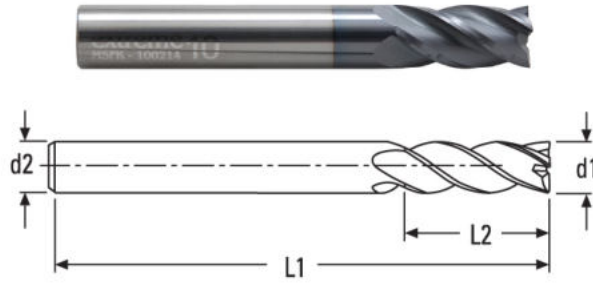
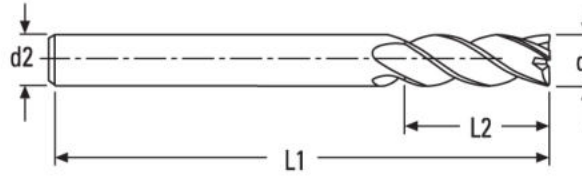


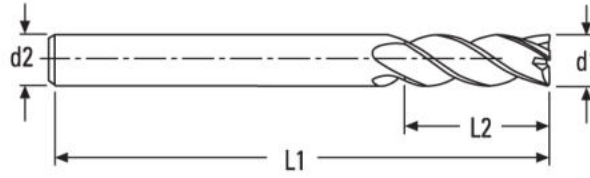
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MSF 010402	MSF 010403	MSF 010404	1.0	4	38	3
MSF 010302	MSF 010303	MSF 010304	1.0	3	50	4
MSF 015042	MSF 015043	MSF 015044	1.5	4	38	3
MSF 015032	MSF 015033	MSF 015034	1.5	3	50	4
MSF 020702	MSF 020703	MSF 020704	2.0	7	38	3
MSF 020602	MSF 020603	MSF 020604	2.0	6	50	4
MSF 025702	MSF 025703	MSF 025704	2.5	7	38	3
MSF 030902	MSF 030903	MSF 030904	3.0	9	38	3
MSF 030102	MSF 030103	MSF 030104	3.0	10	50	4
MSF 035122	MSF 035123	MSF 035124	3.5	12	50	4
MSF 040142	MSF 040143	MSF 040144	4.0	14	50	4
MSF 045142	MSF 045143	MSF 045144	4.5	14	50	5
MSF 050162	MSF 050163	MSF 050164	5.0	16	50	5
MSF 055162	MSF 055163	MSF 055164	5.5	16	57	6
MSF 060192	MSF 060193	MSF 060194	6.0	19	57	6
MSF 065192	MSF 065193	MSF 065194	6.5	19	60	8
MSF 070192	MSF 070193	MSF 070194	7.0	19	60	8
MSF 075192	MSF 075193	MSF 075194	7.5	19	60	8
MSF 080202	MSF 080203	MSF 080204	8.0	20	60	8
MSF 085212	MSF 085213	MSF 085214	8.5	21	72	10
MSF 090212	MSF 090213	MSF 090214	9.0	21	72	10
MSF 095212	MSF 095213	MSF 095214	9.5	21	72	10
MSF 100212	MSF 100213	MSF 100214	10.0	21	72	10
MSF 110252	MSF 110253	MSF 110254	11.0	25	75	12
MSF 120252	MSF 120253	MSF 120254	12.0	25	75	12
MSF 130322	MSF 130323	MSF 130324	13.0	32	83	14
MSF 140322	MSF 140323	MSF 140324	14.0	32	83	14
MSF 150322	MSF 150323	MSF 150324	15.0	32	92	16
MSF 160322	MSF 160323	MSF 160324	16.0	32	92	16
MSF 180352	MSF 180353	MSF 180354	18.0	35	100	18
MSF 200382	MSF 200383	MSF 200384	20.0	38	100	20
MSF 250382	MSF 250383	MSF 250384	25.0	38	100	25



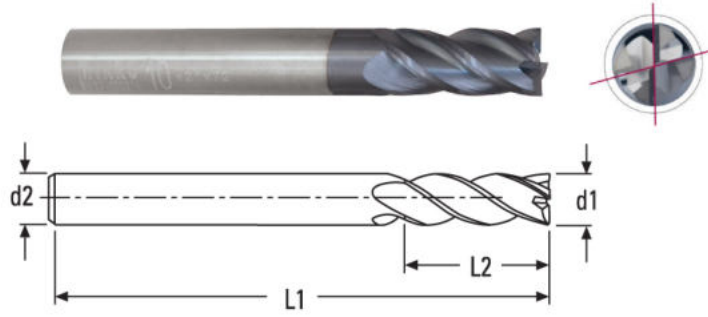
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MSFK 010402	MSFK 010403	MSFK 010404	1.0	4	38	3
MSFK 010302	MSFK 010303	MSFK 010304	1.0	3	50	4
MSFK 015042	MSFK 015043	MSFK 015044	1.5	4	38	3
MSFK 015032	MSFK 015033	MSFK 015034	1.5	3	50	4
MSFK 020702	MSFK 020703	MSFK 020704	2.0	7	38	3
MSFK 020602	MSFK 020603	MSFK 020604	2.0	6	50	4
MSFK 025702	MSFK 025703	MSFK 025704	2.5	7	38	3
MSFK 030902	MSFK 030903	MSFK 030904	3.0	9	38	3
MSFK 030102	MSFK 030103	MSFK 030104	3.0	10	50	4
MSFK 035122	MSFK 035123	MSFK 035124	3.5	12	50	4
MSFK 040142	MSFK 040143	MSFK 040144	4.0	14	50	4
MSFK 045142	MSFK 045143	MSFK 045144	4.5	14	50	5
MSFK 050162	MSFK 050163	MSFK 050164	5.0	16	50	5
MSFK 055162	MSFK 055163	MSFK 055164	5.5	16	57	6
MSFK 060192	MSFK 060193	MSFK 060194	6.0	19	57	6
MSFK 065192	MSFK 065193	MSFK 065194	6.5	19	60	8
MSFK 070192	MSFK 070193	MSFK 070194	7.0	19	60	8
MSFK 075192	MSFK 075193	MSFK 075194	7.5	19	60	8
MSFK 080202	MSFK 080203	MSFK 080204	8.0	20	60	8
MSFK 085212	MSFK 085213	MSFK 085214	8.5	21	72	10
MSFK 090212	MSFK 090213	MSFK 090214	9.0	21	72	10
MSFK 095212	MSFK 095213	MSFK 095214	9.5	21	72	10
MSFK 100212	MSFK 100213	MSFK 100214	10.0	21	72	10
MSFK 110252	MSFK 110253	MSFK 110254	11.0	25	75	12
MSFK 120252	MSFK 120253	MSFK 120254	12.0	25	75	12
MSFK 130322	MSFK 130323	MSFK 130324	13.0	32	83	14
MSFK 140322	MSFK 140323	MSFK 140324	14.0	32	83	14
MSFK 150322	MSFK 150323	MSFK 150324	15.0	32	92	16
MSFK 160322	MSFK 160323	MSFK 160324	16.0	32	92	16
MSFK 180352	MSFK 180353	MSFK 180354	18.0	35	100	18
MSFK 200382	MSFK 200383	MSFK 200384	20.0	38	100	20
MSFK 250382	MSFK 250383	MSFK 250384	25.0	38	100	25



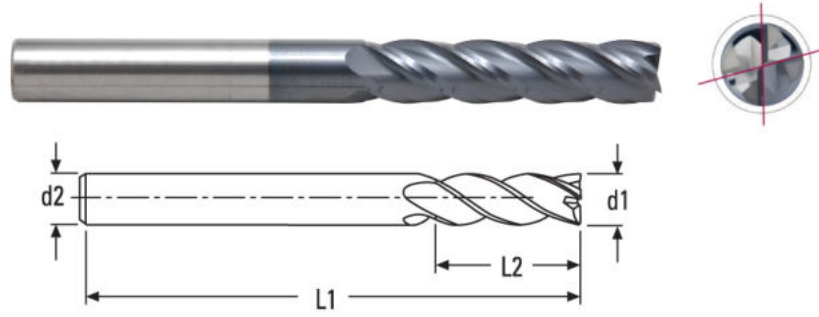
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MLS 030152	MLS 030153	MLS 030154	3.0	15	60	3
MLS 035202	MLS 035203	MLS 035204	3.5	20	60	4
MLS 040252	MLS 040253	MLS 040254	4.0	25	60	4
MLS 045252	MLS 045253	MLS 045254	4.5	25	75	5
MLS 050252	MLS 050253	MLS 050254	5.0	25	75	5
MLS 055252	MLS 055253	MLS 055254	5.5	25	75	6
MLS 060302	MLS 060303	MLS 060304	6.0	30	75	6
MLS 080302	MLS 080303	MLS 080304	8.0	30	75	8
MLS 100352	MLS 100353	MLS 100354	10.0	35	75	10
MLS 030162	MLS 030163	MLS 030164	3.0	16	100	3
MLS 040262	MLS 040263	MLS 040264	4.0	26	100	4
MLS 050262	MLS 050263	MLS 050264	5.0	26	100	5
MLS 060402	MLS 060403	MLS 060404	6.0	40	100	6
MLS 070402	MLS 070403	MLS 070404	7.0	40	100	8
MLS 080402	MLS 080403	MLS 080404	8.0	40	100	8
MLS 100452	MLS 100453	MLS 100454	10.0	45	100	10
MLS 110452	MLS 110453	MLS 110454	11.0	45	100	11
MLS 120452	MLS 120453	MLS 120454	12.0	45	100	12
MLS 130452	MLS 130453	MLS 130454	13.0	45	100	13
MLS 140452	MLS 140453	MLS 140454	14.0	45	100	14
MLS 150452	MLS 150453	MLS 150454	15.0	45	100	15
MLS 160452	MLS 160453	MLS 160454	16.0	45	100	16
MLS 180452	MLS 180453	MLS 180454	18.0	45	100	18
MLS 200452	MLS 200453	MLS 200454	20.0	45	100	20
MLS 250452	MLS 250453	MLS 250454	25.0	45	100	25
MLS 080452	MLS 080453	MLS 080454	8.0	45	150	8
MLS 100652	MLS 100653	MLS 100654	10.0	65	150	10
MLS 120652	MLS 120653	MLS 120654	12.0	65	150	12
MLS 140652	MLS 140653	MLS 140654	14.0	65	150	14
MLS 150652	MLS 150653	MLS 150654	15.0	65	150	15
MLS 160752	MLS 160753	MLS 160754	16.0	75	150	16
MLS 180652	MLS 180653	MLS 180654	18.0	75	150	18
MLS 200752	MLS 200753	MLS 200754	20.0	75	150	20
MLS 250752	MLS 250753	MLS 250754	25.0	75	150	25



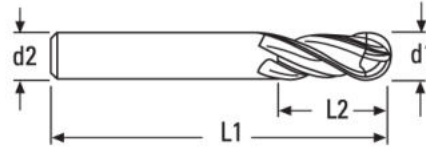
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MLSK 030152	MLSK 030153	MLSK 030154	3.0	15	60	3
MLSK 035202	MLSK 035203	MLSK 035204	3.5	20	60	4
MLSK 040252	MLSK 040253	MLSK 040254	4.0	25	60	4
MLSK 045252	MLSK 045253	MLSK 045254	4.5	25	75	5
MLSK 050252	MLSK 050253	MLSK 050254	5.0	25	75	5
MLSK 055252	MLSK 055253	MLSK 055254	5.5	25	75	6
MLSK 060302	MLSK 060303	MLSK 060304	6.0	30	75	6
MLSK 080302	MLSK 080303	MLSK 080304	8.0	30	75	8
MLSK 100352	MLSK 100353	MLSK 100354	10.0	35	75	10
MLSK 030162	MLSK 030163	MLSK 030164	3.0	16	100	3
MLSK 040262	MLSK 040263	MLSK 040264	4.0	26	100	4
MLSK 050262	MLSK 050263	MLSK 050264	5.0	26	100	5
MLSK 060402	MLSK 060403	MLSK 060404	6.0	40	100	6
MLSK 070402	MLSK 070403	MLSK 070404	7.0	40	100	8
MLSK 080402	MLSK 080403	MLSK 080404	8.0	40	100	8
MLSK 100452	MLSK 100453	MLSK 100454	10.0	45	100	10
MLSK 110452	MLSK 110453	MLSK 110454	11.0	45	100	11
MLSK 120452	MLSK 120453	MLSK 120454	12.0	45	100	12
MLSK 130452	MLSK 130453	MLSK 130454	13.0	45	100	13
MLSK 140452	MLSK 140453	MLSK 140454	14.0	45	100	14
MLSK 150452	MLSK 150453	MLSK 150454	15.0	45	100	15
MLSK 160452	MLSK 160453	MLSK 160454	16.0	45	100	16
MLSK 180452	MLSK 180453	MLSK 180454	18.0	45	100	18
MLSK 200452	MLSK 200453	MLSK 200454	20.0	45	100	20
MLSK 250452	MLSK 250453	MLSK 250454	25.0	45	100	25
MLSK 080452	MLSK 080453	MLSK 080454	8.0	45	150	8
MLSK 100652	MLSK 100653	MLSK 100654	10.0	65	150	10
MLSK 120652	MLSK 120653	MLSK 120654	12.0	65	150	12
MLSK 140652	MLSK 140653	MLSK 140654	14.0	65	150	14
MLSK 150652	MLSK 150653	MLSK 150654	15.0	65	150	15
MLSK 160752	MLSK 160753	MLSK 160754	16.0	75	150	16
MLSK 180652	MLSK 180653	MLSK 180654	18.0	75	150	18
MLSK 200752	MLSK 200753	MLSK 200754	20.0	75	150	20
MLSK 250752	MLSK 250753	MLSK 250754	25.0	75	150	25

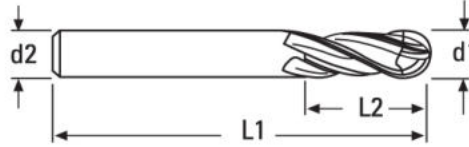


Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MSP 010404	1.0	4	38	3
MSP 010304	1.0	3	50	4
MSP 015044	1.5	4	38	3
MSP 015034	1.5	3	50	4
MSP 020704	2.0	7	38	3
MSP 020604	2.0	6	50	4
MSP 025704	2.5	7	38	3
MSP 030904	3.0	9	38	3
MSP 030104	3.0	10	50	4
MSP 035124	3.5	12	50	4
MSP 040144	4.0	14	50	4
MSP 045144	4.5	14	50	5
MSP 050164	5.0	16	50	5
MSP 055164	5.5	16	57	6
MSP 060194	6.0	19	57	6
MSP 065194	6.5	19	60	8
MSP 070194	7.0	19	60	8
MSP 075194	7.5	19	60	8
MSP 080204	8.0	20	60	8
MSP 085214	8.5	21	72	10
MSP 090214	9.0	21	72	10
MSP 095214	9.5	21	72	10
MSP 100214	10.0	21	72	10
MSP 110254	11.0	25	75	12
MSP 120254	12.0	25	75	12
MSP 130324	13.0	32	83	14
MSP 140324	14.0	32	83	14
MSP 150324	15.0	32	92	16
MSP 160324	16.0	32	92	16
MSP 180354	18.0	35	100	18
MSP 200384	20.0	38	100	20
MSP 250384	25.0	38	100	25

