504EDR-S20		-	15.875	4.76	-	-	1.4	1.0		
SPEN-WC	120416-WC		-	12.7	4.76	1.6	-	-	-		E367
	150412-WC		-	15.875	4.76	1.2	-	-	-		
	150416-WC		-	15.875	4.76	1.6	-	-	-		
	150420-WC		-	15.875	4.76	2.0	-	-	-		
	190424-WC		-	19.05	4.76	2.4	-	-	-		
SPEX	1203EDR-1		-	12.7	3.18	-	-	10.2	-		E48 E49
	1203EDL-1		-	12.7	3.18	-	-	10.2	-		
	1504EDR-1		-	15.875	4.76	-	-	10.2	-		
	1504EDL-1		-	15.875	4.76	-	-	10.2	-		

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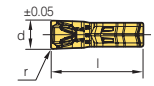
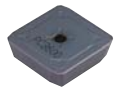
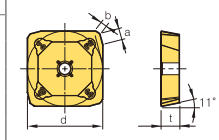
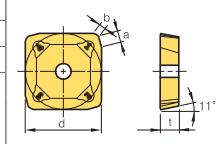
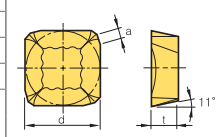
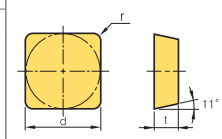
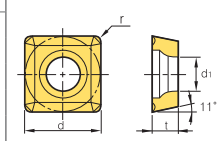
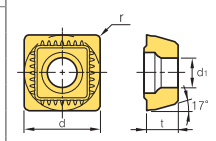
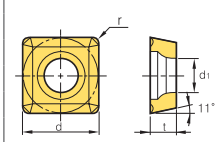
Frezeleme Uçları E

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC5300	PC5400	ST30A	G10
	Çelik	P	●	⬌	⬌	✱	●	✱	✱	●	⬌	⬌	⬌		✱	✱	⬌	
	Paslanmaz çelik	M			⬌	✱								✱	✱	✱		
	Dökme demir	K					⬌			⬌	⬌				✱	✱		⬌
	Demir-dışı metaller	N																
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S													✱	✱		
	Sertleştirilmiş Çelik	H								●	⬌				⬌	✱		

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d_1	a	b	Geometri	Uygun takımlar
SPFN	200-N	8.8	2.2	-	0.2	-	-	-		E352
	300-N	9.8	3.0	-	0.2	-	-	-		
	400-N	9.8	4.0	-	0.25	-	-	-		
SPKN-MU 	1203EDSR-MU	-	12.7	3.18	-	-	0.86	1.87		E48
	1504EDSR-MU	-	15.875	4.76	-	-	0.84	1.92		E49
SPKN-SU	1203EDSR-SU	-	12.7	3.18	-	-	1.66	0.92		E48
	1203EDSL-SU	-	12.7	3.18	-	-	1.66	0.92		E49
	1504EDSR-SU	-	15.875	4.76	-	-	1.62	0.93		
	1504EDSL-SU	-	15.875	4.76	-	-	1.62	0.93		
SPKR-MX	1203EDSR-MX	-	12.7	3.18	-	-	1.4	-		E48
	1203EDSL-MX	-	12.7	3.18	-	-	1.4	-		E49
	1504EDR-MX	-	15.875	4.76	-	-	1.45	-		
	1504EDSR-MX	-	15.875	4.76	-	-	1.45	-		
SPMN	120308	-	12.7	3.18	0.8	-	-	-		E315
SPMT	060304	-	6.35	3.18	0.4	2.8	-	-		E280 E303 E304
SPMT-KC	110408-KC	-	11.5	4.8	0.8	4.5	-	-		E315
SPMT-MM	120408-MM	-	12.7	4.76	0.8	5.6	-	-		E188 E280 E303 E304
	120508-MMN	-	12.7	5.56	0.8	5.6	-	-		

