

FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

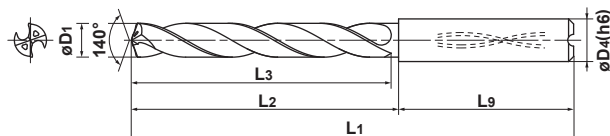


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



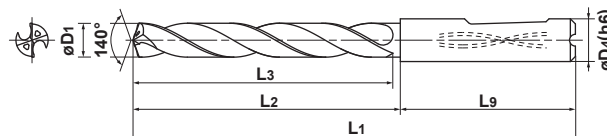
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3—5)

MMS---3XDB/4XDB (l/d 3—5)

● Tipo 2 codolo Whistle Notch



MMS---S/L-DIN (l/d 3—5)

Diam. Punta D1 (mm)	Disponibilità Profondità foro (l/d)	DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
3.0	3	●	MMS0300S-DIN	62	26	20	36	6	2
	3	●	0300S-DIN-C	62	26	20	36	6	1
	5	●	0300L-DIN	66	30	28	36	6	2
	5	●	0300L-DIN-C	66	30	28	36	6	1
	3	★	0300X3DB	71	24	22	47	6	1
	5	★	0300X5DB	79	32	29	47	6	1
3.05	3	□	0305S-DIN	62	26	20	36	6	2
	3	●	0305S-DIN-C	62	26	20	36	6	1
	5	□	0305L-DIN	66	30	28	36	6	2
	5	●	0305L-DIN-C	66	30	28	36	6	1
3.1	3	□	0310S-DIN	62	26	20	36	6	2
	3	●	0310S-DIN-C	62	26	20	36	6	1
	5	□	0310L-DIN	66	30	28	36	6	2
	5	●	0310L-DIN-C	66	30	28	36	6	1
	3	★	0310X3DB	71	24	22	47	6	1
	5	★	0310X5DB	79	32	29	47	6	1
3.2	3	□	0320S-DIN	62	26	20	36	6	2
	3	●	0320S-DIN-C	62	26	20	36	6	1
	5	□	0320L-DIN	66	30	28	36	6	2
	5	●	0320L-DIN-C	66	30	28	36	6	1
	3	★	0320X3DB	71	24	22	47	6	1
	5	★	0320X5DB	79	32	29	47	6	1
3.3	3	□	0330S-DIN	62	26	20	36	6	2
	3	●	0330S-DIN-C	62	26	20	36	6	1
	5	□	0330L-DIN	66	30	28	36	6	2
	5	●	0330L-DIN-C	66	30	28	36	6	1
	3	★	0330X3DB	71	24	22	47	6	1
	5	★	0330X5DB	79	32	29	47	6	1
3.4	3	□	0340S-DIN	62	26	20	36	6	2
	3	●	0340S-DIN-C	62	26	20	36	6	1
	5	□	0340L-DIN	66	30	28	36	6	2
	5	●	0340L-DIN-C	66	30	28	36	6	1
	3	★	0340X3DB	71	24	22	47	6	1
	5	★	0340X5DB	79	32	29	47	6	1
3.5	3	□	0350S-DIN	62	26	20	36	6	2
	3	●	0350S-DIN-C	62	26	20	36	6	1
	5	□	0350L-DIN	66	30	28	36	6	2

Diam. Punta D1 (mm)	Disponibilità Profondità foro (l/d)	DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
3.5	5	●	MMS0350L-DIN-C	66	30	28	36	6	1
	3	★	0350X3DB	71	24	22	47	6	1
	5	★	0350X5DB	79	32	29	47	6	1
3.6	3	□	0360S-DIN	62	26	20	36	6	2
	3	●	0360S-DIN-C	62	26	20	36	6	1
	5	□	0360L-DIN	66	30	28	36	6	2
	5	●	0360L-DIN-C	66	30	28	36	6	1
	3	★	0360X3DB	71	24	23	47	6	1
3.7	5	★	0360X5DB	79	32	31	47	6	1
	3	□	0370S-DIN	62	26	20	36	6	2
	3	●	0370S-DIN-C	62	26	20	36	6	1
	5	□	0370L-DIN	66	30	28	36	6	2
3.8	5	●	0370L-DIN-C	66	30	28	36	6	1
	3	★	0370X3DB	71	24	23	47	6	1
	5	★	0370X5DB	79	32	31	47	6	1
	3	□	0380S-DIN	66	30	24	36	6	2
	3	●	0380S-DIN-C	66	30	24	36	6	1
3.9	5	□	0380L-DIN	74	38	36	36	6	2
	5	●	0380L-DIN-C	74	38	36	36	6	1
	3	★	0380X3DB	71	24	23	47	6	1
	5	★	0380X5DB	79	32	31	47	6	1
	3	□	0390S-DIN	66	30	24	36	6	2
4.0	3	●	0390S-DIN-C	66	30	24	36	6	1
	5	□	0390L-DIN	74	38	36	36	6	2
	5	●	0390L-DIN-C	74	38	36	36	6	1
	3	★	0390X3DB	71	24	23	47	6	1
	5	★	0390X5DB	79	32	31	47	6	1
4.05	3	●	0400S-DIN	66	30	24	36	6	2
	3	●	0400S-DIN-C	66	30	24	36	6	1
	5	●	0400L-DIN	74	38	36	36	6	2
	5	●	0400L-DIN-C	74	38	36	36	6	1
	3	★	0400X3DB	71	24	23	47	6	1
4.05	5	★	0400X5DB	79	32	31	47	6	1
	3	□	0405S-DIN	66	30	24	36	6	2
	3	●	0405S-DIN-C	66	30	24	36	6	1
4.05	5	□	0405L-DIN	74	38	36	36	6	2
	5	●	0405L-DIN-C	74	38	36	36	6	1

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
4.1	3	□	MMS0410S-DIN	66	30	24	36	6	2
	3	●	0410S-DIN-C	66	30	24	36	6	1
	5	□	0410L-DIN	74	38	36	36	6	2
	5	●	0410L-DIN-C	74	38	36	36	6	1
	3	★	0410X3DB	74	27	25	47	6	1
	5	★	0410X5DB	83	36	34	47	6	1
4.2	3	●	0420S-DIN	66	30	24	36	6	2
	3	●	0420S-DIN-C	66	30	24	36	6	1
	5	●	0420L-DIN	74	38	36	36	6	2
	5	●	0420L-DIN-C	74	38	36	36	6	1
	3	★	0420X3DB	74	27	25	47	6	1
	5	★	0420X5DB	83	36	34	47	6	1
4.3	3	□	0430S-DIN	66	30	24	36	6	2
	3	●	0430S-DIN-C	66	30	24	36	6	1
	5	□	0430L-DIN	74	38	36	36	6	2
	5	●	0430L-DIN-C	74	38	36	36	6	1
	3	★	0430X3DB	74	27	25	47	6	1
	5	★	0430X5DB	83	36	34	47	6	1
4.4	3	□	0440S-DIN	66	30	24	36	6	2
	3	□	0440S-DIN-C	66	30	24	36	6	1
	5	□	0440L-DIN	74	38	36	36	6	2
	5	□	0440L-DIN-C	74	38	36	36	6	1
	3	★	0440X3DB	74	27	25	47	6	1
	5	★	0440X5DB	83	36	34	47	6	1
4.5	3	□	0450S-DIN	66	30	24	36	6	2
	3	●	0450S-DIN-C	66	30	24	36	6	1
	5	□	0450L-DIN	74	38	36	36	6	2
	5	●	0450L-DIN-C	74	38	36	36	6	1
	3	★	0450X3DB	74	27	25	47	6	1
	5	★	0450X5DB	83	36	34	47	6	1
4.6	3	□	0460S-DIN	66	30	24	36	6	2
	3	●	0460S-DIN-C	66	30	24	36	6	1
	5	□	0460L-DIN	74	38	36	36	6	2
	5	●	0460L-DIN-C	74	38	36	36	6	1
	3	★	0460X3DB	76	29	26	47	6	1
	5	★	0460X5DB	86	39	36	47	6	1
4.65	3	□	0465S-DIN	66	30	24	36	6	2
	3	●	0465S-DIN-C	66	30	24	36	6	1
	5	□	0465L-DIN	74	38	36	36	6	2
	5	●	0465L-DIN-C	74	38	36	36	6	1
4.7	3	□	0470S-DIN	66	30	24	36	6	2
	3	□	0470S-DIN-C	66	30	24	36	6	1
	5	□	0470L-DIN	74	38	36	36	6	2
	5	□	0470L-DIN-C	74	38	36	36	6	1
	3	★	0470X3DB	76	29	26	47	6	1
	5	★	0470X5DB	86	39	36	47	6	1
4.8	3	□	0480S-DIN	66	30	28	36	6	2
	3	●	0480S-DIN-C	66	30	28	36	6	1
	5	□	0480L-DIN	82	46	44	36	6	2
	5	●	0480L-DIN-C	82	46	44	36	6	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
4.8	3	★	MMS0480X3DB	76	29	26	47	6	1
	5	★	0480X5DB	86	39	36	47	6	1
4.9	3	□	0490S-DIN	66	30	28	36	6	2
	3	□	0490S-DIN-C	66	30	28	36	6	1
	5	□	0490L-DIN	82	46	44	36	6	2
	5	□	0490L-DIN-C	82	46	44	36	6	1
	3	★	0490X3DB	76	29	26	47	6	1
	5	★	0490X5DB	86	39	36	47	6	1
5.0	3	●	0500S-DIN	66	30	28	36	6	2
	3	●	0500S-DIN-C	66	30	28	36	6	1
	5	●	0500L-DIN	82	46	44	36	6	2
	5	●	0500L-DIN-C	82	46	44	36	6	1
	3	★	0500X3DB	76	29	26	47	6	1
	5	★	0500X5DB	86	39	36	47	6	1
5.05	3	□	0505S-DIN	66	30	28	36	6	2
	3	●	0505S-DIN-C	66	30	28	36	6	1
	5	□	0505L-DIN	82	46	44	36	6	2
	5	●	0505L-DIN-C	82	46	44	36	6	1
5.1	3	□	0510S-DIN	66	30	28	36	6	2
	3	●	0510S-DIN-C	66	30	28	36	6	1
	5	□	0510L-DIN	82	46	44	36	6	2
	5	●	0510L-DIN-C	82	46	44	36	6	1
	3	★	0510X3DB	82	31	29	51	6	1
	5	★	0510X5DB	90	43	40	47	6	1
5.2	3	□	0520S-DIN	66	30	28	36	6	2
	3	●	0520S-DIN-C	66	30	28	36	6	1
	5	□	0520L-DIN	82	46	44	36	6	2
	5	●	0520L-DIN-C	82	46	44	36	6	1
	3	★	0520X3DB	82	31	29	51	6	1
	5	★	0520X5DB	90	43	40	47	6	1
5.3	3	□	0530S-DIN	66	30	28	36	6	2
	3	□	0530S-DIN-C	66	30	28	36	6	1
	5	□	0530L-DIN	82	46	44	36	6	2
	5	□	0530L-DIN-C	82	46	44	36	6	1
	3	★	0530X3DB	82	31	29	51	6	1
	5	★	0530X5DB	90	43	40	47	6	1
5.4	3	□	0540S-DIN	66	30	28	36	6	2
	3	□	0540S-DIN-C	66	30	28	36	6	1
	5	□	0540L-DIN	82	46	44	36	6	2
	5	□	0540L-DIN-C	82	46	44	36	6	1
	3	★	0540X3DB	82	31	29	51	6	1
	5	★	0540X5DB	90	43	40	47	6	1
5.5	3	□	0550S-DIN	66	30	28	36	6	2
	3	●	0550S-DIN-C	66	30	28	36	6	1
	5	□	0550L-DIN	82	46	44	36	6	2
	5	●	0550L-DIN-C	82	46	44	36	6	1
	3	★	0550X3DB	82	31	29	51	6	1
	5	★	0550X5DB	90	43	40	47	6	1



FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

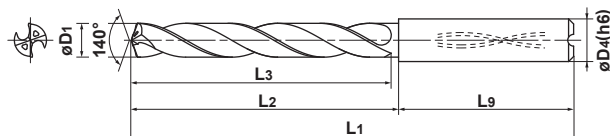


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



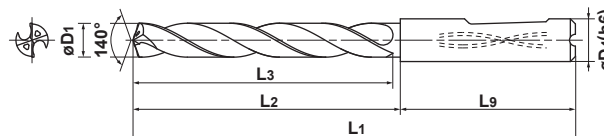
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3—5)

MMS---3XDB/4XDB (l/d 3—5)

● Tipo 2 codolo Whistle Notch



MMS---S/L-DIN (l/d 3—5)

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
5.55	3	□	MMS0555S-DIN	66	30	28	36	6	2
	3	●	0555S-DIN-C	66	30	28	36	6	1
	5	□	0555L-DIN	82	46	44	36	6	2
	5	●	0555L-DIN-C	82	46	44	36	6	1
5.6	3	□	0560S-DIN	66	30	28	36	6	2
	3	●	0560S-DIN-C	66	30	28	36	6	1
	5	□	0560L-DIN	82	46	44	36	6	2
	5	●	0560L-DIN-C	82	46	44	36	6	1
	3	★	0560X3DB	82	31	31	51	6	1
	5	★	0560X5DB	90	43	43	47	6	1
5.7	3	□	0570S-DIN	66	30	28	36	6	2
	3	●	0570S-DIN-C	66	30	28	36	6	1
	5	□	0570L-DIN	82	46	44	36	6	2
	5	●	0570L-DIN-C	82	46	44	36	6	1
	3	★	0570X3DB	82	31	31	51	6	1
	5	★	0570X5DB	90	43	43	47	6	1
5.8	3	□	0580S-DIN	66	30	28	36	6	2
	3	●	0580S-DIN-C	66	30	28	36	6	1
	5	□	0580L-DIN	82	46	44	36	6	2
	5	●	0580L-DIN-C	82	46	44	36	6	1
	3	★	0580X3DB	82	31	31	51	6	1
	5	★	0580X5DB	90	43	43	47	6	1
5.9	3	□	0590S-DIN	66	30	28	36	6	2
	3	□	0590S-DIN-C	66	30	28	36	6	1
	5	□	0590L-DIN	82	46	44	36	6	2
	5	□	0590L-DIN-C	82	46	44	36	6	1
	3	★	0590X3DB	82	31	31	51	6	1
	5	★	0590X5DB	90	43	43	47	6	1
6.0	3	●	0600S-DIN	66	30	28	36	6	2
	3	●	0600S-DIN-C	66	30	28	36	6	1
	5	●	0600L-DIN	82	46	44	36	6	2
	5	●	0600L-DIN-C	82	46	44	36	6	1
	3	★	0600X3DB	82	31	31	51	6	1
	5	★	0600X5DB	90	43	43	47	6	1
6.05	3	□	0605S-DIN	79	43	34	36	8	2
	3	●	0605S-DIN-C	79	43	34	36	8	1
	5	□	0605L-DIN	91	55	53	36	8	2
	5	●	0605L-DIN-C	91	55	53	36	8	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
6.1	3	□	MMS0610S-DIN	79	43	34	36	8	2
	3	●	0610S-DIN-C	79	43	34	36	8	1
	5	□	0610L-DIN	91	55	53	36	8	2
	5	●	0610L-DIN-C	91	55	53	36	8	1
	3	★	0610X3DB	87	36	34	51	8	1
6.2	5	★	0610X5DB	96	49	47	47	8	1
	3	□	0620S-DIN	79	43	34	36	8	2
	3	●	0620S-DIN-C	79	43	34	36	8	1
	5	□	0620L-DIN	91	55	53	36	8	2
	5	●	0620L-DIN-C	91	55	53	36	8	1
6.3	3	★	0620X3DB	87	36	34	51	8	1
	5	★	0620X5DB	96	49	47	47	8	1
	3	□	0630S-DIN	79	43	34	36	8	2
	3	□	0630S-DIN-C	79	43	34	36	8	1
	5	□	0630L-DIN	91	55	53	36	8	2
6.4	5	□	0630L-DIN-C	91	55	53	36	8	1
	3	★	0630X3DB	87	36	34	51	8	1
	5	★	0630X5DB	96	49	47	47	8	1
	3	□	0640S-DIN	79	43	34	36	8	2
	3	□	0640S-DIN-C	79	43	34	36	8	1
6.5	5	□	0640L-DIN	91	55	53	36	8	2
	5	□	0640L-DIN-C	91	55	53	36	8	1
	3	★	0640X3DB	87	36	34	51	8	1
	5	★	0640X5DB	96	49	47	47	8	1
	3	□	0650S-DIN	79	43	34	36	8	2
6.6	3	●	0650S-DIN-C	79	43	34	36	8	1
	5	□	0650L-DIN	91	55	53	36	8	2
	5	●	0650L-DIN-C	91	55	53	36	8	1
	3	★	0650X3DB	87	36	34	51	8	1
	5	★	0650X5DB	96	49	47	47	8	1
6.6	3	□	0660S-DIN	79	43	34	36	8	2
	3	●	0660S-DIN-C	79	43	34	36	8	1
	5	□	0660L-DIN	91	55	53	36	8	2
	5	●	0660L-DIN-C	91	55	53	36	8	1
6.6	3	★	0660X3DB	91	38	36	53	8	1
	5	★	0660X5DB	99	52	50	47	8	1

