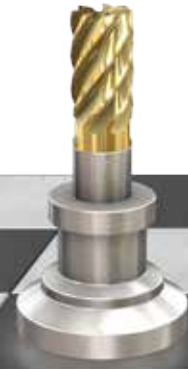


MULTI-MASTER

INDEXABLE HEADS

Indexable Solid Carbide Endmill Long Cutting Edge 1.5XD Flute Master



Multi-Master Heads
1.5xD Length
8-25 mm Diameters



12-25 mm Diameters

New Long Flute Multi-Master Heads Length Ratio 1.5xD



Ease of Use



Different Types
of Materials



Roughing
Semi-Finishing &
Finishing

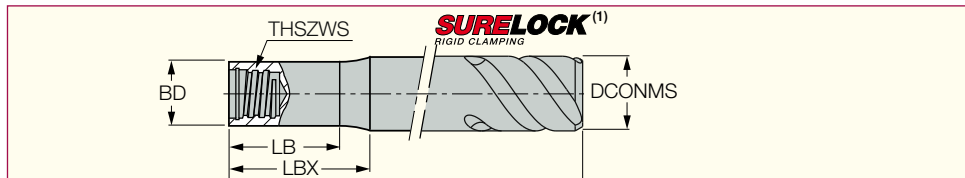


Cost Effective
Insert

LOGIQMILL
ISCAR CHESS LINES

MM S-A (stepped shanks)

Stepped Cylindrical Shanks for Interchangeable Milling Heads



Designation	THSZWS	DCONMS	BD	LB	LBX	OAL	Shank m. ⁽²⁾	Coolant	RPM max ⁽³⁾
MM S-A-L065/24-SL08T05C ⁽¹⁾	T05	8.00	7.60	24.00	25.6	65.00	C	N	60000
MM S-A-L075/30-SL10T06C ⁽¹⁾	T06	10.00	9.60	30.00	31.7	75.00	C	N	53940
MM S-A-L085/36-SL12T08C ⁽¹⁾	T08	12.00	11.60	36.00	37.7	85.00	C	N	60000
MM S-A-L100/48-SL16T10C ⁽¹⁾	T10	16.00	15.30	48.00	50.3	100.00	C	N	38040
MM S-A-L110/50-SL20T12C ⁽¹⁾	T12	20.00	18.30	50.00	53.3	110.00	C	N	60000
MM S-A-L125/63-SL25T15C ⁽¹⁾	T15	25.00	24.00	63.00	65.8	125.00	C	N	41700
MM S-A-L135/64-SL32T21C ⁽¹⁾	T21	32.00	30.00	64.00	67.5	135.00	C	N	12690

• Do not apply lubricant to the threaded connection.

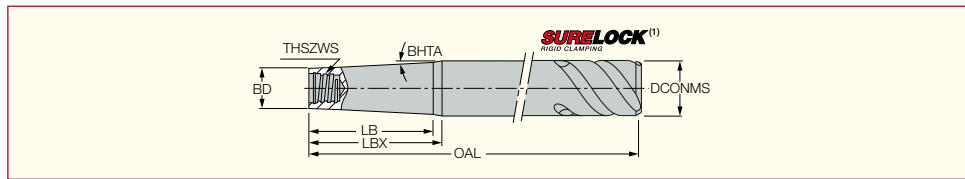
⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

⁽²⁾ S-steel, C-carbide, W-tungsten

⁽³⁾ The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

MM S-B (85° conical shanks)

85° Conical Shanks for Interchangeable Milling Heads



Designation	THSZWS	DCONMS	BD	BHTA	Shank ⁽²⁾	LB	OAL	Shank m.	LBX	RPM max ⁽³⁾
MM S-B-L085/32-SL16T05 ⁽¹⁾	T05	16.00	7.60	5.0	C	27.0	85.00	S	32.00	41280
MM S-B-L095/40-SL20T06 ⁽¹⁾	T06	20.00	9.60	5.0	C	34.0	95.00	S	40.00	41280
MM S-B-L100/48-SL20T08 ⁽¹⁾	T08	20.00	11.60	5.0	C	48.0	100.00	S	-	25590
MM S-B-L120/55-SL25T10 ⁽¹⁾	T10	25.00	15.30	5.0	C	55.4	120.00	S	-	29490
MM S-B-L150/78-SL32T12 ⁽¹⁾	T12	32.00	18.30	5.0	C	78.3	150.00	S	-	34890
MM S-B-L180/92-SL40T15 ⁽¹⁾	T15	40.00	23.90	5.0	C	92.0	180.00	S	-	14160
MM S-B-L150/57-SL40T21 ⁽¹⁾	T21	40.00	30.00	5.0	C	57.0	150.00	S	-	21840

• Shank material (Shank m.): S-steel, W-tungsten.

