
SERIE DI PUNTE MS

PUNTE PER LAVORAZIONI UNIVERSALI



SERIE DI PUNTE MS

PUNTE INTEGRALI

MS



Una nuova serie di utensili di qualità per ottimizzare costi e prestazioni. Un'affidabile combinazione di tecnologia integrale rivestimento per le esigenze moderne in merito al taglio dei metalli.



Le soluzioni ai problemi di taglio basate su decenni di esperienza hanno consentito di offrire una serie di utensili completa che ottimizza al meglio i costi.

Mitsubishi
S Brand

La nostra attenzione alla qualità e all'affidabilità viene riproposta in questa nuova serie di punte MS prodotte in conformità agli standard DIN 6537.

CARATTERISTICHE

PUNTE INTEGRALI

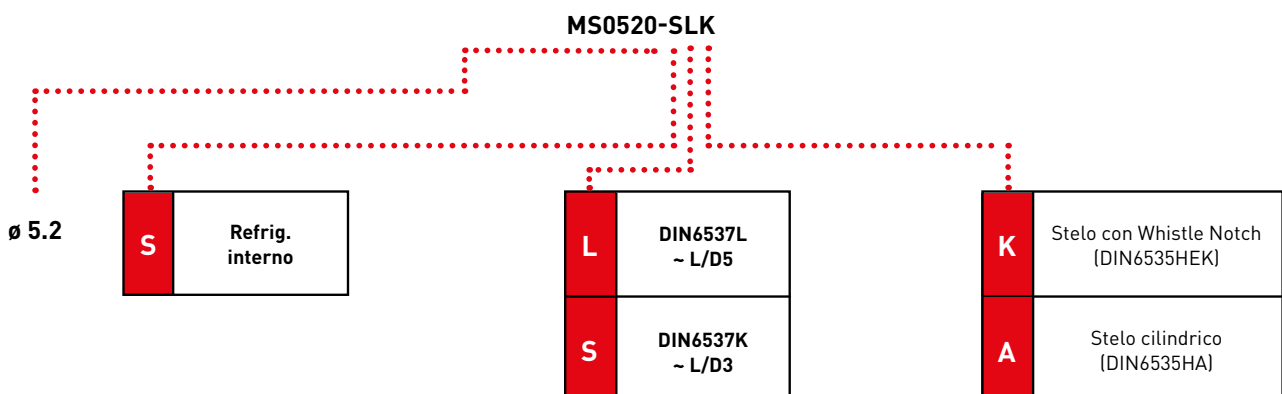


- Refrigerante interno
- Lunghezza di taglio 3 x D e 5 x D
- Per una vasta gamma di materiali
- Tipi di stelo cilindrico e con Whistle Notch
- Carburo cementato micrograno extra fine
- Rivestimento PVD per una lunga durata dell'utensile



DESCRIZIONE CODICE DI ORDINAZIONE

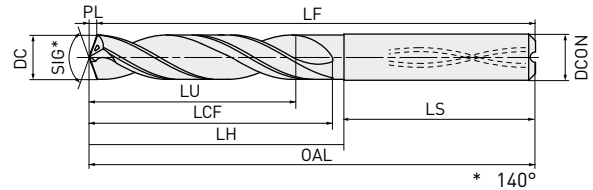
MS○○○○○-S○○ (refrigerante interno)



SERIE DI PUNTE MS



CILINDRICO



DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 14
0.016	0.016	0.021	0.025
+0.004	+0.004	+0.006	+0.007

