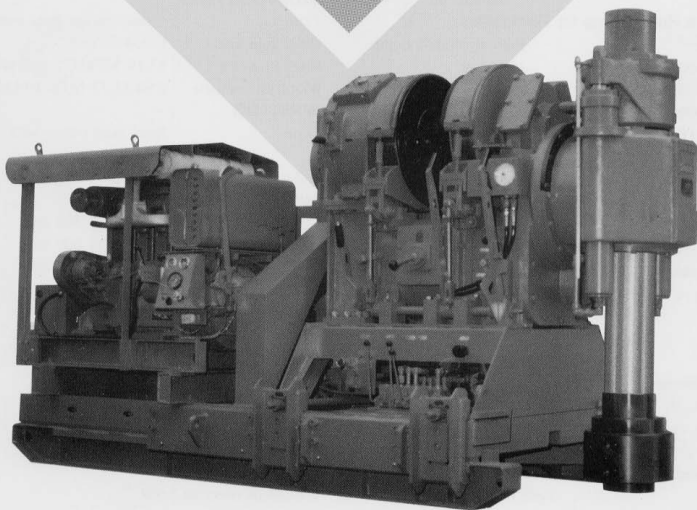


TL-2000



HEAVY DUTY AND POWERFUL MACHINE FOR DEEP
WIRELINE CORING, WATER WELL DRILING AND
LARGE HOLE DRILLING FOR FOUNDATION



TOA-TONE BORING CO., LTD.

SPECIFICATIONS FOR TL-2000 DRILLING MACHINE

CAPACITY (4-line)

For Exploration Drilling

Drill rod size	Recommended depth
BQT	2 600-2 800 m
NQT	2 000-2 200 m
HQT	1 300-1 500 m
PQT	900-1 100 m

For Water Well Drilling

Drill rod size	Recommended depth
3-1/2"	600-700 m
4-1/2"	500-600 m

For Large Hole Drilling for Foundation

Hole size	Recommended depth
1 000-1 500mm	45- 60 m
900-1 200mm	60- 80 m
700-1 000mm	80-120 m

POWER UNIT

Electric motor	30 kw-4p, 22 kw-4p
Diesel engine	Required power, 40-50 ps or 50-60 ps at 1 800 min ⁻¹

TRANSMISSION

Type	Sliding gear
No. of speeds	4-forward & 1-reverse
Clutch type	Heavy duty, single plate dry disc

HOIST

Type	Planetary gear
Drum diameter	330 mm
Drum length	240 mm
Spooling capacity	120 m with 20 mm cable or 158 m with 18 mm cable
Rope speed	19, 38, 76, 143 m/min. (Bare drum)
Max. single line pull	5 880 daN(6 000 kgf)

BIT SPEED

A series	20, 40, 80, 150, R17 min ⁻¹ (22 kw)
B series	40, 80, 160, 300, R34 min ⁻¹
C series	60, 120, 240, 450, R51 min ⁻¹ (30 kw)

SWIVEL HEAD

Type	Twin hydraulic cylinder with screw chuck
Spindle I.D.	105mm
Feed length	610mm
Angle range	360°
Max. thrust	1 020 hN(10 400 kgf) at 11.27 MPa (115 kgf/cm ²)
Max. lift	1 760 hN(18 000 kgf) at 11.27 MPa (115 kgf/cm ²)

HYDRAULIC PUMP

Type	Combination gear pump
Discharge vol.	6+54 L/min.
Max. pressure	17.16 MPa(175 kgf/cm ²)
Working pressure	0.98-11.27 MPa(10-115 kgf/cm ²)

MOUNTING

Type	Steel skid frame with hydraulic slide base
Slide stroke	700 mm

OVERALL DIMENSIONS

Length	Approx. 3 390 mm
Width	Approx. 1 600 mm
Height	Approx. 2 170 mm

WEIGHT

Without power unit	Approx. 4 500 kg
Max. weight of component	Approx. 1 000 kg

OPTIONAL EQUIPMENT

- Hydraulic chuck
- Spindle I.D. of 160 mm
- Hydro-damper
- Built-in wireline hoist
- Rod breakout system
- Water-cooled brake



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