

MULTI-MASTER

**Testine Intercambiabili Coniche
per la Riduzione delle Vibrazioni
in Finitura**

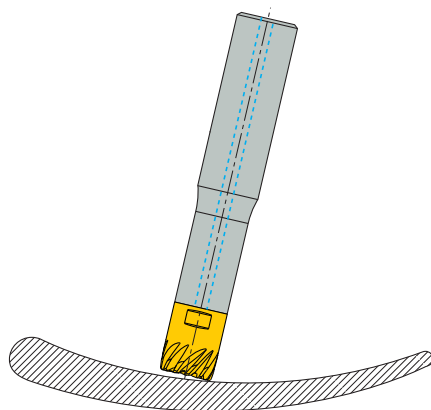
MULTI-MASTER

Caratteristiche

ISCAR introduce due nuove testine MULTI-MASTER coniche con eliche a 20/30°, passo variabile e foro centrale per la refrigerazione interna, per lavorazioni di finitura.

Le nuove testine per la lavorazione di titanio, inconel, superleghe ed acciai inox hanno una parte conica a 82° lunga 3.5 mm, con raggio di punta 1 mm ed elevato numero di taglienti. Queste caratteristiche permettono di effettuare lavorazioni con avanzamenti tavola molto elevati, per una lavorazione ottimale delle palette turbina ed altri componenti in acciaio inox.

Per la lavorazione delle lame curve si consiglia di inclinare la fresa, utilizzare il raggio più grande possibile e piccole profondità di taglio.



Sono disponibili testine con diametro 11 e 15 mm, con attacco filettato **MULTI-MASTER** T08 e T10. Oltre alle testine sono stati introdotti 4 nuovi steli con attacco filettato T10 e fori per il passaggio interno del refrigerante.

Per qualsiasi ulteriore informazione potete contattare l'Ufficio Marketing o consultare la sezione **ToolShop** del sito www.iscaritalia.it, dove sono sempre disponibili in tempo reale tutte le informazioni relative ai prodotti Iscar (quote, dati di taglio, prezzi, disponibilità, ...).

Cordiali saluti.

ISCAR ITALIA Srl

Direttore Commerciale

Giuseppe Negri

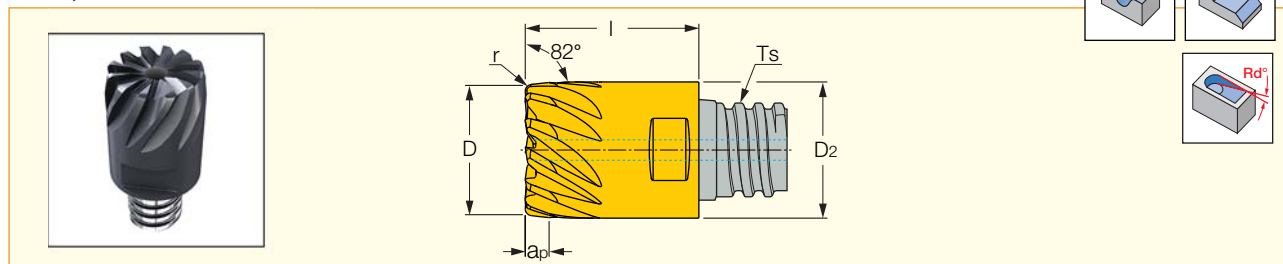
Responsabile Marketing

Davide Pedrini

MULTI-MASTER

MM ET

Testine coniche con eliche a 20/30°, passo variabile e fori per la refrigerazione interna
Per operazioni di finitura senza vibrazioni



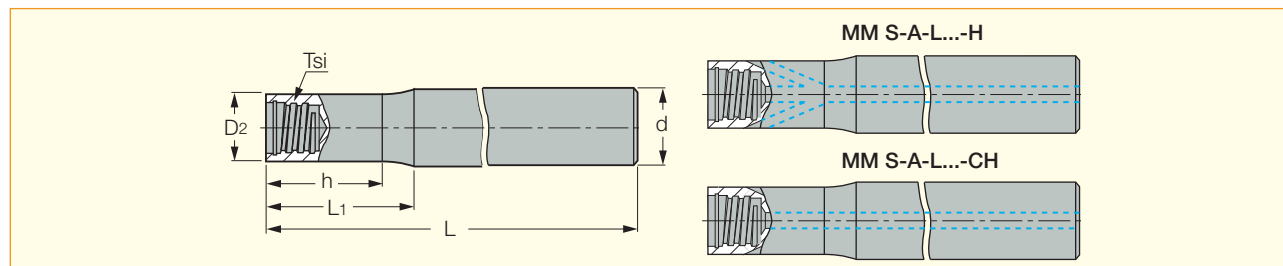
Descrizione	Dimensioni							Parametri di taglio consigliati
	D	r	Eliche	a_p	T_s	l	R_d°	f_z (mm/dente)
MM ET11/8H4R10CF-8T08H	11.00	1.00	8	3.50	T08	16.50	3.0	0.04-0.10
MM ET15/8H4R10CF-12T10H	15.00	1.00	12	3.50	T10	20.50	3.0	0.05-0.11

