



# DRILL BITS

2.1 Drill bits

## GENERAL INFORMATION AND PRODUCT INFORMATION

# LUKAS DRILL BITS

## GENERAL

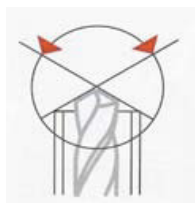
Lukas Abrasives South Africa stocks a large range of drill bits suitable to assist with most drilling applications. Range consists of both 1 star and 2 star qualities that meet the customers needs. The drill bits are packaged with either plastic sleeves or tags that are able to be hange on most shop display boards. Sleeves are colour coded for different applications and quailties assisting the customer in quickly identifyjng the correct drill for the application

## SAFETY ADVICE

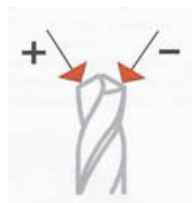
Please note our recommended operating speeds. Pay attention to the safety and accident prevention regulations. Where possible avoid wearing loose or baggy clothes when drilling. Always wear safety glasses when drilling

## HANDLING AND STORAGE ADVICE

Drill bits should be stored in dry, non corrosive conditions. They should be stored in such a way as to prevent falling to prevent chipping or breaking of cutting edges. Apply correct pressures when drilling, excessive pressures will reduce tool life and promote snagging



The Point Angle is the angle between the cutting edges.



Difference in height of the cutting edges, is the difference between the position of the two main cutting edges which is measured vertical to them.



By slide gauge with measuring points is gauged the Web Thickness at the point of the drill.



The margin width is gauged near the corner of the leading edge of land.

TECHNICAL INFORMATION

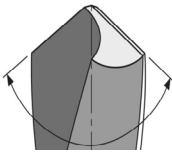
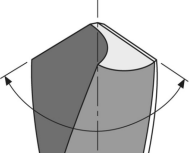
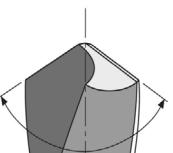
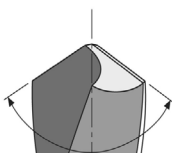
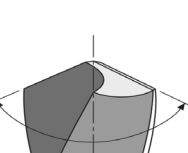
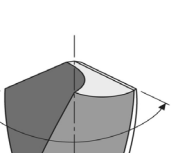
Speeds for drill bits

RECOMMENDED OPERATING SPEEDS

		Soft wood	Hard wood	Plastic	Non ferrous metals	Alumin-ium	Mild steel	Stainless steel	Tool steel	Cast Iron
		Recommended cutting speed $v_c$ (m/min)								
		80	75	75	60	75	34	10	20	30
Drill diameter	1-5	5,100	4,850	4,850	3,850	4,850	2,150	580	1,150	1,950
	6-10	3,180	3,000	3,000	2,400	3,000	1,350	360	720	1,220
	11-16	1,960	1,850	1,850	1,500	1,860	820	220	440	750
	17-25	1,275	1,200	1,200	960	1,200	530	150	290	490
		Speed (rpm)								

POINT ANGLES

Drill bit point angles influence the efficiency and effectiveness of drill rates. As a rule of thumb point angles will increase proportionally to the hardness of the material being drilled

Plastics	Aluminium	Non Ferrous metals	Cast Iron	Mild Steel	Stainless Steel
					
60° - 90°	90° - 135°	90° - 118°	90° - 118°	118° - 135°	118° - 135°

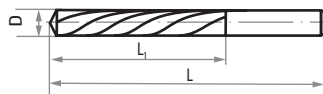
DRILL SIZES FOR TAPPING

Thread size	Metric ISO-regular thread (DIN 13)		Metric ISO-fine thread (DIN 13)	
	Pitch	Drill size	Pitch	Drill size
M3	0.5	2.5	0.35	2.6
M4	0.7	3.3	0.5	3.5
M5	0.8	4.2	0.5	4.5
M6	1.0	5.0	0.75	5.25
M8	1.25	6.8	0.75	7.3
M10	1.5	8.5	1.0	9.0
M12	1.75	10.2	1.5	10.5
M14	2.0	12.0	1.5	12.5
M16	2.0	14.0	1.5	14.5
M18	2.5	15.5	1.5	16.5
M20	2.5	17.5	1.5	18.5
M22	2.5	19.5	1.5	20.5
M24	3.0	21.0	1.5	22.5

