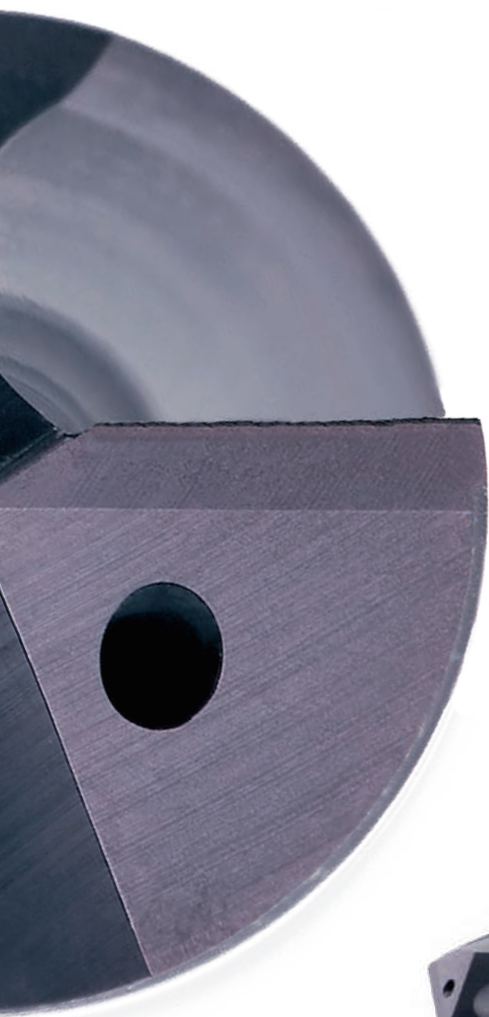


# MS BORRSERIE

BELAGDA HÅRDMETALLBORRAR MED  
INVÄNDIGA KYLKANALER



**Colly**

ETT FÖRETAG I INDUSTRIN

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**MITSUBISHI**  
MITSUBISHI MATERIALS

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# MS BORR

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## SOLID HÅRDMETALL

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MS är ett nytt borrarconcept med överlägset förhållandet mellan kostnad och prestanda. En mångsidig kombination av pålitligt hårdmetalls substrat och beläggningsteknik för den moderna verkstadens behov.

Kunnande som byggts upp över flera decennier ger oss möjligheten att erbjuda ett omfattande och kostnadseffektivt verktygsprogram.



Verktygen är belagda och finns med invändiga kylkanaler för borrhjup mellan 3 – 5 x D. Tillverkningen sker enligt DIN 6537.

# EGENSKAPER

## SOLID HÅRDMETALL



- Invändiga kylkanaler
- 3xD och 5xD skärlängd
- Stark skärgeometri
- Brett användningsområde
- Whistle notch och cylindriska skaft
- Finkorning (super micro grain) hårdmetall
- PVD beläggning för ökad slitstyrka



### ARTIKELNUMMER BESKRIVNING

MS○○○○○-S○○○ (Invändig kylning)

### MS0520-SLK

ø 5.2

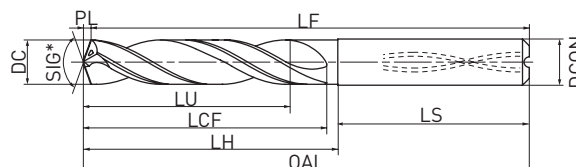
S	Invändig kylning	L	DIN6537L ~ 5 x D	K	Whistle Notch skaft (DIN6535HEK)
		S	DIN6537K ~ 3 x D	A	Cylindriskt skaft (DIN6535HA)

# MS BORR



D Tolerans	D≤3.0	3.0<D≤6.0	6.0<D≤10.0	10.0<D≤14.0
m7	+0.016	+0.016	+0.021	+0.025
	+0.004	+0.004	+0.006	+0.007

MS○○○○○-S○○○ (Invändig kylning)



