

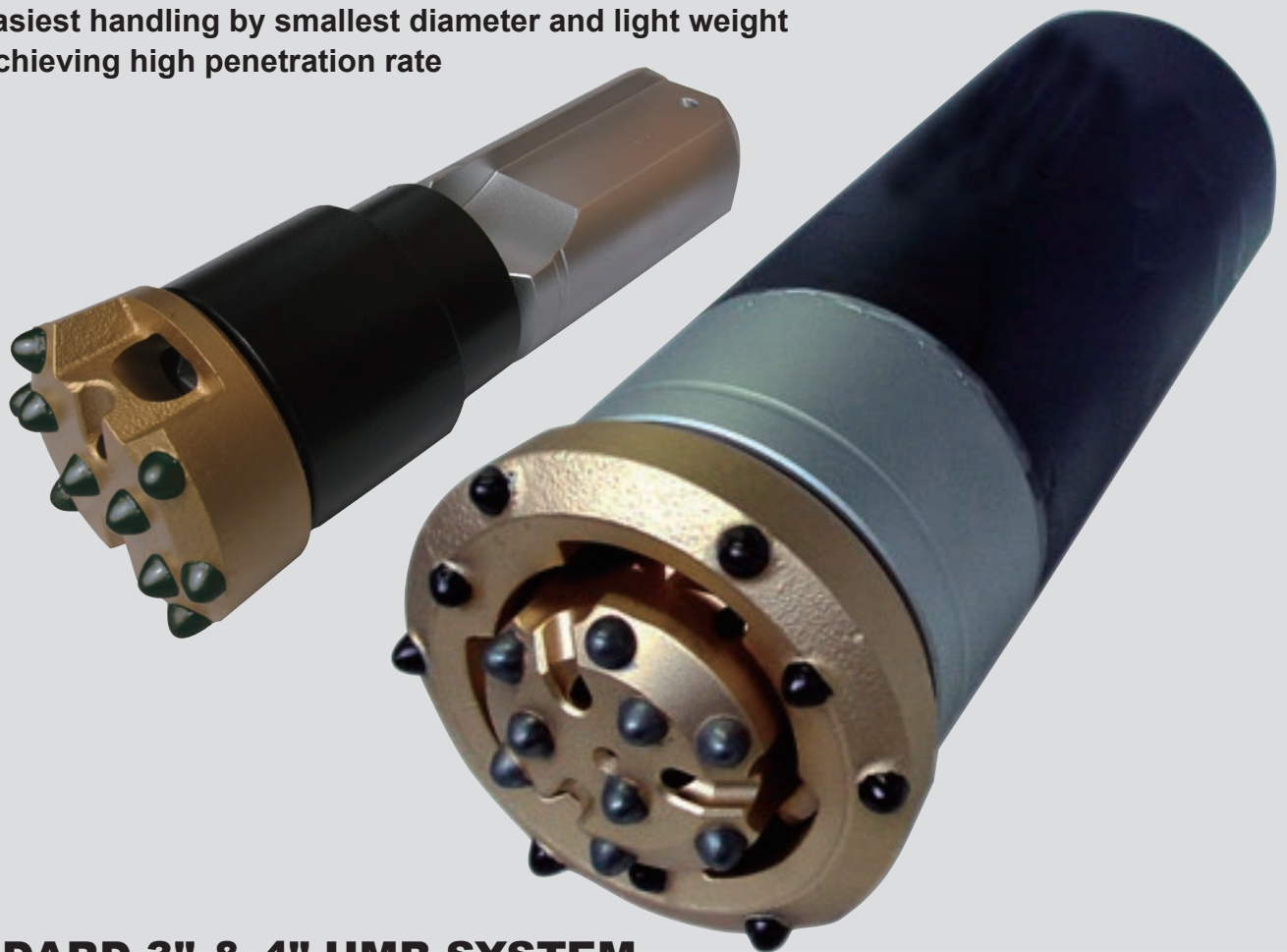
CONCENTRICAL DRILLING SYSTEM

MICRO CASING BIT

Straighter - Deeper Holes with Higher Productivity

STANDARD 2" & 2.5" MCB SYSTEM (For Face bolting)