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
6.7	3	□	MMS0670S-DIN	79	43	34	36	8	2
	3	□	0670S-DIN-C	79	43	34	36	8	1
	5	□	0670L-DIN	91	55	53	36	8	2
	5	□	0670L-DIN-C	91	55	53	36	8	1
	3	★	0670X3DB	91	38	36	53	8	1
	5	★	0670X5DB	99	52	50	47	8	1
6.8	3	●	0680S-DIN	79	43	34	36	8	2
	3	●	0680S-DIN-C	79	43	34	36	8	1
	5	●	0680L-DIN	91	55	53	36	8	2
	5	●	0680L-DIN-C	91	55	53	36	8	1
	3	★	0680X3DB	91	38	36	53	8	1
	5	★	0680X5DB	99	52	50	47	8	1
6.9	3	□	0690S-DIN	79	43	34	36	8	2
	3	●	0690S-DIN-C	79	43	34	36	8	1
	5	□	0690L-DIN	91	55	53	36	8	2
	5	●	0690L-DIN-C	91	55	53	36	8	1
	3	★	0690X3DB	91	38	36	53	8	1
	5	★	0690X5DB	99	52	50	47	8	1
7.0	3	●	0700S-DIN	79	43	34	36	8	2
	3	●	0700S-DIN-C	79	43	34	36	8	1
	5	●	0700L-DIN	91	55	53	36	8	2
	5	●	0700L-DIN-C	91	55	53	36	8	1
	3	★	0700X3DB	91	38	36	53	8	1
	5	★	0700X5DB	99	52	50	47	8	1
7.1	3	□	0710S-DIN	79	43	41	36	8	2
	3	□	0710S-DIN-C	79	43	41	36	8	1
	5	□	0710L-DIN	91	55	53	36	8	2
	5	□	0710L-DIN-C	91	55	53	36	8	1
	3	★	0710X3DB	91	40	39	51	8	1
	5	★	0710X5DB	104	57	54	47	8	1
7.2	3	□	0720S-DIN	79	43	41	36	8	2
	3	□	0720S-DIN-C	79	43	41	36	8	1
	5	□	0720L-DIN	91	55	53	36	8	2
	5	□	0720L-DIN-C	91	55	53	36	8	1
	3	★	0720X3DB	91	40	39	51	8	1
	5	★	0720X5DB	104	57	54	47	8	1
7.3	3	□	0730S-DIN	79	43	41	36	8	2
	3	●	0730S-DIN-C	79	43	41	36	8	1
	5	□	0730L-DIN	91	55	53	36	8	2
	5	●	0730L-DIN-C	91	55	53	36	8	1
	3	★	0730X3DB	91	40	39	51	8	1
	5	★	0730X5DB	104	57	54	47	8	1
7.4	3	□	0740S-DIN	79	43	41	36	8	2
	3	●	0740S-DIN-C	79	43	41	36	8	1
	5	□	0740L-DIN	91	55	53	36	8	2
	5	●	0740L-DIN-C	91	55	53	36	8	1
	3	★	0740X3DB	91	40	39	51	8	1
	5	★	0740X5DB	104	57	54	47	8	1
7.5	3	□	0750S-DIN	79	43	41	36	8	2
	3	●	0750S-DIN-C	79	43	41	36	8	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
7.5	5	□	MMS0750L-DIN	91	55	53	36	8	2
	5	●	0750L-DIN-C	91	55	53	36	8	1
	3	★	0750X3DB	91	40	39	51	8	1
	5	★	0750X5DB	104	57	54	47	8	1
7.6	3	□	0760S-DIN	79	43	41	36	8	2
	3	□	0760S-DIN-C	79	43	41	36	8	1
	5	□	0760L-DIN	91	55	53	36	8	2
	5	□	0760L-DIN-C	91	55	53	36	8	1
	3	★	0760X3DB	91	41	41	50	8	1
7.7	5	★	0760X5DB	104	57	57	47	8	1
	3	□	0770S-DIN	79	43	41	36	8	2
	3	□	0770S-DIN-C	79	43	41	36	8	1
	5	□	0770L-DIN	91	55	53	36	8	2
	5	□	0770L-DIN-C	91	55	53	36	8	1
7.8	3	★	0770X3DB	91	41	41	50	8	1
	5	★	0770X5DB	104	57	57	47	8	1
	3	□	0780S-DIN	79	43	41	36	8	2
	3	●	0780S-DIN-C	79	43	41	36	8	1
	5	□	0780L-DIN	91	55	53	36	8	2
7.9	5	●	0780L-DIN-C	91	55	53	36	8	1
	3	★	0780X3DB	91	41	41	50	8	1
	5	★	0780X5DB	104	57	57	47	8	1
	3	□	0790S-DIN	79	43	41	36	8	2
	3	□	0790S-DIN-C	79	43	41	36	8	1
8.0	5	□	0790L-DIN	91	55	53	36	8	2
	5	□	0790L-DIN-C	91	55	53	36	8	1
	3	★	0790X3DB	91	41	41	50	8	1
	5	★	0790X5DB	104	57	57	47	8	1
	3	●	0800S-DIN	79	43	41	36	8	2
8.05	3	●	0800S-DIN-C	79	43	41	36	8	1
	5	●	0800L-DIN	91	55	53	36	8	2
	5	●	0800L-DIN-C	91	55	53	36	8	1
	3	★	0800X3DB	91	41	41	50	8	1
	5	★	0800X5DB	104	57	57	47	8	1
8.1	3	□	0805S-DIN	88	48	46	40	10	2
	3	●	0805S-DIN-C	88	48	46	40	10	1
	5	□	0805L-DIN	102	62	60	40	10	2
	5	●	0805L-DIN-C	102	62	60	40	10	1
	3	□	0810S-DIN	88	48	46	40	10	2
8.2	3	□	0810S-DIN-C	88	48	46	40	10	1
	5	□	0810L-DIN	102	62	60	40	10	2
	5	□	0810L-DIN-C	102	62	60	40	10	1
	3	★	0810X3DB	97	46	44	51	10	1
	5	★	0810X5DB	114	63	61	51	10	1
8.2	3	□	0820S-DIN	88	48	46	40	10	2
	3	□	0820S-DIN-C	88	48	46	40	10	1
	5	□	0820L-DIN	102	62	60	40	10	2
	5	□	0820L-DIN-C	102	62	60	40	10	1
	3	★	0820X3DB	97	46	44	51	10	1
8.2	5	★	0820X5DB	114	63	61	51	10	1

FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

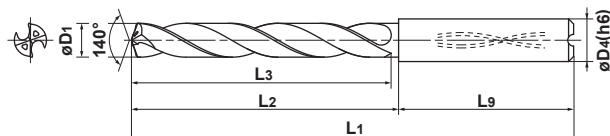


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



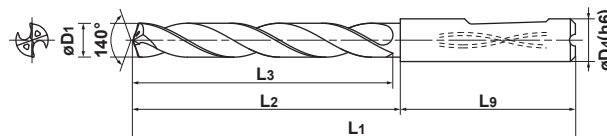
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3—5)

MMS---3XDB/4XDB (l/d 3—5)

● Tipo 2 codolo Whistle Notch



MMS---S/L-DIN (l/d 3—5)

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
8.3	3	□	MMS0830S-DIN	88	48	46	40	10	2
	3	●	0830S-DIN-C	88	48	46	40	10	1
	5	□	0830L-DIN	102	62	60	40	10	2
	5	●	0830L-DIN-C	102	62	60	40	10	1
	3	★	0830X3DB	97	46	44	51	10	1
	5	★	0830X5DB	114	63	61	51	10	1
8.4	3	□	0840S-DIN	88	48	46	40	10	2
	3	□	0840S-DIN-C	88	48	46	40	10	1
	5	□	0840L-DIN	102	62	60	40	10	2
	5	□	0840L-DIN-C	102	62	60	40	10	1
	3	★	0840X3DB	97	46	44	51	10	1
	5	★	0840X5DB	114	63	61	51	10	1
8.5	3	●	0850S-DIN	88	48	46	40	10	2
	3	●	0850S-DIN-C	88	48	46	40	10	1
	5	●	0850L-DIN	102	62	60	40	10	2
	5	●	0850L-DIN-C	102	62	60	40	10	1
	3	★	0850X3DB	97	46	44	51	10	1
	5	★	0850X5DB	114	63	61	51	10	1
8.6	3	□	0860S-DIN	88	48	46	40	10	2
	3	●	0860S-DIN-C	88	48	46	40	10	1
	5	□	0860L-DIN	102	62	60	40	10	2
	5	●	0860L-DIN-C	102	62	60	40	10	1
	3	★	0860X3DB	103	49	47	54	10	1
	5	★	0860X5DB	118	67	65	51	10	1
8.7	3	□	0870S-DIN	88	48	46	40	10	2
	3	●	0870S-DIN-C	88	48	46	40	10	1
	5	□	0870L-DIN	102	62	60	40	10	2
	5	●	0870L-DIN-C	102	62	60	40	10	1
	3	★	0870X3DB	103	49	47	54	10	1
	5	★	0870X5DB	118	67	65	51	10	1
8.8	3	□	0880S-DIN	88	48	46	40	10	2
	3	●	0880S-DIN-C	88	48	46	40	10	1
	5	□	0880L-DIN	102	62	60	40	10	2
	5	●	0880L-DIN-C	102	62	60	40	10	1
	3	★	0880X3DB	103	49	47	54	10	1
	5	★	0880X5DB	118	67	65	51	10	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
8.9	3	□	MMS0890S-DIN	88	48	46	40	10	2
	3	□	0890S-DIN-C	88	48	46	40	10	1
	5	□	0890L-DIN	102	62	60	40	10	2
	5	□	0890L-DIN-C	102	62	60	40	10	1
	3	★	0890X3DB	103	49	47	54	10	1
	5	★	0890X5DB	118	67	65	51	10	1
9.0	3	□	0900S-DIN	88	48	46	40	10	2
	3	●	0900S-DIN-C	88	48	46	40	10	1
	5	□	0900L-DIN	102	62	60	40	10	2
	5	●	0900L-DIN-C	102	62	60	40	10	1
	3	★	0900X3DB	103	49	47	54	10	1
	5	★	0900X5DB	118	67	65	51	10	1
9.1	3	□	0910S-DIN	89	49	47	40	10	2
	3	□	0910S-DIN-C	89	49	47	40	10	1
	5	□	0910L-DIN	103	63	62	40	10	2
	5	□	0910L-DIN-C	103	63	62	40	10	1
	3	★	0910X3DB	103	52	50	51	10	1
	5	★	0910X5DB	123	72	69	51	10	1
9.2	3	□	0920S-DIN	89	49	47	40	10	2
	3	□	0920S-DIN-C	89	49	47	40	10	1
	5	□	0920L-DIN	103	63	62	40	10	2
	5	□	0920L-DIN-C	103	63	62	40	10	1
	3	★	0920X3DB	103	52	50	51	10	1
	5	★	0920X5DB	123	72	69	51	10	1
9.3	3	□	0930S-DIN	89	49	47	40	10	2
	3	●	0930S-DIN-C	89	49	47	40	10	1
	5	□	0930L-DIN	103	63	62	40	10	2
	5	●	0930L-DIN-C	103	63	62	40	10	1
	3	★	0930X3DB	103	52	50	51	10	1
	5	★	0930X5DB	123	72	69	51	10	1
9.4	3	□	0940S-DIN	89	49	47	40	10	2
	3	□	0940S-DIN-C	89	49	47	40	10	1
	5	□	0940L-DIN	103	63	62	40	10	2
	5	□	0940L-DIN-C	103	63	62	40	10	1
	3	★	0940X3DB	103	52	50	51	10	1
	5	★	0940X5DB	123	72	69	51	10	1