Codice di ordinazione	Disponibilità	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0300-SSA	●	3.0	3	15	20	25	62	61	0.5	36	6
MS0300-SLA	●		5	23	28	29	66	65	0.5	36	6
MS0310-SSA	●	3.1	3	14.9	20	25	62	61	0.6	36	6
MS0310-SLA	●		5	22.9	28	29	66	65	0.6	36	6
MS0330-SSA	●	3.3	3	14.7	20	25	62	61	0.6	36	6
MS0330-SLA	●		5	22.7	28	29	66	65	0.6	36	6
MS0340-SSA	●	3.4	3	14.5	20	25	62	61	0.6	36	6
MS0340-SLA	●		5	22.5	28	29	66	65	0.6	36	6
MS0350-SSA	●	3.5	3	14.4	20	25	62	61	0.6	36	6
MS0350-SLA	●		5	22.4	28	29	66	65	0.6	36	6
MS0370-SSA	●	3.7	3	14.1	20	25	62	61	0.7	36	6
MS0370-SLA	●		5	22.1	28	29	66	65	0.7	36	6
MS0380-SSA	●	3.8	3	18	24	29	66	65	0.7	36	6
MS0380-SLA	●		5	30	36	37	74	73	0.7	36	6
MS0390-SSA	●	3.9	3	17.9	24	29	66	65	0.7	36	6
MS0390-SLA	●		5	29.9	36	37	74	73	0.7	36	6
MS0400-SSA	●	4.0	3	17.7	24	29	66	65	0.7	36	6
MS0400-SLA	●		5	29.7	36	37	74	73	0.7	36	6
MS0410-SSA	●	4.1	3	17.6	24	29	66	65	0.7	36	6
MS0410-SLA	●		5	29.6	36	37	74	73	0.7	36	6
MS0420-SSA	●	4.2	3	17.5	24	29	66	65	0.8	36	6
MS0420-SLA	●		5	29.5	36	37	74	73	0.8	36	6
MS0430-SSA	●	4.3	3	17.3	24	29	66	65	0.8	36	6
MS0430-SLA	●		5	29.3	36	37	74	73	0.8	36	6
MS0450-SSA	●	4.5	3	17.1	24	29	66	65	0.8	36	6
MS0450-SLA	●		5	29.1	36	37	74	73	0.8	36	6
MS0460-SSA	●	4.6	3	16.9	24	29	66	65	0.8	36	6
MS0460-SLA	●		5	28.9	36	37	74	73	0.8	36	6
MS0480-SSA	●	4.8	3	20.7	28	29	66	65	0.9	36	6
MS0480-SLA	●		5	36.7	44	45	74	81	0.9	36	6
MS0500-SSA	●	5.0	3	20.4	30	29	66	65	0.9	36	6
MS0500-SLA	●		5	36.4	46	45	82	81	0.9	36	6

SERIE DI PUNTE MS - CILINDRICO

Codice di ordinazione	Disponibilità	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0510-SSA	●	5.1	3	20.3	30	29	66	65	0.9	36	6
MS0510-SLA	●		5	36.3	46	45	82	81	0.9	36	6
MS0520-SSA	●	5.2	3	20.1	30	29	66	65	0.9	36	6
MS0520-SLA	●		5	36.1	46	45	82	81	0.9	36	6
MS0550-SSA	●	5.5	3	19.8	30	29	66	65	1	36	6
MS0550-SLA	●		5	35.8	46	45	82	81	1	36	6
MS0560-SSA	●	5.6	3	19.6	30	29	66	65	1	36	6
MS0560-SLA	●		5	35.6	46	45	82	81	1	36	6
MS0570-SSA	●	5.7	3	19.5	30	29	66	65	1	36	6
MS0570-SLA	●		5	35.5	46	45	82	81	1	36	6
MS0580-SSA	●	5.8	3	19.4	30	29	66	65	1.1	36	6
MS0580-SLA	●		5	35.4	46	45	82	81	1.1	36	6
MS0600-SSA	●	6.0	3	19.1	30	29	66	65	1.1	36	6
MS0600-SLA	●		5	35.1	46	45	82	81	1.1	36	6
MS0610-SSA	●	6.1	3	25	34	42	79	78	1.1	36	8
MS0610-SLA	●		5	44	53	54	91	90	1.1	36	8
MS0620-SSA	●	6.2	3	24.8	34	42	79	78	1.1	36	8
MS0620-SLA	●		5	43.8	53	54	91	90	1.1	36	8
MS0650-SSA	●	6.5	3	24.4	34	42	79	78	1.2	36	8
MS0650-SLA	●		5	43.4	53	54	91	90	1.2	36	8
MS0660-SSA	●	6.6	3	24.3	34	42	79	78	1.2	36	8
MS0660-SLA	●		5	43.3	53	54	91	90	1.2	36	8
MS0680-SSA	●	6.8	3	24	34	42	79	78	1.2	36	8
MS0680-SLA	●		5	43	53	54	91	90	1.2	36	8
MS0690-SSA	●	6.9	3	23.9	34	42	79	78	1.3	36	8
MS0690-SLA	●		5	42.9	53	54	91	90	1.3	36	8
MS0700-SSA	●	7.0	3	23.8	34	42	79	78	1.3	36	8
MS0700-SLA	●		5	42.8	53	54	91	90	1.3	36	8
MS0730-SSA	●	7.3	3	30.4	34	42	79	78	1.3	36	8
MS0730-SLA	●		5	42.4	53	54	91	90	1.3	36	8
MS0740-SSA	●	7.4	3	30.2	41	42	79	78	1.3	36	8
MS0740-SLA	●		5	42.2	53	54	91	90	1.3	36	8
MS0750-SSA	●	7.5	3	30.1	41	42	79	78	1.4	36	8
MS0750-SLA	●		5	42.1	53	54	91	90	1.4	36	8
MS0780-SSA	●	7.8	3	29.7	41	42	79	78	1.4	36	8
MS0780-SLA	●		5	41.7	53	54	91	90	1.4	36	8
MS0800-SSA	●	8.0	3	29.5	41	42	79	78	1.5	36	10
MS0800-SLA	●		5	41.5	53	54	91	90	1.5	36	10
MS0830-SSA	●	8.3	3	34.1	47	48	89	87	1.5	40	10
MS0830-SLA	●		5	48.1	61	62	103	101	1.5	40	10
MS0850-SSA	●	8.5	3	33.8	47	48	89	87	1.5	40	10
MS0850-SLA	●		5	47.8	61	62	103	101	1.5	40	10
MS0860-SSA	●	8.6	3	33.7	47	48	89	87	1.6	40	10
MS0860-SLA	●		5	47.7	61	62	103	101	1.6	40	10
MS0870-SSA	●	8.7	3	33.5	47	48	89	87	1.6	40	10
MS0870-SLA	●		5	47.5	61	62	103	101	1.6	40	10
MS0880-SSA	●	8.8	3	33.4	47	48	89	87	1.6	40	10
MS0880-SLA	●		5	47.4	61	62	103	101	1.6	40	10
MS0900-SSA	●	9.0	3	33.3	47	48	89	87	1.6	40	10
MS0900-SLA	●		5	47.3	61	62	103	101	1.6	40	10

