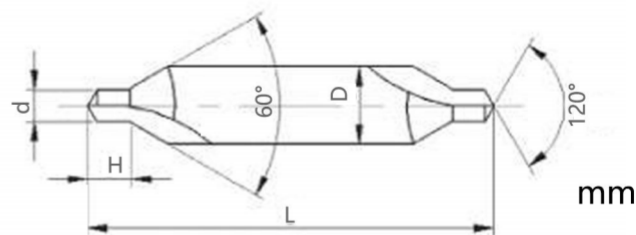


Center Drill Bits



HSS-Center Drill



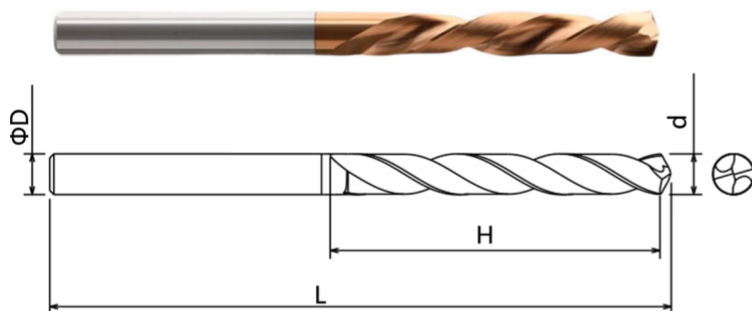
Carbide-Center Drill

MODEL	Φ Edge Diameter	Shank Diameter	Full Length	Type
	Φ d	D	L	
CMD-A1.0xD4	Φ 1.00	4	35.5	A-60°
CMD-A1.5xD4	Φ 1.50	4	35.5	A-60°
CMD-A2.0xD5	Φ 2.00	5	40	A-60°
CMD-A2.5xD6	Φ 2.50	6	45	A-60°
CMD-A3.0xD8	Φ 3.00	8	50	A-60°
CMD-A3.15xD8	Φ 3.15	8	50	A-60°
CMD-A3.5xD8	Φ 3.50	8	50	A-60°
CMD-A4.0xD10	Φ 4.00	10	56	A-60°
CMD-A5.0xD12	Φ 5.00	12	63	A-60°
CMD-A6.0xD14	Φ 6.00	14	71	A-60°
CMD-A8.0xD20	Φ 8.00	20	80	A-60°
CMD-A10.0xD25	Φ 10.00	25	100	A-60°

MODEL	Φ Edge Diameter	Shank Diameter	Full Length	Flute Length
	Φ d	D	L	H
CMD-A1.0xD4-C	Φ 1.00	4	50	1.6
CMD-A1.5xD4-C	Φ 1.50	4	50	1.8
CMD-A2.0xD5-C	Φ 2.00	5	50	2.7
CMD-A2.5xD6-C	Φ 2.50	6	50	3.0
CMD-A3.0xD8-C	Φ 3.00	8	60	4.0
CMD-A3.15xD8-C	Φ 3.15	8	60	4.0
CMD-A3.5xD8-C	Φ 3.50	8	60	4.1
CMD-A4.0xD10-C	Φ 4.00	10	60	5.0
CMD-A5.0xD12-C	Φ 5.00	12	75	8.0
CMD-A6.0xD12-C	Φ 6.00	12	75	8.2

Carbide Straight Shank Drill Bits

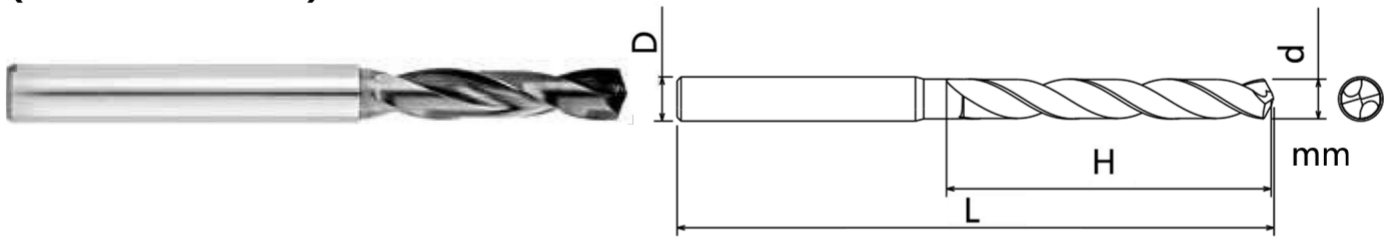
(VHM-ST-ΦD)