# BLACK BRONZE OXIDE COATED

FOR INCREASED DURABILITY

## Black Bronze drill bits








- M2 quality
- manufactured as per DIN 338
- suited to drill stainless steel and other hard materials
- coolant recommended

★★☆

Product number	Description	D mm	L mm	L <sub>1</sub> mm	Point angle	Shank type	Pack contains
2DC0015020203	BLACK BRONZE DRILL 1.5mm	1,5	40	18	118	Straight	2
2DC0020020203	BLACK BRONZE DRILL 2.0mm	2,0	49	24	118	Straight	2
2DC0025020203	BLACK BRONZE DRILL 2.5mm	2,5	57	30	118	Straight	2
2DC0030020203	BLACK BRONZE DRILL 3.0mm	3,0	61	33	118	Straight	2
2DC0035020203	BLACK BRONZE DRILL 3.5mm	3,5	70	39	118	Straight	2
2DC0040020203	BLACK BRONZE DRILL 4.0mm	4,0	75	43	118	Straight	1
2DC0042020203	BLACK BRONZE DRILL 4.2mm	4,2	75	43	118	Straight	1
2DC0045020203	BLACK BRONZE DRILL 4.5mm	4,5	80	47	118	Straight	1
2DC0050020203	BLACK BRONZE DRILL 5.0mm	5,0	86	52	118	Straight	1
2DC0055020203	BLACK BRONZE DRILL 5.5mm	5,5	93	57	118	Straight	1
2DC0060020203	BLACK BRONZE DRILL 6.0mm	6,0	93	57	118	Straight	1
2DC0065020203	BLACK BRONZE DRILL 6.5mm	6,5	101	63	118	Straight	1
2DC0070020203	BLACK BRONZE DRILL 7.0mm	7,0	109	69	118	Straight	1
2DC0080020203	BLACK BRONZE DRILL 8.0mm	8,0	117	75	118	Straight	1
2DC00850020203	BLACK BRONZE DRILL 8.5mm	8,5	117	75	118	Straight	1

Recommended for: Inox/Steel Steel Aluminium Cast material Plastic/Wood

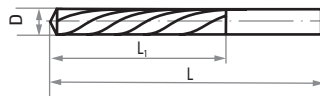
Product number	Description	D mm	L mm	L <sub>1</sub> mm	Point angle	Shank type	Pack contains
2DC0090020203	BLACK BRONZE DRILL 9.0mm	9,0	125	81	118	Straight	1
2DC0095020203	BLACK BRONZE DRILL 9.5mm	9,5	125	81	118	Straight	1
2DC0100020203	BLACK BRONZE DRILL 10.0mm	10,0	133	87	118	Straight	1
2DC01050020203	BLACK BRONZE DRILL 10.5mm	10,5	133	87	118	Straight	1
2DC01100020203	BLACK BRONZE DRILL 11.0mm	11,0	142	94	118	Straight	1
2DC01150020203	BLACK BRONZE DRILL 11.5mm	11,5	142	94	118	Straight	1
2DC0120020203	BLACK BRONZE DRILL 12.0mm	12,0	151	101	118	Straight	1
2DC0125020203	BLACK BRONZE DRILL 12.5mm	12,5	151	101	118	Straight	1
2DC0130020203	BLACK BRONZE DRILL 13.0mm	13,0	151	101	118	Straight	1