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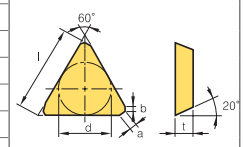
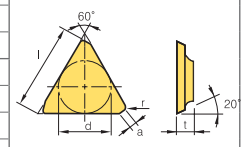
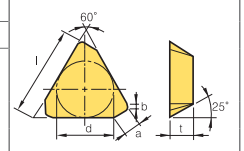
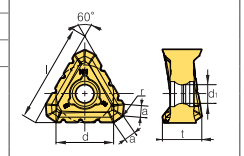
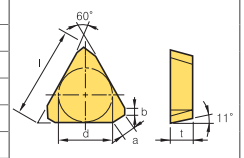
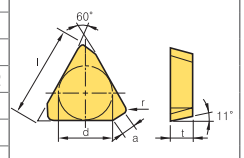
E Frezeleme Uçları

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⦿	⦿	✱	●	✱	✱	⦿	⦿			✱	✱	⦿		
	Paslanmaz çelik	M			⦿	✱						✱		✱	✱			
	Dökme demir	K					⦿						●	✱	✱		⦿	●
	Demir-dışı metaller	N																⦿
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H												⦿	✱			

İşleme tipi

● Sürekli Kesme
⦿ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod		Sermet		Kaplamalı											Kaplamasız			Ölçüler (mm)							Geometri	Uygun takımlar
			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01	l	d	t	r	d1	a	b		
TEC(E)N	TECN	22R																	11.0	6.35	3.18	-	-	1.0	0.5		E56
		22TR		●												●			11.0	6.35	3.18	0.8	-	0.5	-		
		32R															●		16.5	9.525	3.18	-	-	1.0	0.5		
		32R-G																	16.5	9.525	3.18	-	-	1.0	0.5		
		32TR		●		●										●			16.5	9.525	3.18	0.8	-	0.5	-		
		32TR-S20										●							16.5	9.525	3.18	0.8	-	0.5	-		
		43R-G																	22.0	12.7	4.76	-	-	2.0	0.5		
		43TR-Z																	22.0	12.7	4.76	0.8	-	1.5	-		
		43TR																	22.0	12.7	4.76	0.8	-	1.5	-		
	TEEN	32TR																	16.5	9.525	3.18	0.8	-	0.5	-		
TEEN	43R-Z																		22.0	12.7	4.76	-	-	2.0	0.5		E56
	43TR-Z															●			22.0	12.7	4.76	0.8	-	1.5	-		
	43TR-ZH									●		●							22.0	12.7	4.76	0.8	-	1.5	-		
	43R																●		22.0	12.7	4.76	-	-	2.0	0.5		
	43R-G																	●	22.0	12.7	4.76	-	-	2.0	0.5		
	43TR		●	●	●	●							●			●			22.0	12.7	4.76	0.8	-	1.5	-		
	43TR-S20											●							22.0	12.7	4.76	0.8	-	1.5	-		
TFCN	2203PFR																	●	22.0	12.7	3.18	-	-	2.42	0.71		E50
	2203PFL																		22.0	12.7	3.18	-	-	2.42	0.71		
TNMX	2710AZNR-NM					●			●		●		●						27	15.875	10	0.8	5.6	2.63	-		E63
	2710AZNL-NM																		27	15.875	10	0.8	5.6	2.63	-		E65
	3012PNR-NM																		30	17.462	11.970	0.8	5.6	3.5	-		
TPCN	1103PPN			●												●	●		11.0	6.35	3.18	-	-	0.7	0.7		E51
	1103PPTN																		11.0	6.35	3.18	-	-	0.7	0.7		
	1603PDR				●														16.5	9.525	3.18	-	-	1.2	0.7		
	1603PPN			●	●								●				●		16.5	9.525	3.18	-	-	1.2	1.2		
	1603PPR			●	●											●	●	●	16.5	9.525	3.18	-	-	1.2	1.0		
	1603PPR-RH																		16.5	9.525	3.18	-	-	1.2	1.0		
	1603PPR-G																	●	16.5	9.525	3.18	-	-	1.2	1.0		
	1603PPSR																	●	16.5	9.525	3.18	-	-	1.2	1.0		
	1603PPTN																		16.5	9.525	3.18	-	-	1.2	1.2		
	1603PPTR																		16.5	9.525	3.18	-	-	1.2	1.0		
	1603PPR-RH																		16.5	9.525	3.18	-	-	1.2	1.0		
	1603PDER-RH												●	●					16.5	9.525	3.18	0.8	-	1.5	-		
	1603PDSR-RH												●						16.5	9.525	3.18	0.8	-	1.5	-		
	1603PDR-S20											●							16.5	9.525	3.18	-	-	1.2	0.7		
	1603PDR-RN																		16.5	9.525	3.18	-	-	1.5	1.1		
	2204PDR			●	●											●	●		22.0	12.7	4.76	-	-	1.4	0.7		
	2204PDR-RH																		22.0	12.7	4.76	-	-	1.4	0.7		
	2204PDR-RN																		22.0	12.7	4.76	-	-	1.42	0.52		
	2204PDR-G																	●	22.0	12.7	4.76	-	-	1.4	0.7		
	2204PDL															●			22.0	12.7	4.76	-	-	1.4	0.7		
	2204PDSR					●													22.0	12.7	4.76	-	-	1.4	0.7		
	2204PDTR																		22.0	12.7	4.76	-	-	1.4	0.7		
	2204PPN																		22.0	12.7	4.76	-	-	1.2	1.2		
	2204PPTN																		22.0	12.7	4.76	-	-	1.2	1.2		
	2204PDR-RH																		22.0	12.7	4.76	0.8	-	1.8	-		
	2204PDER-RH												●	●					22.0	12.7	4.76	0.8	-	1.8	-		
	2204PDSR-RH												●						22.0	12.7	4.76	0.8	-	1.8	-		
	2204PDR-S20											●							22.0	12.7	4.76	-	-	1.4	0.7		