Φ Edge Diameter	Shank Diameter	Full Length	Flute Length
Φ d	D	L	H
Φ 1.0-1.5	1.0-1.5	35	15
Φ 1.6-2.0	1.6-2.0	45	16
Φ 2.1-6.0	2.1-6.0	50	25
Φ 6.1-9.0	6.1-9.0	60	30
Φ 9.1-10.0	9.1-10.0	70	35
Φ 10.1-14.0	10.1-14.0	75	40
Φ 2.0-9.0	2.0-9.0	80	40
Φ 2.0-13.0	2.0-13.0	100	60

Solid carbide 3D drill

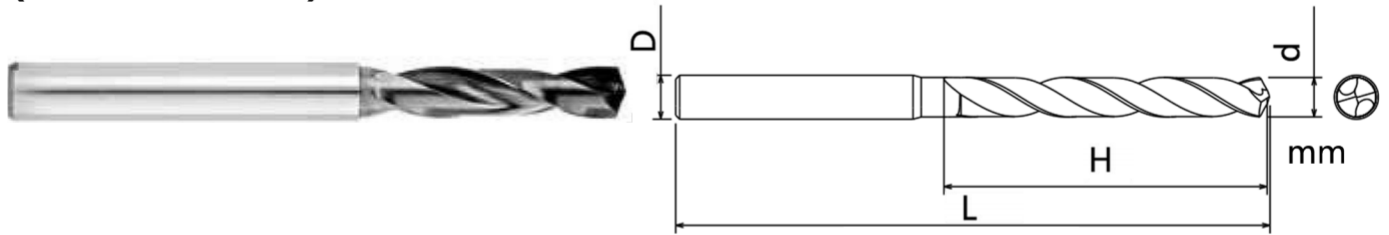
(Code :VHM-3D)