DC	Artikelnummer	L x DC	Kylning Inv./Utv.	Skafttyp	OAL	LU	LCF	LH	LF	PL	LS	DCON
3.0	MS0300-SSA	-3		Cylindrisk	62	15	20	25	61	0.5	36	6
	MS0300-SSK	-3		Whistle notch	62	15	20	25	61	0.5	36	6
	MS0300-SLA	-5		Cylindrisk	66	23	28	29	65	0.5	36	6
	MS0300-SLK	-5		Whistle notch	66	23	28	29	65	0.5	36	6
3.1	MS0310-SSA	-3		Cylindrisk	62	14.9	20	25	61	0.6	36	6
	MS0310-SSK	-3		Whistle notch	62	14.9	20	25	61	0.6	36	6
	MS0310-SLA	-5		Cylindrisk	66	22.9	28	29	65	0.6	36	6
	MS0310-SLK	-5		Whistle notch	66	22.9	28	29	65	0.6	36	6
3.3	MS0330-SSA	-3		Cylindrisk	62	14.7	20	25	61	0.6	36	6
	MS0330-SSK	-3		Whistle notch	62	14.7	20	25	61	0.6	36	6
	MS0330-SLA	-5		Cylindrisk	66	22.7	28	29	65	0.6	36	6
	MS0330-SLK	-5		Whistle notch	66	22.7	28	29	65	0.6	36	6
3.4	MS0340-SSA	-3		Cylindrisk	62	14.5	20	25	61	0.6	36	6
	MS0340-SSK	-3		Whistle notch	62	14.5	20	25	61	0.6	36	6
	MS0340-SLA	-5		Cylindrisk	66	22.5	28	29	65	0.6	36	6
	MS0340-SLK	-5		Whistle notch	66	22.5	28	29	65	0.6	36	6
3.5	MS0350-SSA	-3		Cylindrisk	62	14.4	20	25	61	0.6	36	6
	MS0350-SSK	-3		Whistle notch	62	14.4	20	25	61	0.6	36	6
	MS0350-SLA	-5		Cylindrisk	66	22.4	28	29	65	0.6	36	6
	MS0350-SLK	-5		Whistle notch	66	22.4	28	29	65	0.6	36	6
3.7	MS0370-SSA	-3		Cylindrisk	62	14.1	20	25	61	0.7	36	6
	MS0370-SSK	-3		Whistle notch	62	14.1	20	25	61	0.7	36	6
	MS0370-SLA	-5		Cylindrisk	66	22.1	28	29	65	0.7	36	6
	MS0370-SLK	-5		Whistle notch	66	22.1	28	29	65	0.7	36	6
3.8	MS0380-SSA	-3		Cylindrisk	66	18	24	29	65	0.7	36	6
	MS0380-SSK	-3		Whistle notch	66	18	24	29	65	0.7	36	6
	MS0380-SLA	-5		Cylindrisk	74	30	36	37	73	0.7	36	6
	MS0380-SLK	-5		Whistle notch	74	30	36	37	73	0.7	36	6
3.9	MS0390-SSA	-3		Cylindrisk	66	17.9	24	29	65	0.7	36	6
	MS0390-SSK	-3		Whistle notch	66	17.9	24	29	65	0.7	36	6
	MS0390-SLA	-5		Cylindrisk	74	29.9	36	37	73	0.7	36	6
	MS0390-SLK	-5		Whistle notch	74	29.9	36	37	73	0.7	36	6
4.0	MS0400-SSA	-3		Cylindrisk	66	17.7	24	29	65	0.7	36	6
	MS0400-SSK	-3		Whistle notch	66	17.7	24	29	65	0.7	36	6
	MS0400-SLA	-5		Cylindrisk	74	29.7	36	37	73	0.7	36	6
	MS0400-SLK	-5		Whistle notch	74	29.7	36	37	73	0.7	36	6