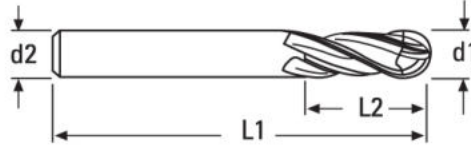


Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MSPL 030154	3.0	15	60	3
MSPL 035204	3.5	20	60	4
MSPL 040254	4.0	25	60	4
MSPL 045254	4.5	25	75	5
MSPL 050254	5.0	25	75	5
MSPL 055254	5.5	25	75	6
MSPL 060304	6.0	30	75	6
MSPL 080304	8.0	30	75	8
MSPL 100304	10.0	30	75	10
MSPL 030164	3.0	16	100	3
MSPL 040264	4.0	26	100	4
MSPL 050264	5.0	26	100	5
MSPL 060404	6.0	40	100	6
MSPL 070404	7.0	40	100	8
MSPL 080404	8.0	40	100	8
MSPL 100454	10.0	45	100	10
MSPL 110454	11.0	45	100	11
MSPL 120454	12.0	45	100	12
MSPL 130454	13.0	45	100	13
MSPL 140454	14.0	45	100	14
MSPL 150454	15.0	45	100	15
MSPL 160454	16.0	45	100	16
MSPL 180454	18.0	45	100	18
MSPL 200454	20.0	45	100	20
MSPL 250454	25.0	45	100	25
MSPL 080454	8.0	45	150	8
MSPL 100654	10.0	65	150	10
MSPL 120654	12.0	65	150	12
MSPL 140654	14.0	65	150	14
MSPL 150654	15.0	65	150	15
MSPL 160754	16.0	75	150	16
MSPL 180654	18.0	75	150	18
MSPL 200754	20.0	75	150	20
MSPL 250754	25.0	75	150	25

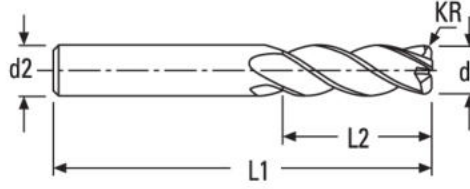
[illegible]



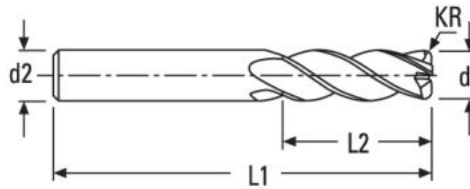
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MLR 030152	MLR 030153	MLR 030154	3.0	15	60	3
MLR 035202	MLR 035203	MLR 035204	3.5	20	60	4
MLR 040252	MLR 040253	MLR 040254	4.0	25	60	4
MLR 045252	MLR 045253	MLR 045254	4.5	25	75	5
MLR 050252	MLR 050253	MLR 050254	5.0	25	75	5
MLR 060302	MLR 060303	MLR 060304	6.0	30	75	6
MLR 080302	MLR 080303	MLR 080304	8.0	30	75	8
MLR 030162	MLR 030163	MLR 030164	3.0	16	100	3
MLR 040262	MLR 040263	MLR 040264	4.0	26	100	4
MLR 050262	MLR 050263	MLR 050264	5.0	26	100	5
MLR 060402	MLR 060403	MLR 060404	6.0	40	100	6
MLR 070402	MLR 070403	MLR 070404	7.0	40	100	8
MLR 080402	MLR 080403	MLR 080404	8.0	40	100	8
MLR 100452	MLR 100453	MLR 100454	10.0	45	100	10
MLR 110452	MLR 110453	MLR 110454	11.0	45	100	12
MLR 120452	MLR 120453	MLR 120454	12.0	45	100	12
MLR 130452	MLR 130453	MLR 130454	13.0	45	100	13
MLR 140452	MLR 140453	MLR 140454	14.0	45	100	14
MLR 150452	MLR 150453	MLR 150454	15.0	45	100	15
MLR 160452	MLR 160453	MLR 160454	16.0	45	100	16
MLR 180452	MLR 180453	MLR 180454	18.0	45	100	18
MLR 200452	MLR 200453	MLR 200454	20.0	45	100	20
MLR 080452	MLR 080453	MLR 080454	8.0	45	150	8
MLR 100652	MLR 100653	MLR 100654	10.0	65	150	10
MLR 120652	MLR 120653	MLR 120654	12.0	65	150	12
MLR 140652	MLR 140653	MLR 140654	14.0	65	150	14
MLR 150652	MLR 150653	MLR 150654	15.0	65	150	15
MLR 160752	MLR 160753	MLR 160754	16.0	75	150	16
MLR 180752	MLR 180753	MLR 180754	18.0	75	150	18
MLR 200752	MLR 200753	MLR 200754	20.0	75	150	20

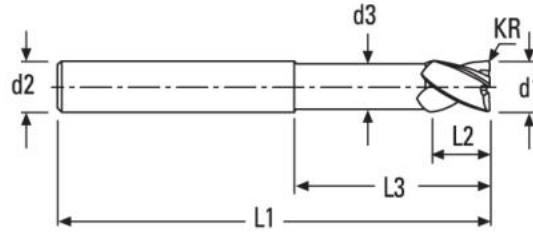


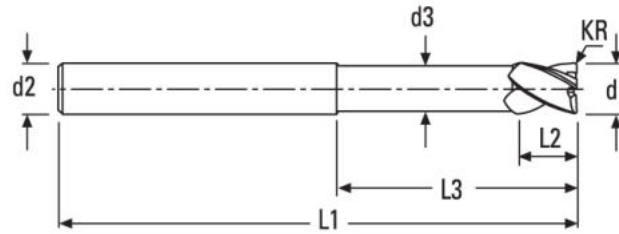
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MLRK 030152	MLRK 030153	MLRK 030154	3.0	15	60	3
MLRK 035202	MLRK 035203	MLRK 035204	3.5	20	60	4
MLRK 040252	MLRK 040253	MLRK 040254	4.0	25	60	4
MLRK 045252	MLRK 045253	MLRK 045254	4.5	25	75	5
MLRK 050252	MLRK 050253	MLRK 050254	5.0	25	75	5
MLRK 060302	MLRK 060303	MLRK 060304	6.0	30	75	6
MLRK 080302	MLRK 080303	MLRK 080304	8.0	30	75	8
MLRK 030162	MLRK 030163	MLRK 030164	3.0	16	100	3
MLRK 040262	MLRK 040263	MLRK 040264	4.0	26	100	4
MLRK 050262	MLRK 050263	MLRK 050264	5.0	26	100	5
MLRK 060402	MLRK 060403	MLRK 060404	6.0	40	100	6
MLRK 070402	MLRK 070403	MLRK 070404	7.0	40	100	8
MLRK 080402	MLRK 080403	MLRK 080404	8.0	40	100	8
MLRK 100452	MLRK 100453	MLRK 100454	10.0	45	100	10
MLRK 110452	MLRK 110453	MLRK 110454	11.0	45	100	12
MLRK 120452	MLRK 120453	MLRK 120454	12.0	45	100	12
MLRK 130452	MLRK 130453	MLRK 130454	13.0	45	100	13
MLRK 140452	MLRK 140453	MLRK 140454	14.0	45	100	14
MLRK 150452	MLRK 150453	MLRK 150454	15.0	45	100	15
MLRK 160452	MLRK 160453	MLRK 160454	16.0	45	100	16
MLRK 180452	MLRK 180453	MLRK 180454	18.0	45	100	18
MLRK 200452	MLRK 200453	MLRK 200454	20.0	45	100	20
MLRK 080452	MLRK 080453	MLRK 080454	8.0	45	150	8
MLRK 100652	MLRK 100653	MLRK 100654	10.0	65	150	10
MLRK 120652	MLRK 120653	MLRK 120654	12.0	65	150	12
MLRK 140652	MLRK 140653	MLRK 140654	14.0	65	150	14
MLRK 150652	MLRK 150653	MLRK 150654	15.0	65	150	15
MLRK 160752	MLRK 160753	MLRK 160754	16.0	75	150	16
MLRK 180752	MLRK 180753	MLRK 180754	18.0	75	150	18
MLRK 200752	MLRK 200753	MLRK 200754	20.0	75	150	20

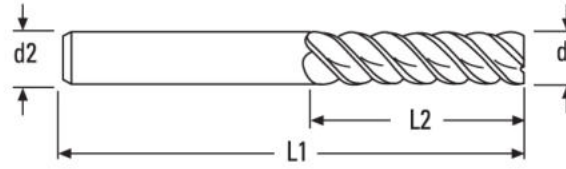


Sipariş Kodu Order Num. 	Sipariş Kodu Order Num. 	d1 h10 mm	KR mm	L2 mm	L1 mm	d2 h6 mm
MKRK 020502	MKRK 020504	2.0	0.5	5	40	3
MKRK 020602	MKRK 020604	2.0	0.5	6	50	4
MKRK 030502	MKRK 030504	3.0	0.5	5	40	3
MKRK 030602	MKRK 030604	3.0	0.5	6	50	4
MKRK 040502	MKRK 040504	4.0	0.5	7	50	4
MKRK 050502	MKRK 050504	5.0	0.5	10	50	5
MKRK 060502	MKRK 060504	6.0	0.5	16	57	6
MKRK 061002	MKRK 061004	6.0	1.0	16	57	6
MKRK 080502	MKRK 080504	8.0	0.5	16	60	8
MKRK 081002	MKRK 081004	8.0	1.0	16	60	8
MKRK 081502	MKRK 081504	8.0	1.5	16	60	8
MKRK 100502	MKRK 100504	10.0	0.5	18	72	10
MKRK 101002	MKRK 101004	10.0	1.0	18	72	10
MKRK 101502	MKRK 101504	10.0	1.5	18	72	10
MKRK 102002	MKRK 102004	10.0	2.0	18	72	10
MKRK 120502	MKRK 120504	12.0	0.5	25	80	12
MKRK 121002	MKRK 121004	12.0	1.0	25	80	12
MKRK 121502	MKRK 121504	12.0	1.5	25	80	12
MKRK 122002	MKRK 122004	12.0	2.0	25	80	12
MKRK 140502	MKRK 140504	14.0	0.5	25	80	14
MKRK 141002	MKRK 141004	14.0	1.0	25	80	14
MKRK 141502	MKRK 141504	14.0	1.5	25	80	14
MKRK 142002	MKRK 142004	14.0	2.0	25	80	14
MKRK 143002	MKRK 143004	14.0	3.0	25	80	14
MKRK 160502	MKRK 160504	16.0	0.5	25	92	16
MKRK 161002	MKRK 161004	16.0	1.0	25	92	16
MKRK 161502	MKRK 161504	16.0	1.5	25	92	16
MKRK 162002	MKRK 162004	16.0	2.0	25	92	16
MKRK 163002	MKRK 163004	16.0	3.0	25	92	16

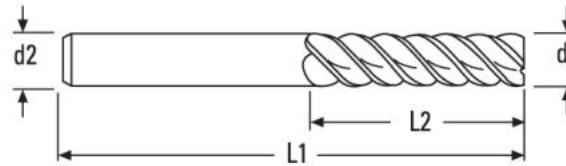
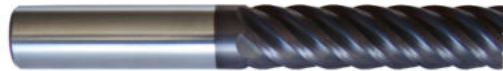
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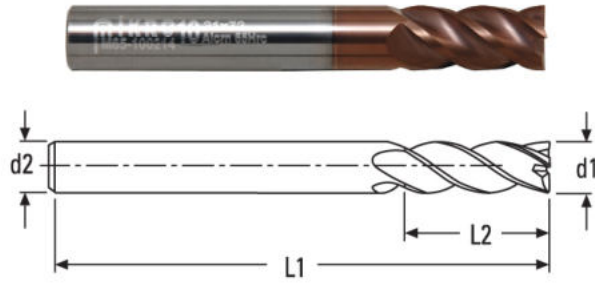
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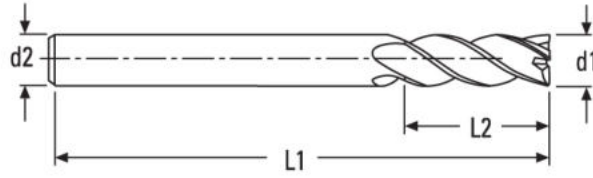
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm	Z
MHCK 060196	6.0	19	60	6	6
MHCK 080206	8.0	20	60	8	6
MHCK 100226	10.0	22	72	10	6
MHCK 120306	12.0	30	75	12	6
MHCK 140306	14.0	30	83	14	6
MHCK 160326	16.0	32	92	16	6
MHCK 180326	18.0	32	92	18	6
MHCK 200356	20.0	35	100	20	6



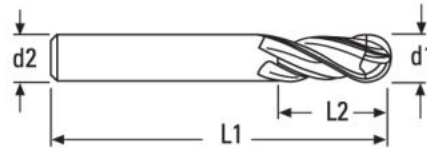
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm	Z
MHCL 060356	6.0	35	100	6	6
MHCL 080456	8.0	45	100	8	6
MHCL 100506	10.0	50	100	10	6
MHCL 120506	12.0	50	110	12	6
MHCL 140552	14.0	55	110	14	6
MHCL 160606	16.0	60	110	16	6
MHCL 180606	18.0	60	125	18	6
MHCL 200606	20.0	60	125	20	6

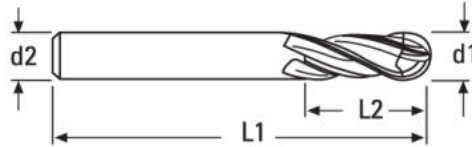


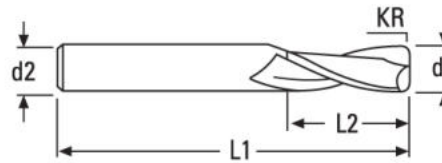
Sipariş Kodu Order Num. 	Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
M65 010302	M65 010304	1.0	3	38	3
M65 010402	M65 010404	1.0	4	50	4
M65 015032	M65 015034	1.5	3	38	3
M65 015042	M65 015044	1.5	4	50	4
M65 020602	M65 020604	2.0	6	38	3
M65 020702	M65 020704	2.0	7	50	4
M65 025602	M65 025604	2.5	6	38	3
M65 025702	M65 025704	2.5	7	50	4
M65 030902	M65 030904	3.0	9	50	4
M65 035122	M65 035124	3.5	12	50	4
M65 040142	M65 040144	4.0	14	50	4
M65 045142	M65 045144	4.5	14	50	5
M65 050162	M65 050164	5.0	16	50	5
M65 055162	M65 055164	5.5	16	57	6
M65 060192	M65 060194	6.0	19	57	6
M65 065192	M65 065194	6.5	19	60	8
M65 070192	M65 070194	7.0	19	60	8
M65 075192	M65 075194	7.5	19	60	8
M65 080202	M65 080204	8.0	20	60	8
M65 085212	M65 085214	8.5	21	72	10
M65 090212	M65 090214	9.0	21	72	10
M65 095212	M65 095214	9.5	21	72	10
M65 100212	M65 100214	10.0	21	72	10
M65 110252	M65 110254	11.0	25	75	12
M65 120252	M65 120254	12.0	25	75	12
M65 130322	M65 130324	13.0	32	83	14
M65 140322	M65 140324	14.0	32	83	14
M65 150322	M65 150324	15.0	32	92	16
M65 160322	M65 160324	16.0	32	92	16
M65 180352	M65 180354	18.0	35	100	18
M65 200382	M65 200384	20.0	38	100	20
M65 250382	M65 250384	25.0	38	100	25

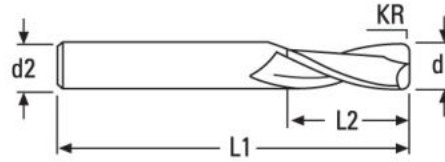


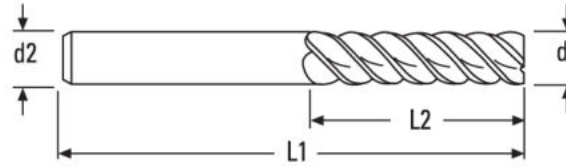
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
M65L 030152	M65L 030154	3.0	15	60	3
M65L 035202	M65L 035204	3.5	20	60	4
M65L 040252	M65L 040254	4.0	25	60	4
M65L 045252	M65L 045254	4.5	25	75	5
M65L 050252	M65L 050254	5.0	25	75	5
M65L 055252	M65L 055254	5.5	25	75	6
M65L 060302	M65L 060304	6.0	30	75	6
M65L 080302	M65L 080304	8.0	30	75	8
M65L 100302	M65L 100304	10.0	30	75	10
M65L 030162	M65L 030164	3.0	16	100	3
M65L 040262	M65L 040264	4.0	26	100	4
M65L 050262	M65L 050264	5.0	26	100	5
M65L 060402	M65L 060404	6.0	40	100	6
M65L 070402	M65L 070404	7.0	40	100	8
M65L 080402	M65L 080404	8.0	40	100	8
M65L 100452	M65L 100454	10.0	45	100	10
M65L 110452	M65L 110454	11.0	45	100	11
M65L 120452	M65L 120454	12.0	45	100	12
M65L 130452	M65L 130454	13.0	45	100	13
M65L 140452	M65L 140454	14.0	45	100	14
M65L 150452	M65L 150454	15.0	45	100	15
M65L 160452	M65L 160454	16.0	45	100	16
M65L 180452	M65L 180454	18.0	45	100	18
M65L 200452	M65L 200454	20.0	45	100	20
M65L 250452	M65L 250454	25.0	45	100	25
M65L 080452	M65L 080454	8.0	45	150	8
M65L 100652	M65L 100654	10.0	65	150	10
M65L 120652	M65L 120654	12.0	65	150	12
M65L 140652	M65L 140654	14.0	65	150	14
M65L 150652	M65L 150654	15.0	65	150	15
M65L 160752	M65L 160754	16.0	75	150	16
M65L 180752	M65L 180754	18.0	75	150	18
M65L 200752	M65L 200754	20.0	75	150	20
M65L 250752	M65L 250754	25.0	75	150	25