MODEL	Φ Edge Diameter	Shank Diameter	Full Length	Flute Length	MODEL	Φ Edge Diameter	Shank Diameter	Full Length	Flute Length
	Φ d	D	L	H		Φ d	D	L	H
VHM-3D-0.60x5xD4x50L	Φ 0.60	4	50	5	VHM-3D-5.50x26xD6x60L	Φ 5.50	6	60	26
VHM-3D-0.65x5xD4x50L	Φ 0.65	4	50	5	VHM-3D-5.60x26xD6x60L	Φ 5.60	6	60	26
VHM-3D-0.70x5xD4x50L	Φ 0.70	4	50	5	VHM-3D-5.70x26xD6x60L	Φ 5.70	6	60	26
VHM-3D-0.75x5xD4x50L	Φ 0.75	4	50	5	VHM-3D-5.80x26xD6x60L	Φ 5.80	6	60	26
VHM-3D-0.80x5xD4x50L	Φ 0.80	4	50	5	VHM-3D-5.90x26xD6x60L	Φ 5.90	6	60	26
VHM-3D-0.85x5xD4x50L	Φ 0.85	4	50	5	VHM-3D-6.00x26xD6x60L	Φ 6.00	6	60	26
VHM-3D-0.90x5xD4x50L	Φ 0.90	4	50	5	VHM-3D-6.10x28xD8x60L	Φ 6.10	8	60	28
VHM-3D-0.95x5xD4x50L	Φ 0.95	4	50	5	VHM-3D-6.20x28xD8x60L	Φ 6.20	8	60	28
VHM-3D-1.00x8xD4x50L	Φ 1.00	4	50	8	VHM-3D-6.30x28xD8x60L	Φ 6.30	8	60	28
VHM-3D-1.10x8xD4x50L	Φ 1.10	4	50	8	VHM-3D-6.40x28xD8x60L	Φ 6.40	8	60	28
VHM-3D-1.20x8xD4x50L	Φ 1.20	4	50	8	VHM-3D-6.50x28xD8x60L	Φ 6.50	8	60	28
VHM-3D-1.30x8xD4x50L	Φ 1.30	4	50	8	VHM-3D-6.60x28xD8x60L	Φ 6.60	8	60	28
VHM-3D-1.40x8xD4x50L	Φ 1.40	4	50	8	VHM-3D-6.70x28xD8x60L	Φ 6.70	8	60	28
VHM-3D-1.50x8xD4x50L	Φ 1.50	4	50	8	VHM-3D-6.80x28xD8x60L	Φ 6.80	8	60	28
VHM-3D-1.60x11xD4x50L	Φ 1.60	4	50	11	VHM-3D-6.90x28xD8x60L	Φ 6.90	8	60	28
VHM-3D-1.70x11xD4x50L	Φ 1.70	4	50	11	VHM-3D-7.00x28xD8x60L	Φ 7.00	8	60	28
VHM-3D-1.80x11xD4x50L	Φ 1.80	4	50	11	VHM-3D-7.10x30xD8x60L	Φ 7.10	8	60	30
VHM-3D-1.90x11xD4x50L	Φ 1.90	4	50	11	VHM-3D-7.20x30xD8x60L	Φ 7.20	8	60	30
VHM-3D-2.00x11xD4x50L	Φ 2.00	4	50	11	VHM-3D-7.30x30xD8x60L	Φ 7.30	8	60	30
VHM-3D-2.10x13xD4x50L	Φ 2.10	4	50	13	VHM-3D-7.40x30xD8x60L	Φ 7.40	8	60	30
VHM-3D-2.20x13xD4x50L	Φ 2.20	4	50	13	VHM-3D-7.50x30xD8x60L	Φ 7.50	8	60	30
VHM-3D-2.30x13xD4x50L	Φ 2.30	4	50	13	VHM-3D-7.60x30xD8x60L	Φ 7.60	8	60	30
VHM-3D-2.40x13xD4x50L	Φ 2.40	4	50	13	VHM-3D-7.70x30xD8x60L	Φ 7.70	8	60	30
VHM-3D-2.50x13xD4x50L	Φ 2.50	4	50	13	VHM-3D-7.80x30xD8x60L	Φ 7.80	8	60	30
VHM-3D-2.60x16xD4x50L	Φ 2.60	4	50	16	VHM-3D-7.90x30xD8x60L	Φ 7.90	8	60	30
VHM-3D-2.70x16xD4x50L	Φ 2.70	4	50	16	VHM-3D-8.00x30xD8x60L	Φ 8.00	8	60	30
