

FOREPOLING SYSTEM AKA TUBE UMBRELLA



Forepoling ring bit system and casing tubes are designed to be drilled with top hammer or DTH in an umbrella shape as secondary support in the tunnel roof. Weak ground and overburden must be strengthened by grouting through the casing and grouting valves into the ground.

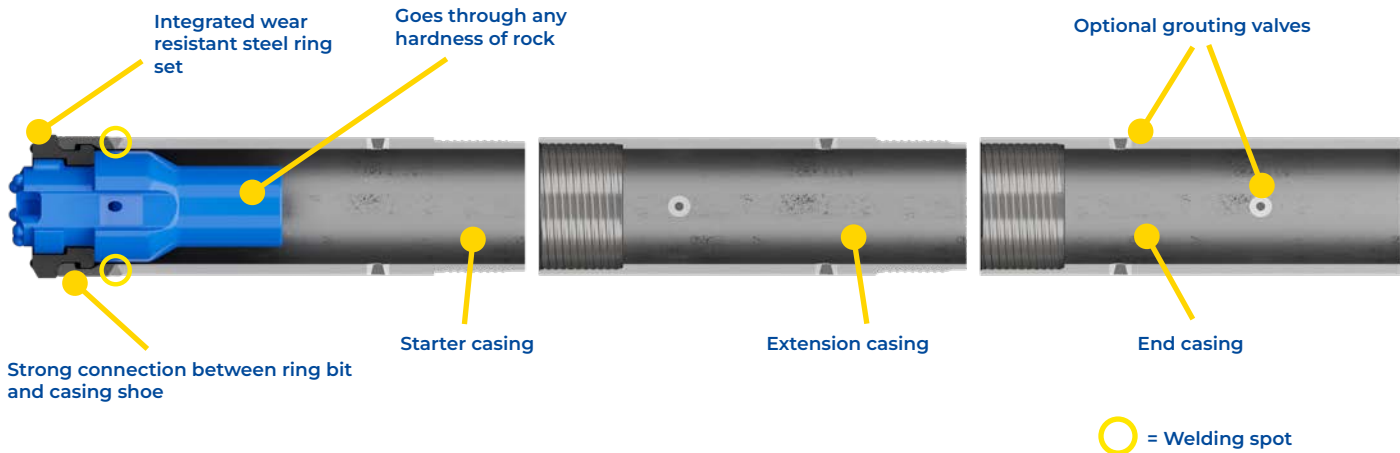


MAIN APPLICATIONS

- Forepoling or tube umbrella
- Anchoring
- Micro-piling
- PVC drainage
- Fibre glass face stabilisation (GFRP system)
- Ground consolidation in front of TBM (GFRP system)



FOREPOLING SYSTEM 73–219 mm



System is available for all major DTH shanks and top hammer threads. Threaded casings normally come with 1 start, but they are also available with 2–3 start trapezoidal threads and 10 mm entrance.

System product code	Casing OD		Max wall		Ring bit ID		Ring bit OD		Pilot bit OD		Recommended hammer
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
F73-5.5-40	73	2.87"	5.5	0.22"	40	1.57"	82	3.23"	58	2.28"	R32
F76-8-40	76.1	3.00"	8	0.31"	40	1.57"	82	3.23"	58	2.28"	R32
F89-8-52	88.9	3.5"	8	0.31"	52	2.05"	94.5	3.72"	70.9	2.79"	T38
F102-8-62	101.6	4.0"	8	0.31"	62	2.44"	106.6	4.20"	83	3.27"	T38
F114-10-70	114.3	4.5"	10	0.39"	70	2.76"	120	4.72"	92	3.62"	T38, T45
F140-10-94	139.7	5.5"	10	0.39"	94	3.70"	148	5.83"	116.7	4.59"	T45
F159-10-116	159	6.26"	10	0.39"	116	4.57"	169	6.65"	136	5.35"	T45, T51
I168-12.7-127-GEN2	168.3	6.63"	12.7	0.5"	127	4.92"	189	7.44"	140	5.51"	MP50-MQ
I219-12.7-171-GEN2	219.1	8.63"	12.7	0.5"	171	6.73"	243	9.57"	188	7.40"	MP70-MC-DI60

CASING OPTIONS

Steel casings



GFRP casings



PVC drainage casings



All forepoling systems come with starter, extension and end casings. Mincon offers convenient and flexible customization options to suite all project needs. Several casing options, such as steel, fibre glass and PVC drainage casings as well as accessories are available. See a separate forepoling brochure for more information.