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
9.5	3	□	MMS0950S-DIN	89	49	47	40	10	2
	3	●	0950S-DIN-C	89	49	47	40	10	1
	5	□	0950L-DIN	103	63	62	40	10	2
	5	●	0950L-DIN-C	103	63	62	40	10	1
	3	★	0950X3DB	103	52	50	51	10	1
	5	★	0950X5DB	123	72	69	51	10	1
9.6	3	□	0960S-DIN	89	49	47	40	10	2
	3	□	0960S-DIN-C	89	49	47	40	10	1
	5	□	0960L-DIN	103	63	62	40	10	2
	5	□	0960L-DIN-C	103	63	62	40	10	1
	3	★	0960X3DB	103	52	52	51	10	1
	5	★	0960X5DB	123	72	72	51	10	1
9.7	3	□	0970S-DIN	89	49	47	40	10	2
	3	□	0970S-DIN-C	89	49	47	40	10	1
	5	□	0970L-DIN	103	63	62	40	10	2
	5	□	0970L-DIN-C	103	63	62	40	10	1
	3	★	0970X3DB	103	52	52	51	10	1
	5	★	0970X5DB	123	72	72	51	10	1
9.8	3	□	0980S-DIN	89	49	47	40	10	2
	3	●	0980S-DIN-C	89	49	47	40	10	1
	5	□	0980L-DIN	103	63	62	40	10	2
	5	●	0980L-DIN-C	103	63	62	40	10	1
	3	★	0980X3DB	103	52	52	51	10	1
	5	★	0980X5DB	123	72	72	51	10	1
9.9	3	□	0990S-DIN	89	49	47	40	10	2
	3	□	0990S-DIN-C	89	49	47	40	10	1
	5	□	0990L-DIN	103	63	62	40	10	2
	5	□	0990L-DIN-C	103	63	62	40	10	1
	3	★	0990X3DB	103	52	52	51	10	1
	5	★	0990X5DB	123	72	72	51	10	1
10.0	3	●	1000S-DIN	89	49	47	40	10	2
	3	●	1000S-DIN-C	89	49	47	40	10	1
	5	●	1000L-DIN	103	63	62	40	10	2
	5	●	1000L-DIN-C	103	63	62	40	10	1
	3	★	1000X3DB	103	52	52	51	10	1
	5	★	1000X5DB	123	72	72	51	10	1
10.05	3	□	1005S-DIN	102	57	55	45	12	2
	3	●	1005S-DIN-C	102	57	55	45	12	1
	5	□	1005L-DIN	118	73	71	45	12	2
	5	●	1005L-DIN-C	118	73	71	45	12	1
10.1	3	□	1010S-DIN	102	57	55	45	12	2
	3	□	1010S-DIN-C	102	57	55	45	12	1
	5	□	1010L-DIN	118	73	71	45	12	2
	5	□	1010L-DIN-C	118	73	71	45	12	1
	3	★	1010X3DB	113	57	55	56	12	1
	5	★	1010X5DB	136	80	76	56	12	1
10.2	3	□	1020S-DIN	102	57	55	45	12	2
	3	●	1020S-DIN-C	102	57	55	45	12	1
	5	□	1020L-DIN	118	73	71	45	12	2
	5	●	1020L-DIN-C	118	73	71	45	12	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
10.2	3	★	MMS1020X3DB	113	57	55	56	12	1
	5	★	1020X5DB	136	80	76	56	12	1
10.3	3	□	1030S-DIN	102	57	55	45	12	2
	3	●	1030S-DIN-C	102	57	55	45	12	1
	5	□	1030L-DIN	118	73	71	45	12	2
	5	●	1030L-DIN-C	118	73	71	45	12	1
	3	★	1030X3DB	113	57	55	56	12	1
	5	★	1030X5DB	136	80	76	56	12	1
10.4	3	□	1040S-DIN	102	57	55	45	12	2
	3	●	1040S-DIN-C	102	57	55	45	12	1
	5	□	1040L-DIN	118	73	71	45	12	2
	5	●	1040L-DIN-C	118	73	71	45	12	1
	3	★	1040X3DB	113	57	55	56	12	1
	5	★	1040X5DB	136	80	76	56	12	1
10.5	3	□	1050S-DIN	102	57	55	45	12	2
	3	●	1050S-DIN-C	102	57	55	45	12	1
	5	□	1050L-DIN	118	73	71	45	12	2
	5	●	1050L-DIN-C	118	73	71	45	12	1
	3	★	1050X3DB	113	57	55	56	12	1
	5	★	1050X5DB	136	80	76	56	12	1
10.6	3	□	1060S-DIN	102	57	55	45	12	2
	3	□	1060S-DIN-C	102	57	55	45	12	1
	5	□	1060L-DIN	118	73	71	45	12	2
	5	□	1060L-DIN-C	118	73	71	45	12	1
	3	★	1060X3DB	118	58	57	60	12	1
	5	★	1060X5DB	136	80	79	56	12	1
10.7	3	□	1070S-DIN	102	57	55	45	12	2
	3	●	1070S-DIN-C	102	57	55	45	12	1
	5	□	1070L-DIN	118	73	71	45	12	2
	5	●	1070L-DIN-C	118	73	71	45	12	1
	3	★	1070X3DB	118	58	57	60	12	1
	5	★	1070X5DB	136	80	79	56	12	1
10.8	3	□	1080S-DIN	102	57	55	45	12	2
	3	●	1080S-DIN-C	102	57	55	45	12	1
	5	□	1080L-DIN	118	73	71	45	12	2
	5	●	1080L-DIN-C	118	73	71	45	12	1
	3	★	1080X3DB	118	58	57	60	12	1
	5	★	1080X5DB	136	80	79	56	12	1
10.9	3	□	1090S-DIN	102	57	55	45	12	2
	3	□	1090S-DIN-C	102	57	55	45	12	1
	5	□	1090L-DIN	118	73	71	45	12	2
	5	□	1090L-DIN-C	118	73	71	45	12	1
	3	★	1090X3DB	118	58	57	60	12	1
	5	★	1090X5DB	136	80	79	56	12	1
11.0	3	□	1100S-DIN	102	57	55	45	12	2
	3	●	1100S-DIN-C	102	57	55	45	12	1
	5	□	1100L-DIN	118	73	71	45	12	2
	5	●	1100L-DIN-C	118	73	71	45	12	1
	3	★	1100X3DB	118	58	57	60	12	1
	5	★	1100X5DB	136	80	79	56	12	1



FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

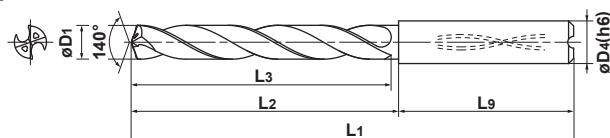


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



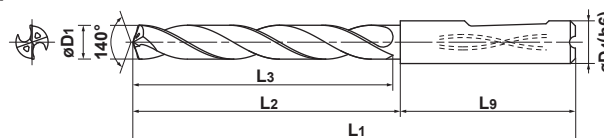
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3—5)

MMS---3XDB/4XDB (l/d 3—5)

● Tipo 2 codolo Whistle Notch



MMS---S/L-DIN (l/d 3—5)

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
11.1	3	□	MMS1110S-DIN	102	57	55	45	12	2
	3	□	1110S-DIN-C	102	57	55	45	12	1
	5	□	1110L-DIN	118	73	71	45	12	2
	5	□	1110L-DIN-C	118	73	71	45	12	1
	3	★	1110X3DB	118	62	60	56	12	1
	5	★	1110X5DB	142	86	83	56	12	1
11.2	3	□	1120S-DIN	102	57	55	45	12	2
	3	●	1120S-DIN-C	102	57	55	45	12	1
	5	□	1120L-DIN	118	73	71	45	12	2
	5	●	1120L-DIN-C	118	73	71	45	12	1
	3	★	1120X3DB	118	62	60	56	12	1
	5	★	1120X5DB	142	86	83	56	12	1
11.3	3	□	1130S-DIN	102	57	55	45	12	2
	3	□	1130S-DIN-C	102	57	55	45	12	1
	5	□	1130L-DIN	118	73	71	45	12	2
	5	□	1130L-DIN-C	118	73	71	45	12	1
	3	★	1130X3DB	118	62	60	56	12	1
	5	★	1130X5DB	142	86	83	56	12	1
11.4	3	□	1140S-DIN	102	57	55	45	12	2
	3	●	1140S-DIN-C	102	57	55	45	12	1
	5	□	1140L-DIN	118	73	71	45	12	2
	5	●	1140L-DIN-C	118	73	71	45	12	1
	3	★	1140X3DB	118	62	60	56	12	1
	5	★	1140X5DB	142	86	83	56	12	1
11.5	3	□	1150S-DIN	102	57	55	45	12	2
	3	●	1150S-DIN-C	102	57	55	45	12	1
	5	□	1150L-DIN	118	73	71	45	12	2
	5	●	1150L-DIN-C	118	73	71	45	12	1
	3	★	1150X3DB	118	62	60	56	12	1
	5	★	1150X5DB	142	86	83	56	12	1
11.6	3	□	1160S-DIN	102	57	55	45	12	2
	3	□	1160S-DIN-C	102	57	55	45	12	1
	5	□	1160L-DIN	118	73	71	45	12	2
	5	□	1160L-DIN-C	118	73	71	45	12	1
	3	★	1160X3DB	118	62	62	56	12	1
	5	★	1160X5DB	142	86	86	56	12	1
11.7	3	□	1170S-DIN	102	57	55	45	12	2
	3	●	1170S-DIN-C	102	57	55	45	12	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
11.7	5	□	MMS1170L-DIN	118	73	71	45	12	2
	5	●	1170L-DIN-C	118	73	71	45	12	1
	3	★	1170X3DB	118	62	62	56	12	1
	5	★	1170X5DB	142	86	86	56	12	1
11.8	3	□	1180S-DIN	102	57	55	45	12	2
	3	●	1180S-DIN-C	102	57	55	45	12	1
	5	□	1180L-DIN	118	73	71	45	12	2
	5	●	1180L-DIN-C	118	73	71	45	12	1
	3	★	1180X3DB	118	62	62	56	12	1
11.9	5	★	1180X5DB	142	86	86	56	12	1
	3	□	1190S-DIN	102	57	55	45	12	2
	3	□	1190S-DIN-C	102	57	55	45	12	1
	5	□	1190L-DIN	118	73	71	45	12	2
	5	□	1190L-DIN-C	118	73	71	45	12	1
12.0	3	★	1190X3DB	118	62	62	56	12	1
	5	★	1190X5DB	142	86	86	56	12	1
	3	●	1200S-DIN	102	57	55	45	12	2
	3	●	1200S-DIN-C	102	57	55	45	12	1
	5	●	1200L-DIN	118	73	71	45	12	2
12.05	5	●	1200L-DIN-C	118	73	71	45	12	1
	3	★	1200X3DB	118	62	62	56	12	1
	5	★	1200X5DB	142	86	86	56	12	1
	3	□	1205S-DIN	107	62	60	45	14	2
	3	●	1205S-DIN-C	107	62	60	45	14	1
12.1	5	●	1205L-DIN	124	79	77	45	14	2
	5	●	1205L-DIN-C	124	79	77	45	14	1
	3	□	1210S-DIN	107	62	60	45	14	2
	3	□	1210S-DIN-C	107	62	60	45	14	1
	5	□	1210L-DIN	124	79	77	45	14	2
12.2	5	□	1210L-DIN-C	124	79	77	45	14	1
	3	★	1210X3DB	124	68	65	56	14	1
	5	★	1210X5DB	150	94	90	56	14	1
	3	□	1220S-DIN	107	62	60	45	14	2
	3	□	1220S-DIN-C	107	62	60	45	14	1
12.2	5	□	1220L-DIN	124	79	77	45	14	2
	5	□	1220L-DIN-C	124	79	77	45	14	1
	3	★	1220X3DB	124	68	65	56	14	1
12.2	5	★	1220X5DB	150	94	90	56	14	1