VHM-3D-2.80x16xD4x50L	Φ 2.80	4	50	16	VHM-3D-8.10x34xD10x75L	Φ 8.10	10	75	34
VHM-3D-2.90x16xD4x50L	Φ 2.90	4	50	16	VHM-3D-8.20x34xD10x75L	Φ 8.20	10	75	34
VHM-3D-3.00x16xD4x50L	Φ 3.00	4	50	16	VHM-3D-8.30x34xD10x75L	Φ 8.30	10	75	34
VHM-3D-3.10x18xD4x50L	Φ 3.10	4	50	18	VHM-3D-8.40x34xD10x75L	Φ 8.40	10	75	34
VHM-3D-3.20x18xD4x50L	Φ 3.20	4	50	18	VHM-3D-8.50x34xD10x75L	Φ 8.50	10	75	34
VHM-3D-3.30x18xD4x50L	Φ 3.30	4	50	18	VHM-3D-8.60x36xD10x75L	Φ 8.60	10	75	36
VHM-3D-3.40x18xD4x50L	Φ 3.40	4	50	18	VHM-3D-8.70x36xD10x75L	Φ 8.70	10	75	36
VHM-3D-3.50x18xD4x50L	Φ 3.50	4	50	18	VHM-3D-8.80x36xD10x75L	Φ 8.80	10	75	36
VHM-3D-3.60x20xD4x50L	Φ 3.60	4	50	20	VHM-3D-8.90x36xD10x75L	Φ 8.90	10	75	36
VHM-3D-3.70x20xD4x50L	Φ 3.70	4	50	20	VHM-3D-9.00x36xD10x75L	Φ 9.00	10	75	36
VHM-3D-3.80x20xD4x50L	Φ 3.80	4	50	20	VHM-3D-9.10x38xD10x75L	Φ 9.10	10	75	38
VHM-3D-3.90x20xD4x50L	Φ 3.90	4	50	20	VHM-3D-9.20x38xD10x75L	Φ 9.20	10	75	38
VHM-3D-4.00x20xD4x50L	Φ 4.00	4	50	20	VHM-3D-9.30x38xD10x75L	Φ 9.30	10	75	38
VHM-3D-4.10x20xD6x50L	Φ 4.10	6	50	20	VHM-3D-9.40x38xD10x75L	Φ 9.40	10	75	38
VHM-3D-4.20x20xD6x50L	Φ 4.20	6	50	20	VHM-3D-9.50x38xD10x75L	Φ 9.50	10	75	38
VHM-3D-4.30x20xD6x50L	Φ 4.30	6	50	20	VHM-3D-9.60x40xD10x75L	Φ 9.60	10	75	40
VHM-3D-4.50x20xD6x50L	Φ 4.50	6	50	20	VHM-3D-9.70x40xD10x75L	Φ 9.70	10	75	40
VHM-3D-4.60x24xD6x60L	Φ 4.60	6	60	24	VHM-3D-9.80x40xD10x75L	Φ 9.80	10	75	40
VHM-3D-4.70x24xD6x60L	Φ 4.70	6	60	24	VHM-3D-9.90x40xD10x75L	Φ 9.90	10	75	40
VHM-3D-4.80x24xD6x60L	Φ 4.80	6	60	24	VHM-3D-10.00x40xD10x75L	Φ 10.00	10	75	40
VHM-3D-4.90x24xD6x60L	Φ 4.90	6	60	24	VHM-3D-10.10x42xD12x75L	Φ 10.10	12	75	42
VHM-3D-5.00x24xD6x60L	Φ 5.00	6	60	24	VHM-3D-10.50x42xD12x75L	Φ 10.50	12	75	42
VHM-3D-5.10x26xD6x60L	Φ 5.10	6	60	26	VHM-3D-10.90x42xD12x75L	Φ 10.90	12	75	42
VHM-3D-5.20x26xD6x60L	Φ 5.20	6	60	26	VHM-3D-11.00x42xD12x75L	Φ 11.00	12	75	42
VHM-3D-5.30x26xD6x60L	Φ 5.30	6	60	26	VHM-3D-11.50x45xD12D75L	Φ 11.50	12	75	45
VHM-3D-5.40x26xD6x60L	Φ 5.40	6	60	26	VHM-3D-12.00x45xD12D75L	Φ 12.00	12	75	45