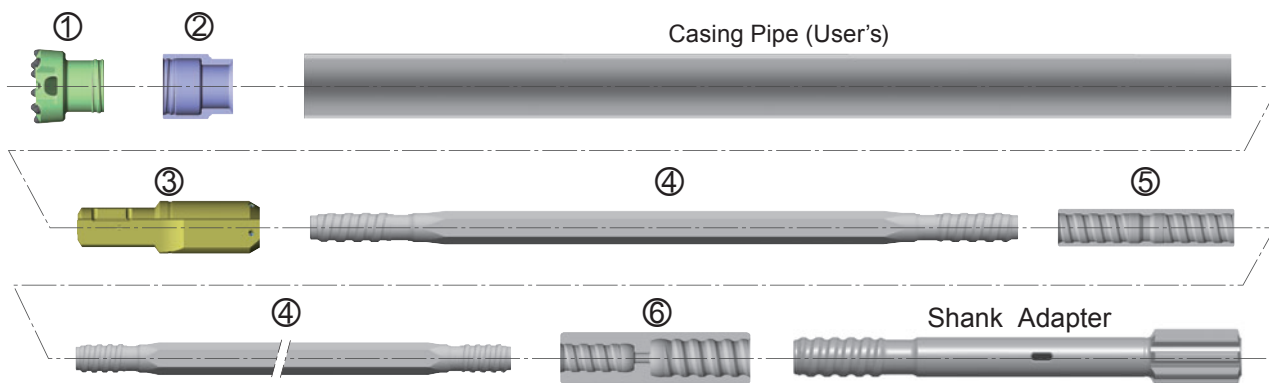
- Smallest concentrical drilling system
- Applicable for longer holes such as face bolting, geological survey and drainage holes
- 50m horizontal hole drilling has been recorded in Japan as longest drilled hole
- Easiest handling by smallest diameter and light weight
- Achieving high penetration rate

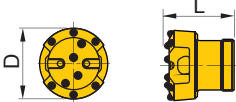
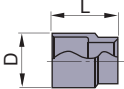
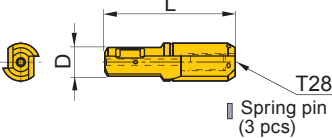
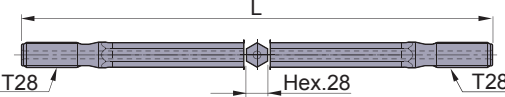
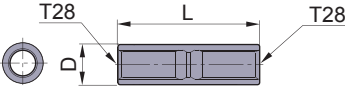
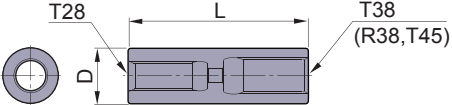
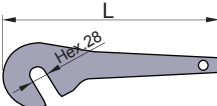


STANDARD 3" & 4" UMB SYSTEM (For Fore piling and Roof bolting)

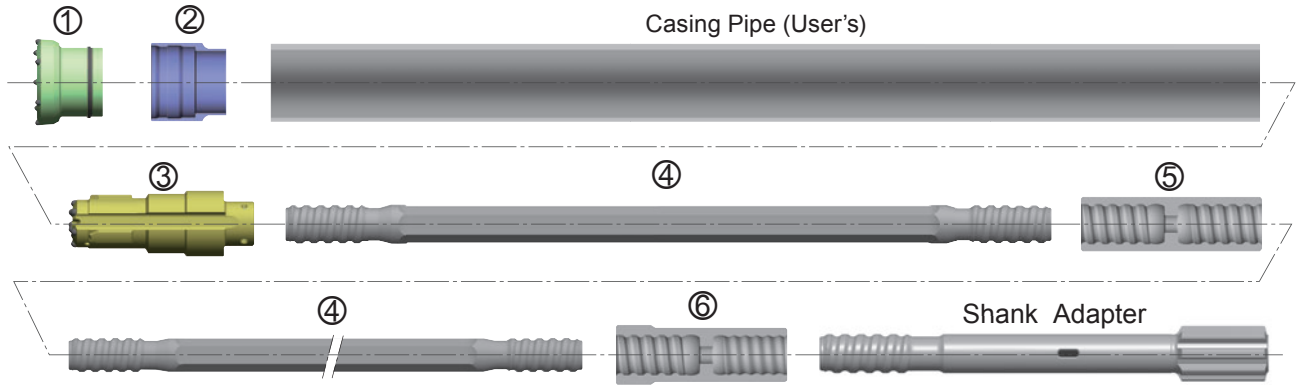
- Established UMB system for All Ground Fasten method
- Ring bit has a unique connection
- This system has best record at various rock condition in Japan

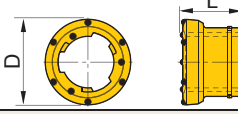
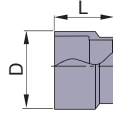
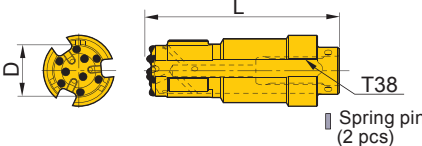
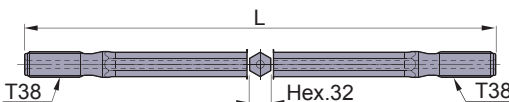
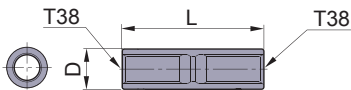
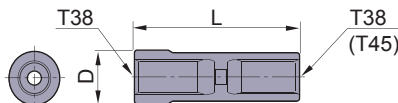
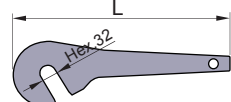
STANDARD 2" & 2.5" MCB SYSTEM (For Face Bolting)