- **Kenar Şekli**
  - G: Hafif yan, Keskin kenar
  - S20: STS
  - ZH: Delik ekli

●:Stok ürün

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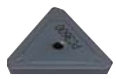
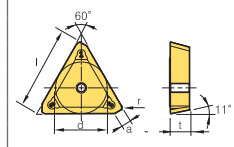
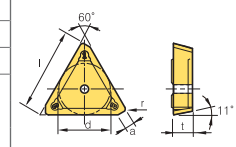
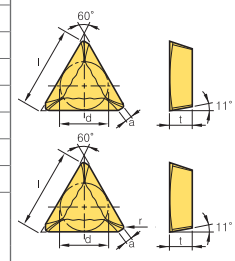
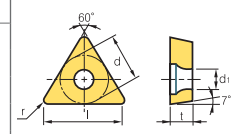
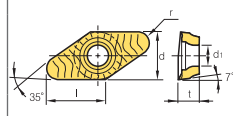
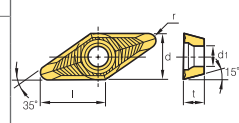
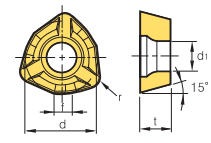
Frezeleme Uçları E

İş parçası			CN2000	CN30	NCM325	NCM335	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	H01
	Çelik	P	●	⬌	⬌	✱	●	✱	✱	●	⬌	⬌	⬌			✱	✱	
	Paslanmaz çelik	M			⬌	✱								✱		✱	✱	
	Dökme demir	K					⬌			⬌	⬌				●	✱	✱	●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S														✱	✱	
	Sertleştirilmiş Çelik	H								●	⬌					⬌	✱	