- Non lubrificare la connessione filettata.

MULTI-MASTER

MM S-A (Stelo minorato)

Stelo cilindrico minorato per testine intercambiabili



Descrizione	Tsi	d	D ₂	h	L ₁	L	Stelo ⁽¹⁾	Refrig	GIRI _{max} ⁽²⁾	Kg
MM S-A-L050-C08-T04	T04	8.00	5.80	9.90	14.0	50.00	S	NO	60000	0.02
MM S-A-L060-C08-T05	T05	8.00	7.60	12.50	15.0	60.00	S	NO	60000	0.02
MM S-A-L070-C08-T05-C	T05	8.00	7.60	18.60	20.0	70.00	C	NO	60000	0.04
MM S-A-L070-C08-T05-W	T05	8.00	7.60	18.90	20.0	70.00	W	NO	60000	0.06
MM S-A-L090-C08-T05-C	T05	8.00	7.60	38.60	40.0	90.00	C	NO	50160	0.06
MM S-A-L090-C08-T05-W	T05	8.00	7.60	38.90	40.0	90.00	W	NO	36090	0.07
MM S-A-L110-C08-T05-C	T05	8.00	7.60	57.90	60.0	110.00	C	NO	30600	0.07
MM S-A-L110-C08-T05-W	T05	8.00	7.60	58.90	60.0	110.00	W	NO	21060	0.09
MM S-A-L070-C10-T06-C	T06	10.00	9.60	18.50	20.0	70.00	C	NO	54900	0.01
MM S-A-L070-C10-T06-W-H	T06	10.00	9.60	18.90	20.0	70.00	W	SI	60000	0.08
MM S-A-L075-C10-T06	T06	10.00	9.60	17.40	20.0	75.00	S	NO	60000	0.05
MM S-A-L075-C10-T06-H	T06	10.00	9.60	18.80	20.0	75.00	S	SI	53940	0.04
MM S-A-L090-C10-T06-C	T06	10.00	9.60	38.50	40.0	90.00	C	NO	55170	0.06
MM S-A-L090-C10-T06-W	T06	10.00	9.60	17.20	20.0	90.00	W	NO	41670	0.12
MM S-A-L090-C10-T06-W-H	T06	10.00	9.60	39.00	40.0	90.00	W	SI	40860	0.10
MM S-A-L110-C10-T06-C	T06	10.00	9.60	57.90	60.0	110.00	C	NO	34530	0.11
MM S-A-L110-C10-T06-W-H	T06	10.00	9.60	59.00	60.0	110.00	W	SI	24840	0.12
MM S-A-L150-C10-T06-C	T06	10.00	9.60	98.50	100.0	150.00	C	NO	16620	0.15
MM S-A-L070-C12-T08-C	T08	12.00	11.60	17.90	20.0	70.00	C	NO	60000	0.10
MM S-A-L070-C12-T08-W-H	T08	12.00	11.60	18.70	20.0	70.00	W	SI	60000	0.11
MM S-A-L090/14-C12-T08-CH	T08	12.00	11.60	13.00	14.0	90.00	S	SI	-	0.12
MM S-A-L090-C12-T08	T08	12.00	11.60	13.30	16.0	90.00	S	NO	43000	0.10
MM S-A-L070/020C12T08C-CH	T08	12.00	11.50	18.00	20.0	90.00	C	SI	-	0.08
MM S-A-L090-C12-T08-C	T08	12.00	11.60	39.00	40.0	90.00	C	NO	43050	0.12
MM S-A-L090-C12-T08-H	T08	12.00	11.60	38.70	40.0	90.00	S	SI	41040	0.08
MM S-A-L090-C12-T08-W-H	T08	12.00	11.60	38.70	40.0	90.00	W	SI	49800	0.15
MM S-A-L090/040C12T08C-CH	T08	12.00	11.50	38.00	40.0	90.00	C	SI	-	0.11
MM S-A-L090/42-C12-T08-CH	T08	12.00	11.60	41.00	42.0	90.00	S	SI	41010	0.07
MM S-A-L110-C12-T08-W	T08	12.00	11.60	17.00	20.0	110.00	W	NO	31350	0.09
MM S-A-L110-C12-T08-C	T08	12.00	11.60	57.00	60.0	110.00	C	NO	41040	0.16
MM S-A-L110-C12-T08-W-H	T08	12.00	11.60	58.70	60.0	110.00	W	SI	30210	0.18
MM S-A-L110/060C12T08C-CH	T08	12.00	11.50	58.00	60.0	110.00	C	SI	-	0.12
MM S-A-L130-C12-T08-C	T08	12.00	11.60	77.80	80.0	130.00	C	NO	27960	0.19
MM S-A-L130-C12-T08-W-H	T08	12.00	11.60	78.70	80.0	130.00	W	SI	20100	0.21
MM S-A-L130/080C12T08C-CH	T08	12.00	11.50	78.00	80.0	130.00	C	SI	-	0.17
MM S-A-L070-C16-T10-W-H	T10	16.00	15.30	18.20	20.0	70.00	W	SI	60000	0.21
NEW MM S-A-L090/040C16T10C-CH	T10	16.00	15.30	38.00	40.0	90.00	C	SI	-	0.00
MM S-A-L090-C16-T10-C	T10	16.00	15.30	38.00	40.0	90.00	C	NO	60000	0.21
MM S-A-L090-C16-T10-W-H	T10	16.00	15.30	38.20	40.0	90.00	W	SI	57510	0.27
NEW MM S-A-L100/20-C16-T10-CH	T10	16.00	15.30	18.00	20.0	100.00	S	SI	-	0.00
MM S-A-L100-C16-T10	T10	16.00	15.30	16.30	20.0	100.00	S	NO	39000	0.16
MM S-A-L100-C16-T10-H	T10	16.00	15.30	48.00	50.0	100.00	S	SI	37140	0.13
MM S-A-L100/42-C16-T10-CH	T10	16.00	15.30	40.20	42.0	100.00	S	SI	38040	0.14
NEW MM S-A-L110/060C16T10C-CH	T10	16.00	15.30	58.00	60.0	110.00	C	SI	-	0.00
MM S-A-L110-C16-T10-C	T10	16.00	15.30	58.00	60.0	110.00	C	NO	47010	0.27
MM S-A-L110-C16-T10-W-H	T10	16.00	15.30	58.20	60.0	110.00	W	SI	36030	0.33
NEW MM S-A-L130/080C16T10C-CH	T10	16.00	15.30	78.00	80.0	130.00	C	SI	-	0.00