[illegible]

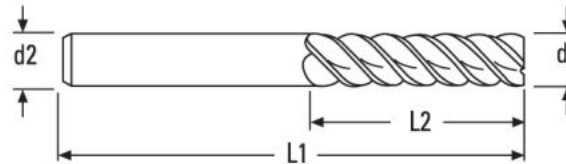
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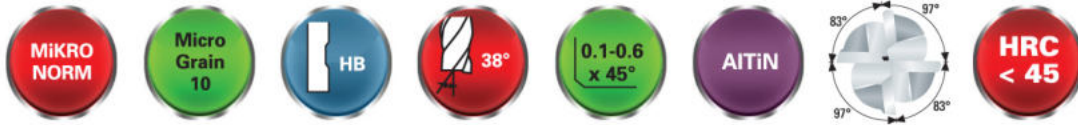
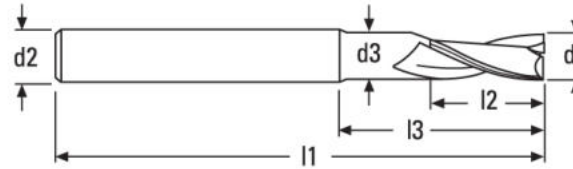
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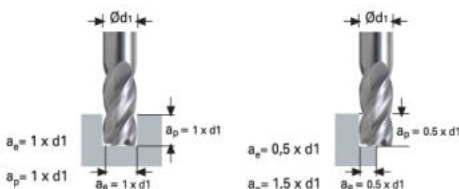
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm	Z
MHHK 060196	6.0	19	60	6	6
MHHK 080206	8.0	20	60	8	6
MHHK 100226	10.0	22	72	10	6
MHHK 120306	12.0	30	75	12	6
MHHK 140306	14.0	30	83	14	6
MHHK 160326	16.0	32	92	16	6
MHHK 180326	18.0	32	92	18	6
MHHK 200356	20.0	35	100	20	6



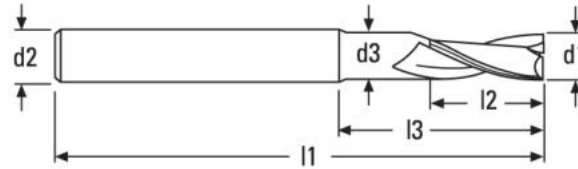
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm	Z
MHHL 060356	6.0	35	100	6	6
MHHL 080456	8.0	45	100	8	6
MHHL 100506	10.0	50	100	10	6
MHHL 120506	12.0	50	110	12	6
MHHL 140552	14.0	55	110	14	6
MHHL 160606	16.0	60	110	16	6
MHHL 180606	18.0	60	125	18	6
MHHL 200606	20.0	60	125	20	6

[illegible]

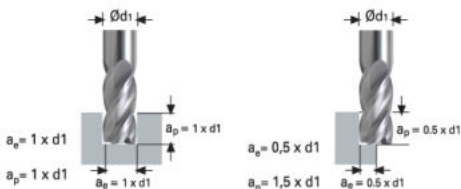
Kesici ağızlardaki düzensiz helis açısı ve düzensiz hatve sayesinde bu takımlar titreşimsiz ve sessiz çalışır.



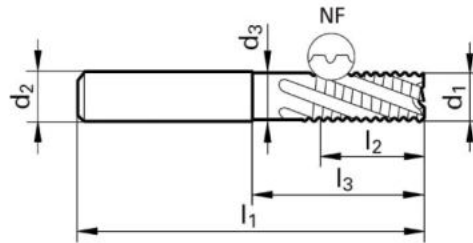
			HRC 20-30 İmalat Çelikleri			HRC 30-40 Kalıp Çelikleri			Paslanmaz Çelik INOX			Dökme Demir GG		
d1	ap	ae	Vc= 120m/dk			Vc= 90m/dk			Vc= 65m/dk			Vc= 130m/dk		
			fz	S	Vf	fz	S	Vf	fz	S	Vf	fz	S	Vf
8	8	4	0.060	3185	190xZ	0.042	3500	150xZ	0.054	2500	140xZ	0.12	5100	320xZ
10	10	5	0.075	2500	190xZ	0.052	2800	150xZ	0.068	2000	140xZ	0.15	4100	320xZ
12	12	6	0.090	2123	190xZ	0.063	2300	150xZ	0.081	1700	140xZ	0.18	3450	320xZ
14	14	7	0.100	1820	190xZ	0.073	2000	150xZ	0.095	1450	140xZ	0.20	2900	320xZ
16	16	8	0.120	1592	190xZ	0.084	1791	150xZ	0.110	1300	140xZ	0.24	2500	320xZ
20	20	10	0.150	1275	190xZ	0.105	1400	150xZ	0.130	1000	140xZ	0.30	2070	320xZ

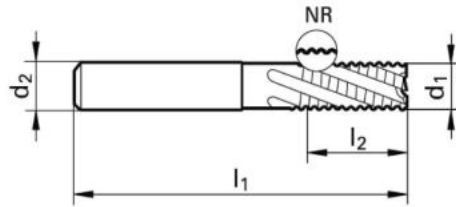
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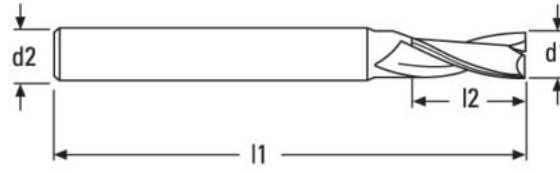
Kesici ağızlardaki düzensiz helis açısı ve düzensiz hatve sayesinde bu takımlar titreşimsiz ve sessiz çalışır.



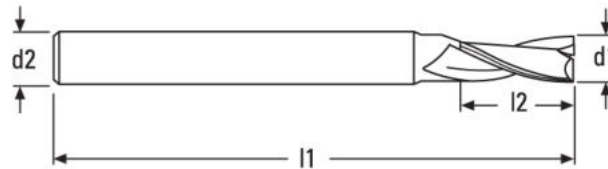
			HRC 20-30 İmalat Çelikleri			HRC 30-40 Kalıp Çelikleri			Paslanmaz Çelik INOX			Dökme Demir GG		
d1	ap	ae	Vc= 120m/dk			Vc= 90m/dk			Vc= 65m/dk			Vc= 130m/dk		
			fz	S	Vf	fz	S	Vf	fz	S	Vf	fz	S	Vf
8	8	4	0.060	3185	190xZ	0.042	3500	150xZ	0.054	2500	140xZ	0.12	5100	320xZ
10	10	5	0.075	2500	190xZ	0.052	2800	150xZ	0.068	2000	140xZ	0.15	4100	320xZ
12	12	6	0.090	2123	190xZ	0.063	2300	150xZ	0.081	1700	140xZ	0.18	3450	320xZ
14	14	7	0.100	1820	190xZ	0.073	2000	150xZ	0.095	1450	140xZ	0.20	2900	320xZ
16	16	8	0.120	1592	190xZ	0.084	1791	150xZ	0.110	1300	140xZ	0.24	2500	320xZ
20	20	10	0.150	1275	190xZ	0.105	1400	150xZ	0.130	1000	140xZ	0.30	2070	320xZ

[illegible]

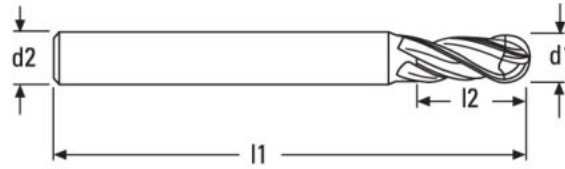
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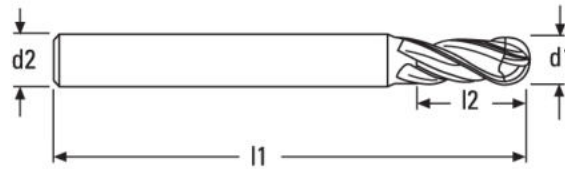
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MDEK 020042	MDEK 020043	MDEK 020044	2.0	4	50	6
MDEK 025052	MDEK 025053	MDEK 025054	2.5	5	50	6
MDEK 030062	MDEK 030063	MDEK 030064	3.0	6	50	6
MDEK 035062	MDEK 035063	MDEK 035064	3.5	6	50	6
MDEK 040082	MDEK 040083	MDEK 040084	4.0	8	50	6
MDEK 045082	MDEK 045083	MDEK 045084	4.5	8	50	6
MDEK 050082	MDEK 050083	MDEK 050084	5.0	8	50	6



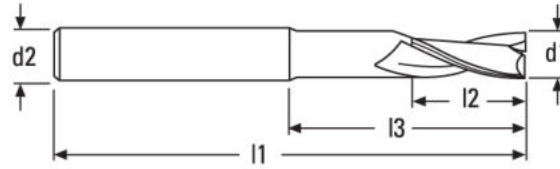
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MDEL 020072	MDEL 020073	MDEL 020074	2.0	7	65	6
MDEL 025072	MDEL 025073	MDEL 025074	2.5	7	65	6
MDEL 030122	MDEL 030123	MDEL 030124	3.0	12	65	6
MDEL 035122	MDEL 035123	MDEL 035124	3.5	12	65	6
MDEL 040152	MDEL 040153	MDEL 040154	4.0	15	65	6
MDEL 045152	MDEL 045153	MDEL 045154	4.5	15	65	6
MDEL 050162	MDEL 050163	MDEL 050164	5.0	16	65	6



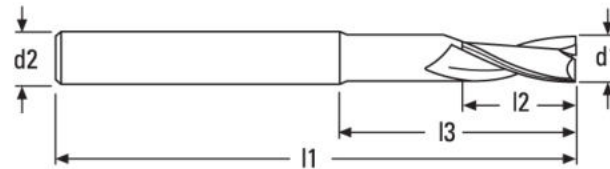
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MKEK 020042	MKEK 020043	MKEK 020044	2.0	4	50	6
MKEK 025052	MKEK 025053	MKEK 025054	2.5	5	50	6
MKEK 030062	MKEK 030063	MKEK 030064	3.0	6	50	6
MKEK 035062	MKEK 035063	MKEK 035064	3.5	6	50	6
MKEK 040082	MKEK 040083	MKEK 040084	4.0	8	50	6
MKEK 045082	MKEK 045083	MKEK 045084	4.5	8	50	6
MKEK 050082	MKEK 050083	MKEK 050084	5.0	8	50	6



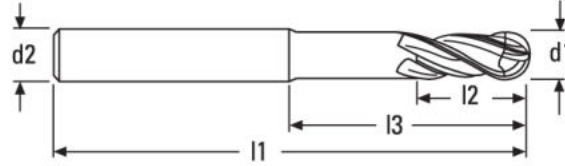
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MKEL 020072	MKEL 020073	MKEL 020074	2.0	7	65	6
MKEL 025072	MKEL 025073	MKEL 025074	2.5	7	65	6
MKEL 030122	MKEL 030123	MKEL 030124	3.0	12	65	6
MKEL 035122	MKEL 035123	MKEL 035124	3.5	12	65	6
MKEL 040152	MKEL 040153	MKEL 040154	4.0	15	65	6
MKEL 045152	MKEL 045153	MKEL 045154	4.5	15	65	6
MKEL 050162	MKEL 050163	MKEL 050164	5.0	16	65	6



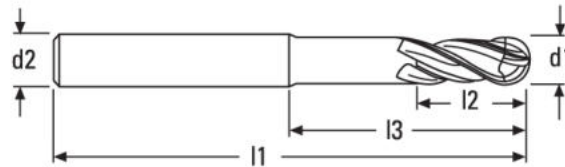
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L3 mm	L1 mm	d2 h6 mm
MDSK 020042	MDSK 020043	MDSK 020044	2.0	4	8	50	6
MDSK 025052	MDSK 025053	MDSK 025054	2.5	5	10	50	6
MDSK 030062	MDSK 030063	MDSK 030064	3.0	6	12	50	6
MDSK 035062	MDSK 035063	MDSK 035064	3.5	6	12	50	6
MDSK 040082	MDSK 040083	MDSK 040084	4.0	8	16	50	6
MDSK 045082	MDSK 045083	MDSK 045084	4.5	8	16	50	6
MDSK 050082	MDSK 050083	MDSK 050084	5.0	8	16	50	6



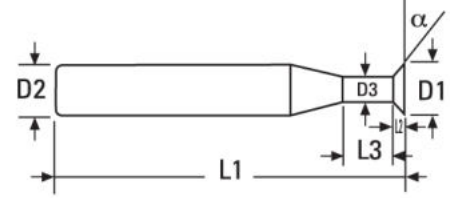
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L3 mm	L1 mm	d2 h6 mm
MDSL 020072	MDSL 020073	MDSL 020074	2.0	7	14	65	6
MDSL 025072	MDSL 025073	MDSL 025074	2.5	7	14	65	6
MDSL 030082	MDSL 030083	MDSL 030084	3.0	8	16	65	6
MDSL 035082	MDSL 035083	MDSL 035084	3.5	8	16	65	6
MDSL 040092	MDSL 040093	MDSL 040094	4.0	9	18	65	6
MDSL 045092	MDSL 045093	MDSL 045094	4.5	9	18	65	6
MDSL 050102	MDSL 050103	MDSL 050104	5.0	10	20	65	6



Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L3 mm	L1 mm	d2 h6 mm
MDRK 020042	MDRK 020043	MDRK 020044	2.0	4	8	50	6
MDRK 025052	MDRK 025053	MDRK 025054	2.5	5	10	50	6
MDRK 030062	MDRK 030063	MDRK 030064	3.0	6	12	50	6
MDRK 035062	MDRK 035063	MDRK 035064	3.5	6	12	50	6
MDRK 040082	MDRK 040083	MDRK 040084	4.0	8	16	50	6
MDRK 045082	MDRK 045083	MDRK 045084	4.5	8	16	50	6
MDRK 050082	MDRK 050083	MDRK 050084	5.0	8	16	50	6



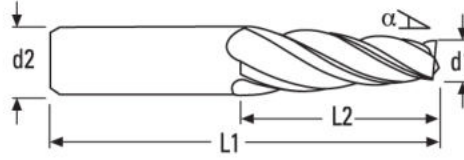
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L3 mm	L1 mm	d2 h6 mm
MDRL 020072	MDRL 020073	MDRL 020074	2.0	7	14	65	6
MDRL 025072	MDRL 025073	MDRL 025074	2.5	7	14	65	6
MDRL 030082	MDRL 030083	MDRL 030084	3.0	8	16	65	6
MDRL 035082	MDRL 035083	MDRL 035084	3.5	8	16	65	6
MDRL 040092	MDRL 040093	MDRL 040094	4.0	9	18	65	6
MDRL 045092	MDRL 045093	MDRL 045094	4.5	9	18	65	6
MDRL 050102	MDRL 050103	MDRL 050104	5.0	10	20	65	6



Sipariş Kodu Order Num.	D1 mm	L2 mm	D3 mm	L1 mm	L3 mm	D2 mm	Z	α
M108 05045	5	1.2	2.5	60	4	6	4	45
M108 06045	6	1.4	3.0	60	4	6	4	45
M108 08045	8	1.9	4.0	60	5	8	4	45
M108 10045	10	2.4	5.0	75	6	10	4	45
M108 12045	12	2.9	6.0	75	7	12	4	45
M108 05060	5	2.2	2.5	60	4	6	4	60
M108 06060	6	2.7	3.0	60	4	6	4	60
M108 08060	8	3.7	4.0	60	5	8	4	60
M108 10060	10	4.6	5.0	75	6	10	4	60
M108 12060	12	5.6	6.0	75	7	12	4	60