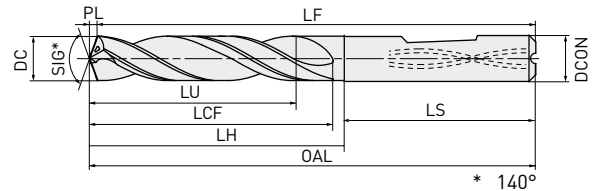
SERIE DI PUNTE MS - CILINDRICO

Codice di ordinazione	Disponibilità	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0930-SSA	●	9.3	3	33.1	47	48	89	87	1.6	40	10
MS0930-SLA	●		5	47.1	61	62	103	101	1.6	40	10
MS0950-SSA	●	9.5	3	32.5	47	48	89	87	1.7	40	10
MS0950-SLA	●		5	46.5	61	62	103	101	1.7	40	10
MS0980-SSA	●	9.8	3	32.1	47	48	89	87	1.8	40	10
MS0980-SLA	●		5	46.1	61	62	103	101	1.8	40	10
MS1000-SSA	●	10.0	3	31.8	47	48	89	87	1.8	40	10
MS1000-SLA	●		5	45.8	61	62	103	101	1.8	40	10
MS1020-SSA	●	10.2	3	39.6	55	56	102	100	1.9	45	12
MS1020-SLA	●		5	55.6	71	72	118	116	1.9	45	12
MS1030-SSA	●	10.3	3	39.4	55	56	102	100	1.9	45	12
MS1030-SLA	●		5	55.4	71	72	118	116	1.9	45	12
MS1040-SSA	●	10.4	3	39.3	55	56	102	100	1.9	45	12
MS1040-SLA	●		5	55.3	71	72	118	116	1.9	45	12
MS1050-SSA	●	10.5	3	39.2	55	56	102	100	1.9	45	12
MS1050-SLA	●		5	55.2	71	72	118	116	1.9	45	12
MS1070-SSA	●	10.7	3	38.9	55	56	102	100	1.9	45	12
MS1070-SLA	●		5	54.9	71	72	118	116	1.9	45	12
MS1080-SSA	●	10.8	3	38.8	55	56	102	100	2	45	12
MS1080-SLA	●		5	54.8	71	72	118	116	2	45	12
MS1100-SSA	●	11.0	3	38.5	55	56	102	100	2	45	12
MS1100-SLA	●		5	54.5	71	72	118	116	2	45	12
MS1120-SSA	●	11.2	3	38.2	55	56	102	100	2	45	12
MS1120-SLA	●		5	54.2	71	72	118	116	2	45	12
MS1140-SSA	●	11.4	3	38	55	56	102	100	2.1	45	12
MS1140-SLA	●		5	54	71	72	118	116	2.1	45	12
MS1150-SSA	●	11.5	3	37.8	55	56	102	100	2.1	45	12
MS1150-SLA	●		5	53.8	71	72	118	116	2.1	45	12
MS1170-SSA	●	11.7	3	37.6	55	56	102	100	2.1	45	12
MS1170-SLA	●		5	53.6	71	72	118	116	2.1	45	12
MS1180-SSA	●	11.8	3	37.4	55	56	102	100	2.1	45	12
MS1180-SLA	●		5	53.4	71	72	118	116	2.1	45	12
MS1200-SSA	●	12.0	3	37.2	55	56	102	100	2.2	45	12
MS1200-SLA	●		5	53.2	71	72	118	116	2.2	45	12
MS1250-SSA	●	12.5	3	41.5	60	61	107	105	2.3	45	14
MS1250-SLA	●		5	58.5	77	78	124	122	2.3	45	14
MS1260-SSA	●	12.6	3	41.4	60	61	107	105	2.3	45	14
MS1260-SLA	●		5	58.4	77	78	124	122	2.3	45	14
MS1270-SSA	●	12.7	3	41.3	60	61	107	105	2.3	45	14
MS1270-SLA	●		5	58.3	77	78	124	122	2.3	45	14
