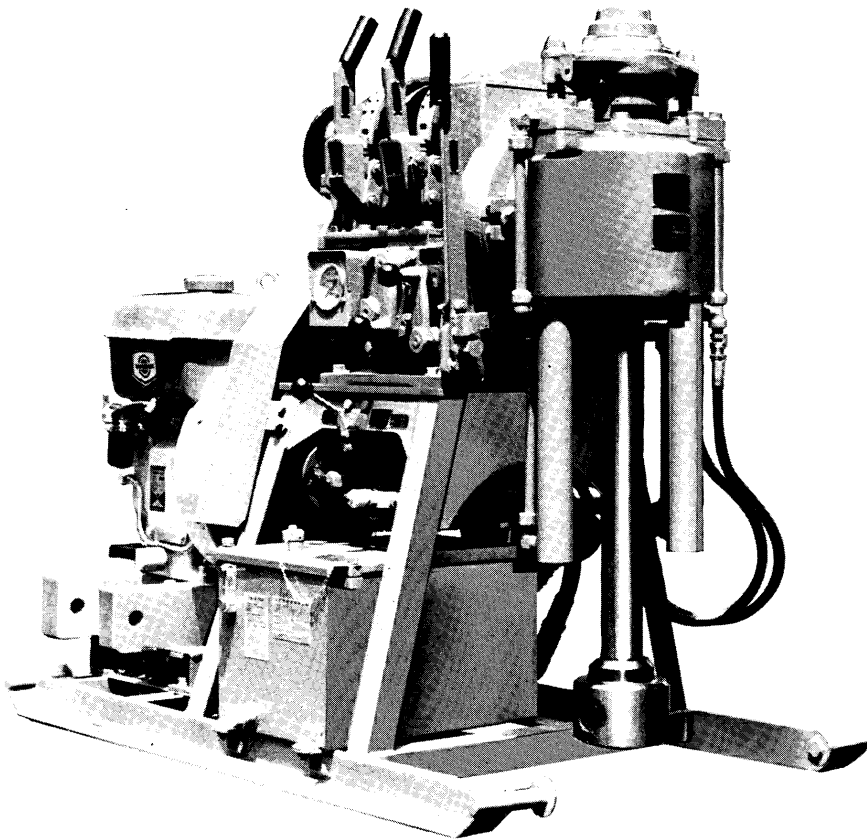


***Tone***

# **TDC-1 DRILLING MACHINE**

**The most versatile light weight and hydraulic feed diamond core drill with new improved advantages and optional features**



FOR EVERY REQUIREMENT IN TEST BORING,  
MINERAL EXPLORATION FROM SURFACE AND  
UNDERGROUND, GROUT HOLES, SOIL SAMPLING  
AND SITE INVESTIGATION



**TOA-TONE BORING CO., LTD.**

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# Model TDC-1 Drilling Machine

## FEATURES

- Its compactness and light weight make it suited for easier installation and mobilization.
- Optional new hydraulic chuck and hydraulic holder for the swivel head do away the tediousness and dangers of hand chucking and yet it makes easier to operate, and save time for further drilling per shift.
- Optional double pointer type bit load gauge is provided to compute directly the weight of drill rods and actual bit load as well as feed and lift pressure.
- Rugged mechanism assures long trouble-free operation.

## SPECIFICATIONS

### CAPACITY

Depth	Size of Rod
200 m (650 ft) . . . . .	EW (DCDMA) Drill Rod
170 m (550 ft) . . . . .	40.5 (JIS) Drill Rod
160 m (520 ft) . . . . .	AW (DCDMA) Drill Rod

### POWER UNIT

Electric motor	5.5kW, 4P, 50/60 Hz.
Diesel engine*	Water-cooled, 1 cylinder 4 cycle, 11 PS at 2,200 rpm YANMAR Model TS-130C.

\* Other engines are also available for special applications, altitudes etc.

### TRANSMISSION

Type	Sliding gear.
No. of speeds	3 forward
Clutch type	Heavy duty, single dry disc.

### HOIST

Type*	Planetary gear band brake.
Drum diameter	100 mm (3-15/16 in)
Drum length	80 mm (3-6/32 in)
Drum capacity	20 m (66 ft) 9 mm cable.
Rope speed	17, 33, 70 m/min.

### CATHEAD (Optional)

Type	Cargo type
Size	100 mm dia. x 80 mm long
Speed	63, 126, 254 m/min.

### BIT SPEED \*

A series . . . . .	55, 110, 230 rpm.
B series . . . . .	135, 270, 560 rpm.

\* at standard engine speed.

### SWIVEL HEAD

Type	Twin hydraulic cylinder.
Spindle I.D.	46 mm (1-13/16 in)
Feed length	500 mm (20 in)
Angle range	360°
Maximum thrust	1,200 kg (at 62 kg/cm <sup>2</sup> )
Maximum lift	1,800 kg (at 62 kg/cm <sup>2</sup> )

### HYDRAULIC PUMP

Type	Variable volume, vane.
Volume	0 – 20 l/min. (0 – 6.9 GPM)
Maximum pressure	70 kg/cm <sup>2</sup> (1,000 psi)
Working pressure	0 – 62 kg/cm <sup>2</sup> (0 – 882 psi)

### MOUNTING

Type	Steel skid frame.
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### OVERALL DIMENSIONS

With standard diesel engine	
Width	870 mm.
Length	1,420 mm.
Height	1,190 mm.

### APPROXIMATE WEIGHT

Without engine 420 kg (926 lbs)



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