Recommended for:  Inox/Steel  Steel  Aluminium  Cast material  Plastic/Wood






## Fully ground drill bits

- fully ground HSS 4341 material
- manufactured as per DIN 338
- precise centricity
- high resistance against breaking force
- optimal chip removal
- suited to drill mild steel, steel alloys, sintered iron, graphite, bronze, brass iron, wood and plastic
- coolant recommended



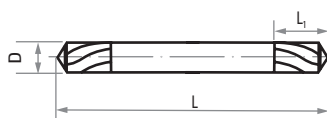
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Product number	Description	D mm	L mm	L <sub>1</sub> mm	Point angle	Shank type	Pack contains
2DB0010010203	HSS FULLY GROUND DRILL 1.0mm	1,0	34	12	118	Straight	2
2DB0015010203	HSS FULLY GROUND DRILL 1.5mm	1,5	40	18	118	Straight	2
2DB0020010203	HSS FULLY GROUND DRILL 2.0mm	2,0	49	24	118	Straight	2
2DB0025010203	HSS FULLY GROUND DRILL 2.5mm	2,5	57	30	118	Straight	2
2DB0030010203	HSS FULLY GROUND DRILL 3.0mm	3,0	61	33	118	Straight	2
2DB0032010203	HSS FULLY GROUND DRILL 3.2mm	3,2	65	36	118	Straight	2
2DB0035010203	HSS FULLY GROUND DRILL 3.5mm	3,5	70	39	118	Straight	2
2DB0038010203	HSS FULLY GROUND DRILL 3.8mm	3,8	75	43	118	Straight	1
2DB0040010203	HSS FULLY GROUND DRILL 4.0mm	4,0	75	43	118	Straight	1
2DB0042010203	HSS FULLY GROUND DRILL 4.2mm	4,2	75	43	118	Straight	1
2DB0045010203	HSS FULLY GROUND DRILL 4.5mm	4,5	80	47	118	Straight	1
2DB0048010203	HSS FULLY GROUND DRILL 4.8mm	4,8	86	52	118	Straight	1
2DB0050010203	HSS FULLY GROUND DRILL 5.0mm	5,0	86	52	118	Straight	1
2DB0052010203	HSS FULLY GROUND DRILL 5.2mm	5,2	86	52	118	Straight	1
2DB0055010203	HSS FULLY GROUND DRILL 5.5mm	5,5	93	57	118	Straight	1

Recommended for:  Steel  Aluminium  Cast material  Plastic/Wood

Product number	Description	D mm	L mm	L <sub>1</sub> mm	Point angle	Shank type	Pack contains
2DB0060010203	HSS FULLY GROUND DRILL 6.0mm	6,0	93	57	118	Straight	1
2DB0065010203	HSS FULLY GROUND DRILL 6.5mm	6,5	101	63	118	Straight	1
2DB0070010203	HSS FULLY GROUND DRILL 7.0mm	7,0	109	69	118	Straight	1
2DB0075010203	HSS FULLY GROUND DRILL 7.5mm	7,5	109	69	118	Straight	1
2DB0080010203	HSS FULLY GROUND DRILL 8.0mm	8,0	117	75	118	Straight	1
2DB0085010203	HSS FULLY GROUND DRILL 8.5mm	8,5	117	75	118	Straight	1
2DB0090010203	HSS FULLY GROUND DRILL 9.0mm	9,0	125	81	118	Straight	1
2DB0095010203	HSS FULLY GROUND DRILL 9.5mm	9,5	125	81	118	Straight	1
2DB0100010203	HSS FULLY GROUND DRILL 10.0mm	10,0	133	87	118	Straight	1
2DB0105010203	HSS FULLY GROUND DRILL 10.5mm	10,5	133	87	118	Straight	1
2DB0110010203	HSS FULLY GROUND DRILL 11.0mm	11,0	142	94	118	Straight	1
2DB0115010203	HSS FULLY GROUND DRILL 11.5mm	11,5	142	94	118	Straight	1
2DB0120010203	HSS FULLY GROUND DRILL 12.0mm	12,0	151	101	118	Straight	1
2DB0125010203	HSS FULLY GROUND DRILL 12.5mm	12,5	151	101	118	Straight	1
2DB0130010203	HSS FULLY GROUND DRILL 13.0mm	13,0	151	101	118	Straight	1
2DB0140010203	HSS FULLY GROUND DRILL 14.0mm	14,0	160	108	118	Straight	1
Recommended for: <span>● Steel</span> <span>● Aluminium</span> <span>● Cast material</span> <span>● Plastic/Wood</span>							