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d1	a	b	f	Geometri	Uygun takımlar
TPKN-MU 	2204PDSR-MU	22.0	12.7	4.76	0.8	-	1.96	-			E51
TPKN-SU	1603PDSL-SU	16.5	9.525	3.18	1.0	-	1.70	-			E51
	1603PDSR-SU	16.5	9.525	3.18	1.0	-	1.70	-			
	2204PDSL-SU	22.0	12.7	4.76	1.0	-	1.91	-			
	2204PDSR-SU	22.0	12.7	4.76	1.0	-	1.91	-			
TPKR-MX	1603PDSN-MX	16.5	9.525	3.18	-	-	1.2	1.2			E51
	1603PDSR-MX	16.5	9.525	3.18	-	-	1.2	0.7			
	1603PPR-MX	16.5	9.525	3.18	-	-	1.2	1.0			
	1603PPSN-MX	16.5	9.525	3.18	-	-	1.2	1.2			
	1603PPSR-MX	16.5	9.525	3.18	-	-	1.2	1.0			
	2204PDR-MX	22.0	12.7	4.76	1.0	-	1.4	-			
	2204PDSR-MX	22.0	12.7	4.76	1.0	-	1.4	-			
	2204PPR-MX	22.0	12.7	4.76	1.0	-	1.4	-			
TWX-KC	16R-KC	16.5	9.52	3.97	0.8	4.45	-	-	-		E317
	22R-KC	22.0	12.7	4.76	0.8	4.45	-	-	-		
VCKT-MA	220530N-MA	15.6	12.7	5.56	3.0	5.6	-	-	-		E328 E329
VDKT-MA	11T210N-MA	8.8	6.35	2.87	1.0	2.8	-	-	-		E328 E329
	11T220N-MA	6.7	6.35	2.87	2.0	2.8	-	-	-		
WDKT-MH	080316ZDSR-MH	-	8.0	3.18	1.6	3.3	-	-	1.8		E273~ E279
	10T320ZDSR-MH	-	10.0	3.97	2.0	4.3	-	-	2.3		
	130520ZDSR-MH	-	13.5	5.56	2.0	5.56	-	-	3.1		
	150625ZDSR-MH	-	15.0	6.35	2.5	5.56	-	-	3.4		

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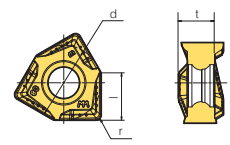
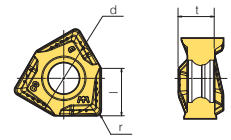
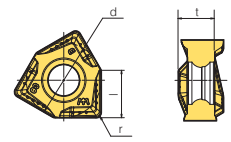
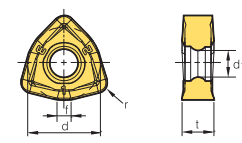
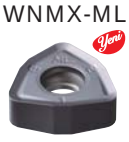
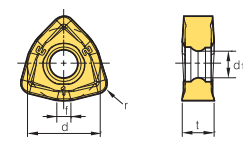
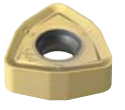
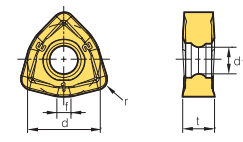
E Frezeleme Uçları

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	PD2000	ST30A	H01
	Çelik	P	●	⬌	●	✖	✖	●	⬌	⬌	⬌			✖	✖		⬌	
	Paslanmaz çelik	M										✖		✖	✖			
	Dökme demir	K			⬌			⬌	⬌				●	✖	✖			●
	Demir-dışı metaller	N														●		⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✖	✖			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✖			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✖ Darbeli Kesme