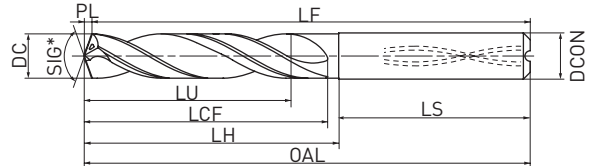
DC	Artikelnummer	L x DC	Kylning Inv./Utv.	Skafttyp	OAL	LU	LCF	LH	LF	PL	LS	DCON
4.1	MS0410-SSA	-3		Cylindrisk	66	17.6	24	29	65	0.7	36	6
	MS0410-SSK	-3		Whistle notch	66	17.6	24	29	65	0.7	36	6
	MS0410-SLA	-5		Cylindrisk	74	29.6	36	37	73	0.7	36	6
	MS0410-SLK	-5		Whistle notch	74	29.6	36	37	73	0.7	36	6
4.2	MS0420-SSA	-3		Cylindrisk	66	17.5	24	29	65	0.8	36	6
	MS0420-SSK	-3		Whistle notch	66	17.5	24	29	65	0.8	36	6
	MS0420-SLA	-5		Cylindrisk	74	29.5	36	37	73	0.8	36	6
	MS0420-SLK	-5		Whistle notch	74	29.5	36	37	73	0.8	36	6
4.3	MS0430-SSA	-3		Cylindrisk	66	17.3	24	29	65	0.8	36	6
	MS0430-SSK	-3		Whistle notch	66	17.3	24	29	65	0.8	36	6
	MS0430-SLA	-5		Cylindrisk	74	29.3	36	37	73	0.8	36	6
	MS0430-SLK	-5		Whistle notch	74	29.3	36	37	73	0.8	36	6
4.5	MS0450-SSA	-3		Cylindrisk	66	17.1	24	29	65	0.8	36	6
	MS0450-SSK	-3		Whistle notch	66	17.1	24	29	65	0.8	36	6
	MS0450-SLA	-5		Cylindrisk	74	29.1	36	37	73	0.8	36	6
	MS0450-SLK	-5		Whistle notch	74	29.1	36	37	73	0.8	36	6
4.6	MS0460-SSA	-3		Cylindrisk	66	16.9	24	29	65	0.8	36	6
	MS0460-SSK	-3		Whistle notch	66	16.9	24	29	65	0.8	36	6
	MS0460-SLA	-5		Cylindrisk	74	28.9	36	37	73	0.8	36	6
	MS0460-SLK	-5		Whistle notch	74	28.9	36	37	73	0.8	36	6
4.8	MS0480-SSA	-3		Cylindrisk	66	20.7	28	29	65	0.9	36	6
	MS0480-SSK	-3		Whistle notch	66	20.7	28	29	65	0.9	36	6
	MS0480-SLA	-5		Cylindrisk	74	36.7	44	45	81	0.9	36	6
	MS0480-SLK	-5		Whistle notch	74	36.7	44	45	81	0.9	36	6
5.0	MS0500-SSA	-3		Cylindrisk	66	20.4	30	29	65	0.9	36	6
	MS0500-SSK	-3		Whistle notch	66	20.4	30	29	65	0.9	36	6
	MS0500-SLA	-5		Cylindrisk	82	36.4	46	45	81	0.9	36	6
	MS0500-SLK	-5		Whistle notch	82	36.4	46	45	81	0.9	36	6
5.1	MS0510-SSA	-3		Cylindrisk	66	20.3	30	29	65	0.9	36	6
	MS0510-SSK	-3		Whistle notch	66	20.3	30	29	65	0.9	36	6
	MS0510-SLA	-5		Cylindrisk	82	36.3	46	45	81	0.9	36	6
	MS0510-SLK	-5		Whistle notch	82	36.3	46	45	81	0.9	36	6
5.2	MS0520-SSA	-3		Cylindrisk	66	20.1	30	29	65	0.9	36	6
	MS0520-SSK	-3		Whistle notch	66	20.1	30	29	65	0.9	36	6
	MS0520-SLA	-5		Cylindrisk	82	36.1	46	45	81	0.9	36	6
	MS0520-SLK	-5		Whistle notch	82	36.1	46	45	81	0.9	36	6
5.5	MS0550-SSA	-3		Cylindrisk	66	19.8	30	29	65	1	36	6
	MS0550-SSK	-3		Whistle notch	66	19.8	30	29	65	1	36	6
	MS0550-SLA	-5		Cylindrisk	82	35.8	46	45	81	1	36	6
	MS0550-SLK	-5		Whistle notch	82	35.8	46	45	81	1	36	6
5.6	MS0560-SSA	-3		Cylindrisk	66	19.6	30	29	65	1	36	6
	MS0560-SSK	-3		Whistle notch	66	19.6	30	29	65	1	36	6
	MS0560-SLA	-5		Cylindrisk	82	35.6	46	45	81	1	36	6
	MS0560-SLK	-5		Whistle notch	82	35.6	46	45	81	1	36	6
5.7	MS0570-SSA	-3		Cylindrisk	66	19.5	30	29	65	1	36	6
	MS0570-SSK	-3		Whistle notch	66	19.5	30	29	65	1	36	6
	MS0570-SLA	-5		Cylindrisk	82	35.5	46	45	81	1	36	6
	MS0570-SLK	-5		Whistle notch	82	35.5	46	45	81	1	36	6
5.8	MS0580-SSA	-3		Cylindrisk	66	19.4	30	29	65	1.1	36	6
	MS0580-SSK	-3		Whistle notch	66	19.4	30	29	65	1.1	36	6
	MS0580-SLA	-5		Cylindrisk	82	35.4	46	45	81	1.1	36	6
	MS0580-SLK	-5		Whistle notch	82	35.4	46	45	81	1.1	36	6

# MS BORR



D Tolerans	D≤3.0	3.0<D≤6.0	6.0<D≤10.0	10.0<D≤14.0
m7	+0.016 +0.004	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007

MS○○○○○-S○○○ (Invändig kylning)