## Double ended drill bits



- fully ground quality
- splitt piont
- high security against fracture due to the short length
- both sides useable therefore long tool life

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Product number	Description	D mm	L mm	L <sub>1</sub> mm	Point angle	Shank type	Pack contains
2DG0033010203	DOUBLE ENDED DRILL 3.3mm	3,3	50	13	118	Straight	1
2DG0041010203	DOUBLE ENDED DRILL 4.1mm	4,1	55	14	118	Straight	1
2DG0049010203	DOUBLE ENDED DRILL 4.9mm	4,9	62	17	118	Straight	1
Recommended for: <span>● Steel</span> <span>● Aluminium</span> <span>● Cast material</span> <span>● Plastic/Wood</span>							

## Drill bit set



- fully ground
- manufactured as per DIN 338
- quality 25pcs set
- coolant recommended

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Product number	Description	Shank type	Pack contains
2DS00250010203	25 PCS FULLY GROUND DRILL BIT SET	Straight	1
Recommended for: <span>● Steel</span> <span>● Aluminium</span> <span>● Cast material</span> <span>● Plastic/Wood</span>			



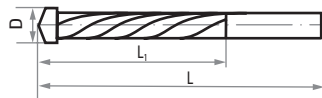
# HIGH PERFORMANCE MASONRY DRILL BITS

TUNGSTEN TIPPED FOR DRILLING INTO THE TOUGHEST MATERIALS

DRILLING



- tungsten carbide tipped
- high performance
- spiral flute ensures rapid removal of dust and debris
- for use on all light and heavy hammer drills with 2 and 3 jaw chuck
- design offers speedy penetration and long life expectancy
- suited for the toughest applications
- designed to drill concrete masonry bricks and natural stone



## Masonry drill bits

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Product number	Description	D mm	L mm	L <sub>1</sub> mm	Number of flutes	Shank type	Pack contains
2DE0030020203	MASONRY HQ DRILL 3.0mm	3,0	85	45	2	Straight	1
2DE0040020203	MASONRY HQ DRILL 4.0mm	4,0	85	45	2	Straight	1
2DE0050020203	MASONRY HQ DRILL 5.0mm	5,0	85	45	2	Straight	1
2DE0055020203	MASONRY HQ DRILL 5.5mm	5,5	90	60	2	Straight	1
2DE0060020203	MASONRY HQ DRILL 6.0mm	6,0	90	60	2	Straight	1
2DE0065020203	MASONRY HQ DRILL 6.5mm	6,5	100	60	2	Straight	1
2DE0070020203	MASONRY HQ DRILL 7.0mm	7,0	100	65	2	Straight	1
2DE0080020203	MASONRY HQ DRILL 8.0mm	8,0	110	65	2	Straight	1
2DE0090020203	MASONRY HQ DRILL 9.0mm	9,0	110	65	2	Straight	1
2DE0100020203	MASONRY HQ DRILL 10.0mm	10,0	110	65	2	Straight	1
2DE0110020203	MASONRY HQ DRILL 11.0mm	11,0	150	90	2	Straight	1
2DE0120020203	MASONRY HQ DRILL 12.0mm	12,0	150	100	2	Straight	1
2DE0130020203	MASONRY HQ DRILL 13.0mm	13,0	140	85	2	Straight	1
2DE0140020203	MASONRY HQ DRILL 14.0mm	14,0	150	90	2	Straight	1
2DE0160020203	MASONRY HQ DRILL 16.0mm	16,0	150	90	2	Straight	1
2DE0200020203	MASONRY HQ DRILL 20.0mm	20,0	160	85	2	Straight	1
2DE0220020203	MASONRY HQ DRILL 22.0mm	22,0	160	95	2	Straight	1