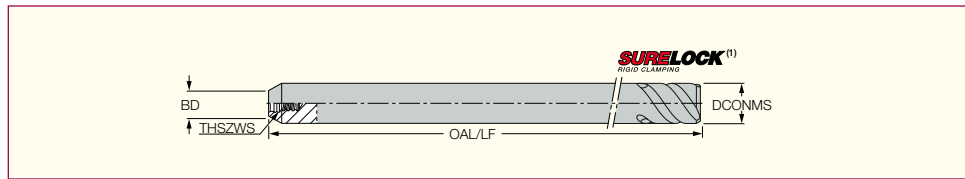
• Do not apply lubricant to the threaded connection.

⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

⁽³⁾ The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

MM S-A (straight shanks)

Shanks for Interchangeable Milling Heads



Designation	THSZWS	DCONMS	BD	OAL	Shank m. ⁽⁴⁾	RPM max ⁽⁵⁾
MM S-A-L070-SL20T05 ⁽¹⁾	T05	20.00	7.60	70.00	S	999
MM S-A-L080-SL25T06 ⁽¹⁾	T06	25.00	9.60	80.00	S	999
MM S-A-L080-SL25T08 ⁽¹⁾	T08	25.00	11.60	80.00	S	999
MM S-A-L080-SL32T10 ⁽¹⁾	T10	32.00	15.30	80.00	S	999
MM S-A-L080-SL32T12 ⁽¹⁾	T12	32.00	18.30	80.00	S	999
MM S-A-L100-SL40T15 ⁽¹⁾	T15	40.00	23.90	100.00	S	999
MM S-A-L100-SL40T21 ⁽¹⁾	T21	40.00	30.00	100.00	S	999

• Do not apply lubricant to the threaded connection.

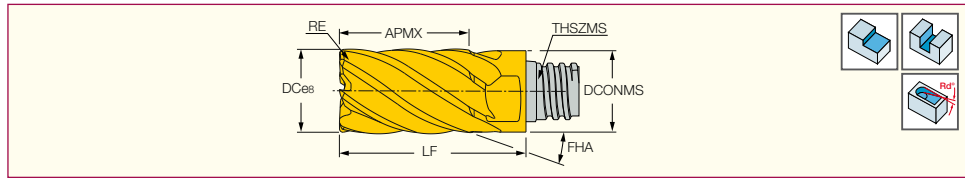
⁽¹⁾ With Safe-Lock® (by Haimer) pull-out prevention helical grooves

⁽²⁾ "B" suffix - cylindrical shank which may be shortened.

⁽⁴⁾ S-steel

⁽⁵⁾ The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

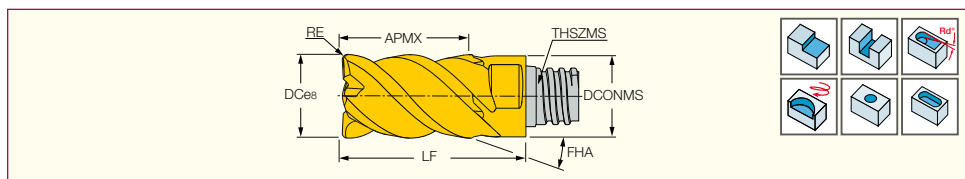
MM EC-CF-Z7/9-1.5xD
Interchangeable 7, 9 Flute Solid Carbide Endmill Heads 30° and 45° Helix with 1.5xD Flute Lengths