Kesici uç	Kod	l	d	t	r	d_1	f	Geometri	Uygun takımlar
WNGX-MA	040304PNFR-MA	4.3	7.0	3.46	0.4	-	-		E107~ E109
	040308PNFR-MA	4.3	7.0	3.46	0.8	-	-		
	040312PNFR-MA	4.3	7.0	3.46	1.2	-	-		
	040316PNFR-MA	4.3	7.0	3.46	1.6	-	-		
	080604PNFR-MA	8.2	13.0	6.4	0.4	-	-		
	080608PNFR-MA	8.2	13.0	6.4	0.8	-	-		
	080612PNFR-MA	8.2	13.0	6.4	1.2	-	-		
	080616PNFR-MA	8.2	13.0	6.4	1.6	-	-		
	080620PNFR-MA	8.2	13.0	6.4	2.0	-	-		
WNGX-ML	040304PNER-ML	4.3	7.0	3.46	0.4	-	-		E107~ E109
	040308PNER-ML	4.3	7.0	3.46	0.8	-	-		
	040312PNER-ML	4.3	7.0	3.46	1.2	-	-		
	040316PNER-ML	4.3	7.0	3.46	1.6	-	-		
	080604PNER-ML	8.2	13.0	6.4	0.4	-	-		
	080608PNER-ML	8.2	13.0	6.4	0.8	-	-		
	080612PNER-ML	8.2	13.0	6.4	1.2	-	-		
	080616PNER-ML	8.2	13.0	6.4	1.6	-	-		
	080620PNER-ML	8.2	13.0	6.4	2.0	-	-		
WNGX-MM	040304PNSR-MM	4.3	7.0	3.46	0.4	-	-		E107~ E109
	040308PNSR-MM	4.3	7.0	3.46	0.8	-	-		
	040312PNSR-MM	4.3	7.0	3.46	1.2	-	-		
	040316PNSR-MM	4.3	7.0	3.46	1.6	-	-		
	080604PNSR-MM	8.2	13.0	6.4	0.4	-	-		
	080608PNSR-MM	8.2	13.0	6.4	0.8	-	-		
	080612PNSR-MM	8.2	13.0	6.4	1.2	-	-		
	080616PNSR-MM	8.2	13.0	6.4	1.6	-	-		
	080620PNSR-MM	8.2	13.0	6.4	2.0	-	-		
WNMX-MF	060312ZNN-MF	-	6.35	3.18	1.2	2.86	1.2		E262~ E272
	09T316ZNN-MF	-	9.525	3.97	1.6	3.6	1.7		
	130520ZNN-MF	-	12.7	5.56	2.0	4.7	2.5		
	160720ZNN-MF	-	16.0	7.0	2.0	5.8	3.0		
WNMX-ML 	060312ZNN-ML	-	6.35	3.18	1.2	2.86	1.2		E262~ E272
	09T316ZNN-ML	-	9.525	3.97	1.6	3.6	1.7		
	130520ZNN-ML	-	12.7	5.56	2.0	4.7	2.5		
	160720ZNN-ML	-	16.0	7.0	2.0	5.8	3.0		
WNMX-MM 	060312ZNN-MM	-	6.35	3.18	1.2	2.86	1.2		E262~ E272
	09T316ZNN-MM	-	9.525	3.97	1.6	3.6	1.7		
	130520ZNN-MM	-	12.7	5.56	2.0	4.7	2.5		
	160720ZNN-MM	-	16.0	7.0	2.0	5.8	3.0		

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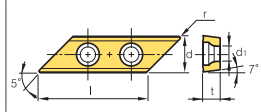
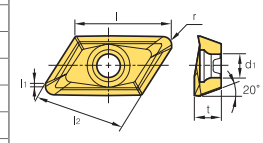
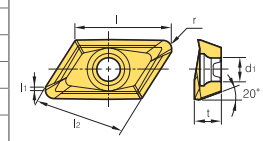
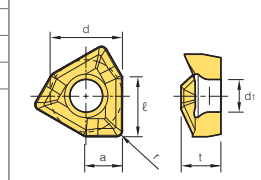
Frezeleme Uçları E

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC5300	PC5400	PD2000	ST30A	G10	H01
	Çelik	P	●	⬌	●	✱	✱	●	⬌	⬌	⬌		✱	✱		⬌		
	Paslanmaz çelik	M										✱	✱	✱				
	Dökme demir	K			⬌			⬌	⬌				✱	✱			⬌	●
	Demir-dışı metaller	N													●			⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S											✱	✱				
	Sertleştirilmiş Çelik	H						●	⬌				⬌	✱				