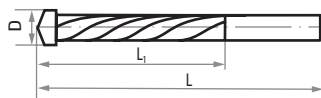
Recommended for:

● Stone/Construction material

## EXTRA LENGTH DRILLS FOR

FOR GETTING THROUGH DOUBLE BRICK WALL APPLICATIONS

### Masonry drill bits extra length



- tungsten carbide tipped
- high performance
- spiral flute ensures rapid removal of dust and debris
- for use on all light and heavy hammer drills with 2 and 3 jaw chuck
- extra length



Product number	Description	D mm	L mm	L <sub>1</sub> mm	Number of flutes	Shank type	Pack contains
2DE084000020203	MASONRY HQ DRILL 8.0mm x 400mm	8,0	400	275	2	Straight	1
2DE104000020203	MASONRY HQ DRILL 10.0mm x 400mm	10,0	400	255	2	Straight	1
2DE124000020203	MASONRY HQ DRILL 12.0mm x 400mm	12,0	400	310	2	Straight	1
2DE144000020203	MASONRY HQ DRILL 14.0mm x 400mm	14,0	400	300	2	Straight	1
2DE164000020203	MASONRY HQ DRILL 16.0mm x 400mm	16,0	400	310	2	Straight	1
2DE184000020203	MASONRY HQ DRILL 18.0mm x 400mm	18,0	400	315	2	Straight	1
2DE204000020203	MASONRY HQ DRILL 20.0mm x 400mm	20,0	400	310	2	Straight	1
2DE254000020203	MASONRY HQ DRILL 25.0mm x 400mm	25,0	400	305	2	Straight	1

Recommended for:

● Stone/Construction material

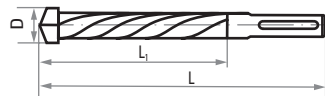


# SDS PLUS AND MAX DRILLS

FOR ANY HEAVY DUTY APPLICATIONS

DRILLING

## SDS MAX drill bits



- plastic tag packaging for easy hanging on displayboard
- for rotary hammer drills with SDS Max chuck
- high quality 4 cutter head construction
- 4 flute spiral ensures rapid removal of dust and debris
- guides the drill centrally in the hole
- the design of the drill reduces vibration
- designed to drill concrete, masonry and natural stone