DC	Artikelnummer	L x DC	Kylning Inv./Utv.	Skafttyp	OAL	LU	LCF	LH	LF	PL	LS	DCON
6.0	MS0600-SSA	-3	Inv.	Cylindrisk	66	19.1	30	29	65	1.1	36	6
	MS0600-SSK	-3	Inv.	Whistle notch	66	19.1	30	29	65	1.1	36	6
	MS0600-SLA	-5	Inv.	Cylindrisk	82	35.1	46	45	81	1.1	36	6
	MS0600-SLK	-5	Inv.	Whistle notch	82	35.1	46	45	81	1.1	36	6
6.1	MS0610-SSA	-3	Inv.	Cylindrisk	79	25	34	42	78	1.1	36	8
	MS0610-SSK	-3	Inv.	Whistle notch	79	25	34	42	78	1.1	36	8
	MS0610-SLA	-5	Inv.	Cylindrisk	91	44	53	54	90	1.1	36	8
	MS0610-SLK	-5	Inv.	Whistle notch	91	44	53	54	90	1.1	36	8
6.2	MS0620-SSA	-3	Inv.	Cylindrisk	79	24.8	34	42	78	1.1	36	8
	MS0620-SSK	-3	Inv.	Whistle notch	79	24.8	34	42	78	1.1	36	8
	MS0620-SLA	-5	Inv.	Cylindrisk	91	43.8	53	54	90	1.1	36	8
	MS0620-SLK	-5	Inv.	Whistle notch	91	43.8	53	54	90	1.1	36	8
6.5	MS0650-SSA	-3	Inv.	Cylindrisk	79	24.4	34	42	78	1.2	36	8
	MS0650-SSK	-3	Inv.	Whistle notch	79	24.4	34	42	78	1.2	36	8
	MS0650-SLA	-5	Inv.	Cylindrisk	91	43.4	53	54	90	1.2	36	8
	MS0650-SLK	-5	Inv.	Whistle notch	91	43.4	53	54	90	1.2	36	8
6.6	MS0660-SSA	-3	Inv.	Cylindrisk	79	24.3	34	42	78	1.2	36	8
	MS0660-SSK	-3	Inv.	Whistle notch	79	24.3	34	42	78	1.2	36	8
	MS0660-SLA	-5	Inv.	Cylindrisk	91	43.3	53	54	90	1.2	36	8
	MS0660-SLK	-5	Inv.	Whistle notch	91	43.3	53	54	90	1.2	36	8
6.8	MS0680-SSA	-3	Inv.	Cylindrisk	79	24	34	42	78	1.2	36	8
	MS0680-SSK	-3	Inv.	Whistle notch	79	24	34	42	78	1.2	36	8
	MS0680-SLA	-5	Inv.	Cylindrisk	91	43	53	54	90	1.2	36	8
	MS0680-SLK	-5	Inv.	Whistle notch	91	43	53	54	90	1.2	36	8
6.9	MS0690-SSA	-3	Inv.	Cylindrisk	79	23.9	34	42	78	1.3	36	8
	MS0690-SSK	-3	Inv.	Whistle notch	79	23.9	34	42	78	1.3	36	8
	MS0690-SLA	-5	Inv.	Cylindrisk	91	42.9	53	54	90	1.3	36	8
	MS0690-SLK	-5	Inv.	Whistle notch	91	42.9	53	54	90	1.3	36	8
7.0	MS0700-SSA	-3	Inv.	Cylindrisk	79	23.8	34	42	78	1.3	36	8
	MS0700-SSK	-3	Inv.	Whistle notch	79	23.8	34	42	78	1.3	36	8
	MS0700-SLA	-5	Inv.	Cylindrisk	91	42.8	53	54	90	1.3	36	8
	MS0700-SLK	-5	Inv.	Whistle notch	91	42.8	53	54	90	1.3	36	8
7.3	MS0730-SSA	-3	Inv.	Cylindrisk	79	30.4	34	42	78	1.3	36	8
	MS0730-SSK	-3	Inv.	Whistle notch	79	30.4	34	42	78	1.3	36	8
	MS0730-SLA	-5	Inv.	Cylindrisk	91	42.4	53	54	90	1.3	36	8
	MS0730-SLK	-5	Inv.	Whistle notch	91	42.4	53	54	90	1.3	36	8