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
12.3	3	□	MMS1230S-DIN	107	62	60	45	14	2
	3	□	1230S-DIN-C	107	62	60	45	14	1
	5	□	1230L-DIN	124	79	77	45	14	2
	5	□	1230L-DIN-C	124	79	77	45	14	1
	3	★	1230X3DB	124	68	65	56	14	1
	5	★	1230X5DB	150	94	90	56	14	1
12.4	3	□	1240S-DIN	107	62	60	45	14	2
	3	□	1240S-DIN-C	107	62	60	45	14	1
	5	□	1240L-DIN	124	79	77	45	14	2
	5	□	1240L-DIN-C	124	79	77	45	14	1
	3	★	1240X3DB	124	68	65	56	14	1
	5	★	1240X5DB	150	94	90	56	14	1
12.5	3	□	1250S-DIN	107	62	60	45	14	2
	3	●	1250S-DIN-C	107	62	60	45	14	1
	5	□	1250L-DIN	124	79	77	45	14	2
	5	●	1250L-DIN-C	124	79	77	45	14	1
	3	★	1250X3DB	124	68	65	56	14	1
	5	★	1250X5DB	150	94	90	56	14	1
12.6	3	□	1260S-DIN	107	62	60	45	14	2
	3	●	1260S-DIN-C	107	62	60	45	14	1
	5	□	1260L-DIN	124	79	77	45	14	2
	5	●	1260L-DIN-C	124	79	77	45	14	1
	3	★	1260X3DB	124	68	67	56	14	1
	5	★	1260X5DB	150	94	93	56	14	1
12.7	3	□	1270S-DIN	107	62	60	45	14	2
	3	●	1270S-DIN-C	107	62	60	45	14	1
	5	□	1270L-DIN	124	79	77	45	14	2
	5	●	1270L-DIN-C	124	79	77	45	14	1
	3	★	1270X3DB	124	68	67	56	14	1
	5	★	1270X5DB	150	94	93	56	14	1
12.8	3	□	1280S-DIN	107	62	60	45	14	2
	3	□	1280S-DIN-C	107	62	60	45	14	1
	5	□	1280L-DIN	124	79	77	45	14	2
	5	□	1280L-DIN-C	124	79	77	45	14	1
	3	★	1280X3DB	124	68	67	56	14	1
	5	★	1280X5DB	150	94	93	56	14	1
12.9	3	□	1290S-DIN	107	62	60	45	14	2
	3	□	1290S-DIN-C	107	62	60	45	14	1
	5	□	1290L-DIN	124	79	77	45	14	2
	5	□	1290L-DIN-C	124	79	77	45	14	1
	3	★	1290X3DB	124	68	67	56	14	1
	5	★	1290X5DB	150	94	93	56	14	1
13.0	3	□	1300S-DIN	107	62	60	45	14	2
	3	●	1300S-DIN-C	107	62	60	45	14	1
	5	□	1300L-DIN	124	79	77	45	14	2
	5	●	1300L-DIN-C	124	79	77	45	14	1
	3	★	1300X3DB	124	68	67	56	14	1
	5	★	1300X5DB	150	94	93	56	14	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
13.1	3	□	MMS1310S-DIN	107	62	60	45	14	2
	3	□	1310S-DIN-C	107	62	60	45	14	1
	5	□	1310L-DIN	124	79	77	45	14	2
	5	□	1310L-DIN-C	124	79	77	45	14	1
	3	★	1310X3DB	128	72	70	56	14	1
	5	★	1310X5DB	156	100	97	56	14	1
13.2	3	□	1320S-DIN	107	62	60	45	14	2
	3	□	1320S-DIN-C	107	62	60	45	14	1
	5	□	1320L-DIN	124	79	77	45	14	2
	5	□	1320L-DIN-C	124	79	77	45	14	1
	3	★	1320X3DB	128	72	70	56	14	1
	5	★	1320X5DB	156	100	97	56	14	1
13.3	3	□	1330S-DIN	107	62	60	45	14	2
	3	□	1330S-DIN-C	107	62	60	45	14	1
	5	□	1330L-DIN	124	79	77	45	14	2
	5	□	1330L-DIN-C	124	79	77	45	14	1
	3	★	1330X3DB	128	72	70	56	14	1
	5	★	1330X5DB	156	100	97	56	14	1
13.4	3	□	1340S-DIN	107	62	60	45	14	2
	3	□	1340S-DIN-C	107	62	60	45	14	1
	5	□	1340L-DIN	124	79	77	45	14	2
	5	□	1340L-DIN-C	124	79	77	45	14	1
	3	★	1340X3DB	128	72	70	56	14	1
	5	★	1340X5DB	156	100	97	56	14	1
13.5	3	□	1350S-DIN	107	62	60	45	14	2
	3	●	1350S-DIN-C	107	62	60	45	14	1
	5	□	1350L-DIN	124	79	77	45	14	2
	5	●	1350L-DIN-C	124	79	77	45	14	1
	3	★	1350X3DB	128	72	70	56	14	1
	5	★	1350X5DB	156	100	97	56	14	1
13.6	3	□	1360S-DIN	107	62	60	45	14	2
	3	□	1360S-DIN-C	107	62	60	45	14	1
	5	□	1360L-DIN	124	79	77	45	14	2
	5	□	1360L-DIN-C	124	79	77	45	14	1
	3	★	1360X3DB	128	72	72	56	14	1
	5	★	1360X5DB	156	100	100	56	14	1
13.7	3	□	1370S-DIN	107	62	60	45	14	2
	3	●	1370S-DIN-C	107	62	60	45	14	1
	5	□	1370L-DIN	124	79	77	45	14	2
	5	●	1370L-DIN-C	124	79	77	45	14	1
	3	★	1370X3DB	128	72	72	56	14	1
	5	★	1370X5DB	156	100	100	56	14	1
13.8	3	□	1380S-DIN	107	62	60	45	14	2
	3	□	1380S-DIN-C	107	62	60	45	14	1
	5	□	1380L-DIN	124	79	77	45	14	2
	5	□	1380L-DIN-C	124	79	77	45	14	1
	3	★	1380X3DB	128	72	72	56	14	1
	5	★	1380X5DB	156	100	100	56	14	1



FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

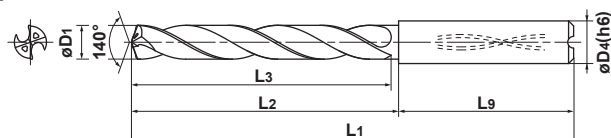


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



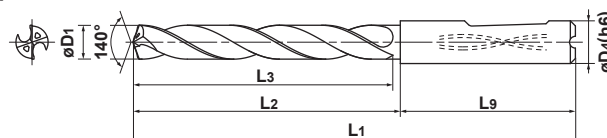
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3—5)

MMS---3XDB/4XDB (l/d 3—5)

● Tipo 2 codolo Whistle Notch



MMS---S/L-DIN (l/d 3—5)

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
13.9	3	□	MMS1390S-DIN	107	62	60	45	14	2
	3	□	1390S-DIN-C	107	62	60	45	14	1
	5	□	1390L-DIN	124	79	77	45	14	2
	5	□	1390L-DIN-C	124	79	77	45	14	1
	3	★	1390X3DB	128	72	72	56	14	1
	5	★	1390X5DB	156	100	100	56	14	1
14.0	3	●	1400S-DIN	107	62	60	45	14	2
	3	●	1400S-DIN-C	107	62	60	45	14	1
	5	●	1400L-DIN	124	79	77	45	14	2
	5	●	1400L-DIN-C	124	79	77	45	14	1
	3	★	1400X3DB	128	72	72	56	14	1
	5	★	1400X5DB	156	100	100	56	14	1
14.05	3	●	1405S-DIN	114	66	64	48	16	2
	3	□	1405S-DIN-C	114	66	64	48	16	1
	5	●	1405L-DIN	132	84	82	48	16	2
	5	□	1405L-DIN-C	132	84	82	48	16	1
14.1	3	□	1410S-DIN	114	66	64	48	16	2
	3	□	1410S-DIN-C	114	66	64	48	16	1
	5	□	1410L-DIN	132	84	82	48	16	2
	5	□	1410L-DIN-C	132	84	82	48	16	1
	3	★	1410X3DB	138	79	76	59	16	1
	5	★	1410X5DB	168	109	105	59	16	1
14.2	3	□	1420S-DIN	114	66	64	48	16	2
	3	□	1420S-DIN-C	114	66	64	48	16	1
	5	□	1420L-DIN	132	84	82	48	16	2
	5	□	1420L-DIN-C	132	84	82	48	16	1
	3	★	1420X3DB	138	79	76	59	16	1
	5	★	1420X5DB	168	109	105	59	16	1
14.3	3	□	1430S-DIN	114	66	64	48	16	2
	3	□	1430S-DIN-C	114	66	64	48	16	1
	5	□	1430L-DIN	132	84	82	48	16	2
	5	□	1430L-DIN-C	132	84	82	48	16	1
	3	★	1430X3DB	138	79	76	59	16	1
	5	★	1430X5DB	168	109	105	59	16	1
14.4	3	□	1440S-DIN	114	66	64	48	16	2
	3	□	1440S-DIN-C	114	66	64	48	16	1
	5	□	1440L-DIN	132	84	82	48	16	2
	5	□	1440L-DIN-C	132	84	82	48	16	1
	5	□	1440L-DIN-C	132	84	82	48	16	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
14.4	3	★	MMS1440X3DB	138	79	76	59	16	1
	5	★	1440X5DB	168	109	105	59	16	1
14.5	3	●	1450S-DIN	114	66	64	48	16	2
	3	□	1450S-DIN-C	114	66	64	48	16	1
	5	●	1450L-DIN	132	84	82	48	16	2
	5	□	1450L-DIN-C	132	84	82	48	16	1
	3	★	1450X3DB	138	79	76	59	16	1
	5	★	1450X5DB	168	109	105	59	16	1
14.6	3	□	1460S-DIN	114	66	64	48	16	2
	3	□	1460S-DIN-C	114	66	64	48	16	1
	5	□	1460L-DIN	132	84	82	48	16	2
	5	□	1460L-DIN-C	132	84	82	48	16	1
	3	★	1460X3DB	138	79	78	59	16	1
	5	★	1460X5DB	168	109	108	59	16	1
14.7	3	□	1470S-DIN	114	66	64	48	16	2
	3	□	1470S-DIN-C	114	66	64	48	16	1
	5	□	1470L-DIN	132	84	82	48	16	2
	5	□	1470L-DIN-C	132	84	82	48	16	1
	3	★	1470X3DB	138	79	78	59	16	1
	5	★	1470X5DB	168	109	108	59	16	1
14.8	3	□	1480S-DIN	114	66	64	48	16	2
	3	□	1480S-DIN-C	114	66	64	48	16	1
	5	□	1480L-DIN	132	84	82	48	16	2
	5	□	1480L-DIN-C	132	84	82	48	16	1
	3	★	1480X3DB	138	79	78	59	16	1
	5	★	1480X5DB	168	109	108	59	16	1
14.9	3	□	1490S-DIN	114	66	64	48	16	2
	3	□	1490S-DIN-C	114	66	64	48	16	1
	5	□	1490L-DIN	132	84	82	48	16	2
	5	□	1490L-DIN-C	132	84	82	48	16	1
	3	★	1490X3DB	138	79	78	59	16	1
	5	★	1490X5DB	168	109	108	59	16	1
15.0	3	●	1500S-DIN	114	66	64	48	16	2
	3	□	1500S-DIN-C	114	66	64	48	16	1
	5	●	1500L-DIN	132	84	82	48	16	2
	5	□	1500L-DIN-C	132	84	82	48	16	1
	3	★	1500X3DB	138	79	78	59	16	1
	5	★	1500X5DB	168	109	108	59	16	1

