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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Россия (495)268-04-70

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

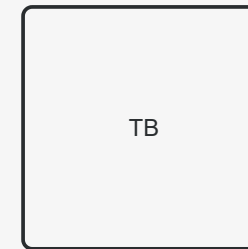
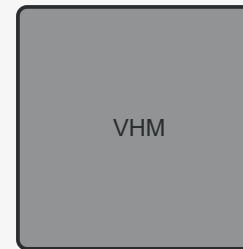
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Сургут (3462)77-98-35
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Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
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Ярославль (4852)69-52-93

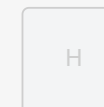
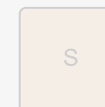
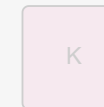
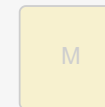
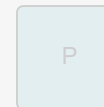
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AL



The AL drills are designed for machining aluminium alloys. Polished chip grooves together with internally supplied coolant guarantee process safety and trouble-free chip removal. The TB-coated variant is additionally protected against build-up on the cutting edges and increases their service life.



Application



Variants

Variant	Working diameter tolerance d_1	Point angle	Execution standard
5xD VHM IK 	m7	130°	DIN-6537
5xD VHM IK TB 	m7	130°	DIN-6537

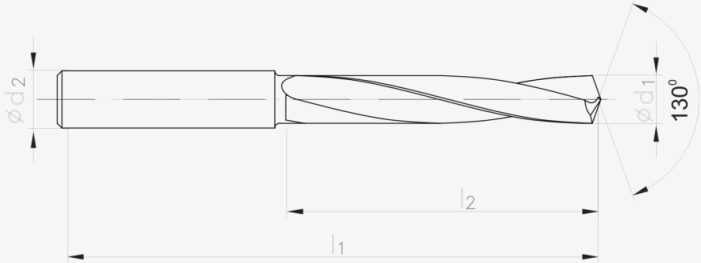


VHM

DIN-6537

5xD VHM IK

VHM drills for aluminium alloys.



Application

P

M

K

N

S

H

Dimensions

Index	$\varnothing d_1$	For taps	For forming taps	l_1	l_2	$\varnothing d_2 h_6$
W9-611733-0300	3,00	M4	M3,5	66	28	6,0
W9-611733-0310	3,10			66	28	6,0
W9-611733-0320	3,20	M4x0,5		66	28	6,0
W9-611733-0325	3,25			66	28	6,0
W9-611733-0330	3,30	M4,5		66	28	6,0

W9-611733-0340	3,40		M4	66	28	6,0
W9-611733-0350	3,50			66	28	6,0
W9-611733-0360	3,60			66	28	6,0
W9-611733-0370	3,70			66	28	6,0
W9-611733-0380	3,80		M5	74	36	6,0
W9-611733-0390	3,90		M4,5	74	36	6,0
W9-611733-0400	4,00			74	36	6,0
W9-611733-0410	4,10		M5x0,5	74	36	6,0

W9-611733-0420	4,20	M5,5		74	36	6,0
W9-611733-0430	4,30			74	36	6,0
W9-611733-0440	4,40		M5	74	36	6,0
W9-611733-0450	4,50			74	36	6,0
W9-611733-0460	4,60			74	36	6,0
W9-611733-0465	4,65	M6		74	36	6,0
W9-611733-0470	4,70			74	36	6,0
W9-611733-0480	4,80	M6x0,75	M5,5	82	44	6,0

W9-611733-0490	4,90		82	44	6,0
W9-611733-0500	5,00		82	44	6,0
W9-611733-0510	5,10		82	44	6,0
W9-611733-0520	5,20		82	44	6,0
W9-611733-0530	5,30	M6	82	44	6,0
W9-611733-0540	5,40		82	44	6,0
W9-611733-0550	5,50		82	44	6,0
W9-611733-0560	5,60	M7	82	44	6,0

W9-611733-0570	5,70		82	44	6,0
W9-611733-0580	5,80	M7x0,75	82	44	6,0
W9-611733-0590	5,90		82	44	6,0
W9-611733-0600	6,00		82	44	6,0
W9-611733-0610	6,10		91	53	8,0
W9-611733-0620	6,20		91	53	8,0
W9-611733-0630	6,30	M7	91	53	8,0
W9-611733-0640	6,40	M8	91	53	8,0

W9-611733-0650	6,50		91	53	8,0
W9-611733-0660	6,60	M8x1	91	53	8,0
W9-611733-0670	6,70		91	53	8,0
W9-611733-0680	6,80	M8x0,75	91	53	8,0
W9-611733-0690	6,90		91	53	8,0
W9-611733-0700	7,00		91	53	8,0
W9-611733-0710	7,10		91	53	8,0
W9-611733-0720	7,20		91	53	8,0