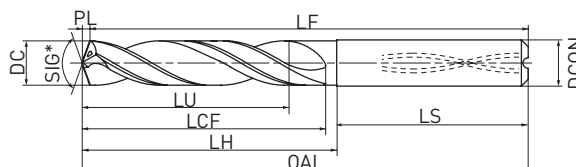
DC	Artikelnummer	L x DC	Kylning Inv./Utv.	Skafttyp	OAL	LU	LCF	LH	LF	PL	LS	DCON
7.4	MS0740-SSA	-3	Inv.	Cylindrisk	79	30.2	41	42	78	1.3	36	8
	MS0740-SSK	-3	Inv.	Whistle notch	79	30.2	41	42	78	1.3	36	8
	MS0740-SLA	-5	Inv.	Cylindrisk	91	42.2	53	54	90	1.3	36	8
	MS0740-SLK	-5	Inv.	Whistle notch	91	42.2	53	54	90	1.3	36	8
7.5	MS0750-SSA	-3	Inv.	Cylindrisk	79	30.1	41	42	78	1.4	36	8
	MS0750-SSK	-3	Inv.	Whistle notch	79	30.1	41	42	78	1.4	36	8
	MS0750-SLA	-5	Inv.	Cylindrisk	91	42.1	53	54	90	1.4	36	8
	MS0750-SLK	-5	Inv.	Whistle notch	91	42.1	53	54	90	1.4	36	8
7.8	MS0780-SSA	-3	Inv.	Cylindrisk	79	29.7	41	42	78	1.4	36	8
	MS0780-SSK	-3	Inv.	Whistle notch	79	29.7	41	42	78	1.4	36	8
	MS0780-SLA	-5	Inv.	Cylindrisk	91	41.7	53	54	90	1.4	36	8
	MS0780-SLK	-5	Inv.	Whistle notch	91	41.7	53	54	90	1.4	36	8
8.0	MS0800-SSA	-3	Inv.	Cylindrisk	79	29.5	41	42	78	1.5	36	10
	MS0800-SSK	-3	Inv.	Whistle notch	79	29.5	41	42	78	1.5	36	10
	MS0800-SLA	-5	Inv.	Cylindrisk	91	41.5	53	54	90	1.5	36	10
	MS0800-SLK	-5	Inv.	Whistle notch	91	41.5	53	54	90	1.5	36	10
8.3	MS0830-SSA	-3	Inv.	Cylindrisk	89	34.1	47	48	87	1.5	40	10
	MS0830-SSK	-3	Inv.	Whistle notch	89	34.1	47	48	87	1.5	40	10
	MS0830-SLA	-5	Inv.	Cylindrisk	103	48.1	61	62	101	1.5	40	10
	MS0830-SLK	-5	Inv.	Whistle notch	103	48.1	61	62	101	1.5	40	10
8.5	MS0850-SSA	-3	Inv.	Cylindrisk	89	33.8	47	48	87	1.5	40	10
	MS0850-SSK	-3	Inv.	Whistle notch	89	33.8	47	48	87	1.5	40	10
	MS0850-SLA	-5	Inv.	Cylindrisk	103	47.8	61	62	101	1.5	40	10
	MS0850-SLK	-5	Inv.	Whistle notch	103	47.8	61	62	101	1.5	40	10
8.6	MS0860-SSA	-3	Inv.	Cylindrisk	89	33.7	47	48	87	1.6	40	10
	MS0860-SSK	-3	Inv.	Whistle notch	89	33.7	47	48	87	1.6	40	10
	MS0860-SLA	-5	Inv.	Cylindrisk	103	47.7	61	62	101	1.6	40	10
	MS0860-SLK	-5	Inv.	Whistle notch	103	47.7	61	62	101	1.6	40	10
8.7	MS0870-SSA	-3	Inv.	Cylindrisk	89	33.5	47	48	87	1.6	40	10
	MS0870-SSK	-3	Inv.	Whistle notch	89	33.5	47	48	87	1.6	40	10
	MS0870-SLA	-5	Inv.	Cylindrisk	103	47.5	61	62	101	1.6	40	10
	MS0870-SLK	-5	Inv.	Whistle notch	103	47.5	61	62	101	1.6	40	10
8.8	MS0880-SSA	-3	Inv.	Cylindrisk	89	33.4	47	48	87	1.6	40	10
	MS0880-SSK	-3	Inv.	Whistle notch	89	33.4	47	48	87	1.6	40	10
	MS0880-SLA	-5	Inv.	Cylindrisk	103	47.4	61	62	101	1.6	40	10
	MS0880-SLK	-5	Inv.	Whistle notch	103	47.4	61	62	101	1.6	40	10
9.0	MS0900-SSA	-3	Inv.	Cylindrisk	89	33.3	47	48	87	1.6	40	10
	MS0900-SSK	-3	Inv.	Whistle notch	89	33.3	47	48	87	1.6	40	10
	MS0900-SLA	-5	Inv.	Cylindrisk	103	47.3	61	62	101	1.6	40	10
	MS0900-SLK	-5	Inv.	Whistle notch	103	47.3	61	62	101	1.6	40	10
9.3	MS0930-SSA	-3	Inv.	Cylindrisk	89	33.1	47	48	87	1.6	40	10
	MS0930-SSK	-3	Inv.	Whistle notch	89	33.1	47	48	87	1.6	40	10
	MS0930-SLA	-5	Inv.	Cylindrisk	103	47.1	61	62	101	1.6	40	10
	MS0930-SLK	-5	Inv.	Whistle notch	103	47.1	61	62	101	1.6	40	10
9.5	MS0950-SSA	-3	Inv.	Cylindrisk	89	32.5	47	48	87	1.7	40	10
	MS0950-SSK	-3	Inv.	Whistle notch	89	32.5	47	48	87	1.7	40	10
	MS0950-SLA	-5	Inv.	Cylindrisk	103	46.5	61	62	101	1.7	40	10
	MS0950-SLK	-5	Inv.	Whistle notch	103	46.5	61	62	101	1.7	40	10
9.8	MS0980-SSA	-3	Inv.	Cylindrisk	89	32.1	47	48	87	1.8	40	10
	MS0980-SSK	-3	Inv.	Whistle notch	89	32.1	47	48	87	1.8	40	10
	MS0980-SLA	-5	Inv.	Cylindrisk	103	46.1	61	62	101	1.8	40	10
	MS0980-SLK	-5	Inv.	Whistle notch	103	46.1	61	62	101	1.8	40	10

# MS BORR



D Tolerans	D≤3.0	3.0<D≤6.0	6.0<D≤10.0	10.0<D≤14.0
m7	+0.016 +0.004	+0.016 +0.004	+0.021 +0.006	+0.025 +0.007

MS○○○○○-S○○○ (Invändig kylning)



