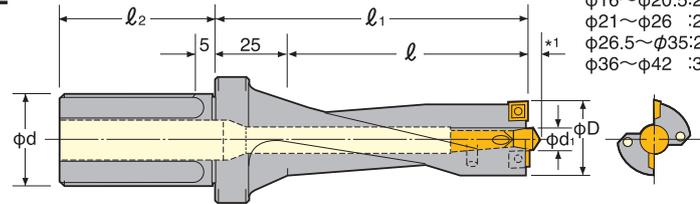# COMBAT Z DRILL

Cost down can be achieved by improvement of drilling operation.

Dimensions of φ16～42 mm COMBAT Z DRILL

*1 Dimension
φ16～φ20.5:2.1mm
φ21～φ26　:2.4mm
φ26.5～φ35:2.8mm
φ36～φ42　:3.4mm

φ16～φ38
L／D=3 or 4

φ16～φ35mm by every 0.5mm increment, φ36～φ60mm by every 1mm increment,φ60～φ80mm by every 5mm increment are standard.

Each 0.1mm increment drill is available as an option.

Drill Dia.	3D Series Code No. φd -φD -ℓ	ℓ	ℓ1	4D Series Code No. φd -φD -ℓ	ℓ	ℓ1	φd	ℓ2	Pilot Drill	Insert Tip	Clamp Screw	Tip Clamp Handle
16	ST20-COMZ16 - 50	50	75	ST20-COMZ16 - 65	65	90	20	43	9CMD5 d1=φ5	9CMT4 2 pcs	M1840	T-6
16.5	-COMZ16.5- 50			-COMZ16.5- 65								
17	-COMZ17 - 50			-COMZ17 - 65								
17.5	-COMZ17.5- 50			-COMZ17.5- 65								
18	-COMZ18 - 55	55	80	-COMZ18 - 75	75	100					M1845	
18.5	-COMZ18.5- 55			-COMZ18.5- 75								
19	-COMZ19 - 55			-COMZ19 - 75								
19.5	-COMZ19.5- 60	60	85	-COMZ19.5- 80	80	105						
20	-COMZ20 - 60			-COMZ20 - 80								
20.5	-COMZ20.5- 60			-COMZ20.5- 80								
21	ST25-COMZ21 - 60	60	85	ST25-COMZ21 - 80	80	105	25	53	9CMD6 d1=φ6	9CMT6 2 pcs	M2560	T-8
21.5	-COMZ21.5- 60			-COMZ21.5- 80								
22	-COMZ22 - 65	65	90	-COMZ22 - 85	85	110						
22.5	-COMZ22.5- 65			-COMZ22.5- 85								
23	-COMZ23 - 70	70	95	-COMZ23 - 90	90	115						
23.5	-COMZ23.5- 70			-COMZ23.5- 90								
24	-COMZ24 - 70			-COMZ24 - 90								
24.5	-COMZ24.5- 70			-COMZ24.5- 90								
25	-COMZ25 - 75	75	100	-COMZ25 -100	100	125						
25.5	-COMZ25.5- 75			-COMZ25.5-100								
26	-COMZ26 - 75			-COMZ26 -100								
26.5	ST32-COMZ26.5-80N	80	105	ST32-COMZ26.5-110N	110	135	32	58	9CMD8 d1=φ8	9CMT7 2 pcs	M3070	T-10
27	-COMZ27 - 80			-COMZ27 -110								
27.5	-COMZ27.5- 80			-COMZ27.5-110								
28	-COMZ28 - 80			-COMZ28 -110								
28.5	-COMZ28.5- 90	90	115	-COMZ28.5-120	120	145						
29	-COMZ29 - 90			-COMZ29 -120								
29.5	-COMZ29.5- 90			-COMZ29.5-120								
30	-COMZ30 - 90			-COMZ30 -120								
30.5	-COMZ30.5- 90			-COMZ30.5-120								
31	-COMZ31 - 90			-COMZ31 -120								
31.5	-COMZ31.5- 90			-COMZ31.5-120								
32	-COMZ32 - 90			-COMZ32 -120								
32.5	-COMZ32.5- 90			-COMZ32.5-120								
33	-COMZ33 - 90			-COMZ33 -120								
33.5	-COMZ33.5- 90			-COMZ33.5-120								
34	-COMZ34 - 90			-COMZ34 -120								
34.5	-COMZ34.5- 90			-COMZ34.5-120								
35	-COMZ35 - 90			-COMZ35 -120								
36	-COMZ36 -100	100	125	-COMZ36 -140	125	125			9CMD10 d1=φ10	9CMT9 2 pcs	M4090	T-15
37	-COMZ37 -100			-COMZ37 -140								
38	-COMZ38 -100			-COMZ38 -140								

★2 off Pilot Drill, one set of Insert and Insert Clamp Handle are supplied as standard.
★Please refer ☞P.106 for Centre Through Side Lock Holder,☞P.108 for Flange Through Side Lock Holder and ☞P.111 for Oil Hole Holder for **COMBAT Z Drill** at M/C use.

REAMER·DRILL