Solid carbide 5D drill

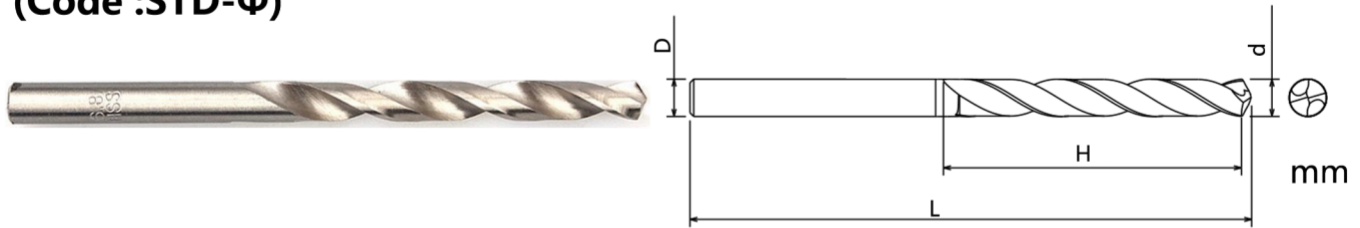
(Code :VHM-5D)



MODEL	Φ Edge Diameter	Shank Diameter	Full Length	Flute Length	MODEL	Φ Edge Diameter	Shank Diameter	Full Length	Flute Length
	Φ d	D	L	H		Φ d	D	L	H
VHM-5D-1.00x13xD4x50L	Φ 1.00	4	50	13	VHM-5D-6.10x48xD8x100L	Φ 6.10	8	100	48
VHM-5D-1.10x13xD4x50L	Φ 1.10	4	50	13	VHM-5D-6.20x48xD8x100L	Φ 6.20	8	100	48
VHM-5D-1.20x13xD4x50L	Φ 1.20	4	50	13	VHM-5D-6.30x48xD8x100L	Φ 6.30	8	100	48
VHM-5D-1.30x13xD4x50L	Φ 1.30	4	50	13	VHM-5D-6.40x48xD8x100L	Φ 6.40	8	100	48
VHM-5D-1.40x13xD4x50L	Φ 1.40	4	50	13	VHM-5D-6.50x48xD8x100L	Φ 6.50	8	100	48
VHM-5D-1.50x13xD4x50L	Φ 1.50	4	50	13	VHM-5D-6.60x48xD8x100L	Φ 6.60	8	100	48
VHM-5D-1.60x20xD4x50L	Φ 1.60	4	50	20	VHM-5D-6.70x48xD8x100L	Φ 6.70	8	100	48
VHM-5D-1.70x20xD4x50L	Φ 1.70	4	50	20	VHM-5D-6.80x48xD8x100L	Φ 6.80	8	100	48
VHM-5D-1.80x20xD4x50L	Φ 1.80	4	50	20	VHM-5D-6.90x48xD8x100L	Φ 6.90	8	100	48
VHM-5D-1.90x20xD4x50L	Φ 1.90	4	50	20	VHM-5D-7.00x48xD8x100L	Φ 7.00	8	100	48
VHM-5D-2.00x20xD4x50L	Φ 2.00	4	50	20	VHM-5D-7.10x48xD8x100L	Φ 7.10	8	100	48
VHM-5D-2.10x22xD4x75L	Φ 2.10	4	75	22	VHM-5D-7.20x48xD8x100L	Φ 7.20	8	100	48
VHM-5D-2.20x22xD4x75L	Φ 2.20	4	75	22	VHM-5D-7.30x48xD8x100L	Φ 7.30	8	100	48
VHM-5D-2.30x22xD4x75L	Φ 2.30	4	75	22	VHM-5D-7.40x48xD8x100L	Φ 7.40	8	100	48
VHM-5D-2.40x22xD4x75L	Φ 2.40	4	75	22	VHM-5D-7.50x48xD8x100L	Φ 7.50	8	100	48
VHM-5D-2.50x22xD4x75L	Φ 2.50	4	75	22	VHM-5D-7.60x48xD8x100L	Φ 7.60	8	100	48
VHM-5D-2.60x26xD4x75L	Φ 2.60	4	75	26	VHM-5D-7.70x48xD8x100L	Φ 7.70	8	100	48
VHM-5D-2.70x26xD4x75L	Φ 2.70	4	75	26	VHM-5D-7.80x48xD8x100L	Φ 7.80	8	100	48
VHM-5D-2.80x26xD4x75L	Φ 2.80	4	75	26	VHM-5D-7.90x48xD8x100L	Φ 7.90	8	100	48
VHM-5D-2.90x26xD4x75L	Φ 2.90	4	75	26	VHM-5D-8.00x48xD8x100L	Φ 8.00	8	100	48
VHM-5D-3.00x26xD4x75L	Φ 3.00	4	75	26	VHM-5D-8.10x56xD10x100L	Φ 8.10	10	100	56
VHM-5D-3.10x28xD4x75L	Φ 3.10	4	75	28	VHM-5D-8.20x56xD10x100L	Φ 8.20	10	100	56
VHM-5D-3.20x28xD4x75L	Φ 3.20	4	75	28	VHM-5D-8.30x56xD10x100L	Φ 8.30	10	100	56