MS1300-SSA	●	13.0	3	40.9	60	61	107	105	2.4	45	14
MS1300-SLA	●		5	57.9	77	78	124	122	2.4	45	14
MS1350-SSA	●	13.5	3	40.2	60	61	107	105	2.5	45	14
MS1350-SLA	●		5	57.2	77	78	124	122	2.5	45	14
MS1370-SSA	●	13.7	3	39.9	60	61	107	105	2.5	45	14
MS1370-SLA	●		5	56.9	77	78	124	122	2.5	45	14
MS1400-SSA	●	14.0	3	39.5	60	62	107	105	2.5	45	14
MS1400-SLA	●		5	56.5	77	79	124	122	2.5	45	14

SERIE DI PUNTE MS



WHISTLE NOTCH



DC ≤ 3	3 < DC ≤ 6	6 < DC ≤ 10	10 < DC ≤ 14
0.016	0.016	0.021	0.025
+0.004	+0.004	+0.006	+0.007

Codice di ordinazione	Disponibilità	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0300-SSK	●	3.0	3	15	20	25	62	61	0.5	36	6
MS0300-SLK	●		5	23	28	29	66	65	0.5	36	6
MS0310-SSK	●	3.1	3	14.9	20	25	62	61	0.6	36	6
MS0310-SLK	●		5	22.9	28	29	66	65	0.6	36	6
MS0330-SSK	●	3.3	3	14.7	20	25	62	61	0.6	36	6
MS0330-SLK	●		5	22.7	28	29	66	65	0.6	36	6
MS0340-SSK	●	3.4	3	14.5	20	25	62	61	0.6	36	6
MS0340-SLK	●		5	22.5	28	29	66	65	0.6	36	6
MS0350-SSK	●	3.5	3	14.4	20	25	62	61	0.6	36	6
MS0350-SLK	●		5	22.4	28	29	66	65	0.6	36	6
MS0370-SSK	●	3.7	3	14.1	20	25	62	61	0.7	36	6
MS0370-SLK	●		5	22.1	28	29	66	65	0.7	36	6
MS0380-SSK	●	3.8	3	18	24	29	66	65	0.7	36	6
MS0380-SLK	●		5	30	36	37	74	73	0.7	36	6
MS0390-SSK	●	3.9	3	17.9	24	29	66	65	0.7	36	6
MS0390-SLK	●		5	29.9	36	37	74	73	0.7	36	6
MS0400-SSK	●	4.0	3	17.7	24	29	66	65	0.7	36	6
MS0400-SLK	●		5	29.7	36	37	74	73	0.7	36	6
MS0410-SSK	●	4.1	3	17.6	24	29	66	65	0.7	36	6
MS0410-SLK	●		5	29.6	36	37	74	73	0.7	36	6
MS0420-SSK	●	4.2	3	17.5	24	29	66	65	0.8	36	6
MS0420-SLK	●		5	29.5	36	37	74	73	0.8	36	6
MS0430-SSK	●	4.3	3	17.3	24	29	66	65	0.8	36	6
MS0430-SLK	●		5	29.3	36	37	74	73	0.8	36	6
MS0450-SSK	●	4.5	3	17.1	24	29	66	65	0.8	36	6
MS0450-SLK	●		5	29.1	36	37	74	73	0.8	36	6
MS0460-SSK	●	4.6	3	16.9	24	29	66	65	0.8	36	6
MS0460-SLK	●		5	28.9	36	37	74	73	0.8	36	6
MS0480-SSK	●	4.8	3	20.7	28	29	66	65	0.9	36	6
MS0480-SLK	●		5	36.7	44	45	74	81	0.9	36	6
MS0500-SSK	●	5.0	3	20.4	30	29	66	65	0.9	36	6
MS0500-SLK	●		5	36.4	46	45	82	81	0.9	36	6