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı											Kaplamasız			Ölçüler (mm)									Geometri	Uygun takımlar
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC5300	PC5400	PD2000	ST30A	G10	H01	l	l2	l1	d	t	r	d1	a	f		
XCET-KC	310404ER-KC								●						●	●		30.9	-	-	9.525	4.5	0.4	4.4	-	-		E316
XEKT-MA	19M504FR-MA													●			●	18	16.4	1.4	-	5	0.4	4.4	-	-		E331~ E336
	19M508FR-MA													●			●	18	16.4	1.0	-	5	0.8	4.4	-	-		
	19M512FR-MA													●			●	18	16.4	0.6	-	5	1.2	4.4	-	-		
	19M516FR-MA																●	17.5	16.4	0.5	-	5	1.6	4.4	-	-		
	19M518FR-MA																	17.5	16.4	0.5	-	5	1.8	4.4	-	-		
	19M520FR-MA													●			●	17.5	16.4	0.5	-	5	2.0	4.4	-	-		
	19M530FR-MA																●	17	16.4	0.7	-	5	3.0	4.4	-	-		
	19M532FR-MA													●			●	17	16.4	0.5	-	5	3.2	4.4	-	-		
	19M540FR-MA													●			●	16.5	16.4	0.5	-	5	4.0	4.4	-	-		
	19M550FR-MA													●			●	16	16.4	0.4	-	5	5.0	4.4	-	-		
	250604FR-MA																●	24.5	21.9	1.5	-	6.35	0.4	6.0	-	-		
	250608FR-MA																●	24.5	21.9	1.2	-	6.35	0.8	6.0	-	-		
	250612FR-MA																●	24.5	21.9	0.8	-	6.35	1.2	6.0	-	-		
	250616FR-MA																	24.5	21.9	0.4	-	6.35	1.6	6.0	-	-		
	250620FR-MA																●	24	21.9	0.5	-	6.35	2.0	6.0	-	-		
	250630FR-MA																	23.7	21.9	0.6	-	6.35	3.0	6.0	-	-		
	250632FR-MA																●	23.7	21.9	0.4	-	6.35	3.2	6.0	-	-		
	250640FR-MA																	22.8	21.9	1.2	-	6.35	4.0	6.0	-	-		
	250650FR-MA																●	22.7	21.9	0.4	-	6.35	5.0	6.0	-	-		
XEKT-ML Yeni	19M504ER-ML																	18	16.4	1.4	-	5	0.4	4.4	-	-		E331~ E336
	19M508ER-ML																	18	16.4	1.0	-	5	0.8	4.4	-	-		
	19M512ER-ML																	18	16.4	0.6	-	5	1.2	4.4	-	-		
	19M516ER-ML																	17.5	16.4	0.5	-	5	1.6	4.4	-	-		
	19M518ER-ML																	17.5	16.4	0.5	-	5	1.8	4.4	-	-		
	19M520ER-ML																	17.5	16.4	0.5	-	5	2.0	4.4	-	-		
	19M530ER-ML																	17	16.4	0.7	-	5	3.0	4.4	-	-		
	19M532ER-ML																	17	16.4	0.5	-	5	3.2	4.4	-	-		
	19M540ER-ML																	16.5	16.4	0.5	-	5	4.0	4.4	-	-		
	19M550ER-ML																	16	16.4	0.4	-	5	5.0	4.4	-	-		
	250604ER-ML																	24.5	21.9	1.5	-	6.35	0.4	6.0	-	-		
	250608ER-ML																	24.5	21.9	1.2	-	6.35	0.8	6.0	-	-		
	250612ER-ML																	24.5	21.9	0.8	-	6.35	1.2	6.0	-	-		
	250616ER-ML																	24.5	21.9	0.4	-	6.35	1.6	6.0	-	-		
	250620ER-ML																	24	21.9	0.5	-	6.35	2.0	6.0	-	-		
	250630ER-ML																	23.7	21.9	0.6	-	6.35	3.0	6.0	-	-		
	250632ER-ML																	23.7	21.9	0.4	-	6.35	3.2	6.0	-	-		
	250640ER-ML																	22.8	21.9	1.2	-	6.35	4.0	6.0	-	-		
	250650ER-ML																	22.7	21.9	0.4	-	6.35	5.0	6.0	-	-		
XNCT-MA Yeni	080504PNFR-MA																●	8.2	-	-	10.0	5.5	0.4	4.5	2.9	-		E87~ E90
	080508PNFR-MA																●	8.2	-	-	10.0	5.5	0.8	4.5	2.9	-		
	080512PNFR-MA																●	8.2	-	-	10.0	5.5	1.2	4.5	2.9	-		
	080520PNFR-MA																●	8.2	-	-	10.0	5.5	2.0	4.5	2.9	-		
	120608PNFR-MA																●	12.0	-	-	13.0	6.5	0.8	5.5	3.5	-		