VHM-5D-3.30x28xD4x75L	Φ 3.30	4	75	28	VHM-5D-8.40x56xD10x100L	Φ 8.40	10	100	56
VHM-5D-3.40x28xD4x75L	Φ 3.40	4	75	28	VHM-5D-8.50x56xD10x100L	Φ 8.50	10	100	56
VHM-5D-3.50x28xD4x75L	Φ 3.50	4	75	28	VHM-5D-8.60x56xD10x100L	Φ 8.60	10	100	56
VHM-5D-3.60x32xD4x75L	Φ 3.60	4	75	32	VHM-5D-8.70x56xD10x100L	Φ 8.70	10	100	56
VHM-5D-3.70x32xD4x75L	Φ 3.70	4	75	32	VHM-5D-8.80x56xD10x100L	Φ 8.80	10	100	56
VHM-5D-3.80x32xD4x75L	Φ 3.80	4	75	32	VHM-5D-8.90x56xD10x100L	Φ 8.90	10	100	56
VHM-5D-3.90x32xD4x75L	Φ 3.90	4	75	32	VHM-5D-9.00x56xD10x100L	Φ 9.00	10	100	56
VHM-5D-4.00x32xD4x75L	Φ 4.00	4	75	32	VHM-5D-9.10x58xD10x100L	Φ 9.10	10	100	58
VHM-5D-4.10x36xD6x75L	Φ 4.10	6	75	36	VHM-5D-9.20x58xD10x100L	Φ 9.20	10	100	58
VHM-5D-4.20x36xD6x75L	Φ 4.20	6	75	36	VHM-5D-9.30x58xD10x100L	Φ 9.30	10	100	58
VHM-5D-4.30x36xD6x75L	Φ 4.30	6	75	36	VHM-5D-9.40x58xD10x100L	Φ 9.40	10	100	58
VHM-5D-4.40x36xD6x75L	Φ 4.40	6	75	36	VHM-5D-9.50x58xD10x100L	Φ 9.50	10	100	58
VHM-5D-4.50x36xD6x75L	Φ 4.50	6	75	36	VHM-5D-9.60x58xD10x100L	Φ 9.60	10	100	58
VHM-5D-4.60x36xD6x75L	Φ 4.60	6	75	36	VHM-5D-9.70x58xD10x100L	Φ 9.70	10	100	58
VHM-5D-4.70x36xD6x75L	Φ 4.70	6	75	36	VHM-5D-9.80x58xD10x100L	Φ 9.80	10	100	58
VHM-5D-4.80x36xD6x75L	Φ 4.80	6	75	36	VHM-5D-9.90x58xD10x100L	Φ 9.90	10	100	58
VHM-5D-4.90x36xD6x75L	Φ 4.90	6	75	36	VHM-5D-10.00x58xD10x100L	Φ 10.00	10	100	58
VHM-5D-5.00x36xD6x75L	Φ 5.00	6	75	36	VHM-5D-10.50x58xD10x100L	Φ 10.50	10	100	58
VHM-5D-5.10x40xD6x75L	Φ 5.10	6	75	40	VHM-5D-11.00x58xD10x100L	Φ 11.00	10	100	58
VHM-5D-5.20x40xD6x75L	Φ 5.20	6	75	40	VHM-5D-11.50x65xD12x100L	Φ 11.50	12	100	65
VHM-5D-5.30x40xD6x75L	Φ 5.30	6	75	40	VHM-5D-12.00x65xD12x100L	Φ 12.00	12	100	65
VHM-5D-5.40x40xD6x75L	Φ 5.40	6	75	40					
VHM-5D-5.50x40xD6x75L	Φ 5.50	6	75	40					
VHM-5D-5.60x40xD6x75L	Φ 5.60	6	75	40					
VHM-5D-5.70x40xD6x75L	Φ 5.70	6	75	40					
VHM-5D-5.80x40xD6x75L	Φ 5.80	6	75	40					
VHM-5D-5.90x40xD6x75L	Φ 5.90	6	75	40					
VHM-5D-6.00x40xD6x75L	Φ 6.00	6	75	40					