W9-611733-0730	7,30		91	53	8,0
W9-611733-0740	7,40		91	53	8,0
W9-611733-0745	7,45	M8	91	53	8,0
W9-611733-0750	7,50		91	53	8,0
W9-611733-0760	7,60	M8x1	91	53	8,0
W9-611733-0770	7,70		91	53	8,0
W9-611733-0780	7,80	M9	91	53	8,0
W9-611733-0790	7,90		91	53	8,0

W9-611733-0800	8,00	M9x1		91	53	8,0
W9-611733-0810	8,10			103	61	10,0
W9-611733-0820	8,20	M9x0,75		103	61	10,0
W9-611733-0830	8,30			103	61	10,0
W9-611733-0840	8,40			103	61	10,0
W9-611733-0845	8,45		M9	103	61	10,0
W9-611733-0850	8,50	M10		103	61	10,0
W9-611733-0860	8,60		M9x1	103	61	10,0

W9-611733-0870	8,70		M9x0,75	103	61	10,0
W9-611733-0880	8,80	M10x1,25		103	61	10,0
W9-611733-0890	8,90			103	61	10,0
W9-611733-0900	9,00	M10x1		103	61	10,0
W9-611733-0910	9,10			103	61	10,0
W9-611733-0920	9,20	M10x0,75		103	61	10,0
W9-611733-0930	9,30			103	61	10,0
W9-611733-0935	9,35		M10	103	61	10,0

W9-611733-0940	9,40			103	61	10,0
W9-611733-0945	9,45		M10x1,25	103	61	10,0
W9-611733-0950	9,50	M11		103	61	10,0
W9-611733-0960	9,60		M10x1	103	61	10,0
W9-611733-0970	9,70		M10x0,75	103	61	10,0
W9-611733-0980	9,80			103	61	10,0
W9-611733-0990	9,90			103	61	10,0
W9-611733-1000	10,00	M11x1		103	61	10,0

W9-611733-1010	10,10			118	71	12,0
W9-611733-1020	10,20	M12		118	71	12,0
W9-611733-1030	10,30			118	71	12,0
W9-611733-1040	10,40			118	71	12,0
W9-611733-1050	10,50	M12x1,5		118	71	12,0
W9-611733-1060	10,60		M11x1	118	71	12,0
W9-611733-1070	10,70			118	71	12,0
W9-611733-1080	10,80	M12x1,25		118	71	12,0

W9-611733-1090	10,90			118	71	12,0
W9-611733-1100	11,00	M12x1		118	71	12,0
W9-611733-1110	11,10			118	71	12,0
W9-611733-1120	11,20			118	71	12,0
W9-611733-1125	11,25		M12	118	71	12,0
W9-611733-1130	11,30			118	71	12,0
W9-611733-1135	11,35		M12x1,5	118	71	12,0
W9-611733-1140	11,40			118	71	12,0

W9-611733-1145	11,45		M12x1,25	118	71	12,0
W9-611733-1150	11,50			118	71	12,0
W9-611733-1160	11,60		M12x1	118	71	12,0
W9-611733-1170	11,70			118	71	12,0
W9-611733-1180	11,80			118	71	12,0
W9-611733-1190	11,90			118	71	12,0
W9-611733-1200	12,00	M14		118	71	12,0
W9-611733-1230	12,30			124	77	14,0

W9-611733-1250	12,50	M14x1,5		124	77	14,0
W9-611733-1280	12,80	M14x1,25		124	77	14,0
W9-611733-1300	13,00	M14x1	M14	124	77	14,0
W9-611733-1350	13,50			124	77	14,0
W9-611733-1380	13,80			124	77	14,0
W9-611733-1400	14,00	M16; M15x1		124	77	14,0
W9-611733-1450	14,50	M16x1,5		133	83	16,0
W9-611733-1480	14,80			133	83	16,0

W9-611733-1500	15,00	M16x1	M16	133	83	16,0
W9-611733-1535	15,35		M16x1,5	133	83	16,0
W9-611733-1550	15,50	M18		133	83	16,0
W9-611733-1580	15,80			133	83	16,0
W9-611733-1600	16,00	M18x2		133	83	16,0
W9-611733-1650	16,50	M18x1,5		143	93	18,0
W9-611733-1680	16,80		M18	143	93	18,0
W9-611733-1700	17,00	M18x1		143	93	18,0