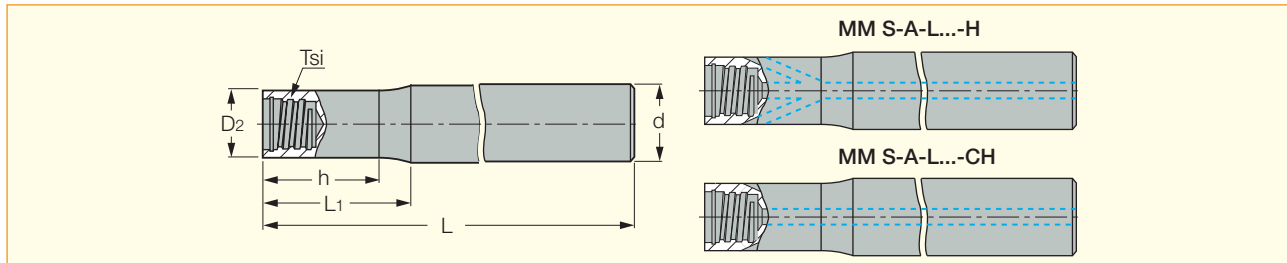
• Non lubrificare la connessione filettata.

⁽¹⁾ S-Acciaio, C-Metallo duro, W-Tungsteno ⁽²⁾ Il numero di giri massimo deve essere calcolato. Dividere il valore GIRI max. per il numero di eliche della testina utilizzata.