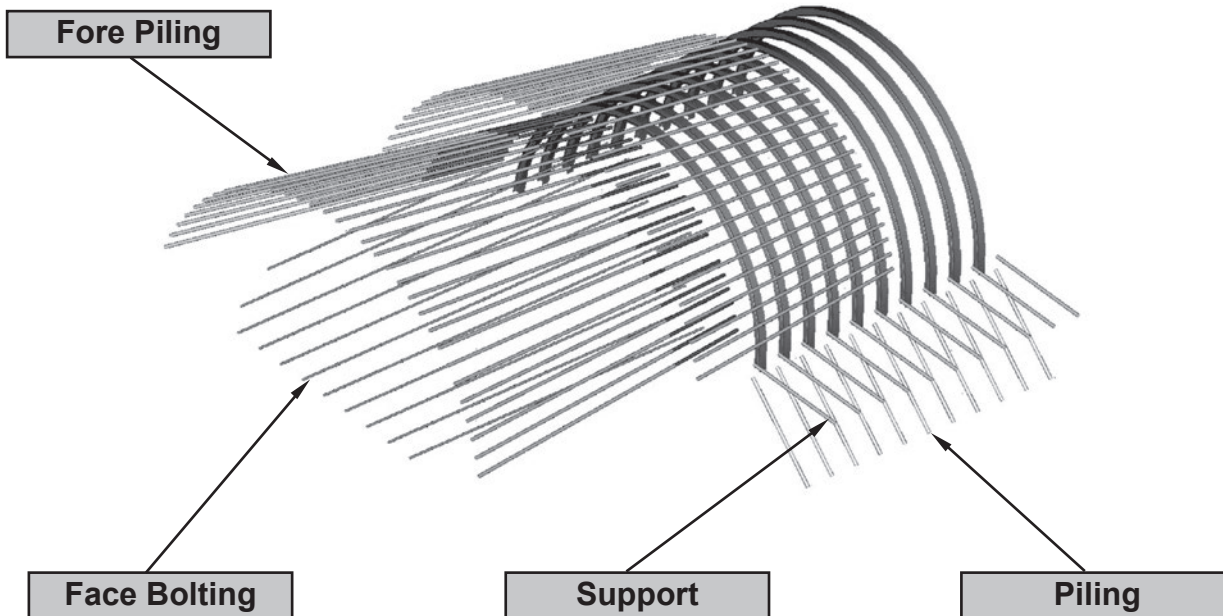
① Single Pass Bit	Casing Pipe		Gauge Dia. (D)		Length (L)		Weight		Part No.
	Outer Dia.	Wall Max. Thickness	mm	in.	mm	in.	kg	lb	
	60.5 (2.38")	5.5 (0.22")	70	2.76"	86.7	3.41"	1.0	2.2	MC50P70BBC795
	76.3 (3.00")	5.2 (0.20")	88	3.46"	87.2	3.43"	1.6	3.5	MC65P88BBC705
② Casing Shoe	Casing Pipe		Outer Dia. (D)		Length (L)		Weight		Part No.
	Outer Dia.	Wall Max. Thickness	mm	in.	mm	in.	kg	lb	
	60.5 (2.38")	5.5 (0.22")	60.5	2.38"	82	3.23"	0.6	1.3	MC50TOP-796
	76.3 (3.00")	5.2 (0.20")	76.3	3.00"	82	3.23"	0.9	2.0	MC65TOP-706
③ Shank Device	Casing Pipe		Guide Dia. (D)		Length (L)		Weight		Part No.
	Outer Dia.	Wall Max. Thickness	mm	in.	mm	in.	kg	lb	
	60.5 (2.38")	5.5 (0.22")	46.5	1.83"	215	8.46"	1.35	3.0	MC50M28-794 (Spring Pin: Φ6x25)
	76.3 (3.00")	5.2 (0.20")	62.5	2.46"	215	8.46"	2.6	5.7	MC65M28-704 (Spring Pin: Φ6x32)
④ Extension Rod			Body Section		Length (L)		Weight		Part No.
					mm	in.	kg	lb	
			Hex.28		3050	10'	14.4	31.7	EH28M28-3050L
			Hex.28		3660	12'	17.2	37.8	EH28M28-3660L
			Hex.28		4000	13'31"	18.9	41.6	EH28M28-4000L
⑤ Coupling Sleeve			Outer Dia. (D)		Length (L)		Weight		Part No.
			mm	in.	mm	in.	kg	lb	
			38	1.50"	160	6.30"	0.7	1.5	CM28AG
⑥ Crossover Coupling			Outer Dia. (D)		Length (L)		Weight		Part No.
			mm	in.	mm	in.	kg	lb	
			54	2.13"	173	6.81"	2.2	4.8	CM38M28AG
			54	2.13"	180	7.09"	2.1	4.6	CR38M28AG
			60	2.36"	189	7.44"	2.8	6.2	CM45M28AG
Rod Wrench			Body Section		Length (L)		Weight		Part No.
					mm	in.	kg	lb	
			Hex.28		430	16.93"	3.8	8.4	RW-H28