DC	Artikelnummer	L x DC	Kylning Inv./Utv.	Skafttyp	OAL	LU	LCF	LH	LF	PL	LS	DCON
10.0	MS1000-SSA	-3	Inv.	Cylindrisk	89	31.8	47	48	87	1.8	40	10
	MS1000-SSK	-3	Inv.	Whistle notch	89	31.8	47	48	87	1.8	40	10
	MS1000-SLA	-5	Inv.	Cylindrisk	103	45.8	61	62	101	1.8	40	10
	MS1000-SLK	-5	Inv.	Whistle notch	103	45.8	61	62	101	1.8	40	10
10.2	MS1020-SSA	-3	Inv.	Cylindrisk	102	39.6	55	56	100	1.9	45	12
	MS1020-SSK	-3	Inv.	Whistle notch	102	39.6	55	56	100	1.9	45	12
	MS1020-SLA	-5	Inv.	Cylindrisk	118	55.6	71	72	116	1.9	45	12
	MS1020-SLK	-5	Inv.	Whistle notch	118	55.6	71	72	116	1.9	45	12
10.3	MS1030-SSA	-3	Inv.	Cylindrisk	102	39.4	55	56	100	1.9	45	12
	MS1030-SSK	-3	Inv.	Whistle notch	102	39.4	55	56	100	1.9	45	12
	MS1030-SLA	-5	Inv.	Cylindrisk	118	55.4	71	72	116	1.9	45	12
	MS1030-SLK	-5	Inv.	Whistle notch	118	55.4	71	72	116	1.9	45	12
10.4	MS1040-SSA	-3	Inv.	Cylindrisk	102	39.3	55	56	100	1.9	45	12
	MS1040-SSK	-3	Inv.	Whistle notch	102	39.3	55	56	100	1.9	45	12
	MS1040-SLA	-5	Inv.	Cylindrisk	118	55.3	71	72	116	1.9	45	12
	MS1040-SLK	-5	Inv.	Whistle notch	118	55.3	71	72	116	1.9	45	12
10.5	MS1050-SSA	-3	Inv.	Cylindrisk	102	39.2	55	56	100	1.9	45	12
	MS1050-SSK	-3	Inv.	Whistle notch	102	39.2	55	56	100	1.9	45	12
	MS1050-SLA	-5	Inv.	Cylindrisk	118	55.2	71	72	116	1.9	45	12
	MS1050-SLK	-5	Inv.	Whistle notch	118	55.2	71	72	116	1.9	45	12
10.7	MS1070-SSA	-3	Inv.	Cylindrisk	102	38.9	55	56	100	1.9	45	12
	MS1070-SSK	-3	Inv.	Whistle notch	102	38.9	55	56	100	1.9	45	12
	MS1070-SLA	-5	Inv.	Cylindrisk	118	54.9	71	72	116	1.9	45	12
	MS1070-SLK	-5	Inv.	Whistle notch	118	54.9	71	72	116	1.9	45	12
10.8	MS1080-SSA	-3	Inv.	Cylindrisk	102	38.8	55	56	100	2	45	12
	MS1080-SSK	-3	Inv.	Whistle notch	102	38.8	55	56	100	2	45	12
	MS1080-SLA	-5	Inv.	Cylindrisk	118	54.8	71	72	116	2	45	12
	MS1080-SLK	-5	Inv.	Whistle notch	118	54.8	71	72	116	2	45	12
11.0	MS1100-SSA	-3	Inv.	Cylindrisk	102	38.5	55	56	100	2	45	12
	MS1100-SSK	-3	Inv.	Whistle notch	102	38.5	55	56	100	2	45	12
	MS1100-SLA	-5	Inv.	Cylindrisk	118	54.5	71	72	116	2	45	12
	MS1100-SLK	-5	Inv.	Whistle notch	118	54.5	71	72	116	2	45	12
11.2	MS1120-SSA	-3	Inv.	Cylindrisk	102	38.2	55	56	100	2	45	12
	MS1120-SSK	-3	Inv.	Whistle notch	102	38.2	55	56	100	2	45	12
	MS1120-SLA	-5	Inv.	Cylindrisk	118	54.2	71	72	116	2	45	12
	MS1120-SLK	-5	Inv.	Whistle notch	118	54.2	71	72	116	2	45	12