W9-611733-1735	17,35		M18x1,5	143	93	18,0
W9-611733-1750	17,50	M20		143	93	18,0
W9-611733-1780	17,80			143	93	18,0
W9-611733-1800	18,00	M20x2		143	93	18,0
W9-611733-1850	18,50	M20x1,5		153	101	20,0
W9-611733-1880	18,80		M20	153	101	20,0
W9-611733-1900	19,00	M20x1		153	101	20,0
W9-611733-1935	19,35		M20x1,5	153	101	20,0

W9-611733-1950	19,50	M22	153	101	20,0
W9-611733-1980	19,80		153	101	20,0
W9-611733-2000	20,00	M22x2	153	101	20,0

Twist drills AL 5xD VHM IK TB



5xD VHM IK TB

VHM drills for aluminium alloys.

Protection



Tools are protected against wear and tear by TB coat. Due to lack of chemical affinity for aluminium, it reduces build-up on cutting edges during the machining of its alloys, which significantly extends the life-time of materials from N group.

Dimensions

Index	$\varnothing d_1$	For taps	For forming taps	l_1	l_2	$\varnothing d_2 h_6$
W9-61B733-0300	3,00			66	28	6,0
W9-61B733-0310	3,10			66	28	6,0
W9-61B733-0320	3,20			66	28	6,0

W9-61B733-0325	3,25		M3,5	66	28	6,0
W9-61B733-0330	3,30	M4		66	28	6,0
W9-61B733-0340	3,40			66	28	6,0
W9-61B733-0350	3,50	M4x0,5		66	28	6,0
W9-61B733-0360	3,60			66	28	6,0
W9-61B733-0370	3,70	M4,5	M4	66	28	6,0
W9-61B733-0380	3,80			74	36	6,0
W9-61B733-0390	3,90			74	36	6,0

W9-61B733-0400	4,00			74	36	6,0
W9-61B733-0410	4,10			74	36	6,0
W9-61B733-0420	4,20	M5	M4,5	74	36	6,0
W9-61B733-0430	4,30			74	36	6,0
W9-61B733-0440	4,40			74	36	6,0
W9-61B733-0450	4,50	M5x0,5		74	36	6,0
W9-61B733-0460	4,60	M5,5		74	36	6,0
W9-61B733-0465	4,65		M5	74	36	6,0

W9-61B733-0470	4,70			74	36	6,0
W9-61B733-0480	4,80			82	44	6,0
W9-61B733-0490	4,90			82	44	6,0
W9-61B733-0500	5,00	M6		82	44	6,0
W9-61B733-0510	5,10		M5,5	82	44	6,0
W9-61B733-0520	5,20	M6x0,75		82	44	6,0
W9-61B733-0530	5,30			82	44	6,0
W9-61B733-0540	5,40			82	44	6,0

W9-61B733-0550	5,50		82	44	6,0
W9-61B733-0560	5,60	M6	82	44	6,0
W9-61B733-0570	5,70		82	44	6,0
W9-61B733-0580	5,80		82	44	6,0
W9-61B733-0590	5,90		82	44	6,0
W9-61B733-0600	6,00	M7	82	44	6,0
W9-61B733-0610	6,10		91	53	8,0
W9-61B733-0620	6,20	M7x0,75	91	53	8,0

W9-61B733-0630	6,30		91	53	8,0
W9-61B733-0640	6,40		91	53	8,0
W9-61B733-0650	6,50		91	53	8,0
W9-61B733-0660	6,60	M7	91	53	8,0
W9-61B733-0670	6,70		91	53	8,0
W9-61B733-0680	6,80	M8	91	53	8,0
W9-61B733-0690	6,90		91	53	8,0
W9-61B733-0700	7,00	M8x1	91	53	8,0

W9-61B733-0710	7,10			91	53	8,0
W9-61B733-0720	7,20	M8x0,75		91	53	8,0
W9-61B733-0730	7,30			91	53	8,0
W9-61B733-0740	7,40			91	53	8,0
W9-61B733-0745	7,45		M8	91	53	8,0
W9-61B733-0750	7,50			91	53	8,0
W9-61B733-0760	7,60		M8x1	91	53	8,0
W9-61B733-0770	7,70			91	53	8,0

W9-61B733-0780	7,80	M9	91	53	8,0
W9-61B733-0790	7,90		91	53	8,0
W9-61B733-0800	8,00	M9x1	91	53	8,0
W9-61B733-0810	8,10		103	61	10,0
W9-61B733-0820	8,20	M9x0,75	103	61	10,0
W9-61B733-0830	8,30		103	61	10,0
W9-61B733-0840	8,40		103	61	10,0
W9-61B733-0845	8,45	M9	103	61	10,0

