

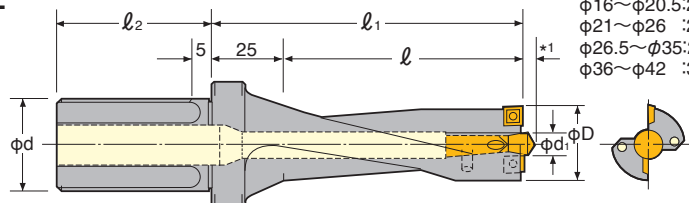
COMBAT Z DRILL

Cost down can be achieved by improvement of drilling operation.

NIKKEN



Dimensions of $\phi 16 \sim 42$ mm
COMBAT Z DRILL



*1 Dimension
 $\phi 16 \sim \phi 20.5$: 2.1mm
 $\phi 21 \sim \phi 26$: 2.4mm
 $\phi 26.5 \sim \phi 35$: 2.8mm
 $\phi 36 \sim \phi 42$: 3.4mm

$\phi 16 \sim \phi 38$
 $L/D=3$ or 4

$\phi 16 \sim \phi 35$ mm by every 0.5mm increment, $\phi 36 \sim \phi 60$ mm by every 1mm increment, $\phi 60 \sim \phi 80$ mm by every 5mm increment are standard.

Each 0.1mm increment drill is available as an option.

Drill Dia.	3D Series			4D Series			3D, 4D																							
	Code No.	ℓ	ℓ_1	Code No.	ℓ	ℓ_1	ϕd	ℓ_2																						
	ϕd - ϕD - ℓ			ϕd - ϕD - ℓ																										
16	ST20-COMZ16 - 50	50	75	ST20-COMZ16 - 65	65	90	20	43	9CMD5 d ₁ = ϕ 5	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					25		53	9CMD6 d ₁ = ϕ 6	9CMT6 2 pcs	M2560	T-8													
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												32	58	9CMD8 d ₁ = ϕ 8	9CMT7 2 pcs	M3070	T-10							
20	-COMZ20 - 60			-COMZ20 - 80																										
20.5	-COMZ20.5- 60			-COMZ20.5- 80																										
21	ST25-COMZ21 - 60	60	85	ST25-COMZ21 - 80	80	105	32	58	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs		M4090												T-15						
21.5	-COMZ21.5- 60			-COMZ21.5- 80																										
22	-COMZ22 - 65	65	90	-COMZ22 - 85	85	110																			32	58	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs	M4090	T-15
22.5	-COMZ22.5- 65			-COMZ22.5- 85																										
23	-COMZ23 - 70	70	95	-COMZ23 - 90	90	115					32		58	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs	M4090	T-15													
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												32	58	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs	M4090	T-15							
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	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs		M4090												T-15						
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					32		58	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs	M4090	T-15													
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	32	58	9CMD10 d ₁ = ϕ 10	9CMT9 2 pcs	M4090	T-15																		
37	-COMZ37 -100			-COMZ37 -140																										
38	-COMZ38 -100			-COMZ38 -140																										

★Two Pilot Drills, a pair of insert tips and Insert Clamp Handle are supplied as standard.

★Please refer P.60 for Centre Through Side Lock Holder, P.60 for Flange Through Side Lock Holder and P.139 for Oil Hole Holder for COMBAT Z Drill at M/C use.