DC	Artikelnummer	L x DC	Kylning Inv./Utv.	Skafttyp	OAL	LU	LCF	LH	LF	PL	LS	DCON
11.4	MS1140-SSA	-3	Inv.	Cylindrisk	102	38	55	56	100	2.1	45	12
	MS1140-SSK	-3	Inv.	Whistle notch	102	38	55	56	100	2.1	45	12
	MS1140-SLA	-5	Inv.	Cylindrisk	118	54	71	72	116	2.1	45	12
	MS1140-SLK	-5	Inv.	Whistle notch	118	54	71	72	116	2.1	45	12
11.5	MS1150-SSA	-3	Inv.	Cylindrisk	102	37.8	55	56	100	2.1	45	12
	MS1150-SSK	-3	Inv.	Whistle notch	102	37.8	55	56	100	2.1	45	12
	MS1150-SLA	-5	Inv.	Cylindrisk	118	53.8	71	72	116	2.1	45	12
	MS1150-SLK	-5	Inv.	Whistle notch	118	53.8	71	72	116	2.1	45	12
11.7	MS1170-SSA	-3	Inv.	Cylindrisk	102	37.6	55	56	100	2.1	45	12
	MS1170-SSK	-3	Inv.	Whistle notch	102	37.6	55	56	100	2.1	45	12
	MS1170-SLA	-5	Inv.	Cylindrisk	118	53.6	71	72	116	2.1	45	12
	MS1170-SLK	-5	Inv.	Whistle notch	118	53.6	71	72	116	2.1	45	12
11.8	MS1180-SSA	-3	Inv.	Cylindrisk	102	37.4	55	56	100	2.1	45	12
	MS1180-SSK	-3	Inv.	Whistle notch	102	37.4	55	56	100	2.1	45	12
	MS1180-SLA	-5	Inv.	Cylindrisk	118	53.4	71	72	116	2.1	45	12
	MS1180-SLK	-5	Inv.	Whistle notch	118	53.4	71	72	116	2.1	45	12
12.0	MS1200-SSA	-3	Inv.	Cylindrisk	102	37.2	55	56	100	2.2	45	12
	MS1200-SSK	-3	Inv.	Whistle notch	102	37.2	55	56	100	2.2	45	12
	MS1200-SLA	-5	Inv.	Cylindrisk	118	53.2	71	72	116	2.2	45	12
	MS1200-SLK	-5	Inv.	Whistle notch	118	53.2	71	72	116	2.2	45	12
12.5	MS1250-SSA	-3	Inv.	Cylindrisk	107	41.5	60	61	105	2.3	45	14
	MS1250-SSK	-3	Inv.	Whistle notch	107	41.5	60	61	105	2.3	45	14
	MS1250-SLA	-5	Inv.	Cylindrisk	124	58.5	77	78	122	2.3	45	14
	MS1250-SLK	-5	Inv.	Whistle notch	124	58.5	77	78	122	2.3	45	14
12.6	MS1260-SSA	-3	Inv.	Cylindrisk	107	41.4	60	61	105	2.3	45	14
	MS1260-SSK	-3	Inv.	Whistle notch	107	41.4	60	61	105	2.3	45	14
	MS1260-SLA	-5	Inv.	Cylindrisk	124	58.4	77	78	122	2.3	45	14
	MS1260-SLK	-5	Inv.	Whistle notch	124	58.4	77	78	122	2.3	45	14
12.7	MS1270-SSA	-3	Inv.	Cylindrisk	107	41.3	60	61	105	2.3	45	14
	MS1270-SSK	-3	Inv.	Whistle notch	107	41.3	60	61	105	2.3	45	14
	MS1270-SLA	-5	Inv.	Cylindrisk	124	58.3	77	78	122	2.3	45	14
	MS1270-SLK	-5	Inv.	Whistle notch	124	58.3	77	78	122	2.3	45	14
13.0	MS1300-SSA	-3	Inv.	Cylindrisk	107	40.9	60	61	105	2.4	45	14
	MS1300-SSK	-3	Inv.	Whistle notch	107	40.9	60	61	105	2.4	45	14
	MS1300-SLA	-5	Inv.	Cylindrisk	124	57.9	77	78	122	2.4	45	14
	MS1300-SLK	-5	Inv.	Whistle notch	124	57.9	77	78	122	2.4	45	14
13.5	MS1350-SSA	-3	Inv.	Cylindrisk	107	40.2	60	61	105	2.5	45	14
	MS1350-SSK	-3	Inv.	Whistle notch	107	40.2	60	61	105	2.5	45	14
	MS1350-SLA	-5	Inv.	Cylindrisk	124	57.2	77	78	122	2.5	45	14
	MS1350-SLK	-5	Inv.	Whistle notch	124	57.2	77	78	122	2.5	45	14
13.7	MS1370-SSA	-3	Inv.	Cylindrisk	107	39.9	60	61	105	2.5	45	14
	MS1370-SSK	-3	Inv.	Whistle notch	107	39.9	60	61	105	2.5	45	14
	MS1370-SLA	-5	Inv.	Cylindrisk	124	56.9	77	78	122	2.5	45	14
	MS1370-SLK	-5	Inv.	Whistle notch	124	56.9	77	78	122	2.5	45	14
14.0	MS1400-SSA	-3	Inv.	Cylindrisk	107	39.5	60	62	105	2.5	45	14
	MS1400-SSK	-3	Inv.	Whistle notch	107	39.5	60	62	105	2.5	45	14
	MS1400-SLA	-5	Inv.	Cylindrisk	124	56.5	77	79	122	2.5	45	14
	MS1400-SLK	-5	Inv.	Whistle notch	124	56.5	77	79	122	2.5	45	14