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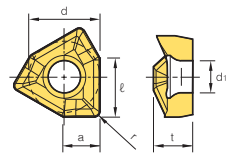
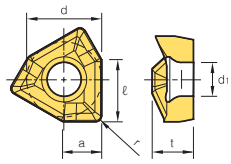
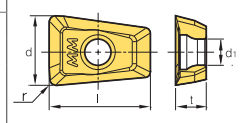
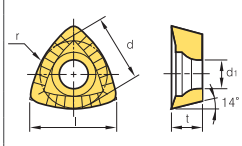
E Frezeleme Uçları

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⊛	●	✱	✱	●	⊛	⊛	⊛			✱	✱	⊛		
	Paslanmaz çelik	M										✱		✱	✱			
	Dökme demir	K			⊛			⊛	⊛				●	✱	✱		⊛	●
	Demir-dışı metaller	N																⊛
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H						●	⊛					⊛	✱			

İşleme tipi

● Sürekli Kesme
⊛ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Sermet		Kaplamalı										Kaplamasız			Ölçüler (mm)						Geometri	Uygun takımlar
		CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01	l	d	t	r	d1	a		
XNKT-ML	060405PNER-ML							●		●		●	●	●				5.7	6.5	4.0	0.5	3.4	1.8		E86~ E90
	060408PNER-ML									●		●	●	●				5.7	6.5	4.0	0.8	3.4	1.8		
	080504PNER-ML									●			●	●				8.2	10.0	5.5	0.4	4.5	2.9		
	080508PNER-ML							●		●		●	●	●				8.2	10.0	5.5	0.8	4.5	2.9		
	080512PNER-ML												●	●				8.2	10.0	5.5	1.2	4.5	2.9		
	080516PNER-ML												●	●				8.2	10.0	5.5	1.6	4.5	2.9		
	080520PNER-ML												●	●				8.2	10.0	5.5	2.0	4.5	2.9		
	120608PNER-ML									●		●	●	●				12.0	13.0	6.5	0.8	5.5	3.5		
	120612PNER-ML												●	●				12.0	13.0	6.5	1.2	5.5	3.5		
	120616PNER-ML												●	●				12.0	13.0	6.5	1.6	5.5	3.5		
	120620PNER-ML												●	●				12.0	13.0	6.5	2.0	5.5	3.5		
XNKT-MM	060405PNSR-MM						●	●		●		●	●	●				5.7	6.5	4.0	0.5	3.4	1.8		E86~ E90
	060408PNSR-MM						●	●		●		●	●	●				5.7	6.5	4.0	0.8	3.4	1.8		
	080504PNSR-MM									●			●	●				8.2	10.0	5.5	0.4	4.5	2.9		
	080508PNSR-MM						●	●		●		●	●	●				8.2	10.0	5.5	0.8	4.5	2.9		
	080512PNSR-MM						●	●		●			●	●				8.2	10.0	5.5	1.2	4.5	2.9		
	080516PNSR-MM						●	●		●			●	●				8.2	10.0	5.5	1.6	4.5	2.9		
	080520PNSR-MM						●	●		●			●	●				8.2	10.0	5.5	2.0	4.5	2.9		
	120604PNSR-MM												●	●				12.0	13.0	6.5	0.4	5.5	3.5		
	120608PNSR-MM						●	●		●		●	●	●				12.0	13.0	6.5	0.8	5.5	3.5		
	120612PNSR-MM						●	●					●	●				12.0	13.0	6.5	1.2	5.5	3.5		
	120616PNSR-MM						●	●					●	●				12.0	13.0	6.5	1.6	5.5	3.5		
	120620PNSR-MM						●	●					●	●				12.0	13.0	6.5	2.0	5.5	3.5		
XPMT-MM	0802ER-MM							●					●					8.5	5.9	2.38	0.8	-	-		E308 E309
	1003ER-MM							●					●					10.5	7.25	3.18	0.8	-	-		
	13T3ER-MM							●					●					13.1	9	3.97	0.8	-	-		
	1604ER-MM							●					●					16.5	11.5	4.76	0.8	-	-		
	1805ER-MM							●					●					18	12.4	5.56	0.8	-	-		
	2006ER-MM							●					●					20.5	14.1	6.35	0.8	-	-		
	2507ER-MM							●					●					25.5	17.6	7.94	0.8	-	-		
ZDMT-R-MM	080310R-MM							●					●					8.4	6.73	3.2	10	2.8	-		E304
	110312.5R-MM							●					●					10.6	8.5	3.65	12.5	2.8	-		
	130416R-MM							●					●					13.2	10.5	4.76	16	4.4	-		