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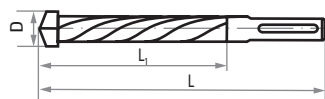
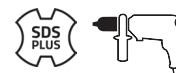
Product number	Description	D mm	L mm	L <sub>1</sub> mm	Number of flutes	Shank type	Pack contains
2DH102800044203	SDS DRILL 10x280 MAX 4-STAR	10,0	280	120	4	SDS MAX	1
2DH122800044203	SDS DRILL 12x280 MAX 4-STAR	12,0	280	125	4	SDS MAX	1
2DH12400011203	SDS DRILL 12x400 MAX 4-STAR	12,0	400	240	4	SDS MAX	1
2DH125700044203	SDS DRILL 12x570 MAX 4-STAR	12,0	575	420	4	SDS MAX	1
2DH142800044203	SDS DRILL 14x280 MAX 4-STAR	14,0	280	130	4	SDS MAX	1
2DH144000044203	SDS DRILL 14x400 MAX 4-STAR	14,0	400	250	4	SDS MAX	1
2DH145050044203	SDS DRILL 14x505 MAX 4-STAR	14,0	505	345	4	SDS MAX	1
2DH162800044203	SDS DRILL 16x280 MAX 4-STAR	16,0	280	130	4	SDS MAX	1
2DH16400012203	SDS DRILL 16x400 MAX 4-STAR	16,0	400	250	4	SDS MAX	1
2DH165050044203	SDS DRILL 16x505 MAX 4-STAR	16,0	510	355	4	SDS MAX	1
2DH165700044203	SDS DRILL 16x570 MAX 4-STAR	16,0	575	420	4	SDS MAX	1
2DH182800044203	SDS DRILL 18x280 MAX 4-STAR	18,0	285	130	4	SDS MAX	1
2DH184000044203	SDS DRILL 18x400 MAX 4-STAR	18,0	400	255	4	SDS MAX	1
2DH185050044203	SDS DRILL 18x505 MAX 4-STAR	18,0	505	345	4	SDS MAX	1
2DH185700044203	SDS DRILL 18x570 MAX 4-STAR	18,0	570	430	4	SDS MAX	1
2DH202800044203	SDS DRILL 20x280 MAX 4-STAR	20,0	285	150	4	SDS MAX	1
2DH204000044203	SDS DRILL 20x400 MAX 4-STAR	20,0	405	260	4	SDS MAX	1

Recommended for:

● Stone/Construction material

Product number	Description	D mm	L mm	L <sub>1</sub> mm	Number of flutes	Shank type	Pack contains
2DH205050044203	SDS DRILL 20x505 MAX 4-STAR	20,0	510	355	4	SDS MAX	1
2DH205700044203	SDS DRILL 20x570 MAX 4-STAR	20,0	575	425	4	SDS MAX	1
2DH222800044203	SDS DRILL 22x280 MAX 4-STAR	22,0	285	150	4	SDS MAX	1
2DH224000044203	SDS DRILL 22x400 MAX 4-STAR	22,0	400	265	4	SDS MAX	1
2DH225050044203	SDS DRILL 22x505 MAX 4-STAR	22,0	510	360	4	SDS MAX	1
2DH225700044203	SDS DRILL 22x570 MAX 4-STAR	22,0	570	425	4	SDS MAX	1
2DH242800044203	SDS DRILL 24x280 MAX 4-STAR	24,0	285	150	4	SDS MAX	1
2DH245700044203	SDS DRILL 24x570 MAX 4-STAR	24,0	575	425	4	SDS MAX	1
2DH254000044203	SDS DRILL 25x400 MAX 4-STAR	25,0	410	260	4	SDS MAX	1
2DH255050044203	SDS DRILL 25x505 MAX 4-STAR	25,0	510	355	4	SDS MAX	1
2DH255700044203	SDS DRILL 25x570 MAX 4-STAR	25,0	580	425	4	SDS MAX	1
2DH265700044203	SDS DRILL 26x570 MAX 4-STAR	26,0	575	410	4	SDS MAX	1
2DH284000044203	SDS DRILL 28x400 MAX 4-STAR	28,0	405	240	4	SDS MAX	1
2DH285050044203	SDS DRILL 28x505 MAX 4-STAR	28,0	510	345	4	SDS MAX	1
2DH285700044203	SDS DRILL 28x570 MAX 4-STAR	28,0	575	410	4	SDS MAX	1
2DH304000044203	SDS DRILL 30x400 MAX 4-STAR	30,0	405	240	4	SDS MAX	1
2DH305050044203	SDS DRILL 30x505 MAX 4-STAR	30,0	515	355	4	SDS MAX	1
2DH324000044203	SDS DRILL 32x400 MAX 4-STAR	32,0	405	240	4	SDS MAX	1
2DH325700044203	SDS DRILL 32x570 MAX 4-STAR	32,0	575	410	4	SDS MAX	1
2DH355050044203	SDS DRILL 35x505 MAX 4-STAR	35,0	510	340	4	SDS MAX	1
2DH385050044203	SDS DRILL 38x505 MAX 4-STAR	38,0	510	345	4	SDS MAX	1
2DH405050044203	SDS DRILL 40x505 MAX 4-STAR	40,0	510	345	4	SDS MAX	1
Recommended for:						● Stone/Construction material	