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
15.1	3	□	MMS1510S-DIN	115	67	65	48	16	2
	3	□	1510S-DIN-C	115	67	65	48	16	1
	5	□	1510L-DIN	133	85	83	48	16	2
	5	□	1510L-DIN-C	133	85	83	48	16	1
	3	★	1510X3DB	142	83	81	59	16	1
	5	★	1510X5DB	174	115	112	59	16	1
15.2	3	□	1520S-DIN	115	67	65	48	16	2
	3	□	1520S-DIN-C	115	67	65	48	16	1
	5	□	1520L-DIN	133	85	83	48	16	2
	5	□	1520L-DIN-C	133	85	83	48	16	1
	3	★	1520X3DB	142	83	81	59	16	1
	5	★	1520X5DB	174	115	112	59	16	1
15.3	3	□	1530S-DIN	115	67	65	48	16	2
	3	□	1530S-DIN-C	115	67	65	48	16	1
	5	□	1530L-DIN	133	85	83	48	16	2
	5	□	1530L-DIN-C	133	85	83	48	16	1
	3	★	1530X3DB	142	83	81	59	16	1
	5	★	1530X5DB	174	115	112	59	16	1
15.4	3	□	1540S-DIN	115	67	65	48	16	2
	3	□	1540S-DIN-C	115	67	65	48	16	1
	5	□	1540L-DIN	133	85	83	48	16	2
	5	□	1540L-DIN-C	133	85	83	48	16	1
	3	★	1540X3DB	142	83	81	59	16	1
	5	★	1540X5DB	174	115	112	59	16	1
15.5	3	●	1550S-DIN	115	67	65	48	16	2
	3	□	1550S-DIN-C	115	67	65	48	16	1
	5	●	1550L-DIN	133	85	83	48	16	2
	5	□	1550L-DIN-C	133	85	83	48	16	1
	3	★	1550X3DB	142	83	81	59	16	1
	5	★	1550X5DB	174	115	112	59	16	1
15.6	3	□	1560S-DIN	115	67	65	48	16	2
	3	□	1560S-DIN-C	115	67	65	48	16	1
	5	□	1560L-DIN	133	85	83	48	16	2
	5	□	1560L-DIN-C	133	85	83	48	16	1
	3	★	1560X3DB	142	83	83	59	16	1
	5	★	1560X5DB	174	115	115	59	16	1
15.7	3	□	1570S-DIN	115	67	65	48	16	2
	3	□	1570S-DIN-C	115	67	65	48	16	1
	5	□	1570L-DIN	133	85	83	48	16	2
	5	□	1570L-DIN-C	133	85	83	48	16	1
	3	★	1570X3DB	142	83	83	59	16	1
	5	★	1570X5DB	174	115	115	59	16	1
15.8	3	□	1580S-DIN	115	67	65	48	16	2
	3	□	1580S-DIN-C	115	67	65	48	16	1
	5	□	1580L-DIN	133	85	83	48	16	2
	5	□	1580L-DIN-C	133	85	83	48	16	1
	3	★	1580X3DB	142	83	83	59	16	1
	5	★	1580X5DB	174	115	115	59	16	1
15.9	3	□	1590S-DIN	115	67	65	48	16	2
	3	□	1590S-DIN-C	115	67	65	48	16	1
	5	□	1590L-DIN	133	85	83	48	16	2

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
15.9	5	□	MMS1590L-DIN-C	133	85	83	48	16	1
	3	★	1590X3DB	142	83	83	59	16	1
	5	★	1590X5DB	174	115	115	59	16	1
16.0	3	●	1600S-DIN	115	67	65	48	16	2
	3	□	1600S-DIN-C	115	67	65	48	16	1
	5	●	1600L-DIN	133	85	83	48	16	2
	5	□	1600L-DIN-C	133	85	83	48	16	1
	3	★	1600X3DB	142	83	83	59	16	1
16.1	5	★	1600X5DB	174	115	115	59	16	1
	3	□	1610S-DIN	123	75	73	48	18	2
	3	□	1610S-DIN-C	123	75	73	48	18	1
	5	□	1610L-DIN	143	95	93	48	18	2
	5	□	1610L-DIN-C	143	95	93	48	18	1
16.2	3	□	1610X3DB	148	89	86	59	18	1
	5	□	1610X5DB	182	123	119	59	18	1
	3	□	1620S-DIN	123	75	73	48	18	2
	3	□	1620S-DIN-C	123	75	73	48	18	1
	5	□	1620L-DIN	143	95	93	48	18	2
16.3	5	□	1620L-DIN-C	143	95	93	48	18	1
	3	□	1620X3DB	148	89	86	59	18	1
	5	□	1620X5DB	182	123	119	59	18	1
	3	□	1630S-DIN	123	75	73	48	18	2
	3	□	1630S-DIN-C	123	75	73	48	18	1
16.4	5	□	1630L-DIN	143	95	93	48	18	2
	5	□	1630L-DIN-C	143	95	93	48	18	1
	3	□	1630X3DB	148	89	86	59	18	1
	5	□	1630X5DB	182	123	119	59	18	1
	3	□	1640S-DIN	123	75	73	48	18	2
16.5	3	□	1640S-DIN-C	123	75	73	48	18	1
	5	□	1640L-DIN	143	95	93	48	18	2
	5	□	1640L-DIN-C	143	95	93	48	18	1
	3	□	1640X3DB	148	89	86	59	18	1
	5	□	1640X5DB	182	123	119	59	18	1
16.6	3	●	1650S-DIN	123	75	73	48	18	2
	3	□	1650S-DIN-C	123	75	73	48	18	1
	5	●	1650L-DIN	143	95	93	48	18	2
	5	□	1650L-DIN-C	143	95	93	48	18	1
	3	★	1650X3DB	148	89	86	59	18	1
16.7	5	★	1650X5DB	182	123	119	59	18	1
	3	□	1660S-DIN	123	75	73	48	18	2
	3	□	1660S-DIN-C	123	75	73	48	18	1
	5	□	1660L-DIN	143	95	93	48	18	2
	5	□	1660L-DIN-C	143	95	93	48	18	1
16.8	3	□	1660X3DB	148	89	88	59	18	1
	5	□	1660X5DB	182	123	122	59	18	1
	3	□	1670S-DIN	123	75	73	48	18	2
	3	□	1670S-DIN-C	123	75	73	48	18	1
	5	□	1670L-DIN	143	95	93	48	18	2
16.9	5	□	1670L-DIN-C	143	95	93	48	18	1
	3	□	1670X3DB	148	89	88	59	18	1
	5	□	1670X5DB	182	123	122	59	18	1

FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

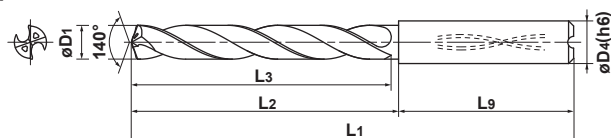


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



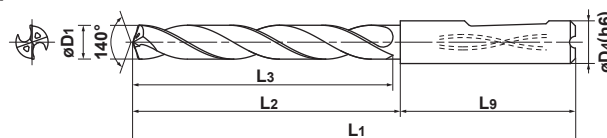
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3—5)

MMS---3XDB/4XDB (l/d 3—5)

● Tipo 2 codolo Whistle Notch



MMS---S/L-DIN (l/d 3—5)

