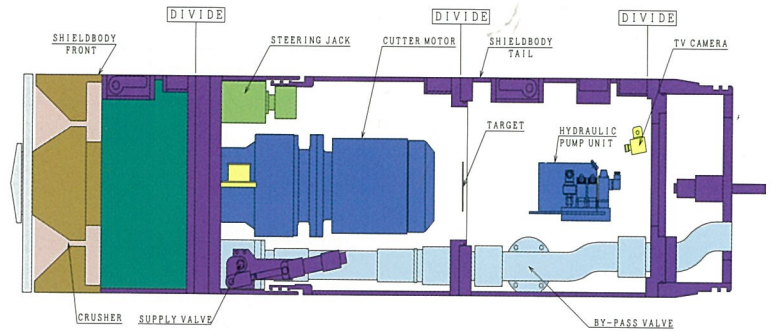
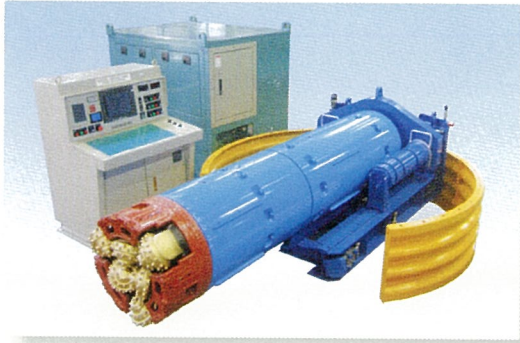


UNICORN MICROTUNNELING

The unique feature of the DH-FS type is that it can be jacked from a small starting pit.

Its structure can be divided into 4 smaller portions means that it can be collected from existing man hole.

A hydraulic drive system is employed, realizing powerful excavation performance and space saving.



Hydraulic model

Specifications of DH-FS

I.D.	Dimensions φD×L(mm)	Weight (t)	Power (kW×set)	Torque (kN·m)	Rev. (min ⁻¹)	Piping	Starting Shaft (m)	Arriving Shaft (m)
φ300	440×2380	1.3	30×1 (Hyd. motor)	11	0-15	2B	φ2.0	φ1.6
φ400	560×2500	1.9	30×1 (Hyd. motor)	15	0-15	2.5B	φ2.0	φ1.6
φ500	690×2705	2.8	30×1 (Hyd. motor)	24	0-10	3B	φ2.5	φ2.0
φ600	800×2670	3.5	30×1 (Hyd. motor)	35	0-7.5	3B	φ2.5	φ2.0
φ700	920×2670	4.2	30×1 (Hyd. motor)	35	0-7.5	3B	φ2.5	φ2.0

Specifications of jacking system

I.D.	300	400	500	600	700
Starting Shaft(m)	φ2.0	φ2.0	φ2.5	φ2.5	φ2.5
Power(kN)	350kN×2	500kN×2	750kN×2	900kN×2	1000kN×2
Stroke(mm)	675	675	665	800	800
Width(mm)	1090	1090	1270	1434	1434
Length(mm)	1816	1816	1880	2225	2225
Pipe Center	431	431	510	525	525
Weight(kg)	950	1000	1200	2100	2500
Hydraulic Unit	30kW+7.5kW	30kW+7.5kW	30kW+7.5kW	30kW+7.5kW	30kW+7.5kW

Electric model

Specifications of DH-FS

I.D.	Dimensions (mm) φD×L	Weight (t)	Power (kW×set)	Torque (kN·m)		Revolution (min ⁻¹)		Steering Jack (kN×st×set)	Hydraulic unit (kW)	Piping in shield body (mm)	Min. MH (mm)
				50Hz	60Hz	50Hz	60Hz				
φ250	380×2295	0.8	2.2×1	4.4	3.8	4.8	5.8	50×10×3	0.18	50	φ900
φ300	430×2295	1.1	2.2×1	4.4	3.8	4.8	5.8	50×10×3	0.18	50	φ900
φ350	490×2350	1.4	5.5×1	5.0	4.5	10.0	12.1	100×16×2	0.18	65	φ1200
φ400	550×2380	1.7	7.5×1	8.7	7.2	8.4	10.1	130×16×2	0.18	65	φ1200
φ450	600×2231	1.9	11×1	14.3	12.1	7.3	8.7	170×20×2	0.55	80	φ1500
φ500	660×2562	2.4	11×1	14.3	12.1	7.3	8.7	200×20×2	0.55	80	φ1500

※voltage 400V

Specifications of jacking system

I.D.	250~300	350~500
Starting pit(m)	φ2.0	φ2.5
Thrust power(kN)	700	1500
Width(mm)	970	1440
Length(mm)	1790	2190
Center of pipe	450	550
Weight(kg)	900	1200
Power(kW)	7.5	