SERIE DI PUNTE MS - WHISTLE NOTCH

Codice di ordinazione	Disponibilità	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0510-SSK	●	5.1	3	20.3	30	29	66	65	0.9	36	6
MS0510-SLK	●		5	36.3	46	45	82	81	0.9	36	6
MS0520-SSK	●	5.2	3	20.1	30	29	66	65	0.9	36	6
MS0520-SLK	●		5	36.1	46	45	82	81	0.9	36	6
MS0550-SSK	●	5.5	3	19.8	30	29	66	65	1	36	6
MS0550-SLK	●		5	35.8	46	45	82	81	1	36	6
MS0560-SSK	●	5.6	3	19.6	30	29	66	65	1	36	6
MS0560-SLK	●		5	35.6	46	45	82	81	1	36	6
MS0570-SSK	●	5.7	3	19.5	30	29	66	65	1	36	6
MS0570-SLK	●		5	35.5	46	45	82	81	1	36	6
MS0580-SSK	●	5.8	3	19.4	30	29	66	65	1.1	36	6
MS0580-SLK	●		5	35.4	46	45	82	81	1.1	36	6
MS0600-SSK	●	6.0	3	19.1	30	29	66	65	1.1	36	6
MS0600-SLK	●		5	35.1	46	45	82	81	1.1	36	6
MS0610-SSK	●	6.1	3	25	34	42	79	78	1.1	36	8
MS0610-SLK	●		5	44	53	54	91	90	1.1	36	8
MS0620-SSK	●	6.2	3	24.8	34	42	79	78	1.1	36	8
MS0620-SLK	●		5	43.8	53	54	91	90	1.1	36	8
MS0650-SSK	●	6.5	3	24.4	34	42	79	78	1.2	36	8
MS0650-SLK	●		5	43.4	53	54	91	90	1.2	36	8
MS0660-SSK	●	6.6	3	24.3	34	42	79	78	1.2	36	8
MS0660-SLK	●		5	43.3	53	54	91	90	1.2	36	8
MS0680-SSK	●	6.8	3	24	34	42	79	78	1.2	36	8
MS0680-SLK	●		5	43	53	54	91	90	1.2	36	8
MS0690-SSK	●	6.9	3	23.9	34	42	79	78	1.3	36	8
MS0690-SLK	●		5	42.9	53	54	91	90	1.3	36	8
MS0700-SSK	●	7.0	3	23.8	34	42	79	78	1.3	36	8
MS0700-SLK	●		5	42.8	53	54	91	90	1.3	36	8
MS0730-SSK	●	7.3	3	30.4	34	42	79	78	1.3	36	8
MS0730-SLK	●		5	42.4	53	54	91	90	1.3	36	8
MS0740-SSK	●	7.4	3	30.2	41	42	79	78	1.3	36	8
MS0740-SLK	●		5	42.2	53	54	91	90	1.3	36	8
MS0750-SSK	●	7.5	3	30.1	41	42	79	78	1.4	36	8
MS0750-SLK	●		5	42.1	53	54	91	90	1.4	36	8
MS0780-SSK	●	7.8	3	29.7	41	42	79	78	1.4	36	8
MS0780-SLK	●		5	41.7	53	54	91	90	1.4	36	8
MS0800-SSK	●	8.0	3	29.5	41	42	79	78	1.5	36	10
MS0800-SLK	●		5	41.5	53	54	91	90	1.5	36	10
MS0830-SSK	●	8.3	3	34.1	47	48	89	87	1.5	40	10
MS0830-SLK	●		5	48.1	61	62	103	101	1.5	40	10
MS0850-SSK	●	8.5	3	33.8	47	48	89	87	1.5	40	10
MS0850-SLK	●		5	47.8	61	62	103	101	1.5	40	10
MS0860-SSK	●	8.6	3	33.7	47	48	89	87	1.6	40	10
MS0860-SLK	●		5	47.7	61	62	103	101	1.6	40	10
MS0870-SSK	●	8.7	3	33.5	47	48	89	87	1.6	40	10
MS0870-SLK	●		5	47.5	61	62	103	101	1.6	40	10
MS0880-SSK	●	8.8	3	33.4	47	48	89	87	1.6	40	10
MS0880-SLK	●		5	47.4	61	62	103	101	1.6	40	10
MS0900-SSK	●	9.0	3	33.3	47	48	89	87	1.6	40	10
MS0900-SLK	●		5	47.3	61	62	103	101	1.6	40	10