MULTI-MASTER

MM S-A (Stelo minorato)

Stelo cilindrico minorato per testine intercambiabili



Descrizione	Tsi	d	D ₂	h	L ₁	L	Stelo ⁽¹⁾	Refrig	GIRI max ⁽²⁾	Kg
MM S-A-L130-C16-T10-C	T10	16.00	15.30	77.40	80.0	130.00	C	No	33510	0.32
MM S-A-L130-C16-T10-W-H	T10	16.00	15.30	78.20	80.0	130.00	W	Si	24450	0.39
MM S-A-L150-C16-T10-C	T10	16.00	15.30	97.40	100.0	150.00	C	No	24660	0.37
MM S-A-L150-C16-T10-W-H	T10	16.00	15.30	98.20	100.0	150.00	W	Si	17610	0.45
MM S-A-L090-C20-T12-C	T12	20.00	18.30	37.00	40.0	90.00	C	No	60000	0.32
MM S-A-L090-C20-T12-W-H	T12	20.00	18.30	36.90	40.0	90.00	W	Si	60000	0.41
MM S-A-L120-C20-T12	T12	20.00	18.30	20.30	25.0	120.00	S	No	36000	0.27
MM S-A-L120-C20-T12-H	T12	20.00	18.30	66.70	70.0	120.00	S	Si	32160	0.25
MM S-A-L130-C20-T12-C	T12	20.00	18.30	77.20	80.0	130.00	C	No	42360	0.47
MM S-A-L130-C20-T12-W-H	T12	20.00	18.30	76.90	80.0	130.00	W	Si	31650	0.59
MM S-A-L170-C20-T12-C	T12	20.00	18.30	97.20	100.0	170.00	C	No	25170	0.63
MM S-A-L200-C20-T12-C	T12	20.00	18.30	116.50	120.0	200.00	C	No	17790	0.76
MM S-A-L200-C20-T12-W-H	T12	20.00	18.30	116.90	120.0	200.00	W	Si	12540	0.92
MM S-A-L120-C25-T15-C	T15	25.00	23.90	57.50	60.0	120.00	C	No	49400	0.64
MM S-A-L120-C25-T15-W-H	T15	25.00	23.90	58.00	60.0	120.00	W	Si	41700	0.89
MM S-A-L135-C25-T15	T15	25.00	23.90	33.00	35.0	135.00	S	No	28290	0.47
MM S-A-L135/35-C25-T15-CH	T15	25.00	23.90	33.00	35.0	135.00	S	Si	28230	0.42
MM S-A-L170-C25-T15-C	T15	25.00	23.90	98.00	100.0	170.00	C	No	27360	0.96
MM S-A-L175-C25-T15	T15	25.00	23.90	62.70	65.0	175.00	S	No	16890	0.10
MM S-A-L250-C25-T15-C	T15	25.00	23.90	148.00	150.0	250.00	C	No	12690	1.45

• Non lubrificare la connessione filettata.

⁽¹⁾ S-Acciai, C-Metallo duro, W-Tungsteno ⁽²⁾ Il numero di giri massimo deve essere calcolato. Dividere il valore GIRI max. per il numero di eliche della testina utilizzata.