HSS Straight Shank Drill -DIN 338

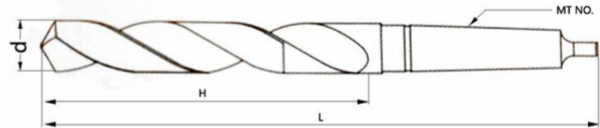
(Code :STD-Φ)



Φ Edge Diameter	Shank Diameter	Full Length	Flute Length	Φ Edge Diameter	Shank Diameter	Full Length	Flute Length
Φ d	D	L	H	Φ d	D	L	H
Φ 0.3	0.3	19	3	Φ 8.2	8.2	117	75
Φ 0.4	0.4	20	5	Φ 8.5	8.5	117	75
Φ 0.5	0.5	22	6	Φ 8.8	8.8	125	81
Φ 0.6	0.6	24	7	Φ 9	9	125	81
Φ 0.8	0.8	30	10	Φ 9.2	9.2	125	81
Φ 1	1	34	13	Φ 9.5	9.5	125	81
Φ 1.2	1.2	38	16	Φ 9.8	9.8	133	87
Φ 1.5	1.5	40	18	Φ 10	10	133	87
Φ 1.8	1.8	46	22	Φ 10.2	10.2	133	87
Φ 2	2	49	24	Φ 10.5	10.5	133	87
Φ 2.2	2.2	53	27	Φ 10.8	10.8	142	94
Φ 2.5	2.5	57	30	Φ 11	11	142	94
Φ 2.8	2.8	61	33	Φ 11.2	11.2	142	94
Φ 3	3	61	33	Φ 11.5	11.5	142	94
Φ 3.2	3.2	65	36	Φ 11.8	11.8	142	94
Φ 3.5	3.5	70	39	Φ 12	12	151	101
Φ 3.8	3.8	75	43	Φ 12.2	12.2	151	101
Φ 4	4	75	43	Φ 12.5	12.5	151	101
Φ 4.2	4.2	75	43	Φ 12.7	12.7	151	101
Φ 4.5	4.5	80	47	Φ 13	13	151	101
Φ 4.8	4.8	86	52	Φ 13.5	13.5	160	108
Φ 5	5	86	52	Φ 14	14	160	108
Φ 5.2	5.2	86	52	Φ 14.5	14.5	169	114
Φ 5.5	5.5	93	57	Φ 15	15	169	114
Φ 5.8	5.8	93	57	Φ 15.5	15.5	178	120
Φ 6	6	93	57	Φ 16	16	178	120
Φ 6.2	6.2	101	63	Φ 16.5	16.5	184	125
Φ 6.5	6.5	101	63	Φ 17	17	184	125
Φ 6.8	6.8	109	69	Φ 17.5	17.5	191	130
Φ 7	7	109	69	Φ 18	18	191	130
Φ 7.2	7.2	109	69	Φ 18.5	18.5	198	135
Φ 7.5	7.5	109	69	Φ 19	19	198	135
Φ 7.8	7.8	117	75	Φ 19.5	19.5	205	140
Φ 8	8	117	75	Φ 20	20	205	140

Morse Twist Drill

(Code :MTD-Φ)



mm

Φ Edge Diameter	Shank	Full Length	Flute Length	Φ Edge Diameter	Shank	Full Length	Flute Length
Φ d	MT NO.	L	H	Φ d	MT NO.	L	H
Φ 12	MT1	182	101	Φ 27	MT3	291	170
Φ 12.5	MT1	182	101	Φ 28	MT3	291	170
Φ 13	MT1	182	101	Φ 29	MT3	296	175
Φ 13.5	MT1	189	108	Φ 30	MT3	296	175
Φ 14	MT1	189	108	Φ 31	MT3	301	180
Φ 14.5	MT2	212	114	Φ 32	MT4	334	185
Φ 15	MT2	212	114	Φ 33	MT4	334	185
Φ 15.5	MT2	218	120	Φ 34	MT4	339	190
Φ 16	MT2	218	120	Φ 35	MT4	339	190
Φ 16.5	MT2	223	125	Φ 36	MT4	344	195
Φ 17	MT2	223	125	Φ 37	MT4	344	195
Φ 17.5	MT2	228	130	Φ 38	MT4	349	200
Φ 18	MT2	228	130	Φ 39	MT4	349	200
Φ 18.5	MT2	233	135	Φ 40	MT4	349	200
Φ 19	MT2	233	135	Φ 42	MT4	354	205
Φ 19.5	MT2	238	140	Φ 45	MT4	359	210
Φ 20	MT2	238	140	Φ 48	MT4	369	220
Φ 20.5	MT2	243	145	Φ 50	MT4	369	220
Φ 21	MT2	243	145	Φ 55	MT5	417	230
Φ 21.5	MT2	248	150	Φ 60	MT5	422	235
Φ 22	MT2	248	150	Φ 65	MT5	432	245
Φ 22.5	MT2	253	155	Φ 70	MT5	437	250
Φ 23	MT2	253	155	Φ 72	MT5	442	255
Φ 23.5	MT3	276	155	Φ 75	MT5	442	255
Φ 24	MT3	281	160	Φ 80	MT6	514	260
Φ 24.5	MT3	281	160	Φ 85	MT6	519	265
Φ 25	MT3	281	160	Φ 90	MT6	524	270
Φ 25.5	MT3	286	165	Φ 95	MT6	529	275
Φ 26	MT3	286	165	Φ 100	MT6	534	280