SERIE DI PUNTE MS - WHISTLE NOTCH

Codice di ordinazione	Disponibilità	DC	L/D	LU	LCF	LH	OAL	LF	PL	LS	DCON
MS0930-SSK	●	9.3	3	33.1	47	48	89	87	1.6	40	10
MS0930-SLK	●		5	47.1	61	62	103	101	1.6	40	10
MS0950-SSK	●	9.5	3	32.5	47	48	89	87	1.7	40	10
MS0950-SLK	●		5	46.5	61	62	103	101	1.7	40	10
MS0980-SSK	●	9.8	3	32.1	47	48	89	87	1.8	40	10
MS0980-SLK	●		5	46.1	61	62	103	101	1.8	40	10
MS1000-SSK	●	10.0	3	31.8	47	48	89	87	1.8	40	10
MS1000-SLK	●		5	45.8	61	62	103	101	1.8	40	10
MS1020-SSK	●	10.2	3	39.6	55	56	102	100	1.9	45	12
MS1020-SLK	●		5	55.6	71	72	118	116	1.9	45	12
MS1030-SSK	●	10.3	3	39.4	55	56	102	100	1.9	45	12
MS1030-SLK	●		5	55.4	71	72	118	116	1.9	45	12
MS1040-SSK	●	10.4	3	39.3	55	56	102	100	1.9	45	12
MS1040-SLK	●		5	55.3	71	72	118	116	1.9	45	12
MS1050-SSK	●	10.5	3	39.2	55	56	102	100	1.9	45	12
MS1050-SLK	●		5	55.2	71	72	118	116	1.9	45	12
MS1070-SSK	●	10.7	3	38.9	55	56	102	100	1.9	45	12
MS1070-SLK	●		5	54.9	71	72	118	116	1.9	45	12
MS1080-SSK	●	10.8	3	38.8	55	56	102	100	2	45	12
MS1080-SLK	●		5	54.8	71	72	118	116	2	45	12
MS1100-SSK	●	11.0	3	38.5	55	56	102	100	2	45	12
MS1100-SLK	●		5	54.5	71	72	118	116	2	45	12
MS1120-SSK	●	11.2	3	38.2	55	56	102	100	2	45	12
MS1120-SLK	●		5	54.2	71	72	118	116	2	45	12
MS1140-SSK	●	11.4	3	38	55	56	102	100	2.1	45	12
MS1140-SLK	●		5	54	71	72	118	116	2.1	45	12
MS1150-SSK	●	11.5	3	37.8	55	56	102	100	2.1	45	12
MS1150-SLK	●		5	53.8	71	72	118	116	2.1	45	12
MS1170-SSK	●	11.7	3	37.6	55	56	102	100	2.1	45	12
MS1170-SLK	●		5	53.6	71	72	118	116	2.1	45	12
MS1180-SSK	●	11.8	3	37.4	55	56	102	100	2.1	45	12
MS1180-SLK	●		5	53.4	71	72	118	116	2.1	45	12
MS1200-SSK	●	12.0	3	37.2	55	56	102	100	2.2	45	12
MS1200-SLK	●		5	53.2	71	72	118	116	2.2	45	12
MS1250-SSK	●	12.5	3	41.5	60	61	107	105	2.3	45	14
MS1250-SLK	●		5	58.5	77	78	124	122	2.3	45	14
MS1260-SSK	●	12.6	3	41.4	60	61	107	105	2.3	45	14
MS1260-SLK	●		5	58.4	77	78	124	122	2.3	45	14
MS1270-SSK	●	12.7	3	41.3	60	61	107	105	2.3	45	14
MS1270-SLK	●		5	58.3	77	78	124	122	2.3	45	14
MS1300-SSK	●	13.0	3	40.9	60	61	107	105	2.4	45	14
MS1300-SLK	●		5	57.9	77	78	124	122	2.4	45	14
MS1350-SSK	●	13.5	3	40.2	60	61	107	105	2.5	45	14
MS1350-SLK	●		5	57.2	77	78	124	122	2.5	45	14
MS1370-SSK	●	13.7	3	39.9	60	61	107	105	2.5	45	14
MS1370-SLK	●		5	56.9	77	78	124	122	2.5	45	14
MS1400-SSK	●	14.0	3	39.5	60	62	107	105	2.5	45	14
MS1400-SLK	●		5	56.5	77	79	124	122	2.5	45	14