## SDS PLUS drill bits



★★☆

- plastic tag packaging for easy hanging on displayboard
- for rotary hammer drills with SDS PLUS chuck
- 4 flute shaft spiral stabilizes the drill bit
- easier drilling with reduced strain on both power tool and operator
- debris and dust are quickly removed
- designed to drill concrete, masonry and natural stone

Product number	Description	D mm	L mm	L <sub>1</sub> mm	Number of flutes	Shank type	Pack contains
2DF041100010203	SDS DRILL 4x110 PLUS	4,0	110	40	4	SDS PLUS	1
2DF051100010203	SDS DRILL 5x110 PLUS	5,0	110	40	4	SDS PLUS	1
2DF051600010203	SDS DRILL 5x160 PLUS	5,0	160	80	4	SDS PLUS	1
2DF052100010203	SDS DRILL 5x210 PLUS	5,0	210	135	4	SDS PLUS	1
2DF055160010203	SDS DRILL 5.5x160 PLUS	5,5	160	85	4	SDS PLUS	1
2DF061100010203	SDS DRILL 6.x110 PLUS	6,0	110	35	4	SDS PLUS	1
2DF061600010203	SDS DRILL 6.160 PLUS	6,0	160	90	4	SDS PLUS	1
2DF062100010203	SDS DRILL 6x210 PLUS	6,0	210	135	4	SDS PLUS	1
2DF062600010203	SDS DRILL 6x260 PLUS	6,0	260	175	4	SDS PLUS	1
2DF065110010203	SDS DRILL 6.5x110 PLUS	6,5	110	85	4	SDS PLUS	1
2DF065160010203	SDS DRILL 6.5x160 PLUS	6,5	160	85	4	SDS PLUS	1
Recommended for:						● Stone/Construction material	