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
16.8	3	□	MMS1680S-DIN	123	75	73	48	18	2
	3	□	1680S-DIN-C	123	75	73	48	18	1
	5	□	1680L-DIN	143	95	93	48	18	2
	5	□	1680L-DIN-C	143	95	93	48	18	1
	3	□	1680X3DB	148	89	88	59	18	1
	5	□	1680X5DB	182	123	122	59	18	1
16.9	3	□	1690S-DIN	123	75	73	48	18	2
	3	□	1690S-DIN-C	123	75	73	48	18	1
	5	□	1690L-DIN	143	95	93	48	18	2
	5	□	1690L-DIN-C	143	95	93	48	18	1
	3	□	1690X3DB	148	89	88	59	18	1
	5	□	1690X5DB	182	123	122	59	18	1
17.0	3	●	1700S-DIN	123	75	73	48	18	2
	3	□	1700S-DIN-C	123	75	73	48	18	1
	5	●	1700L-DIN	143	95	93	48	18	2
	5	□	1700L-DIN-C	143	95	93	48	18	1
	3	★	1700X3DB	148	89	88	59	18	1
	5	★	1700X5DB	182	123	122	59	18	1
17.1	3	□	1710S-DIN	123	75	73	48	18	2
	3	□	1710S-DIN-C	123	75	73	48	18	1
	5	□	1710L-DIN	143	95	93	48	18	2
	5	□	1710L-DIN-C	143	95	93	48	18	1
	3	□	1710X3DB	152	93	91	59	18	1
	5	□	1710X5DB	188	129	126	59	18	1
17.2	3	□	1720S-DIN	123	75	73	48	18	2
	3	□	1720S-DIN-C	123	75	73	48	18	1
	5	□	1720L-DIN	143	95	93	48	18	2
	5	□	1720L-DIN-C	143	95	93	48	18	1
	3	□	1720X3DB	152	93	91	59	18	1
	5	□	1720X5DB	188	129	126	59	18	1
17.3	3	□	1730S-DIN	123	75	73	48	18	2
	3	□	1730S-DIN-C	123	75	73	48	18	1
	5	□	1730L-DIN	143	95	93	48	18	2
	5	□	1730L-DIN-C	143	95	93	48	18	1
	3	□	1730X3DB	152	93	91	59	18	1
	5	□	1730X5DB	188	129	126	59	18	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
17.4	3	□	MMS1740S-DIN	123	75	73	48	18	2
	3	□	1740S-DIN-C	123	75	73	48	18	1
	5	□	1740L-DIN	143	95	93	48	18	2
	5	□	1740L-DIN-C	143	95	93	48	18	1
	3	□	1740X3DB	152	93	91	59	18	1
	5	□	1740X5DB	188	129	126	59	18	1
17.5	3	●	1750S-DIN	123	75	73	48	18	2
	3	□	1750S-DIN-C	123	75	73	48	18	1
	5	●	1750L-DIN	143	95	93	48	18	2
	5	□	1750L-DIN-C	143	95	93	48	18	1
	3	★	1750X3DB	152	93	91	59	18	1
	5	★	1750X5DB	188	129	126	59	18	1
17.6	3	□	1760S-DIN	123	75	73	48	18	2
	3	□	1760S-DIN-C	123	75	73	48	18	1
	5	□	1760L-DIN	143	95	93	48	18	2
	5	□	1760L-DIN-C	143	95	93	48	18	1
	3	□	1760X3DB	152	93	93	59	18	1
	5	□	1760X5DB	188	129	129	59	18	1
17.7	3	□	1770S-DIN	123	75	73	48	18	2
	3	□	1770S-DIN-C	123	75	73	48	18	1
	5	□	1770L-DIN	143	95	93	48	18	2
	5	□	1770L-DIN-C	143	95	93	48	18	1
	3	□	1770X3DB	152	93	93	59	18	1
	5	□	1770X5DB	188	129	129	59	18	1
17.8	3	□	1780S-DIN	123	75	73	48	18	2
	3	□	1780S-DIN-C	123	75	73	48	18	1
	5	□	1780L-DIN	143	95	93	48	18	2
	5	□	1780L-DIN-C	143	95	93	48	18	1
	3	□	1780X3DB	152	93	93	59	18	1
	5	□	1780X5DB	188	129	129	59	18	1
17.9	3	□	1790S-DIN	123	75	73	48	18	2
	3	□	1790S-DIN-C	123	75	73	48	18	1
	5	□	1790L-DIN	143	95	93	48	18	2
	5	□	1790L-DIN-C	143	95	93	48	18	1
	3	□	1790X3DB	152	93	93	59	18	1
	5	□	1790X5DB	188	129	129	59	18	1

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
18.0	3	●	MMS1800S-DIN	123	75	73	48	18	2
	3	□	1800S-DIN-C	123	75	73	48	18	1
	5	●	1800L-DIN	143	95	93	48	18	2
	5	□	1800L-DIN-C	143	95	93	48	18	1
	3	★	1800X3DB	152	93	93	59	18	1
	5	★	1800X5DB	188	129	129	59	18	1
18.1	3	□	1810S-DIN	131	81	79	50	20	2
	3	□	1810S-DIN-C	131	81	79	50	20	1
	5	□	1810L-DIN	153	103	101	50	20	2
	5	□	1810L-DIN-C	153	103	101	50	20	1
	3	□	1810X3DB	160	99	96	61	20	1
	5	□	1810X5DB	198	137	133	61	20	1
18.2	3	□	1820S-DIN	131	81	79	50	20	2
	3	□	1820S-DIN-C	131	81	79	50	20	1
	5	□	1820L-DIN	153	103	101	50	20	2
	5	□	1820L-DIN-C	153	103	101	50	20	1
	3	□	1820X3DB	160	99	96	61	20	1
	5	□	1820X5DB	198	137	133	61	20	1
18.3	3	□	1830S-DIN	131	81	79	50	20	2
	3	□	1830S-DIN-C	131	81	79	50	20	1
	5	□	1830L-DIN	153	103	101	50	20	2
	5	□	1830L-DIN-C	153	103	101	50	20	1
	3	□	1830X3DB	160	99	96	61	20	1
	5	□	1830X5DB	198	137	133	61	20	1
18.4	3	□	1840S-DIN	131	81	79	50	20	2
	3	□	1840S-DIN-C	131	81	79	50	20	1
	5	□	1840L-DIN	153	103	101	50	20	2
	5	□	1840L-DIN-C	153	103	101	50	20	1
	3	□	1840X3DB	160	99	96	61	20	1
	5	□	1840X5DB	198	137	133	61	20	1
18.5	3	●	1850S-DIN	131	81	79	50	20	2
	3	□	1850S-DIN-C	131	81	79	50	20	1
	5	●	1850L-DIN	153	103	101	50	20	2
	5	□	1850L-DIN-C	153	103	101	50	20	1
	3	★	1850X3DB	160	99	96	61	20	1
	5	★	1850X5DB	198	137	133	61	20	1
18.6	3	□	1860S-DIN	131	81	79	50	20	2
	3	□	1860S-DIN-C	131	81	79	50	20	1
	5	□	1860L-DIN	153	103	101	50	20	2
	5	□	1860L-DIN-C	153	103	101	50	20	1
	3	□	1860X3DB	160	99	98	61	20	1
	5	□	1860X5DB	198	137	136	61	20	1
18.7	3	□	1870S-DIN	131	81	79	50	20	2
	3	□	1870S-DIN-C	131	81	79	50	20	1
	5	□	1870L-DIN	153	103	101	50	20	2
	5	□	1870L-DIN-C	153	103	101	50	20	1
	3	□	1870X3DB	160	99	98	61	20	1
	5	□	1870X5DB	198	137	136	61	20	1
18.8	3	□	1880S-DIN	131	81	79	50	20	2
	3	□	1880S-DIN-C	131	81	79	50	20	1
	5	□	1880L-DIN	153	103	101	50	20	2

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
18.8	5	□	MMS1880L-DIN-C	153	103	101	50	20	1
	3	□	1880X3DB	160	99	98	61	20	1
	5	□	1880X5DB	198	137	136	61	20	1
18.9	3	□	1890S-DIN	131	81	79	50	20	2
	3	□	1890S-DIN-C	131	81	79	50	20	1
	5	□	1890L-DIN	153	103	101	50	20	2
	5	□	1890L-DIN-C	153	103	101	50	20	1
	3	□	1890X3DB	160	99	98	61	20	1
	5	□	1890X5DB	198	137	136	61	20	1
19.0	3	●	1900S-DIN	131	81	79	50	20	2
	3	□	1900S-DIN-C	131	81	79	50	20	1
	5	●	1900L-DIN	153	103	101	50	20	2
	5	□	1900L-DIN-C	153	103	101	50	20	1
	3	★	1900X3DB	160	99	98	61	20	1
19.1	5	★	1900X5DB	198	137	136	61	20	1
	3	□	1910S-DIN	131	81	79	50	20	2
	3	□	1910S-DIN-C	131	81	79	50	20	1
	5	□	1910L-DIN	153	103	101	50	20	2
	5	□	1910L-DIN-C	153	103	101	50	20	1
19.2	3	□	1910X3DB	164	103	101	61	20	1
	5	□	1910X5DB	204	143	140	61	20	1
	3	□	1920S-DIN	131	81	79	50	20	2
	3	□	1920S-DIN-C	131	81	79	50	20	1
	5	□	1920L-DIN	153	103	101	50	20	2
19.3	5	□	1920L-DIN-C	153	103	101	50	20	1
	3	□	1920X3DB	164	103	101	61	20	1
	5	□	1920X5DB	204	143	140	61	20	1
	3	□	1930S-DIN	131	81	79	50	20	2
	3	□	1930S-DIN-C	131	81	79	50	20	1
19.4	5	□	1930L-DIN	153	103	101	50	20	2
	5	□	1930L-DIN-C	153	103	101	50	20	1
	3	□	1930X3DB	164	103	101	61	20	1
	5	□	1930X5DB	204	143	140	61	20	1
	3	□	1940S-DIN	131	81	79	50	20	2
19.5	3	□	1940S-DIN-C	131	81	79	50	20	1
	5	□	1940L-DIN	153	103	101	50	20	2
	5	□	1940L-DIN-C	153	103	101	50	20	1
	3	□	1940X3DB	164	103	101	61	20	1
	5	□	1940X5DB	204	143	140	61	20	1
19.6	3	●	1950S-DIN	131	81	79	50	20	2
	3	□	1950S-DIN-C	131	81	79	50	20	1
	5	●	1950L-DIN	153	103	101	50	20	2
	5	□	1950L-DIN-C	153	103	101	50	20	1
	3	★	1950X3DB	164	103	101	61	20	1
19.7	5	★	1950X5DB	204	143	140	61	20	1
	3	□	1960S-DIN	131	81	79	50	20	2
	3	□	1960S-DIN-C	131	81	79	50	20	1
	5	□	1960L-DIN	153	103	101	50	20	2
	5	□	1960L-DIN-C	153	103	101	50	20	1
19.8	3	□	1960X3DB	165	104	104	61	20	1
	5	□	1960X5DB	205	144	144	61	20	1



FORATURA (METALLO DURO)

MMS **NEW**

● Per la foratura efficiente e ad elevata precisione di acciaio inossidabile.