SERIE DI PUNTE MS

CONDIZIONI DI TAGLIO RACCOMANDATE

Materiale	Durezza	Res. alla trazione	Ø 3.0 - 5.9		Ø 6.0 - 9.9		Ø 10.0 - 14.0		
			Vc	f	Vc	f	Vc	f	
P	Non legato zolfo ≤0.25%C	150 HB ricotto	<500	100	0.18	110	0.25	130	0.30
	Acciaio al fosforo ≤0.25%C	200 HB ricotto	-680	100	0.18	110	0.25	130	0.30
	Acciaio al carbonio ≤0.55%C	275 HB temprato	>800	80	0.18	90	0.25	100	0.30
	Acciaio temprato ≤0.55%C	300 HB ricotto	-680	60	0.18	70	0.25	80	0.30
	Acciaio fuso/ Fuso in getti	350 HB temprato	>800	50	0.15	60	0.20	70	0.25
	Acciaio a bassa lega/fuso	<200 HB ricotto	<680	50	0.18	80	0.25	80	0.30
	Acciaio per molle, nitrurato	250 HB temprato	850	60	0.18	70	0.25	80	0.30
	Acciaio temprato	>250 HB temprato	>850	60	0.18	70	0.25	80	0.30
	Acciaio cuscinetti, acciaio fuso	>300 HB temprato	>1000	50	0.15	60	0.20	70	0.30
	Acc. ad alta lega resist. al calore	<200 HB ricotto	<680	50	0.15	55	0.20	60	0.25
	Acciaio per valvole	250 HB temprato	850	45	0.15	50	0.20	55	0.25
	Acciaio trafilato	>250 HB temprato	>850	50	0.18	55	0.20	60	0.25
	Acciaio fuso	>300 HB temprato	>1000	45	0.15	50	0.20	55	0.25
	M	Acciaio inossidabile	200 HB ferrit./mart.	680	45	0.15	50	0.20	60
Acciaio resistente al calore		250 HB martensite	850	45	0.15	50	0.20	60	0.25
Acciaio fuso		230 HB austenitico	-950	45	0.15	50	0.20	60	0.25
K	Ghisa laminata	<180 HB ferritico	100 - 400	100	0.20	100	0.25	110	0.30
	Grafite	220 HB perlitico	100 - 400	90	0.20	90	0.25	100	0.30
	Ghisa sferoide	<180 HB ferritico	400 - 800	80	0.20	80	0.25	90	0.30
	Ghisa duttile	250 HB perlitico	400 - 800	80	0.20	80	0.25	90	0.30
	Temperata e ghisa	<180 HB ferritico	350 - 700	50	0.20	65	0.20	75	0.25
	Ghisa, nera	220 HB perlitico	350 - 700	50	0.15	60	0.20	70	0.22

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