Product number	Description	D mm	L mm	L <sub>1</sub> mm	Number of flutes	Shank type	Pack contains
2DF081100010203	SDS DRILL 8x110 PLUS	8,0	110	35	4	SDS PLUS	1
2DF081600010203	SDS DRILL 8x160 PLUS	8,0	160	85	4	SDS PLUS	1
2DF082100010203	SDS DRILL 8x210 PLUS	8,0	210	135	4	SDS PLUS	1
2DF082600010203	SDS DRILL 8x260 PLUS	8,0	260	185	4	SDS PLUS	1
2DF083100010203	SDS DRILL 8x310 PLUS	8,0	310	210	4	SDS PLUS	1
2DF101600010203	SDS DRILL 10x160 PLUS	10,0	160	85	4	SDS PLUS	1
2DF102100010203	SDS DRILL 10x210 PLUS	10,0	210	135	4	SDS PLUS	1
2DF102600010203	SDS DRILL 10x260 PLUS	10,0	260	185	4	SDS PLUS	1
2DF103100010203	SDS DRILL 10x310 PLUS	10,0	310	220	4	SDS PLUS	1
2DF104000010203	SDS DRILL 10x400 PLUS	10,0	400	315	4	SDS PLUS	1
2DF104500010203	SDS DRILL 10x450 PLUS	10,0	450	350	4	SDS PLUS	1
2DF121600010203	SDS DRILL 12x160 PLUS	12,0	160	85	4	SDS PLUS	1
2DF122100010203	SDS DRILL 12x210 PLUS	12,0	210	140	4	SDS PLUS	1
2DF122600010203	SDS DRILL 12x260 PLUS	12,0	260	185	4	SDS PLUS	1
2DF123100010203	SDS DRILL 12x310 PLUS	12,0	310	215	4	SDS PLUS	1
2DF124000010203	SDS DRILL 12x400 PLUS	12,0	400	310	4	SDS PLUS	1
2DF124500010203	SDS DRILL 12x450 PLUS	12,0	450	350	4	SDS PLUS	1
2DF132600010203	SDS DRILL 13x260 PLUS	13,0	260	220	4	SDS PLUS	1
2DF141600010203	SDS DRILL 14x160 PLUS	14,0	160	70	4	SDS PLUS	1
2DF142100010203	SDS DRILL 14x210 PLUS	14,0	210	125	4	SDS PLUS	1
2DF142600010203	SDS DRILL 14x260 PLUS	14,0	260	180	4	SDS PLUS	1
2DF143100010203	SDS DRILL 14x310 PLUS	14,0	310	230	4	SDS PLUS	1
2DF144500010203	SDS DRILL 14x450 PLUS	14,0	450	355	4	SDS PLUS	1
2DF161600010203	SDS DRILL 16x160 PLUS	16,0	160	85	4	SDS PLUS	1
2DF162100010203	SDS DRILL 16x210 PLUS	16,0	210	130	4	SDS PLUS	1
2DF162600010203	SDS DRILL 16x260 PLUS	16,0	260	175	4	SDS PLUS	1
2DF163100010203	SDS DRILL 16x310 PLUS	16,0	310	230	4	SDS PLUS	1
2DF164000010203	SDS DRILL 16x400 PLUS	16,0	400	310	4	SDS PLUS	1
2DF164500010203	SDS DRILL 16x450 PLUS	18,0	450	350	4	SDS PLUS	1
2DF182100010203	SDS DRILL 18x210 PLUS	18,0	210	130	4	SDS PLUS	1
2DF182600010203	SDS DRILL 18x260 PLUS	18,0	260	175	4	SDS PLUS	1
2DF183100010203	SDS DRILL 18x310 PLUS	18,0	310	230	4	SDS PLUS	1
2DF184000010203	SDS DRILL 18x400 PLUS	18,0	400	310	4	SDS PLUS	1
2DF184500010203	SDS DRILL 18x450 PLUS	18,0	450	350	4	SDS PLUS	1
2DF202100010203	SDS DRILL 20x210 PLUS	20,0	210	110	4	SDS PLUS	1
2DF202600010203	SDS DRILL 20x260 PLUS	20,0	260	180	4	SDS PLUS	1
2DF203100010203	SDS DRILL 20x310 PLUS	20,0	310	230	4	SDS PLUS	1
2DF204000010203	SDS DRILL 20x400 PLUS	20,0	400	310	4	SDS PLUS	1
2DF204500010203	SDS DRILL 20x450 PLUS	20,0	450	355	4	SDS PLUS	1
2DF222100010203	SDS DRILL 22x210 PLUS	22,0	210	130	4	SDS PLUS	1
2DF222600010203	SDS DRILL 22x260 PLUS	22,0	260	165	4	SDS PLUS	1
2DF223100010203	SDS DRILL 22x310 PLUS	22,0	310	230	4	SDS PLUS	1
2DF224000010203	SDS DRILL 22x400 PLUS	22,0	400	310	4	SDS PLUS	1
2DF224500010203	SDS DRILL 22x450 PLUS	22,0	450	355	4	SDS PLUS	1
2DF244500010203	SDS DRILL 24x450 PLUS	24,0	450	355	4	SDS PLUS	1
2DF252600010203	SDS DRILL 25x260 PLUS	25,0	260	180	4	SDS PLUS	1
2DF254000010203	SDS DRILL 25x400 PLUS	25,0	400	310	4	SDS PLUS	1
2DF254500010203	SDS DRILL 25x450 PLUS	25,0	450	355	4	SDS PLUS	1
2DF264500010203	SDS DRILL 26x450 PLUS	26,0	450	355	4	SDS PLUS	1

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