MULTI-MASTER**LISTINO PREZZI**

LP27-06/2015

Codice	Descrizione	Grado	SC	GrS	€uro	Codice	Descrizione	Grado	SC	GrS	€uro
5623449	MM ET11/8H4R10CF-8T08H		▲	EA	112,00	3104436	MM S-A-L110-C10-T06-W-H		●	EB	303,00
5623450	MM ET15/8H4R10CF-12T10H		▲	EA	192,00	3102992	MM S-A-L110-C12-T08-C		●	EB	255,00
3105473	MM S-A-L050-C08-T04		●	EB	78,30	3102603	MM S-A-L110-C12-T08-W		●	EB	384,00
3103051	MM S-A-L060-C08-T05		●	EB	78,30	3104813	MM S-A-L110-C12-T08-W-H		●	EB	375,00
3107055	MM S-A-L070/020C12T08C-CH		▲	EB	255,00	3103512	MM S-A-L110-C16-T10-C		●	EB	313,00
3103499	MM S-A-L070-C08-T05-C		●	EB	188,00	3104443	MM S-A-L110-C16-T10-W-H		●	EB	329,00
3104398	MM S-A-L070-C08-T05-W		●	EB	221,00	3103742	MM S-A-L120-C20-T12		●	EB	117,00
3102987	MM S-A-L070-C10-T06-C		●	EB	193,00	3105657	MM S-A-L120-C20-T12-H		●	EB	142,00
3104817	MM S-A-L070-C10-T06-W-H		●	EB	239,00	3105408	MM S-A-L120-C25-T15-C		●	EB	562,00
3102990	MM S-A-L070-C12-T08-C		●	EB	223,00	3107058	MM S-A-L130/080C12T08C-CH		□	EB	302,00
3104437	MM S-A-L070-C12-T08-W-H		●	EB	263,00	3103000	MM S-A-L130-C12-T08-C		●	EB	265,00
3104441	MM S-A-L070-C16-T10-W-H		●	EB	294,00	3104439	MM S-A-L130-C12-T08-W-H		●	EB	390,00
3102473	MM S-A-L075-C10-T06		●	EB	81,40	3103513	MM S-A-L130-C16-T10-C		●	EB	346,00
3105652	MM S-A-L075-C10-T06-H		●	EB	96,90	3104444	MM S-A-L130-C16-T10-W-H		●	EB	378,00
3107056	MM S-A-L090/040C12T08C-CH		●	EB	255,00	3103846	MM S-A-L130-C20-T12-C		●	EB	450,00
3107127	MM S-A-L090/040C16T10C-CH		▲	EB	320,00	3104447	MM S-A-L130-C20-T12-W-H		●	EB	544,00
3107101	MM S-A-L090/14-C12-T08-CH		●	EB	96,90	3106911	MM S-A-L135/35-C25-T15-CH		●	EB	156,00
3106137	MM S-A-L090/42-C12-T08-CH		●	EB	96,90	3104924	MM S-A-L135-C25-T15		●	EB	138,00
3103500	MM S-A-L090-C08-T05-C		●	EB	188,00	3103673	MM S-A-L150-C10-T06-C		●	EB	258,00
3104435	MM S-A-L090-C08-T05-W		●	EB	228,00	3103514	MM S-A-L150-C16-T10-C		●	EB	381,00
3102988	MM S-A-L090-C10-T06-C		●	EB	193,00	3104445	MM S-A-L150-C16-T10-W-H		●	EB	464,00
3102601	MM S-A-L090-C10-T06-W		●	EB	213,00	3106360	MM S-A-L170-C20-T12-C		●	EB	564,00
3104816	MM S-A-L090-C10-T06-W-H		●	EB	255,00	3105409	MM S-A-L170-C25-T15-C		●	EB	765,00
3102510	MM S-A-L090-C12-T08		●	EB	89,60	3105418	MM S-A-L175-C25-T15		●	EB	156,00
3102991	MM S-A-L090-C12-T08-C		●	EB	223,00	3103847	MM S-A-L200-C20-T12-C		●	EB	664,00
3105654	MM S-A-L090-C12-T08-H		●	EB	108,00	3104448	MM S-A-L200-C20-T12-W-H		●	EB	695,00
3104438	MM S-A-L090-C12-T08-W-H		●	EB	293,00	3105410	MM S-A-L250-C25-T15-C		●	EB	1110,00
3103511	MM S-A-L090-C16-T10-C		●	EB	282,00						
3104442	MM S-A-L090-C16-T10-W-H		●	EB	313,00						
3103845	MM S-A-L090-C20-T12-C		●	EB	364,00						
3104446	MM S-A-L090-C20-T12-W-H		●	EB	434,00						
3107102	MM S-A-L100/20-C16-T10-CH		▲	EB	108,00						
3106138	MM S-A-L100/42-C16-T10-CH		●	EB	108,00						
3102891	MM S-A-L100-C16-T10		●	EB	100,00						
3105656	MM S-A-L100-C16-T10-H		●	EB	119,00						
3107057	MM S-A-L110/060C12T08C-CH		▲	EB	290,00						
3107128	MM S-A-L110/060C16T10C-CH		▲	EB	357,00						
3103501	MM S-A-L110-C08-T05-C		●	EB	213,00						
3104399	MM S-A-L110-C08-T05-W		●	EB	266,00						
3102989	MM S-A-L110-C10-T06-C		●	EB	223,00						

Stock: ● = Standard

▲ = Nuovo

□ = Semistandard

△ = Futura introduzione