# MS....S.. SOLID HÅRDMETALL (INVÄNDIG KYLNING)

Arbetsmaterial	Tillstånd	Hållfasthet N/mm <sup>2</sup>	Hårdhet HB	Ø 1.0 – 1.9		Ø 2.0 – 2.9		Ø 3.0 – 5.9		Ø 6.0 – 9.9		Ø 10.0 – 14.0		
				Vc (m/min)	f (mm/U)	Vc (m/min)	f (mm/U)	Vc (m/min)	f (mm/U)	Vc (m/min)	f (mm/U)	Vc (m/min)	f (mm/U)	
P	Olegerat svavel ≤0.25%C	anlöpt	<500	150	70	0.20	70	0.20	100	0.18	110	0.25	130	0.30
	Fosforhaltigt stål ≤0.25%C	anlöpt	-680	200	60	0.20	60	0.20	100	0.18	110	0.25	130	0.30
	Kolstål ≤0.55%C	seghärdad	>800	275	60	0.15	60	0.15	80	0.18	90	0.25	100	0.30
	Seghärdad stål ≤0.55%C	anlöpt	-680	300	50	0.10	50	0.10	60	0.18	70	0.25	80	0.30
	Verktogsstål/gjutet stål	seghärdad	>800	350	40	0.08	40	0.08	50	0.15	60	0.20	70	0.25
	Låglegerat stål, verktogsstål	anlöpt	<680	<200	60	0.20	60	0.20	50	0.18	80	0.25	80	0.30
	Fjäderstål, nitrerat stål	seghärdad	850	250	60	0.15	60	0.15	60	0.18	70	0.25	80	0.30
	Sätthärdad stål	seghärdad	>850	>250	60	0.15	60	0.15	60	0.18	70	0.25	80	0.30
	Lagerstål, gjutet stål	seghärdad	>1000	>300	40	0.10	40	0.10	50	0.15	60	0.20	70	0.30
	Höglegerat värmebe- ständigt stål	anlöpt	<680	<200	60	0.20	60	0.20	50	0.15	55	0.20	60	0.25
	Ventilstål	seghärdad	850	250	60	0.15	60	0.15	45	0.15	50	0.20	55	0.25
	Verktogsstål	seghärdad	>850	>250	50	0.12	50	0.12	50	0.18	55	0.20	60	0.25
Gjutet stål	seghärdad	>1000	>300	40	0.10	40	0.10	45	0.15	50	0.20	55	0.25	
M	Rostfritt stål	ferrit./mart.	680	200	40	0.05	40	0.08	45	0.15	50	0.20	60	0.25
	Värmebeständigt stål	martensi- tiskt	850	250	40	0.05	40	0.08	45	0.15	50	0.20	60	0.25
	Gjutet stål	austenitiskt	-950	230	40	0.05	40	0.08	45	0.15	50	0.20	60	0.25
K	Lamellerat gråjärn	ferritiskt	100 - 400	<180	70	0.15	80	0.20	100	0.20	100	0.25	110	0.30
		perlitiskt		220	60	0.10	70	0.15	90	0.20	90	0.25	100	0.30
	Nodulärt segjärn	ferritiskt	400 - 800	<180	40	0.10	50	0.15	80	0.20	80	0.25	90	0.30
		perlitiskt		250	30	0.05	40	0.10	80	0.20	80	0.25	90	0.30
	Seghärdad gjutjärn	ferritiskt	350 - 700	<180	40	0.10	50	0.15	50	0.20	65	0.20	75	0.25
		perlitiskt		220	30	0.05	40	0.10	50	0.15	60	0.20	70	0.22

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# ANTECKNING

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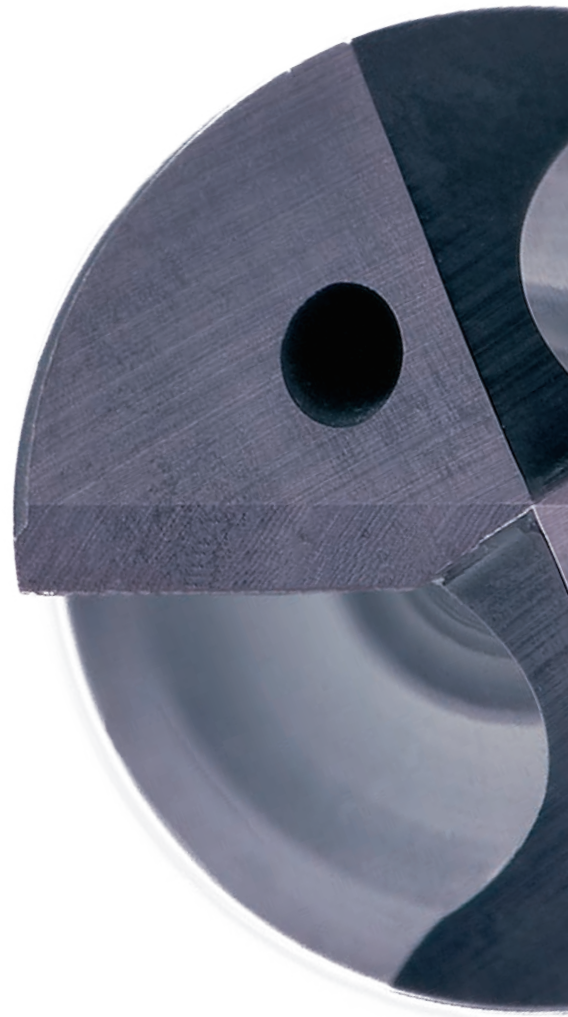
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