W9-61B733-0850	8,50	M10		103	61	10,0
W9-61B733-0860	8,60		M9x1	103	61	10,0
W9-61B733-0870	8,70		M9x0,75	103	61	10,0
W9-61B733-0880	8,80	M10x1,25		103	61	10,0
W9-61B733-0890	8,90			103	61	10,0
W9-61B733-0900	9,00	M10x1		103	61	10,0
W9-61B733-0910	9,10			103	61	10,0
W9-61B733-0920	9,20	M10x0,75		103	61	10,0

W9-61B733-0930	9,30		103	61	10,0
W9-61B733-0935	9,35	M10	103	61	10,0
W9-61B733-0940	9,40		103	61	10,0
W9-61B733-0945	9,45	M10x1,25	103	61	10,0
W9-61B733-0950	9,50	M11	103	61	10,0
W9-61B733-0960	9,60	M10x1	103	61	10,0
W9-61B733-0970	9,70	M10x0,75	103	61	10,0
W9-61B733-0980	9,80		103	61	10,0

W9-61B733-0990	9,90			103	61	10,0
W9-61B733-1000	10,00	M11x1		103	61	10,0
W9-61B733-1010	10,10			118	71	12,0
W9-61B733-1020	10,20	M12		118	71	12,0
W9-61B733-1030	10,30			118	71	12,0
W9-61B733-1040	10,40			118	71	12,0
W9-61B733-1050	10,50	M12x1,5		118	71	12,0
W9-61B733-1060	10,60		M11x1	118	71	12,0

W9-61B733-1070	10,70			118	71	12,0
W9-61B733-1080	10,80	M12x1,25		118	71	12,0
W9-61B733-1090	10,90			118	71	12,0
W9-61B733-1100	11,00	M12x1		118	71	12,0
W9-61B733-1110	11,10			118	71	12,0
W9-61B733-1120	11,20			118	71	12,0
W9-61B733-1125	11,25		M12	118	71	12,0
W9-61B733-1130	11,30			118	71	12,0

W9-61B733-1135	11,35	M12x1,5	118	71	12,0
W9-61B733-1140	11,40		118	71	12,0
W9-61B733-1145	11,45	M12x1,25	118	71	12,0
W9-61B733-1150	11,50		118	71	12,0
W9-61B733-1160	11,60	M12x1	118	71	12,0
W9-61B733-1170	11,70		118	71	12,0
W9-61B733-1180	11,80		118	71	12,0
W9-61B733-1190	11,90		118	71	12,0

W9-61B733-1200	12,00	M14		118	71	12,0
W9-61B733-1230	12,30			124	77	14,0
W9-61B733-1250	12,50	M14x1,5		124	77	14,0
W9-61B733-1280	12,80	M14x1,25		124	77	14,0
W9-61B733-1300	13,00	M14x1	M14	124	77	14,0
W9-61B733-1350	13,50			124	77	14,0
W9-61B733-1380	13,80			124	77	14,0
W9-61B733-1400	14,00	M16; M15x1		124	77	14,0

W9-61B733-1450	14,50	M16x1,5		133	83	16,0
W9-61B733-1480	14,80			133	83	16,0
W9-61B733-1500	15,00	M16x1	M16	133	83	16,0
W9-61B733-1535	15,35		M16x1,5	133	83	16,0
W9-61B733-1550	15,50	M18		133	83	16,0
W9-61B733-1580	15,80			133	83	16,0
W9-61B733-1600	16,00	M18x2		133	83	16,0
W9-61B733-1650	16,50	M18x1,5		143	93	18,0

W9-61B733-1680	16,80		M18	143	93	18,0
W9-61B733-1700	17,00	M18x1		143	93	18,0
W9-61B733-1735	17,35		M18x1,5	143	93	18,0
W9-61B733-1750	17,50	M20		143	93	18,0
W9-61B733-1780	17,80			143	93	18,0
W9-61B733-1800	18,00	M20x2		143	93	18,0
W9-61B733-1850	18,50	M20x1,5		153	101	20,0
W9-61B733-1880	18,80		M20	153	101	20,0

W9-61B733-1900	19,00	M20x1	153	101	20,0	
W9-61B733-1935	19,35		M20x1,5	153	101	20,0
W9-61B733-1950	19,50	M22	153	101	20,0	
W9-61B733-1980	19,80		153	101	20,0	
W9-61B733-2000	20,00	M22x2	153	101	20,0	

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