

EX series

TATA HITACHI

Reliable solutions

EX 110

The Workhorse



HYDRAULIC EXCAVATOR

Engine Power : 76 PS @ 2200 rpm
Operating Weight : 11500 kg
Bucket Capacity : 0.25 - 0.65 m³



SPECIFICATIONS

ENGINE

Model.....TATA 697 NA
 Type.....Water cooled, 6-cylinder in-line diesel engine
 Engine power.....76 PS @ 2200 rpm
 Max.torque.....29 Kgf-m @ 1600 rpm
 Batteries.....12 V

HYDRAULIC SYSTEM

Main pumps.....2 variable displacements axial piston pumps
 Flow rate.....2 X 115 lpm
 Pilot pump.....1 gear pump
 Flow rate.....23 lpm

SUPERSTRUCTURE

Swing speed.....11.8 rpm

RELIEF VALVE SETTINGS

Implement circuit.....285 kgf/cm²
 Swing circuit.....285 kgf/cm²
 Travel circuit.....355 kgf/cm²
 Pilot circuit.....40 kgf/cm²

UNDERCARRIAGE

Travel speeds.....0 - 4.3 kmph
 Max.traction force.....7500 kgf
 Gradeability.....35° (70% continuous)
 No.of upper rollers.....1
 No. of lower rollers.....6
 No. of track shoes.....41
 Shoe width.....500 mm

SERVICE REFILL CAPACITIES

Hydraulic tank.....72.0 ltr
 Hydraulic system.....126.0 ltr
 Fuel tank.....250.0 ltr
 Engine coolant.....11.0 ltr
 Engine oil.....14.0 ltr
 Swing device.....3.2 ltr
 Travel device (Each side).....3.5 ltr

WEIGHTS AND GROUND PRESSURE

| Machine | Operating weight | Ground pressure |
|---------|------------------|---------------------------|
| Backhoe | 11500 kg | 0.40 kgf /cm ² |
| Shovel | 11600 kg | 0.40 kgf /cm ² |

DIGGING FORCES

BACKHOE

Bucket digging forces.....7300 kgf
 Arm crowd forces.....5400 kgf

SHOVEL

Max. breakout force.....7250 kgf
 Max. crowding force.....7800 kgf

BUCKETS

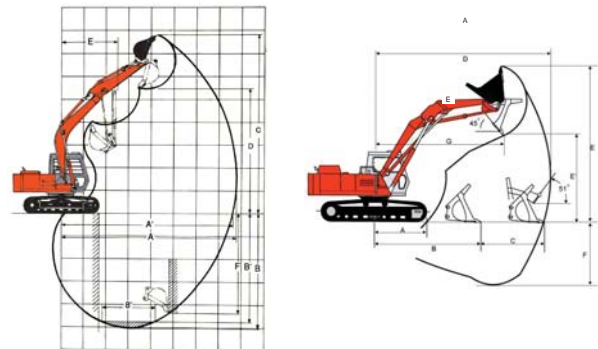
BACKHOE

| Bucket type | Capacity (PCSA) | Width without side cutter | Weight | Tooth points |
|-------------|---------------------|---------------------------|--------|--------------|
| GP | 0.65 m ³ | 1034 mm | 478 kg | 4 |
| HD | 0.45 m ³ | 772 mm | 480 kg | 3 |
| Trench | 0.25 m ³ | 490 mm | 350 kg | 2 |

SHOVEL

| Capacity | Inner width | Outer width | Weight |
|--------------------|-------------|-------------|--------|
| 0.6 m ³ | 1120 mm | 1184 mm | 552 kg |

WORKING RANGES



BACKHOE

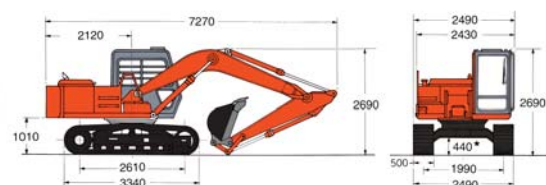
| | | |
|----|--------------------------------|------|
| | Boom length | 4250 |
| | Arm length | 1950 |
| A | Max. digging reach | 7410 |
| A' | Max. digging reach (on ground) | 7250 |
| B | Max. digging depth | 4720 |
| B' | Max. digging depth (8' level) | 4460 |
| C | Max. cutting height | 7630 |
| D | Max. dumping height | 5280 |
| E | Min. swing radius | 2460 |
| F | Max. vertical wall | 4040 |

SHOVEL

| | | |
|---|----------------------------------|------|
| | Boom length | 2500 |
| | Arm length | 2000 |
| A | Max. digging reach | 5560 |
| B | Max. cutting height | 6750 |
| C | Max. dumping height | 3290 |
| D | Max. digging depth | 2520 |
| E | Working radius at dumping height | 2630 |

All dimensions are in mm

DIMENSIONS



The Specifications are subject to change without prior notice. The Machine depicted may vary from the actual Machine Please contact our nearest office for latest specifications. Accessories shown here are not part of the standard equipment Performance of the machine may vary with site and operating conditions encountered

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