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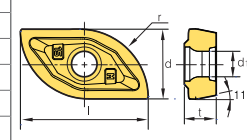
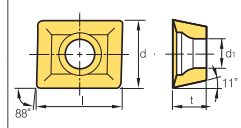
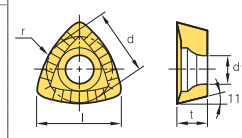
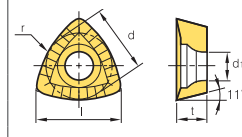
Frezeleme Uçları E

İş parçası			CN2000	CN30	NC5330	NC5340	NC5350	PC2505	PC2510	PC3500	PC3600	PC9530	PC6510	PC5300	PC5400	ST30A	G10	H01
	Çelik	P	●	⬌	●	✱	✱	●	⬌	⬌	⬌			✱	✱	⬌		
	Paslanmaz çelik	M										✱		✱	✱			
	Dökme demir	K			⬌			⬌	⬌				●	✱	✱		⬌	●
	Demir-dışı metaller	N																⬌
	Isı dayanımlı alaşımlar,titanyum alaşımlı	S												✱	✱			
	Sertleştirilmiş Çelik	H						●	⬌					⬌	✱			

İşleme tipi

● Sürekli Kesme
⬌ Genel Kesme
✱ Darbeli Kesme

Kesici uç	Kod	Ölçüler (mm) l	d	t	r	d_1	Geometri	Uygun takımlar
ZPET-MM İç	080M-MM	16	8.0	3.5	8	2.9		E302 E303
	090M-MM	17.7	7.2	4.3	9	3.4		
	100M-MM	19	10.4	4.5	10	3.4		
	110M-MM	22.2	11.4	4.8	11	4.5		
	125M-MM	24	12.9	5.3	12.5	4.5		
	130M-MM	25.7	13.4	5.3	13	4.5		
	140M-MM	27.2	14.3	6.3	14	5.6		
	150M-MM	28	15.4	7	15	5.6		
	160M-MM	28.5	16.4	7	16	5.6		
	200M-MM	38	20.7	8	20	6.6		
	250M-MM	48	25.9	9.5	25	8.6		
ZPET-MM Dış	080S-MM	15	6.6	3.1	8	2.9		
	090S-MM	15.5	7.4	3.7	9	3.4		
	100S-MM	15.5	8.4	3.8	10	3.4		
	110S-MM	18.1	9	4.4	11	4.5		
	125S-MM	20.5	10.7	4.5	12.5	4.5		
	130S-MM	22.2	11	4.4	13	4.5		
	140S-MM	24.1	11.2	5.7	14	5.6		
	150S-MM	25	12.4	6.5	15	5.6		
	160S-MM	26	13.4	6.5	16	5.6		
	200S-MM	32	16.7	7	20	6.6		
	250S-MM	40	20.7	8.5	25	8.6		
ZPMT-MM	1504PPSR-MM	15.9	12.7	4.76	-	5.6		E188
	1505PPSR-MMN	15.9	12.7	5.76	-	5.6		E280
ZPMT-R-MM	160520R-MM	16.1	12.7	5.56	20	5.6		E304
	160525R-MM	16.9	12.7	5.56	25	5.6		
	160531.5R-MM	17.6	12.7	5.56	31.5	5.6		
ZPMT-R-MR	160525R-MR	17.6	12.7	5.56	25	5.6		E304

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