STANDARD 3" & 4" UMB SYSTEM (For Fore piling and Roof bolting)

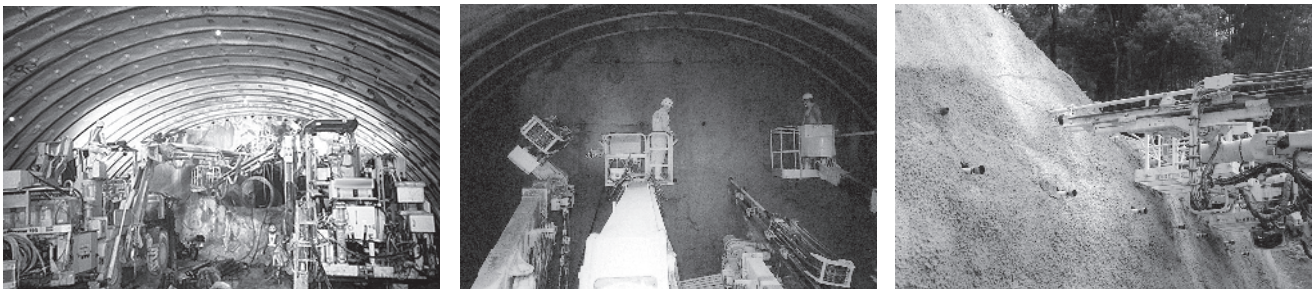


① Ring Bit	Casing Pipe		Gauge Dia. (D)		Length (L)		Weight		Part No.
	Outer Dia.	Wall Max. Thickness	mm	in.	mm	in.	kg	lb	
	89.1 (3.51")	5.5 (0.22")	100	3.94"	82.2	3.24"	1.6	3.5	UL100BB56C680
	114.3 (4.50")	8.0 (0.31")	126	4.96"	92.0	3.62"	2.7	5.9	UL125BB76C348
② Casing Shoe	Casing Pipe		Outer Dia. (D)		Length (L)		Weight		Part No.
	Outer Dia.	Wall Max. Thickness	mm	in.	mm	in.	kg	lb	
	89.1 (3.51")	5.5 (0.22")	89.1	3.51"	86	3.39"	0.9	2.0	UTOP66-678
	114.3 (4.50")	8.0 (0.31")	114.3	4.50"	100	3.94"	1.5	3.3	UTOP87-551
③ Pilot Bit	Casing Pipe		Guide Dia. (D)		Length (L)		Weight		Part No.
	Outer Dia.	Wall Max. Thickness	mm	in.	mm	in.	kg	lb	
	89.1 (3.51")	5.5 (0.22")	76	2.99"	224.8	8.85"	3.5	7.7	UD38MP53BB-689 (Spring Pin: Φ8x45)
	114.3 (4.50")	8.0 (0.31")	96	3.78"	246	9.69"	7.5	16.5	UD38MP70BB-548 (Spring Pin: Φ8x45)
④ Extension Rod			Body Section		Length (L)		Weight		Part No.
					mm	in.	kg	lb	
			Hex.32		3050	10'	17.7	38.9	EH32M38-3050
			Hex.32		3660	12'	21.4	47.1	EH32M38-3660
			Hex.32		4000	13'31"	23.5	51.7	EH32M38-4000
⑤ Coupling Sleeve			Outer Dia. (D)		Length (L)		Weight		Part No.
			mm	in.	mm	in.	kg	lb	
			54	2.13"	190	7.48"	1.9	4.2	CM38AGF
⑥ Crossover Coupling			Outer Dia. (D)		Length (L)		Weight		Part No.
			mm	in.	mm	in.	kg	lb	
			60	2.36"	195	7.68"	2.2	4.8	CR38M38AG
			66	2.60"	215	8.46"	3.1	6.8	CM45M38AG
Rod Wrench			Body Section		Length (L)		Weight		Part No.
					mm	in.	kg	lb	
			Hex.32		430	16.93"	5.2	11.4	RW-H32

APPLICATIONS



● MCB system can be applied for Drainage and Exploration



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