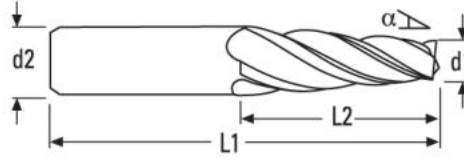


Sipariş Kodu Order Num.	R	D1 mm	L1 mm	D2 mm	Z
MKRF- 050704	0.5	7	60	8	4
MKRF- 100604	1	6	60	8	4
MKRF- 150704	1.5	7	72	10	4
MKRF- 200604	2	6	72	10	4
MKRF- 250704	2.5	7	75	12	4
MKRF- 300604	3	6	75	12	4
MKRF- 350104	3.5	10	92	16	4
MKRF- 400804	4	8	92	16	4
MKRF- 450704	4.5	7	92	16	4
MKRF- 500104	5	10	100	20	4
MKRF- 600804	6	8	100	20	4



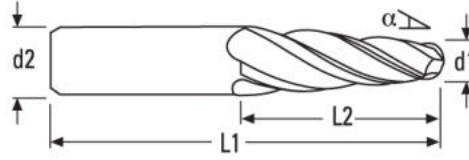
Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MAD 023003	30°	2	2,35	20	65	3	3
MAD 033003	30°	3	3,45	25	65	4	3
MAD 043003	30°	4	4,52	30	65	5	3
MAD 053003	30°	5	5,52	30	75	6	3
MAD 063003	30°	6	6,70	40	100	8	3
MAD 083003	30°	8	8,79	45	100	10	4
MAD 103003	30°	10	10,79	45	100	12	4
MAD 123003	30°	12	12,79	45	100	14	4
MAD 020103	1°	2	2,70	20	65	3	3
MAD 030103	1°	3	3,87	25	65	4	3
MAD 040103	1°	4	5,05	28	65	5	3
MAD 050103	1°	5	6,00	28	75	6	3
MAD 060103	1°	6	7,40	40	100	8	3
MAD 080103	1°	8	9,57	45	100	10	4
MAD 100103	1°	10	11,57	45	100	12	4
MAD 120103	1°	12	13,57	45	100	14	4
MAD 020133	1°30'	2	3,05	20	65	4	3
MAD 030133	1°30'	3	4,31	25	65	5	3
MAD 040133	1°30'	4	5,57	30	75	6	3
MAD 050133	1°30'	5	6,83	35	100	8	3
MAD 060133	1°30'	6	7,83	35	100	8	3
MAD 080133	1°30'	8	10,00	43	100	10	4
MAD 100133	1°30'	10	12,00	45	100	12	4
MAD 120133	1°30'	12	14,00	38	100	14	4

Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MAD 020203	2°	2	3,40	20	65	4	3
MAD 030203	2°	3	4,75	25	65	5	3
MAD 040203	2°	4	6,00	28	75	6	3
MAD 050203	2°	5	8,00	40	100	8	3
MAD 060203	2°	6	9,14	45	100	10	3
MAD 080203	2°	8	11,14	45	100	12	4
MAD 100203	2°	10	13,84	45	100	14	4
MAD 120203	2°	12	15,84	45	100	16	4
MAD 020303	3°	2	4,10	20	65	5	3
MAD 030303	3°	3	5,62	25	75	6	3
MAD 040303	3°	4	8,00	38	100	8	3
MAD 050303	3°	5	10,00	48	100	10	3
MAD 060303	3°	6	12,00	50	100	12	3
MAD 080303	3°	8	14,00	45	100	14	4
MAD 100303	3°	10	16,00	45	100	16	4
MAD 120303	3°	12	18,00	45	100	18	4
MAD 020503	5°	2	5,50	20	75	6	3
MAD 030503	5°	3	8,00	28	75	8	3
MAD 040503	5°	4	10,00	34	100	10	3
MAD 050503	5°	5	12,00	40	100	12	3
MAD 060503	5°	6	14,00	45	100	14	3
MAD 080503	5°	8	16,00	45	100	16	4
MAD 100503	5°	10	18,00	45	100	18	4
MAD 120503	5°	12	20,00	45	100	20	4



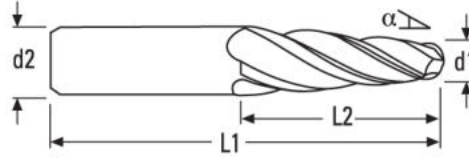
Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MADK 023003	30°	2	2,35	20	65	3	3
MADK 033003	30°	3	3,45	25	65	4	3
MADK 043003	30°	4	4,52	30	65	5	3
MADK 053003	30°	5	5,52	30	75	6	3
MADK 063003	30°	6	6,70	40	100	8	3
MADK 083003	30°	8	8,79	45	100	10	4
MADK 103003	30°	10	10,79	45	100	12	4
MADK 123003	30°	12	12,79	45	100	14	4
MADK 020103	1°	2	2,70	20	65	3	3
MADK 030103	1°	3	3,87	25	65	4	3
MADK 040103	1°	4	5,05	28	65	5	3
MADK 050103	1°	5	6,00	28	75	6	3
MADK 060103	1°	6	7,40	40	100	8	3
MADK 080103	1°	8	9,57	45	100	10	4
MADK 100103	1°	10	11,57	45	100	12	4
MADK 120103	1°	12	13,57	45	100	14	4
MADK 020133	1°30'	2	3,05	20	65	4	3
MADK 030133	1°30'	3	4,31	25	65	5	3
MADK 040133	1°30'	4	5,57	30	75	6	3
MADK 050133	1°30'	5	6,83	35	100	8	3
MADK 060133	1°30'	6	7,83	35	100	8	3
MADK 080133	1°30'	8	10,00	43	100	10	4
MADK 100133	1°30'	10	12,00	45	100	12	4
MADK 120133	1°30'	12	14,00	38	100	14	4

Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MADK 020203	2°	2	3,40	20	65	4	3
MADK 030203	2°	3	4,75	25	65	5	3
MADK 040203	2°	4	6,00	28	75	6	3
MADK 050203	2°	5	8,00	40	100	8	3
MADK 060203	2°	6	9,14	45	100	10	3
MADK 080203	2°	8	11,14	45	100	12	4
MADK 100203	2°	10	13,84	45	100	14	4
MADK 120203	2°	12	15,84	45	100	16	4
MADK 020303	3°	2	4,10	20	65	5	3
MADK 030303	3°	3	5,62	25	75	6	3
MADK 040303	3°	4	8,00	38	100	8	3
MADK 050303	3°	5	10,00	48	100	10	3
MADK 060303	3°	6	12,00	50	100	12	3
MADK 080303	3°	8	14,00	45	100	14	4
MADK 100303	3°	10	16,00	45	100	16	4
MADK 120303	3°	12	18,00	45	100	18	4
MADK 020503	5°	2	5,50	20	75	6	3
MADK 030503	5°	3	8,00	28	75	8	3
MADK 040503	5°	4	10,00	34	100	10	3
MADK 050503	5°	5	12,00	40	100	12	3
MADK 060503	5°	6	14,00	45	100	14	3
MADK 080503	5°	8	16,00	45	100	16	4
MADK 100503	5°	10	18,00	45	100	18	4
MADK 120503	5°	12	20,00	45	100	20	4



Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MAR 023003	30°	2	2,35	20	65	3	3
MAR 033003	30°	3	3,45	25	65	4	3
MAR 043003	30°	4	4,52	30	65	5	3
MAR 053003	30°	5	5,52	30	75	6	3
MAR 063003	30°	6	6,70	40	100	8	3
MAR 083003	30°	8	8,79	45	100	10	4
MAR 103003	30°	10	10,79	45	100	12	4
MAR 123003	30°	12	12,79	45	100	14	4
MAR 020103	1°	2	2,70	20	65	3	3
MAR 030103	1°	3	3,87	25	65	4	3
MAR 040103	1°	4	5,05	28	65	5	3
MAR 050103	1°	5	6,00	28	75	6	3
MAR 060103	1°	6	7,40	40	100	8	3
MAR 080103	1°	8	9,57	45	100	10	4
MAR 100103	1°	10	11,57	45	100	12	4
MAR 120103	1°	12	13,57	45	100	14	4
MAR 020133	1°30'	2	3,05	20	65	4	3
MAR 030133	1°30'	3	4,31	25	65	5	3
MAR 040133	1°30'	4	5,57	30	75	6	3
MAR 050133	1°30'	5	6,83	35	100	8	3
MAR 060133	1°30'	6	7,83	35	100	8	3
MAR 080133	1°30'	8	10,00	43	100	10	4
MAR 100133	1°30'	10	12,00	45	100	12	4
MAR 120133	1°30'	12	14,00	38	100	14	4

Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MAR 020203	2°	2	3,40	20	65	4	3
MAR 030203	2°	3	4,75	25	65	5	3
MAR 040203	2°	4	6,00	28	75	6	3
MAR 050203	2°	5	8,00	40	100	8	3
MAR 060203	2°	6	9,14	45	100	10	3
MAR 080203	2°	8	11,14	45	100	12	4
MAR 100203	2°	10	13,84	45	100	14	4
MAR 120203	2°	12	15,84	45	100	16	4
MAR 020303	3°	2	4,10	20	65	5	3
MAR 030303	3°	3	5,62	25	75	6	3
MAR 040303	3°	4	8,00	38	100	8	3
MAR 050303	3°	5	10,00	48	100	10	3
MAR 060303	3°	6	12,00	50	100	12	3
MAR 080303	3°	8	14,00	45	100	14	4
MAR 100303	3°	10	16,00	45	100	16	4
MAR 120303	3°	12	18,00	45	100	18	4
MAR 020503	5°	2	5,50	20	75	6	3
MAR 030503	5°	3	8,00	28	75	8	3
MAR 040503	5°	4	10,00	34	100	10	3
MAR 050503	5°	5	12,00	40	100	12	3
MAR 060503	5°	6	14,00	45	100	14	3
MAR 080503	5°	8	16,00	45	100	16	4
MAR 100503	5°	10	18,00	45	100	18	4
MAR 120503	5°	12	20,00	45	100	20	4



Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MARK 023003	30°	2	2,35	20	65	3	3
MARK 033003	30°	3	3,45	25	65	4	3
MARK 043003	30°	4	4,52	30	65	5	3
MARK 053003	30°	5	5,52	30	75	6	3
MARK 063003	30°	6	6,70	40	100	8	3
MARK 083003	30°	8	8,79	45	100	10	4
MARK 103003	30°	10	10,79	45	100	12	4
MARK 123003	30°	12	12,79	45	100	14	4
MARK 020103	1°	2	2,70	20	65	3	3
MARK 030103	1°	3	3,87	25	65	4	3
MARK 040103	1°	4	5,05	28	65	5	3
MARK 050103	1°	5	6,00	28	75	6	3
MARK 060103	1°	6	7,40	40	100	8	3
MARK 080103	1°	8	9,57	45	100	10	4
MARK 100103	1°	10	11,57	45	100	12	4
MARK 120103	1°	12	13,57	45	100	14	4
MARK 020133	1°30'	2	3,05	20	65	4	3
MARK 030133	1°30'	3	4,31	25	65	5	3
MARK 040133	1°30'	4	5,57	30	75	6	3
MARK 050133	1°30'	5	6,83	35	100	8	3
MARK 060133	1°30'	6	7,83	35	100	8	3
MARK 080133	1°30'	8	10,00	43	100	10	4
MARK 100133	1°30'	10	12,00	45	100	12	4
MARK 120133	1°30'	12	14,00	38	100	14	4

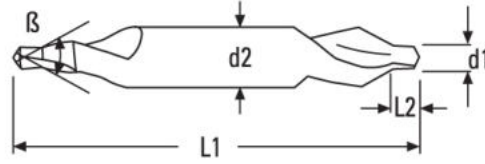
Sipariş Kodu Order Num.	α	d1 h10 mm	d3 mm	L2 mm	L1 mm	d2 h6 mm	Z
MARK 020203	2°	2	3,40	20	65	4	3
MARK 030203	2°	3	4,75	25	65	5	3
MARK 040203	2°	4	6,00	28	75	6	3
MARK 050203	2°	5	8,00	40	100	8	3
MARK 060203	2°	6	9,14	45	100	10	3
MARK 080203	2°	8	11,14	45	100	12	4
MARK 100203	2°	10	13,84	45	100	14	4
MARK 120203	2°	12	15,84	45	100	16	4
MARK 020303	3°	2	4,10	20	65	5	3
MARK 030303	3°	3	5,62	25	75	6	3
MARK 040303	3°	4	8,00	38	100	8	3
MARK 050303	3°	5	10,00	48	100	10	3
MARK 060303	3°	6	12,00	50	100	12	3
MARK 080303	3°	8	14,00	45	100	14	4
MARK 100303	3°	10	16,00	45	100	16	4
MARK 120303	3°	12	18,00	45	100	18	4
MARK 020503	5°	2	5,50	20	75	6	3
MARK 030503	5°	3	8,00	28	75	8	3
MARK 040503	5°	4	10,00	34	100	10	3
MARK 050503	5°	5	12,00	40	100	12	3
MARK 060503	5°	6	14,00	45	100	14	3
MARK 080503	5°	8	16,00	45	100	16	4
MARK 100503	5°	10	18,00	45	100	18	4
MARK 120503	5°	12	20,00	45	100	20	4



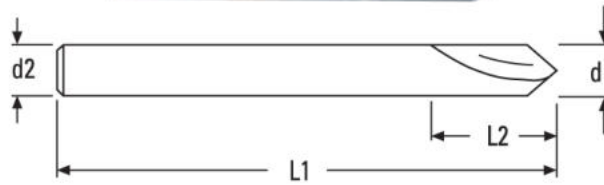
Sipariş Kodu Order Num. 	D1 mm	L2 mm	L1 mm	D2 mm	α	Z mm
MKP- 06090	6	2.5	55	6	90	4
MKP- 08090	8	3	60	8	90	4
MKP- 10090	10	4.25	72	10	90	4
MKP- 12090	12	4.5	75	12	90	4
MKP- 14090	14	5	83	14	90	4
MKP- 16090	16	6	92	16	90	4



Sipariş Kodu Order Num. 	D1 mm	L2 mm	L1 mm	D2 mm	α	Z mm
MKP- 06060	6	4	55	6	60	4
MKP- 08060	8	4.5	60	8	60	4
MKP- 10060	10	6	72	10	60	4
MKP- 12060	12	7.5	75	12	60	4
MKP- 14060	14	10	83	14	60	4
MKP- 16060	16	10	92	16	60	4



Sipariş Kodu Order Num.	D1 mm	L2 mm	L1 mm	D2 mm	B
MPM- 10013	1	1.3	50	3	60
MPM- 12516	1.25	1.6	50	3	60
MPM- 16020	1.6	2	50	4	60
MPM- 20025	2	2.5	50	5	60
MPM- 25031	2.5	3.1	50	6	60
MPM- 31539	3.15	3.9	50	8	60
MPM- 40050	4	5	56	10	60
MPM- 50063	5	6.3	63	12	60
MPM- 63080	6.3	8	70	16	60
MPM- 80010	8	10	80	20	60

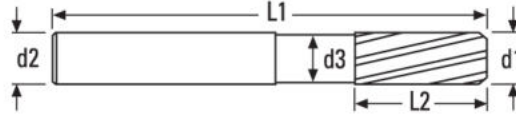


90°

120°

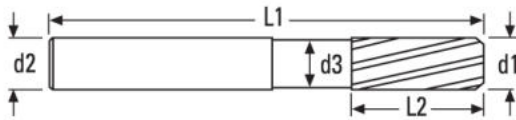
Sipariş Kodu Order Num.	Çap mm	Kesme Boyu mm	Tam Boyu mm	Şaft Çapı mm
MNC 0490	4	12	50	4
MNC 0590	5	12	50	5
MNC 0690	6	14	50	6
MNC 0890	8	16	60	8
MNC 10090	10	22	72	10
MNC 12090	12	26	75	12
MNC 14090	14	26	75	14
MNC 16090	16	30	92	16
MNC 20090	20	36	100	20