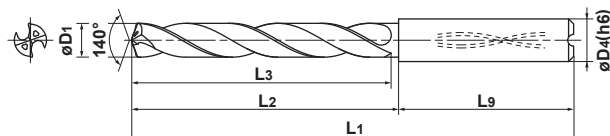


Acciaio al carbonio Acciaio legato	Acciaio temprato	Acciaio inossidabile	Ghisa	Lega leggera	Lega resistente al calore
		++			

		D1=3	3<D1≤6	6<D1≤10	10<D1≤18	18<D1≤20
Tolleranza D1 (mm)	Tipo DIN (m7)	+0.012 +0.002	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007	+0.029 +0.008
	Altri (h8)	0 -0.014	0 -0.018	0 -0.022	0 -0.027	0 -0.033
Tolleranza D4 (mm)			0 -0.008	0 -0.009	0 -0.011	0 -0.013



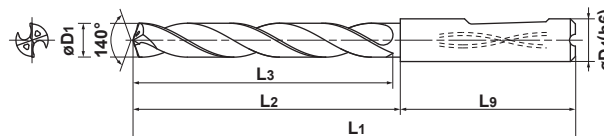
● Tipo 1 Codolo cilindrico



MMS---S/L-DIN-C (l/d 3-5)

MMS---3XDB/4XDB (l/d 3-5)

● Tipo 2 codolo Whistle Notch



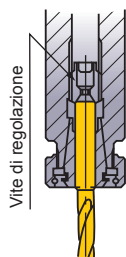
MMS---S/L-DIN (l/d 3-5)

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
19.7	3	□	MMS1970S-DIN	131	81	79	50	20	2
	3	□	1970S-DIN-C	131	81	79	50	20	1
	5	□	1970L-DIN	153	103	101	50	20	2
	5	□	1970L-DIN-C	153	103	101	50	20	1
	3	□	1970X3DB	165	104	104	61	20	1
	5	□	1970X5DB	205	144	144	61	20	1
19.8	3	□	1980S-DIN	131	81	79	50	20	2
	3	□	1980S-DIN-C	131	81	79	50	20	1
	5	□	1980L-DIN	153	103	101	50	20	2
	5	□	1980L-DIN-C	153	103	101	50	20	1
	3	□	1980X3DB	165	104	104	61	20	1
	5	□	1980X5DB	205	144	144	61	20	1

Diam. Punta D1 (mm)	Profondità foro (l/d)	Disponibilità DP7020	Codice di ordinazione	Dimensioni (mm)					Tipo
				L1	L2	L3	L9	D4	
19.9	3	□	MMS1990S-DIN	131	81	79	50	20	2
	3	□	1990S-DIN-C	131	81	79	50	20	1
	5	□	1990L-DIN	153	103	101	50	20	2
	5	□	1990L-DIN-C	153	103	101	50	20	1
	3	□	1990X3DB	165	104	104	61	20	1
	5	□	1990X5DB	205	144	144	61	20	1
20.0	3	●	2000S-DIN	131	81	79	50	20	2
	3	□	2000S-DIN-C	131	81	79	50	20	1
	5	●	2000L-DIN	153	103	101	50	20	2
	5	□	2000L-DIN-C	153	103	101	50	20	1
	3	★	2000X3DB	165	104	104	61	20	1
	5	★	2000X5DB	205	144	144	61	20	1

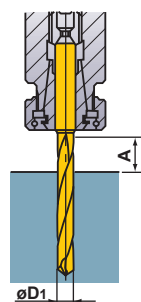
GUIDA OPERATIVA

Mandrino di tenuta



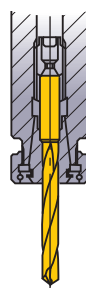
La ghiera reggispinta del mandrino blocca la punta in modo sicuro.

Lunghezza punta



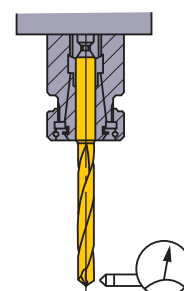
$A \geq D1 \times 1.5$

Montaggio punta



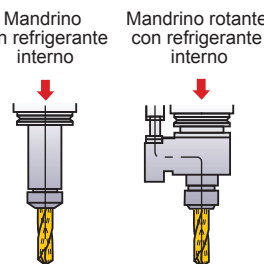
Non bloccare la punta sull'elica.

Tolleranza d'installazione



eccentricità $\leq 0.03\text{mm}$

Tipo con refrigerante interno

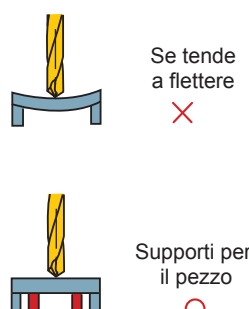


La pressione del refrigerante è di circa 0.5 MPa-7MPa.

Utilizzo del refrigerante

- 1) Particelle di polvere e sporizia possono ostruire i fori del passaggio refrigerante e impedire un flusso efficace. È consigliabile sostituire regolarmente il refrigerante.
- 2) Piccole particelle di sporco possono bloccare i fori di lubrificazione. Utilizzare un filtro come misura preventiva. Con punte di diametro ridotto, scegliere un filtraggio fine.

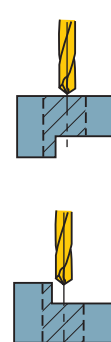
Pezzi sottili



Se tende a flettere

Supporti per il pezzo

Taglio interrotto



Un Processo

- ① Ridurre l'avanzamento quando si fora sulla parte con taglio interrotto. Richiede una precedente lavorazione

- ① Praticare un'impronta piana con fresa integrale prima della foratura.

● : Inventario mantenuto. ★ : Inventario mantenuto in Giappone.

□ : Non a magazzino, prodotti solo su ordinazione.

PARAMETRI DI TAGLIO CONSIGLIATI

Materiale da lavorare	No	Durezza	Velocità di taglio (m/min)	Avanzamento (mm/giro)			
				Diametro della punta			
				φ 3.0	φ 4.0	φ 6.0	φ 8.0
Acciai inossidabili austenitici e martensitici	1	≤200HB	60—80—100	0.08—0.13—0.18	0.10—0.15—0.20	0.12—0.17—0.22	0.14—0.19—0.23
	2	>200HB	40—60—80	0.08—0.10—0.18	0.10—0.12—0.20	0.12—0.15—0.22	0.14—0.17—0.23
Acciaio inossidabile PH	3	<450HB	40—50—80	0.08—0.10—0.18	0.10—0.12—0.20	0.12—0.15—0.22	0.14—0.17—0.23
Acciaio inossidabile austenitico	4	≤200HB	60—80—100	0.08—0.13—0.18	0.10—0.15—0.20	0.12—0.17—0.22	0.14—0.19—0.23
	5	>200HB	40—60—80	0.08—0.10—0.18	0.10—0.12—0.20	0.12—0.15—0.22	0.14—0.17—0.23
Acciaio duplex	6	135HB—275HB	40—50—80	0.08—0.10—0.18	0.10—0.12—0.20	0.12—0.15—0.22	0.14—0.17—0.23

Materiale da lavorare	No	Durezza	Velocità di taglio (m/min)	Avanzamento (mm/giro)			
				Diametro della punta			
				φ 10.0	φ 12.0	φ 16.0	φ 20.0
Acciai inossidabili austenitici e martensitici	1	≤200HB	50—60—70	0.15—0.20—0.24	0.16—0.21—0.25	0.17—0.22—0.26	0.18—0.23—0.28
	2	>200HB	40—50—60	0.15—0.18—0.24	0.16—0.19—0.25	0.17—0.20—0.26	0.18—0.21—0.26
Acciaio inossidabile PH	3	<450HB	30—40—50	0.15—0.18—0.24	0.16—0.19—0.25	0.17—0.20—0.26	0.18—0.21—0.28
Acciaio inossidabile austenitico	4	≤200HB	50—60—70	0.15—0.20—0.24	0.16—0.21—0.25	0.17—0.22—0.26	0.18—0.23—0.28
	5	>200HB	40—50—60	0.15—0.18—0.24	0.16—0.19—0.25	0.17—0.20—0.26	0.18—0.21—0.28
Acciaio duplex	6	135HB—275HB	30—40—50	0.15—0.18—0.24	0.16—0.19—0.25	0.17—0.20—0.26	0.18—0.21—0.28

(Nota 1) Per una foratura stabile consigliamo di aggiungere refrigerante ad alta pressione.

(Nota 2) Come refrigerante consigliamo un'emulsione.

(Nota 3) In caso di utilizzo di refrigeranti non solubili in acqua consigliamo di ridurre il numero di giri del 10—20%.

TABELLA DI CONFRONTO PER ACCIAI INOSSIDABILI

Materiale da lavorare	No	Germania		USA	Giappone
		W-no.	DIN	AIS/SAE	JIS
Acciai inossidabili austenitici e martensitici	1	1.4005	X12CrS3	416	SUS416
		1.4006	X10Cr13	410	SUS410
		1.4016	X6Cr17	430	SUS430
		1.4113	X6CrMo17	434	SUS434
		1.4510	X6CrTi17	430Ti	SUS430LX
	2	1.4512	X6CrTi12	409	
		1.4021	X20Cr13	420	SUS420J1
		1.4057	X20CrNi17-2	431	SUS431
		1.4028	X30Cr13	420	SUS420J2
		1.4125	X10CrMo17	440C	SUS440C
Acciaio inossidabile PH	3	1.4542	X5CrNiCuNb16 4	630 (17-4PH)	SUS630
		1.4545		S15500 (15-5PH)	
		1.4568	X7CrNiAl17 7	631 (17-7PH)	SUS631
Acciaio inossidabile austenitico	4	1.4301	X5CrNi18 10	304	SUS304
		1.4303	X5CrNi8-12	305	SUS305
		1.4305	X12CrNiS18-9	303	SUS303
		1.4307	X2CrNi19-11	304L	SUS304L
		1.4401	X5CrNiMo17 12 2	316	SUS316
	5	1.4311	X2CrNi18 10	304LN	SUS304LN
		1.4404	X2CrNiMo17 12 2	316L	SUS316L
		1.4406	X2CrNiMoN17 12 2	316LN	SUS316LN
		1.4435	X2CrNiMo18 14 3		SUS316L
		1.4438	X2CrNiMo18 15 4	317L	SUS317L
		1.4529	X1NiCrMoCuN25 20 7	N08926	
		1.4541	X6CrNiTi18-10	321	SUS321
		1.4550	X6CrNiNb18-10	347	SUS347
		1.4571	X6CrNiMoTi17 12 2	316Ti	SUS316Ti
		1.4362	X2CrNiN23 4		
Acciaio duplex	6	1.4410	X2CrNiMoN25 7 4	S32750	SCS14A
		1.4460	X3CrNiMoN27 5 2	329	SUS329J1
		1.4462	X2CrNiMoN22 5 3	S31803	SUS329J3L