Designation	Dimensions									IC908	Recommended Machining Data
	DC	NOF ⁽¹⁾	APMX	RE	THSZMS	DCONMS	LF	FHA	RMPX ⁽²⁾		f _z (mm/t)
MM EC080H12R05CF-7T05	8.00	7	12.00	0.50	T05	7.70	18.00	36.0	3.0	●	0.03-0.10
MM EC100H15R05CF-7T06	10.00	7	15.00	0.50	T06	9.60	22.00	36.0	3.0	●	0.04-0.10
MM EC120H18R05CF-7T08	12.00	7	18.00	0.50	T08	11.70	27.00	36.0	3.0	●	0.04-0.10
MM EC160H24R08CF-9T10	16.00	9	24.00	0.80	T10	15.30	33.50	36.0	1.0	●	0.05-0.10
MM EC200H30R10CF-9T12	20.00	9	30.00	1.00	T12	18.45	41.00	36.0	1.0	●	0.05-0.10
MM EC250H37R10CF-9T15	25.00	9	37.00	1.00	T15	23.90	52.50	36.0	1.0	●	0.05-0.10

• Do not apply lubricant to the threaded connection. ⁽¹⁾ Number of flutes ⁽²⁾ Ramping angle maximum

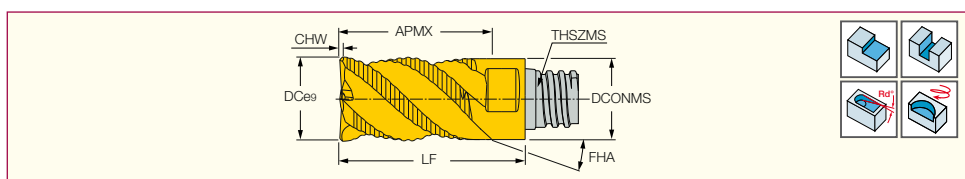
MM EC-CF-Z4-1.5xD
Interchangeable Solid Carbide Endmill Heads with 1.5xD Flute Lengths for Chatter Free Roughing and Finishing



Designation	Dimensions									IC908	Recommended Machining Data
	DC	NOF ⁽¹⁾	APMX	RE	THSZMS	DCONMS	LF	FHA	RMPX ⁽²⁾		f _z (mm/t)
MM EC080H12R05CF-4T05	8.00	4	12.00	0.50	T05	7.70	18.00	46.5	●	0.03-0.09	
MM EC100H15R05CF-4T06	10.00	4	15.00	0.50	T06	9.60	22.00	46.5	●	0.03-0.10	
MM EC120H18R05CF-4T08	12.00	4	18.00	0.50	T08	11.70	27.00	46.5	●	0.04-0.11	
MM EC160H24R05CF-4T10	16.00	4	24.00	0.50	T10	15.30	33.50	46.5	●	0.05-0.13	
MM EC200H30R05CF-4T12	20.00	4	30.00	0.50	T12	18.45	41.00	46.5	●	0.05-0.17	
MM EC250H37R05CF-4T15	25.00	4	37.00	0.50	T15	23.90	52.50	46.5	●	0.06-0.17	

• Do not apply lubricant to the threaded connection. ⁽¹⁾ Number of flutes

MM ERS-1.5xD
Interchangeable Solid Carbide Rough Milling Heads with 1.5xD Flute Lengths for High Metal Removal Rates



Designation	Dimensions									IC908	Recommended Machining Data
	DC	NOF ⁽¹⁾	APMX	CHW	THSZMS	DCONMS	LF	FHA	RMPX ⁽²⁾		f _z (mm/t)
MM ERS080B12-4T05	8.00	4	12.00	0.25	T05	7.70	18.00	46.0	90.0	●	0.03-0.08
MM ERS100B15-4T06	10.00	4	15.00	0.30	T06	9.60	22.00	46.0	90.0	●	0.03-0.09
MM ERS120B18-4T08	12.00	4	18.00	0.35	T08	11.70	27.00	46.0	90.0	●	0.04-0.10
MM ERS160B24-5T10	16.00	5	24.00	0.40	T10	15.30	33.50	40.0	7.0	●	0.04-0.10
MM ERS200B30-6T12	20.00	6	30.00	0.40	T12	18.45	41.00	47.0	3.0	●	0.05-0.11
MM ERS250B37-6T15	25.00	6	37.00	0.50	T15	23.90	52.50	47.0	3.0	●	0.05-0.11

• Do not apply lubricant to the threaded connection. ⁽¹⁾ Number of flutes ⁽²⁾ Ramping angle maximum