Sipariş Kodu Order Num.	Çap mm	Kesme Boyu mm	Tam Boyu mm	Şaft Çapı mm
MNC 04120	4	12	50	4
MNC 05120	5	12	50	5
MNC 06120	6	14	50	6
MNC 08120	8	16	60	8
MNC 10120	10	22	72	10
MNC 12120	12	26	75	12
MNC 14120	14	26	75	14
MNC 16120	16	30	92	16
MNC 20120	20	36	100	20



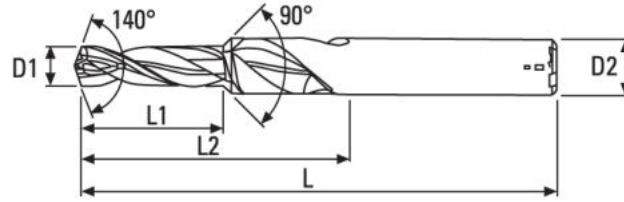
Sipariş Kodu Order Num.	d1 H7 mm	L2 mm	L1 mm	d2 h6 mm	Z
MRA 06014	3.0	14	60	3.0	4
MRA 08018	4.0	18	60	4.0	6
MRA 10020	5.0	20	60	5.0	6
MRA 12020	6.0	20	60	6.0	6
MRA 14025	7.0	25	75	7.0	6
MRA 16025	8.0	25	75	8.0	6
MRA 18025	9.0	25	75	9.0	6
MRA 20025	10.0	25	75	10.0	6
MRA 22025	11.0	25	82	11.0	6
MRA 24025	12.0	25	82	12.0	6
MRA 28025	14.0	25	83	14.0	6
MRA 32025	16.0	25	92	16.0	8
MRA 40025	20.0	25	100	20.0	8

Sipariş Kodu Order Num.	d1 H7 mm	L2 mm	L1 mm	d2 h6 mm	Z
MRAK 06014	3.0	14	60	3.0	4
MRAK 08018	4.0	18	60	4.0	6
MRAK 10020	5.0	20	60	5.0	6
MRAK 12020	6.0	20	60	6.0	6
MRAK 14025	7.0	25	75	7.0	6
MRAK 16025	8.0	25	75	8.0	6
MRAK 18025	9.0	25	75	9.0	6
MRAK 20025	10.0	25	75	10.0	6
MRAK 22025	11.0	25	82	11.0	6
MRAK 24025	12.0	25	82	12.0	6
MRAK 28025	14.0	25	83	14.0	6
MRAK 32025	16.0	25	92	16.0	8
MRAK 40025	20.0	25	100	20.0	8

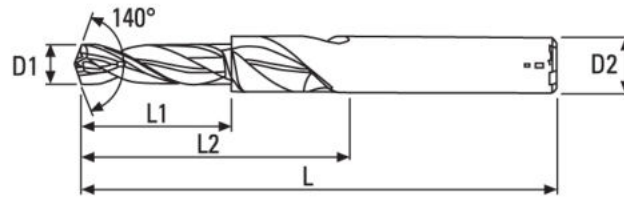


Sipariş Kodu Order Num.	d1 H7 mm	L2 mm	L1 mm	d2 h6 mm	Z
MRL 06020	3.0	20	75	3.0	4
MRL 08020	4.0	20	75	4.0	4
MRL 10022	5.0	22	82	5.0	6
MRL 12025	6.0	25	100	6.0	6
MRL 14030	7.0	30	100	7.0	6
MRL 16030	8.0	30	100	8.0	6
MRL 18030	9.0	30	100	9.0	6
MRL 20040	10.0	40	150	10.0	6
MRL 22040	11.0	40	150	11.0	6
MRL 24040	12.0	40	150	12.0	6
MRL 28047	14.0	47	150	14.0	6
MRL 32050	16.0	50	150	16.0	8
MRL 40060	20.0	60	200	20.0	8

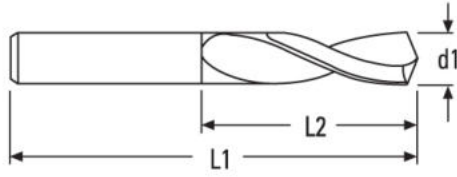
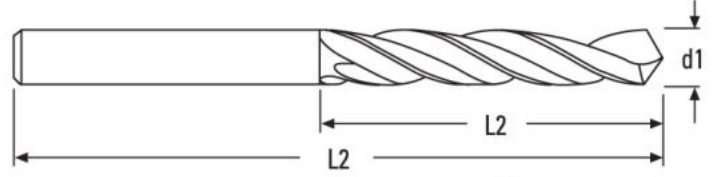
Sipariş Kodu Order Num.	d1 H7 mm	L2 mm	L1 mm	d2 h6 mm	Z
MRLK 06020	3.0	20	75	3.0	4
MRLK 08020	4.0	20	75	4.0	4
MRLK 10022	5.0	22	82	5.0	6
MRLK 12025	6.0	25	100	6.0	6
MRLK 14030	7.0	30	100	7.0	6
MRLK 16030	8.0	30	100	8.0	6
MRLK 18030	9.0	30	100	9.0	6
MRLK 20040	10.0	40	150	10.0	6
MRLK 22040	11.0	40	150	11.0	6
MRLK 24040	12.0	40	150	12.0	6
MRLK 28047	14.0	47	150	14.0	6
MRLK 32050	16.0	50	150	16.0	8
MRLK 40060	20.0	60	200	20.0	8



Kod (Designation)	ISO Metrik ISO thread	Matkap Çapı Drill dia. (D1)	L1 mm	L2 mm	L mm	Şaft Çapı D2 (shank size) mm
MVM45 - 03312	M4	3.3	12	26	62	6
MVM45 - 04215	M5	4.2	15	28	66	6
MVM45 - 05018	M6	5.0	18	36	79	8
MVM45 - 06824	M8	6.8	24	48	90	10
MVM45 - 08530	M10	8.5	30	55	102	12

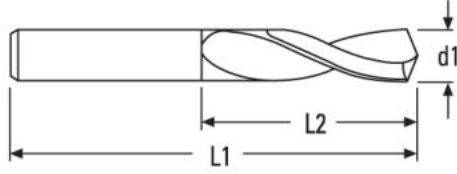
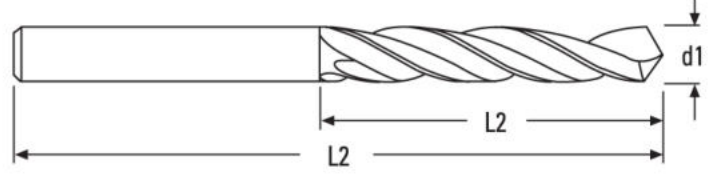


Kod (Designation)	ISO Metrik ISO thread	Matkap Çapı Drill dia. (D1)	L1 mm	L2 mm	L mm	Şaft Çapı D2 (shank size) mm
MVM90 - 04513	M4	4.50	13	26	62	8
MVM90 - 05516	M5	5.50	16	33	72	9
MVM90 - 06520	M6	6.50	20	36	80	11
MVM90 - 08526	M8	8.50	30	50	90	14
MVM90 - 10532	M10	10.50	32	55	100	18


Kısa Tip

Uzun Tip


Sipariş Kodu Order Num.	d1 mm	L2 mm	L1 mm	d2 mm
MKM 03016	3.0	16	46	3.0
MKM 03318	3.3	18	49	3.5
MKM 03520	3.5	20	52	3.5
MKM 04022	4.0	22	55	4.0
MKM 04222	4.2	22	55	4.5
MKM 04524	4.5	24	58	4.5
MKM 05026	5.0	26	62	5.0
MKM 05528	5.5	28	66	5.5
MKM 06028	6.0	28	66	6.0
MKM 06531	6.5	31	70	6.5
MKM 06834	6.8	34	74	7.0
MKM 07034	7.0	34	74	7.0
MKM 07534	7.5	34	74	7.5
MKM 08037	8.0	37	79	8.0
MKM 08537	8.5	37	79	8.5
MKM 09040	9.0	40	84	9.0
MKM 09540	9.5	40	84	9.5
MKM 10043	10.0	43	89	10.0
MKM 10543	10.5	43	89	11.0
MKM 11047	11.0	47	95	11.0
MKM 11547	11.5	47	95	12.0
MKM 12051	12.0	51	102	12.0
MKM 12551	12.5	51	102	13.0
MKM 13051	13.0	51	102	13.0
MKM 13551	13.5	51	102	14.0
MKM 14054	14.0	54	107	14.0
MKM 15056	15.0	56	111	15.0
MKM 16058	16.0	58	115	16.0
MKM 18062	18.0	62	123	18.0
MKM 20066	20.0	66	131	20.0

Sipariş Kodu Order Num.	d1 mm	L2 mm	L1 mm	d2 mm
MLM 03033	3.0	33	61	3.0
MLM 03339	3.3	39	70	3.5
MLM 03539	3.5	39	70	3.5
MLM 04043	4.0	43	75	4.0
MLM 04243	4.2	43	75	4.5
MLM 04547	4.5	47	80	4.5
MLM 05052	5.0	52	86	5.0
MLM 05557	5.5	57	93	5.5
MLM 06057	6.0	57	93	6.0
MLM 06563	6.5	63	101	6.5
MLM 06869	6.8	69	109	7.0
MLM 07069	7.0	69	109	7.0
MLM 07569	7.5	69	109	7.5
MLM 08075	8.0	75	117	8.0
MLM 08575	8.5	75	117	8.5
MLM 09081	9.0	81	125	9.0
MLM 09581	9.5	81	125	9.5
MLM 10087	10.0	87	133	10.0
MLM 10587	10.5	87	133	11.0
MLM 11094	11.0	94	142	11.0
MLM 11594	11.5	94	142	12.0
MLM 12010	12.0	101	151	12.0
MLM 12510	12.5	101	151	13.0
MLM 13010	13.0	101	151	13.0
MLM 13510	13.5	101	151	14.0
MLM 14012	14.0	120	175	14.0
MLM 15012	15.0	120	175	15.0
MLM 16012	16.0	120	175	16.0
MLM 18012	18.0	120	175	18.0
MLM 20012	20.0	120	175	20.0

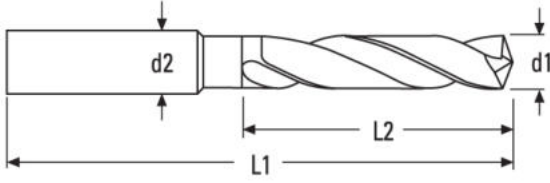

Kısa Tip

Uzun Tip


Sipariş Kodu Order Num.	d1 mm	L2 mm	L1 mm	d2 mm
MKMT 03016	3.0	16	46	3.0
MKMT 03318	3.3	18	49	3.5
MKMT 03520	3.5	20	52	3.5
MKMT 04022	4.0	22	55	4.0
MKMT 04222	4.2	22	55	4.5
MKMT 04524	4.5	24	58	4.5
MKMT 05026	5.0	26	62	5.0
MKMT 05528	5.5	28	66	5.5
MKMT 06028	6.0	28	66	6.0
MKMT 06531	6.5	31	70	6.5
MKMT 06834	6.8	34	74	7.0
MKMT 07034	7.0	34	74	7.0
MKMT 07534	7.5	34	74	7.5
MKMT 08037	8.0	37	79	8.0
MKMT 08537	8.5	37	79	8.5
MKMT 09040	9.0	40	84	9.0
MKMT 09540	9.5	40	84	9.5
MKMT 10043	10.0	43	89	10.0
MKMT 10543	10.5	43	89	11.0
MKMT 11047	11.0	47	95	11.0
MKMT 11547	11.5	47	95	12.0
MKMT 12051	12.0	51	102	12.0
MKMT 12551	12.5	51	102	13.0
MKMT 13051	13.0	51	102	13.0
MKMT 13551	13.5	51	102	14.0
MKMT 14054	14.0	54	107	14.0
MKMT 15056	15.0	56	111	15.0
MKMT 16058	16.0	58	115	16.0
MKMT 18062	18.0	62	123	18.0
MKMT 20066	20.0	66	131	20.0

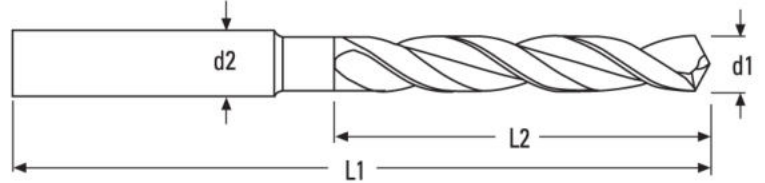
Sipariş Kodu Order Num.	d1 mm	L2 mm	L1 mm	d2 mm
MLMT 03033	3.0	33	61	3.0
MLMT 03339	3.3	39	70	3.5
MLMT 03539	3.5	39	70	3.5
MLMT 04043	4.0	43	75	4.0
MLMT 04243	4.2	43	75	4.5
MLMT 04547	4.5	47	80	4.5
MLMT 05052	5.0	52	86	5.0
MLMT 05557	5.5	57	93	5.5
MLMT 06057	6.0	57	93	6.0
MLMT 06563	6.5	63	101	6.5
MLMT 06869	6.8	69	109	7.0
MLMT 07069	7.0	69	109	7.0
MLMT 07569	7.5	69	109	7.5
MLMT 08075	8.0	75	117	8.0
MLMT 08575	8.5	75	117	8.5
MLMT 09081	9.0	81	125	9.0
MLMT 09581	9.5	81	125	9.5
MLMT 10087	10.0	87	133	10.0
MLMT 10587	10.5	87	133	11.0
MLMT 11094	11.0	94	142	11.0
MLMT 11594	11.5	94	142	12.0
MLMT 12010	12.0	101	151	12.0
MLMT 12510	12.5	101	151	13.0
MLMT 13010	13.0	101	151	13.0
MLMT 13510	13.5	101	151	14.0
MLMT 14012	14.0	120	175	14.0
MLMT 15012	15.0	120	175	15.0
MLMT 16012	16.0	120	175	16.0
MLMT 18012	18.0	120	175	18.0
MLMT 20012	20.0	120	175	20.0



Drill 3XD



Drill 5XD

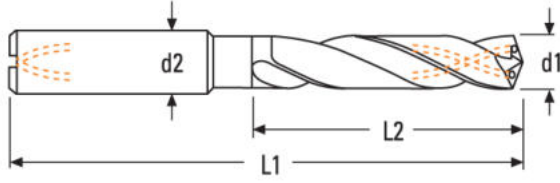


Sipariş Kodu Order Num.	Ø d1 mm	L2 mm	L1 mm	Ø d2 mm
MDT 06030	6.0	30	75	6.0
MDT 06535	6.5	35	80	8.0
MDT 07035	7.0	35	80	8.0
MDT 07535	7.5	35	80	8.0
MDT 08035	8.0	35	80	8.0
MDT 08547	8.5	47	100	10.0
MDT 09047	9.0	47	100	10.0
MDT 09547	9.5	47	100	10.0
MDT 10047	10.0	47	100	10.0
MDT 10550	10.5	50	105	12.0
MDT 11050	11.0	50	105	12.0
MDT 11550	11.5	50	105	12.0
MDT 12050	12.0	50	105	12.0
MDT 12554	12.5	54	107	14.0
MDT 13054	13.0	54	107	14.0
MDT 13554	13.5	54	107	14.0
MDT 14054	14.0	54	107	14.0
MDT 14565	14.5	65	120	16.0
MDT 15065	15.0	65	120	16.0
MDT 15565	15.5	65	120	16.0
MDT 16065	16.0	65	120	16.0
MDT 16570	16.5	70	135	18.0
MDT 17070	17.0	70	135	18.0
MDT 17570	17.5	70	135	18.0
MDT 18070	18.0	70	135	18.0
MDT 18575	18.5	75	140	20.0
MDT 19075	19.0	75	140	20.0
MDT 19575	19.5	75	140	20.0
MDT 20075	20.0	75	140	20.0

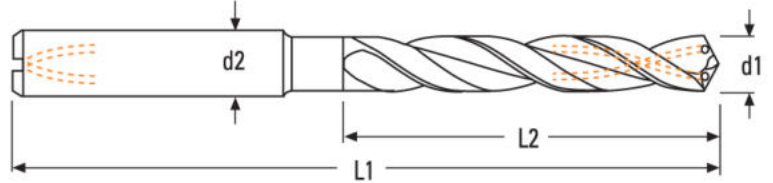
Sipariş Kodu Order Num.	Ø d1 mm	L2 mm	L1 mm	Ø d2 mm
MDTL 06040	6.0	40	100	6.0
MDTL 06540	6.5	40	100	8.0
MDTL 07045	7.0	45	100	8.0
MDTL 07545	7.5	45	100	8.0
MDTL 08050	8.0	50	100	8.0
MDTL 08560	8.5	60	110	10.0
MDTL 09060	9.0	60	110	10.0
MDTL 09560	9.5	60	110	10.0
MDTL 10060	10.0	60	110	10.0
MDTL 10565	10.5	65	130	12.0
MDTL 11071	11.0	71	130	12.0
MDTL 11571	11.5	71	130	12.0
MDTL 12071	12.0	71	130	12.0
MDTL 12577	12.5	77	136	14.0
MDTL 13077	13.0	77	136	14.0
MDTL 13577	13.5	77	136	14.0
MDTL 14077	14.0	77	136	14.0
MDTL 14583	14.5	83	150	16.0
MDTL 15083	15.0	83	150	16.0
MDTL 15583	15.5	83	150	16.0
MDTL 16083	16.0	83	150	16.0
MDTL 16593	16.5	93	155	18.0
MDTL 17093	17.0	93	155	18.0
MDTL 17593	17.5	93	155	18.0
MDTL 18093	18.0	93	155	18.0
MDTL 18599	18.5	99	162	20.0
MDTL 19099	19.0	99	162	20.0
MDTL 19599	19.5	99	162	20.0
MDTL 20099	20.0	99	162	20.0



Drill 3XD

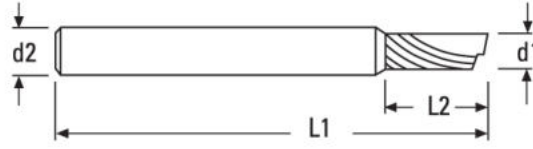


Drill 5XD

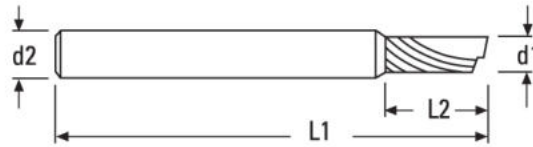


Sipariş Kodu Order Num.	Ø d1 mm	L2 mm	L1 mm	Ø d2 mm
MDTS 06030	6.0	30	75	6.0
MDTS 06535	6.5	35	80	8.0
MDTS 07035	7.0	35	80	8.0
MDTS 07535	7.5	35	80	8.0
MDTS 08035	8.0	35	80	8.0
MDTS 08547	8.5	47	100	10.0
MDTS 09047	9.0	47	100	10.0
MDTS 09547	9.5	47	100	10.0
MDTS 10047	10.0	47	100	10.0
MDTS 10550	10.5	50	105	12.0
MDTS 11050	11.0	50	105	12.0
MDTS 11550	11.5	50	105	12.0
MDTS 12050	12.0	50	105	12.0
MDTS 12554	12.5	54	107	14.0
MDTS 13054	13.0	54	107	14.0
MDTS 13554	13.5	54	107	14.0
MDTS 14054	14.0	54	107	14.0
MDTS 14565	14.5	65	120	16.0
MDTS 15065	15.0	65	120	16.0
MDTS 15565	15.5	65	120	16.0
MDTS 16065	16.0	65	120	16.0
MDTS 16570	16.5	70	135	18.0
MDTS 17070	17.0	70	135	18.0
MDTS 17570	17.5	70	135	18.0
MDTS 18070	18.0	70	135	18.0
MDTS 18575	18.5	75	140	20.0
MDTS 19075	19.0	75	140	20.0
MDTS 19575	19.5	75	140	20.0
MDTS 20075	20.0	75	140	20.0

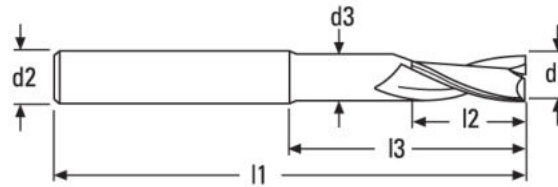
Sipariş Kodu Order Num.	Ø d1 mm	L2 mm	L1 mm	Ø d2 mm
MDTSL 06040	6.0	40	100	6.0
MDTSL 06540	6.5	40	100	8.0
MDTSL 07045	7.0	45	100	8.0
MDTSL 07545	7.5	45	100	8.0
MDTSL 08050	8.0	50	100	8.0
MDTSL 08560	8.5	60	110	10.0
MDTSL 09060	9.0	60	110	10.0
MDTSL 09560	9.5	60	110	10.0
MDTSL 10060	10.0	60	110	10.0
MDTSL 10565	10.5	65	130	12.0
MDTSL 11071	11.0	71	130	12.0
MDTSL 11571	11.5	71	130	12.0
MDTSL 12071	12.0	71	130	12.0
MDTSL 12577	12.5	77	136	14.0
MDTSL 13077	13.0	77	136	14.0
MDTSL 13577	13.5	77	136	14.0
MDTSL 14077	14.0	77	136	14.0
MDTSL 14583	14.5	83	150	16.0
MDTSL 15083	15.0	83	150	16.0
MDTSL 15583	15.5	83	150	16.0
MDTSL 16083	16.0	83	150	16.0
MDTSL 16593	16.5	93	155	18.0
MDTSL 17093	17.0	93	155	18.0
MDTSL 17593	17.5	93	155	18.0
MDTSL 18093	18.0	93	155	18.0
MDTSL 18599	18.5	99	162	20.0
MDTSL 19099	19.0	99	162	20.0
MDTSL 19599	19.5	99	162	20.0
MDTSL 20099	20.0	99	162	20.0

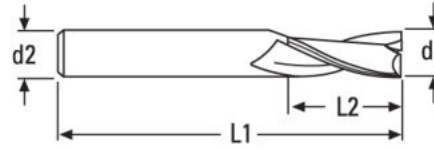


Sipariş Kodu Order Num. ①	Çap d1 mm	Kesme Boyu L2 mm	Tam Boyu L1 mm	Şaft Çapı d2 mm
MTA 030101	3.0	10	40	3
MTA 030111	3.0	11	50	6
MTA 040121	4.0	12	50	4
MTA 040131	4.0	13	50	6
MTA 050131	5.0	13	50	5
MTA 050141	5.0	14	50	6
MTA 060131	6.0	13	60	6
MTA 080181	8.0	18	60	8
MTA 100221	10.0	22	72	10

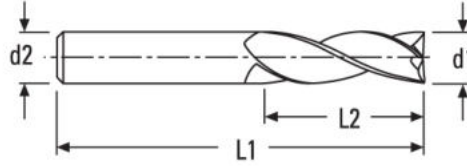


Sipariş Kodu Order Num. ①	Çap d1 mm	Kesme Boyu L2 mm	Tam Boyu L1 mm	Şaft Çapı d2 mm
MTAL 030151	3.0	15	60	3
MTAL 030161	3.0	16	60	6
MTAL 040161	4.0	16	60	4
MTAL 040171	4.0	17	60	6
MTAL 050181	5.0	18	60	5
MTAL 050191	5.0	19	60	6
MTAL 060241	6.0	24	75	6
MTAL 080321	8.0	32	75	8
MTAL 100401	10.0	40	100	10

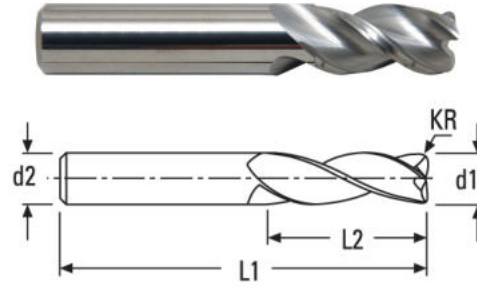
[illegible]



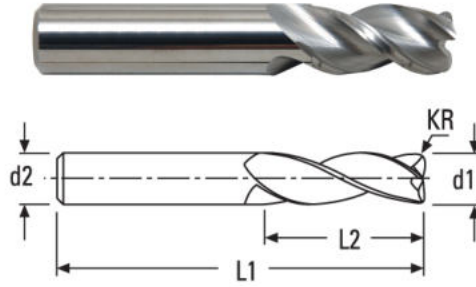
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
AHF 030902	3.0	9	38	3
AHF 031002	3.0	10	50	6
AHF 040142	4.0	14	50	4
AHF 040152	4.0	15	60	6
AHF 050162	5.0	16	50	5
AHF 050172	5.0	17	60	6
AHF 060192	6.0	19	57	6
AHF 070192	7.0	19	60	8
AHF 080202	8.0	20	60	8
AHF 100212	10.0	21	72	10
AHF 120252	12.0	25	75	12
AHF 140322	14.0	32	83	14
AHF 160322	16.0	32	92	16
AHF 180352	18.0	35	100	18
AHF 200382	20.0	38	100	20
AHF 030152	3.0	15	60	3
AHF 030162	3.0	16	60	6
AHF 040252	4.0	25	60	4
AHF 040262	4.0	26	60	6
AHF 050252	5.0	25	75	5
AHF 050262	5.0	26	75	6
AHF 060302	6.0	30	75	6
AHF 080302	8.0	30	75	8
AHF 100452	10.0	45	100	10
AHF 120452	12.0	45	100	12
AHF 140452	14.0	45	100	14
AHF 160452	16.0	45	100	16
AHF 180452	18.0	45	100	18
AHF 200452	20.0	45	100	20



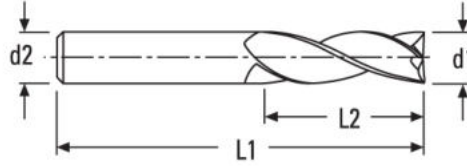
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
AKF 030903	3.0	9	38	3
AKF 031003	3.0	10	50	6
AKF 040143	4.0	14	50	4
AKF 040153	4.0	15	60	6
AKF 050163	5.0	16	50	5
AKF 050173	5.0	17	60	6
AKF 060193	6.0	19	57	6
AKF 070193	7.0	19	60	8
AKF 080203	8.0	20	60	8
AKF 100213	10.0	21	72	10
AKF 120253	12.0	25	75	12
AKF 140323	14.0	32	83	14
AKF 160323	16.0	32	92	16
AKF 180353	18.0	35	100	18
AKF 200383	20.0	38	100	20
AKF 030153	3.0	15	60	3
AKF 030163	3.0	16	60	6
AKF 040253	4.0	25	60	4
AKF 040263	4.0	26	60	6
AKF 050253	5.0	25	75	5
AKF 050263	5.0	26	75	6
AKF 060303	6.0	30	75	6
AKF 080303	8.0	30	75	8
AKF 100453	10.0	45	100	10
AKF 120453	12.0	45	100	12
AKF 140453	14.0	45	100	14
AKF 160453	16.0	45	100	16
AKF 180453	18.0	45	100	18
AKF 200453	20.0	45	100	20



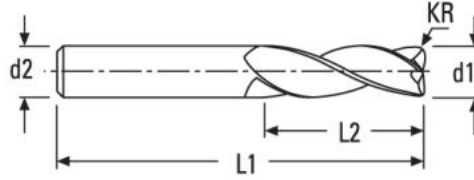
Sipariş Kodu Order Num. 	d1 h10 mm	KR mm	L2 mm	L1 mm	d2 h6 mm
AKFR 030503	3.0	0.5	10	50	6
AKFR 040503	4.0	0.5	15	60	6
AKFR 050503	5.0	0.5	17	60	6
AKFR 060503	6.0	0.5	19	57	6
AKFR 061003	6.0	1.0	19	60	8
AKFR 080503	8.0	0.5	20	60	8
AKFR 081003	8.0	1	20	60	8
AKFR 081503	8.0	1.5	20	60	8
AKFR 100503	10.0	0.5	21	72	10
AKFR 101003	10.0	1	21	72	10
AKFR 101503	10.0	1.5	21	72	10
AKFR 102003	10.0	2	21	72	10
AKFR 120503	12.0	0.5	25	75	12
AKFR 121003	12.0	1	25	75	12
AKFR 121503	12.0	1.5	25	75	12
AKFR 122003	12.0	2	25	75	12
AKFR 140503	14.0	0.5	32	83	14
AKFR 141003	14.0	1	32	83	14
AKFR 141503	14.0	1.5	32	83	14
AKFR 142003	14.0	2	32	83	14
AKFR 160503	16.0	0.5	32	92	16
AKFR 161003	16.0	1	32	92	16
AKFR 161503	16.0	1.5	32	92	16
AKFR 162003	16.0	2	32	92	16
AKFR 180503	18.0	0.5	35	100	18
AKFR 181003	18.0	1	35	100	18
AKFR 181503	18.0	1.5	35	100	18
AKFR 182003	18.0	2	35	100	18
AKFR 200503	20.0	0.5	38	100	20
AKFR 201003	20.0	1	38	100	20
AKFR 201503	20.0	1.5	38	100	20
AKFR 202003	20.0	2	38	100	20



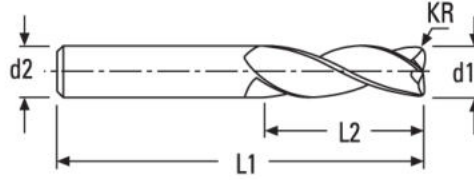
Sipariş Kodu Order Num. 	d1 h10 mm	KR mm	L2 mm	L1 mm	d2 h6 mm
AKFRL030503	3.0	0.5	16	60	6
AKFRL040503	4.0	0.5	26	60	6
AKFRL050503	5.0	0.5	26	75	6
AKFRL060503	6.0	0.5	30	75	6
AKFRL061003	6.0	1	30	75	6
AKFRL080503	8.0	0.5	30	75	8
AKFRL081003	8.0	1	30	75	8
AKFRL081503	8.0	1.5	30	75	8
AKFRL100503	10.0	0.5	45	100	10
AKFRL101003	10.0	1	45	100	10
AKFRL101503	10.0	1.5	45	100	10
AKFRL102003	10.0	2	45	100	10
AKFRL120503	12.0	0.5	45	100	12
AKFRL121003	12.0	1	45	100	12
AKFRL121503	12.0	1.5	45	100	12
AKFRL122003	12.0	2	45	100	12
AKFRL140503	14.0	0.5	45	100	14
AKFRL141003	14.0	1	45	100	14
AKFRL141503	14.0	1.5	45	100	14
AKFRL142003	14.0	2	45	100	14
AKFRL160503	16.0	0.5	45	100	16
AKFRL161003	16.0	1	45	100	16
AKFRL161503	16.0	1.5	45	100	16
AKFRL162003	16.0	2	45	100	16
AKFRL180503	18.0	0.5	45	100	18
AKFRL181003	18.0	1	45	100	18
AKFRL181503	18.0	1.5	45	100	18
AKFRL182003	18.0	2	45	100	18
AKFRL200503	20.0	0.5	45	100	20
AKFRL201003	20.0	1	45	100	20
AKFRL201503	20.0	1.5	45	100	20
AKFRL202003	20.0	2	45	100	20



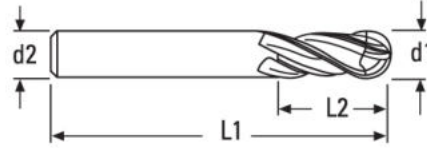
Sipariş Kodu Order Num. 	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
ASF 030903	3.0	9	38	3
ASF 031003	3.0	10	50	6
ASF 040143	4.0	14	50	4
ASF 040153	4.0	15	60	6
ASF 050163	5.0	16	50	5
ASF 050173	5.0	17	60	6
ASF 060193	6.0	19	57	6
ASF 070193	7.0	19	60	8
ASF 080203	8.0	20	60	8
ASF 100213	10.0	21	72	10
ASF 120253	12.0	25	75	12
ASF 140323	14.0	32	83	14
ASF 160323	16.0	32	92	16
ASF 180353	18.0	35	100	18
ASF 200383	20.0	38	100	20
ASF 030153	3.0	15	60	3
ASF 030163	3.0	16	60	6
ASF 040253	4.0	25	60	4
ASF 040263	4.0	26	60	6
ASF 050253	5.0	25	75	5
ASF 050263	5.0	26	75	6
ASF 060303	6.0	30	75	6
ASF 080303	8.0	30	75	8
ASF 100453	10.0	45	100	10
ASF 120453	12.0	45	100	12
ASF 140453	14.0	45	100	14
ASF 160453	16.0	45	100	16
ASF 180453	18.0	45	100	18
ASF 200453	20.0	45	100	20



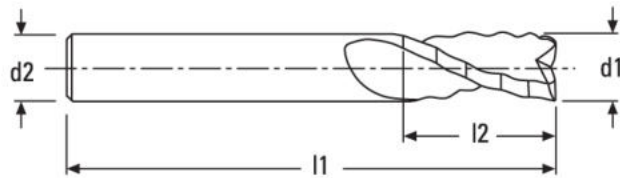
Sipariş Kodu Order Num. 	d1 h10 mm	KR mm	L2 mm	L1 mm	d2 h6 mm
ASFR 030503	3.0	0.5	10	50	6
ASFR 040503	4.0	0.5	15	60	6
ASFR 050503	5.0	0.5	17	60	6
ASFR 060503	6.0	0.5	19	57	6
ASFR 061003	6.0	1	19	57	6
ASFR 080503	8.0	0.5	20	60	8
ASFR 081003	8.0	1	20	60	8
ASFR 081503	8.0	1.5	20	60	8
ASFR 100503	10.0	0.5	21	72	10
ASFR 101003	10.0	1	21	72	10
ASFR 101503	10.0	1.5	21	72	10
ASFR 102003	10.0	2	21	72	10
ASFR 120503	12.0	0.5	25	75	12
ASFR 121003	12.0	1	25	75	12
ASFR 121503	12.0	1.5	25	75	12
ASFR 122003	12.0	2	25	75	12
ASFR 140503	14.0	0.5	32	83	14
ASFR 141003	14.0	1	32	83	14
ASFR 141503	14.0	1.5	32	83	14
ASFR 142003	14.0	2	32	83	14
ASFR 160503	16.0	0.5	32	92	16
ASFR 161003	16.0	1	32	92	16
ASFR 161503	16.0	1.5	32	92	16
ASFR 162003	16.0	2	32	92	16
ASFR 180503	18.0	0.5	35	100	18
ASFR 181003	18.0	1	35	100	18
ASFR 181503	18.0	1.5	35	100	18
ASFR 182003	18.0	2	35	100	18
ASFR 200503	20.0	0.5	38	100	20
ASFR 201003	20.0	1	38	100	20
ASFR 201503	20.0	1.5	38	100	20
ASFR 202003	20.0	2	38	100	20

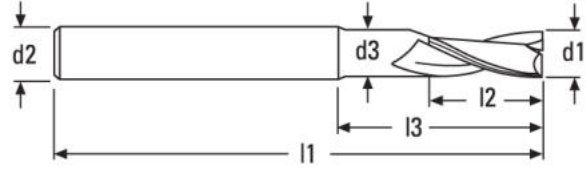


Sipariş Kodu Order Num. 	d1 h10 mm	KR mm	L2 mm	L1 mm	d2 h6 mm
ASFRL 030503	3.0	0.5	16	60	6
ASFRL 040503	4.0	0.5	26	60	6
ASFRL 050503	5.0	0.5	26	75	6
ASFRL 060503	6.0	0.5	30	75	6
ASFRL 061003	6.0	1	30	75	6
ASFRL 080503	8.0	0.5	30	75	8
ASFRL 081003	8.0	1	30	75	8
ASFRL 081503	8.0	1.5	30	75	8
ASFRL 100503	10.0	0.5	45	100	10
ASFRL 101003	10.0	1	45	100	10
ASFRL 101503	10.0	1.5	45	100	10
ASFRL 102003	10.0	2	45	100	10
ASFRL 120503	12.0	0.5	45	100	12
ASFRL 121003	12.0	1	45	100	12
ASFRL 121503	12.0	1.5	45	100	12
ASFRL 122003	12.0	2	45	100	12
ASFRL 140503	14.0	0.5	45	100	14
ASFRL 141003	14.0	1	45	100	14
ASFRL 141503	14.0	1.5	45	100	14
ASFRL 142003	14.0	2	45	100	14
ASFRL 160503	16.0	0.5	45	100	16
ASFRL 161003	16.0	1	45	100	16
ASFRL 161503	16.0	1.5	45	100	16
ASFRL 162003	16.0	2	45	100	16
ASFRL 180503	18.0	0.5	45	100	18
ASFRL 181003	18.0	1	45	100	18
ASFRL 181503	18.0	1.5	45	100	18
ASFRL 182003	18.0	2	45	100	18
ASFRL 200503	20.0	0.5	45	100	20
ASFRL 201003	20.0	1	45	100	20
ASFRL 201503	20.0	1.5	45	100	20
ASFRL 202003	20.0	2	45	100	20

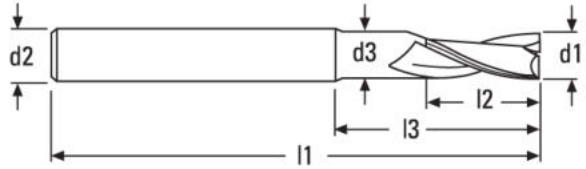


Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MARF 030902	MARF 030903	3.0	9	38	3
MARF 031002	MARF 031003	3.0	10	50	6
MARF 040142	MARF 040143	4.0	14	50	4
MARF 040152	MARF 040153	4.0	15	60	6
MARF 050162	MARF 050163	5.0	16	50	5
MARF 050172	MARF 050173	5.0	17	60	6
MARF 060192	MARF 060193	6.0	19	57	6
MARF 070192	MARF 070193	7.0	19	60	8
MARF 080202	MARF 080203	8.0	20	60	8
MARF 100212	MARF 100213	10.0	21	72	10
MARF 120252	MARF 120253	12.0	25	75	12
MARF 140322	MARF 140323	14.0	32	83	14
MARF 160322	MARF 160323	16.0	32	92	16
MARF 180352	MARF 180353	18.0	35	100	18
MARF 200382	MARF 200383	20.0	38	100	20
MARF 030152	MARF 030153	3.0	15	60	3
MARF 030162	MARF 030163	3.0	16	60	6
MARF 040252	MARF 040253	4.0	25	60	4
MARF 040262	MARF 040263	4.0	26	60	6
MARF 050252	MARF 050253	5.0	25	75	5
MARF 050262	MARF 050263	5.0	26	75	6
MARF 060302	MARF 060303	6.0	30	75	6
MARF 080302	MARF 080303	8.0	30	75	8
MARF 100452	MARF 100453	10.0	45	100	10
MARF 120452	MARF 120453	12.0	45	100	12
MARF 140452	MARF 140453	14.0	45	100	14
MARF 160452	MARF 160453	16.0	45	100	16
MARF 180452	MARF 180453	18.0	45	100	18
MARF 200452	MARF 200453	20.0	45	100	20

[illegible]



Sipariş Kodu Order Num.	d1 h10 mm	L2 mm	L3 mm	L1 mm	d3 mm	d2 h6 mm
HPCA 060133	6.0	13	19	60	5.5	6
HPCA 080193	8.0	19	25	60	7.5	8
HPCA 100213	10.0	21	30	72	9.5	10
HPCA 120253	12.0	25	36	75	11.2	12
HPCA 140263	14.0	26	36	83	13.2	14
HPCA 160323	16.0	32	42	92	15	16
HPCA 180323	18.0	32	42	92	17	18
HPCA 200383	20.0	38	42	100	19	20



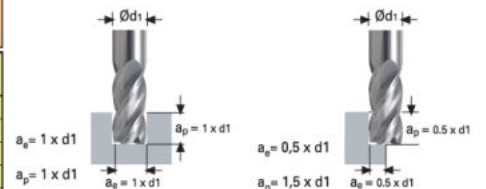
Sipariş Kodu Order Num.	d1 h10 mm	L2 mm	L3 mm	L1 mm	d3 mm	d2 h6 mm
HPCA 060134	6.0	13	19	60	5.5	6
HPCA 080194	8.0	19	25	60	7.5	8
HPCA 100214	10.0	21	30	72	9.5	10
HPCA 120254	12.0	25	36	75	11.2	12
HPCA 140264	14.0	26	36	83	13.2	14
HPCA 160324	16.0	32	42	92	15	16
HPCA 180324	18.0	32	42	92	17	18
HPCA 200384	20.0	38	42	100	19	20

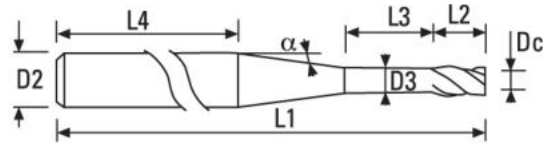
Alüminyum (alaşımız, düşük alaşımlı)
Alüminyum alaşımlar <0.5% Si
Alüminyum alaşımlar 5-10% Si
Alüminyum alaşımlar 10-15% Si
Alüminyum alaşımlar >15% Si

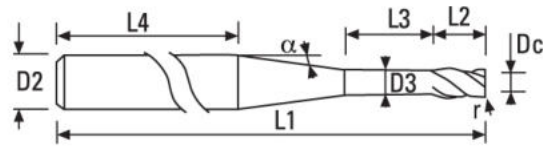
Bakır dövme alaşımlar
Özel bakır alaşımlar
Kısa talaşlı princi, bronz ve kırmızı bronz
Uzun talaşlı princi
Magnezyum ve magnezyum alaşımları
Termoplastik

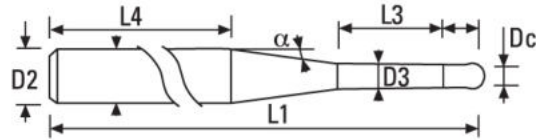
Takımlar çeşitli malzeme grupları için
üniversal kullanım alanına sahiptir,

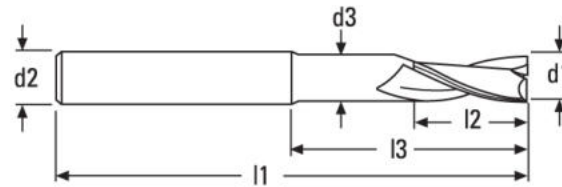
d1	ap	ae	Vc=190m/dk			Vc=170m/dk		
			fz	S	Vf	fz	S	Vf
6	6	3	0.040	7563	900	0.042	6767	852
8	8	4	0.040	7563	900	0.042	6767	852
10	10	5	0.050	6050	900	0.052	5414	844
12	12	6	0.060	5042	907	0.063	4511	852
14	14	7	0.070	4322	907	0.073	3867	846
16	16	8	0.070	3781	790	0.084	3383	852

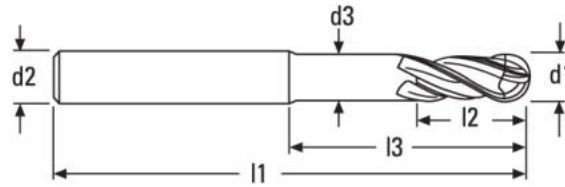


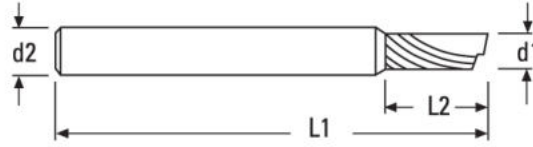
[illegible]

[illegible]

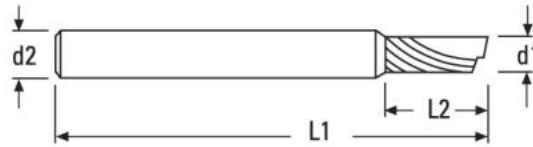
[illegible]

[illegible]

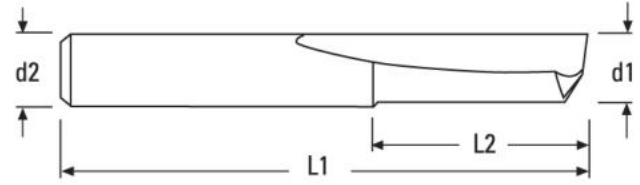
[illegible]



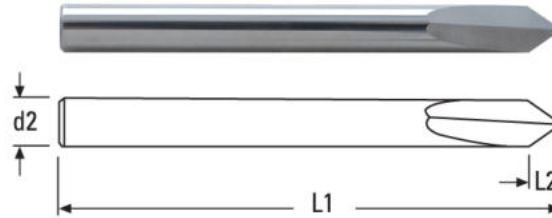
Sipariş Kodu Order Num. 1	Çap d1 mm	Kesme Boyu L2 mm	Tam Boyu L1 mm	Şaft Çapı d2 mm
MTP 030101	3.0	10	40	3
MTP 030111	3.0	11	50	6
MTP 040121	4.0	12	50	4
MTP 040131	4.0	13	50	6
MTP 050131	5.0	13	50	5
MTP 050141	5.0	14	50	6
MTP 060131	6.0	13	60	6
MTP 080181	8.0	18	60	8
MTP 100221	10.0	22	72	10



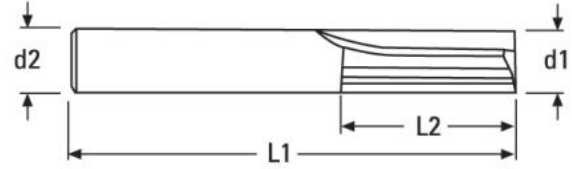
Sipariş Kodu Order Num. 1	Çap d1 mm	Kesme Boyu L2 mm	Tam Boyu L1 mm	Şaft Çapı d2 mm
MTPL 030151	3.0	15	60	3
MTPL 030161	3.0	16	60	6
MTPL 040161	4.0	16	60	4
MTPL 040171	4.0	17	60	6
MTPL 050181	5.0	18	60	5
MTPL 050191	5.0	19	60	6
MTPL 060241	6.0	24	75	6
MTPL 080321	8.0	32	75	8
MTPL 100401	10.0	40	100	10



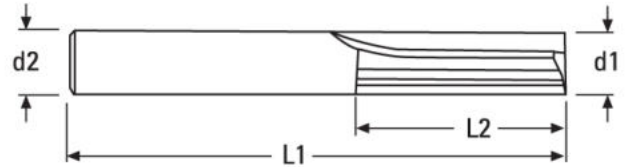
Sipariş Kodu Order Num.	D1 mm	L2 mm	L1 mm	D2 mm
MPR- 030091	3	9	40	3
MPR- 030151	3	15	60	3
MPR- 040121	4	12	50	4
MPR- 040161	4	16	60	4
MPR- 050131	5	13	50	5
MPR- 050181	5	18	60	5
MPR- 060131	6	13	60	6
MPR- 060241	6	24	75	6
MPR- 080181	8	18	60	8
MPR- 080321	8	32	75	8
MPR- 100211	10	21	72	10
MPR- 100401	10	40	100	10
MPR- 120251	12	25	75	12
MPR- 120451	12	45	100	12



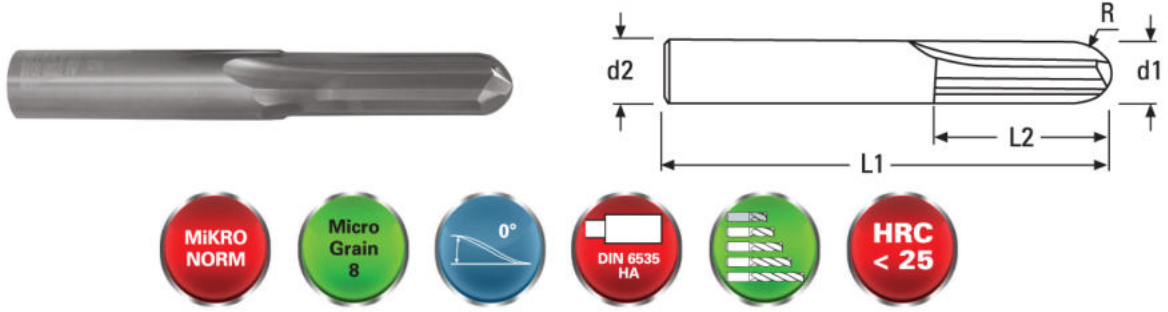
Sipariş Kodu Order Num.	D1 mm	L2 mm	L1 mm	D2 mm	Z mm
MS - 09057	4	2.8	50	4	1
MS - 09024	6	4.2	50	6	1



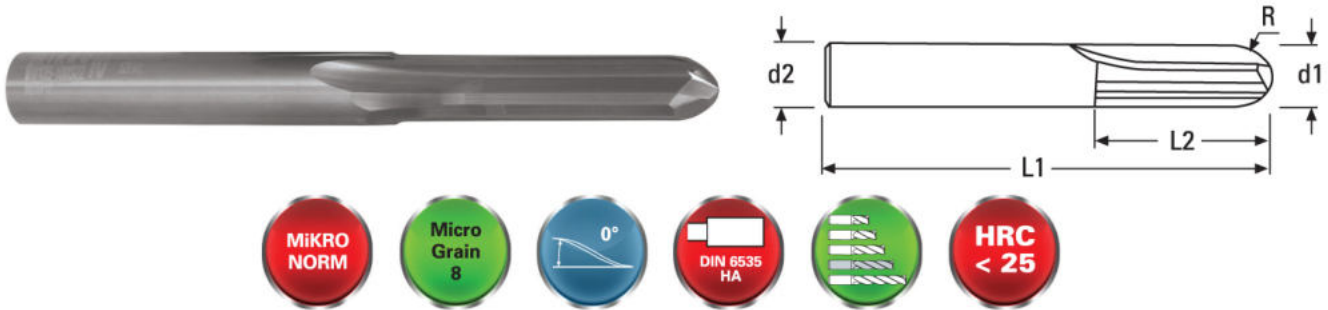
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	D1 mm	L2 mm	L1 mm	D2 mm
MAF- 030122	MAF- 030123	3	12	50	3
MAF- 030132	MAF- 030133	3	13	50	6
MAF- 040142	MAF- 040143	4	14	50	4
MAF- 040152	MAF- 040153	4	15	50	6
MAF- 050162	MAF- 050163	5	22	50	5
MAF- 060202	MAF- 060203	6	22	57	6
MAF- 080222	MAF- 080223	8	23	60	8
MAF- 100322	MAF- 100323	10	32	75	10
MAF- 120352	MAF- 120353	12	35	80	12
MAF- 140352	MAF- 140353	14	35	90	14
MAF- 160352	MAF- 160353	16	35	90	16
MAF- 200452	MAF- 200453	20	45	100	20



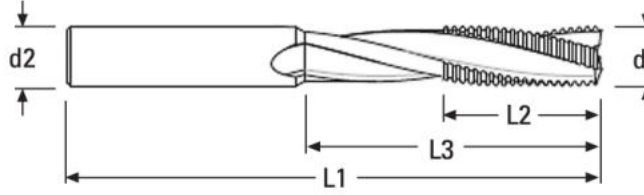
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	D1 mm	L2 mm	L1 mm	D2 mm
MAFL- 030152	MAFL- 030153	3	15	60	3
MAFL- 030162	MAFL- 030163	3	16	60	6
MAFL- 040222	MAFL- 040223	4	22	60	4
MAFL- 040262	MAFL- 040263	4	26	60	6
MAFL- 050252	MAFL- 050253	5	25	75	5
MAFL- 050262	MAFL- 050263	5	26	100	6
MAFL- 060322	MAFL- 060323	6	32	66	6
MAFL- 060402	MAFL- 060403	6	40	100	6
MAFL- 080322	MAFL- 080323	8	32	75	8
MAFL- 080402	MAFL- 080403	8	40	100	8
MAFL- 100452	MAFL- 100453	10	45	100	10
MAFL- 120452	MAFL- 120453	12	45	100	12
MAFL- 140452	MAFL- 140453	14	45	100	14
MAFL- 160452	MAFL- 160453	16	45	100	16
MAFL- 200452	MAFL- 200453	20	45	100	20



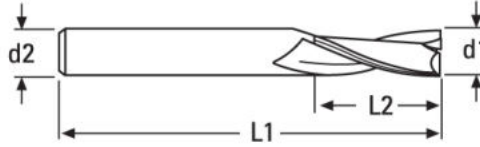
Sipariş Kodu Order Num. 	D1 mm	L2 mm	L1 mm	D2 mm
MAFR- 030122	3	12	50	3
MAFR- 030132	3	13	50	6
MAFR- 040142	4	14	50	4
MAFR- 040152	4	15	50	6
MAFR- 050162	5	22	50	5
MAFR- 060202	6	22	57	6
MAFR- 080222	8	23	60	8
MAFR- 100322	10	32	75	10
MAFR- 120352	12	35	80	12
MAFR- 140352	14	35	90	14
MAFR- 160352	16	35	90	16
MAFR- 200452	20	45	100	20



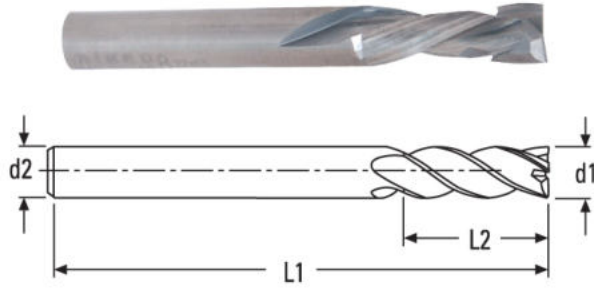
Sipariş Kodu Order Num. 	D1 mm	L2 mm	L1 mm	D2 mm
MAFLR- 030152	3	15	60	3
MAFLR- 030162	3	16	60	6
MAFLR- 040252	4	25	60	4
MAFLR- 040262	4	26	60	6
MAFLR- 050252	5	25	75	5
MAFLR- 050262	5	26	100	6
MAFLR- 060322	6	32	66	6
MAFLR- 060402	6	40	100	6
MAFLR- 080322	8	32	75	8
MAFLR- 080402	8	40	100	8
MAFLR- 100452	10	45	100	10
MAFLR- 120452	12	45	100	12
MAFLR- 140452	14	45	100	14
MAFLR- 160452	16	45	100	16
MAFLR- 200452	20	45	100	20



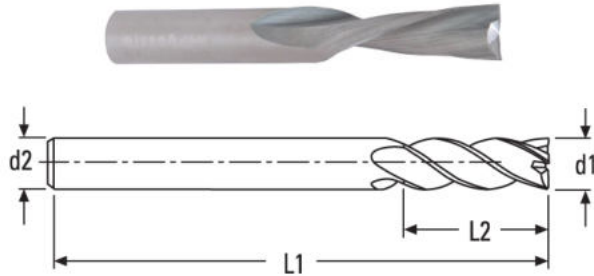
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	Sipariş Kodu Order Num. 4	d1 h10 mm	L2 mm	L3 mm	L1 mm	d2 h6 mm
M104 140502	M104 140503	M104 140504	14.0	50	100	160	14.0
M104 160502	M104 160503	M104 160504	16.0	50	100	160	16.0
M104 180502	M104 180503	M104 180504	18.0	50	100	160	18.0
M104 200502	M104 200503	M104 200504	20.0	50	100	160	20.0



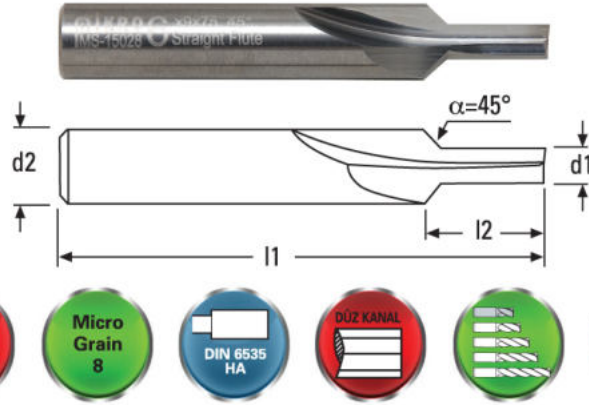
Sipariş Kodu Order Num. 2	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
M105 030902	3.0	9	38	3
M105 031002	3.0	10	50	6
M105 040142	4.0	14	50	4
M105 040152	4.0	15	60	6
M105 050162	5.0	16	50	5
M105 050172	5.0	20	60	6
M105 060192	6.0	22	57	6
M105 070192	7.0	19	60	8
M105 080202	8.0	20	60	8
M105 100212	10.0	21	72	10
M105 120252	12.0	25	75	12
M105 140322	14.0	32	83	14
M105 160322	16.0	32	92	16
M105 180352	18.0	35	100	18
M105 200382	20.0	38	100	20



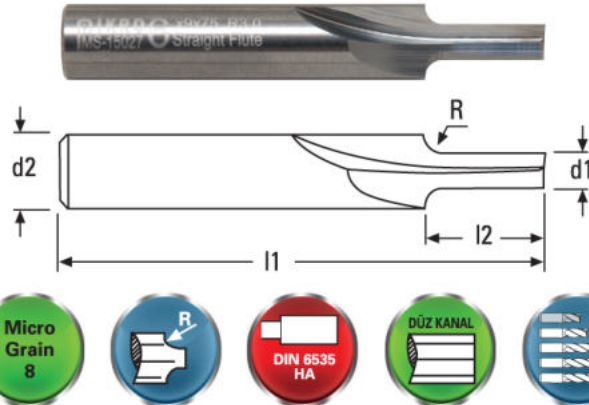
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
MPN 060222	MPN 060223	6	22	60	6
MPN 080222	MPN 080223	8	22	65	8
MPN 100322	MPN 100323	10	32	80	10
MPN 120322	MPN 120323	12	32	80	12



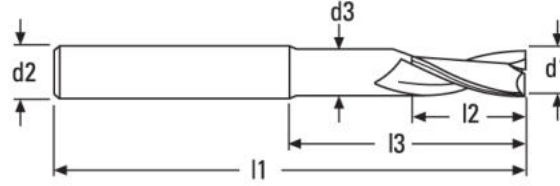
Sipariş Kodu Order Num. 2	Sipariş Kodu Order Num. 3	d1 h10 mm	L2 mm	L1 mm	d2 h6 mm
M109- 050202	M109- 050203	5	20	60	5
M109- 060222	M109- 060223	6	22	60	6
M109- 060302	M109- 060303	6	30	75	6
M109- 080222	M109- 080223	8	22	60	8
M109- 080322	M109- 080323	8	32	75	8
M109- 100222	M109- 100223	10	22	72	10
M109- 100352	M109- 100353	10	35	80	10



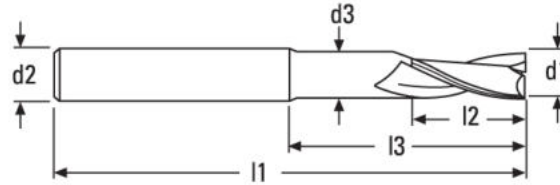
Sipariş Kodu Order Num. 	D1 mm	L2 mm	L1 mm	D2 mm	Z	α
M107 0619	6	22	75	14	2	45
M107 1819	8	22	75	16	2	45
M107 1019	10	22	75	20	2	45
M107 1219	12	22	75	20	2	45



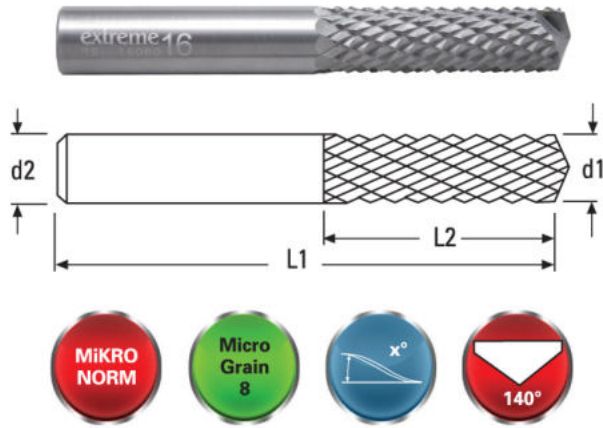
Sipariş Kodu Order Num. 	R	D1 mm	L2 mm	L1 mm	D2 mm
M106 06002	2	6	22	75	10
M106 06003	3	6	22	75	12
M106 06004	4	6	22	75	14
M106 06005	5	6	22	75	16
M106 08002	2	8	22	75	12
M106 08003	3	8	22	75	14
M106 08004	4	8	22	75	16
M106 08005	5	8	22	75	18
M106 10002	2	10	22	80	14
M106 10003	3	10	22	80	16
M106 10004	4	10	22	80	18
M106 10005	5	10	22	80	20
M106 12002	2	12	22	80	18
M106 12003	3	12	22	80	18
M106 12004	4	12	22	80	20



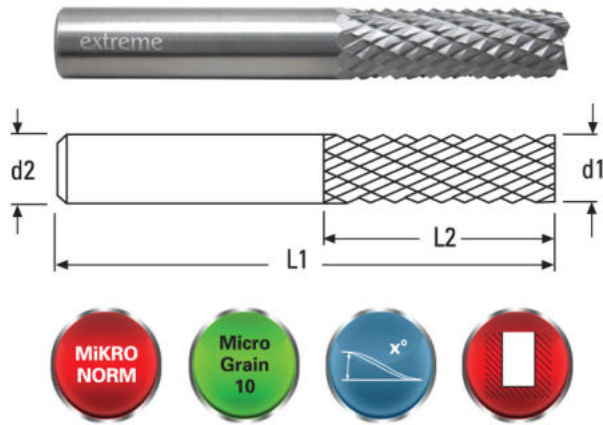
Sipariş Kodu Order Num. 1	Çap Ø d1 mm	L2 mm	d3 mm	L3 mm	L1 mm	d2 h6 mm
M112-050251	5	25	4.90	40	80	8
M112-050301	5	30	4.90	55	95	8
M112-050401	5	40	4.90	50	95	8
M112-050411	5	41	-	-	80	8
M112-060401	6	40	-	-	80	8
M112-080451	8	45	-	-	110	8



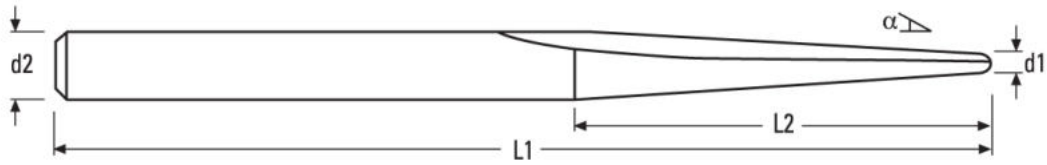
Sipariş Kodu Order Num. 2	Çap Ø d1 mm	L2 mm	d3 mm	L3 mm	L1 mm	d2 h6 mm
M113-050252	5	25	4.90	40	80	8
M113-050302	5	30	4.90	55	95	8
M113-050402	5	40	4.90	50	95	8
M113-050412	5	41	-	-	80	8
M113-060402	6	40	-	-	80	8
M113-080452	8	45	-	-	110	8

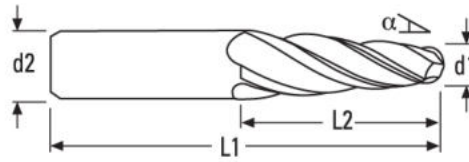


Sipariş Kodu Order Num.	D1 mm	L2 mm	L1 mm	D2 mm
MB- 06030	6	30	75	6
MB- 08040	8	40	100	8
MB- 10045	10	45	100	10
MB- 12045	12	45	100	12
MB- 14045	14	45	100	14
MB- 16060	16	60	110	16
MB- 18060	18	60	110	18
MB- 20060	20	60	110	20



Sipariş Kodu Order Num.	D1 mm	L2 mm	L1 mm	D2 mm
MBD- 06030	6	30	75	6
MBD- 08040	8	40	100	8
MBD- 10045	10	45	100	10
MBD- 12045	12	45	100	12
MBD- 14045	14	45	100	14
MBD- 16060	16	60	110	16
MBD- 18060	18	60	110	18
MBD- 20060	20	60	110	20

[illegible]

[illegible]