

BAUMA 83

FB7B



Illustration includes optional equipment

NET FLYWHEEL POWER (DIN) 60 kW/82 HP

OPERATING WEIGHT

- Backhoe loader equipped with ROPS cab, fluids and operator:
 - side shift version 7 620 kg
 - central mounted version 7 620 kg

LOADER PERFORMANCE

- Bucket capacity 1.0 m³
- Bucket width 2 250 mm
- Dump height at 45° 2 700 mm
- Breakout force 7 150 kg

BACKHOE PERFORMANCE

- Bucket capacity 80 to 279 l
- Bucket width 340 to 900 mm
- Digging depth 4 500 mm
- Digging force 5 500 kg
- Swing torque 2 050 kgm

EASE OPERATION

- Pilot controls for backhoe
- Single lever control for transmission, electric
- Single lever control for front implement

A "PRODUCTION" BACKHOE LOADER

- New FIAT diesel engine
- Torque converter and full power-shift transmission. Three speeds forward and reverse
- Front implement performance which matches that of a production loader
- Backhoe digging depth of 4,5 m
- **Separate braking circuit for service brakes: reduced turning radius**

BACKHOE

- New backhoe swing system actuated by double acting cylinders
- High swing torque

FB7B SPECIFICATIONS**ENGINE**

Net flywheel power (DIN 70020) 60 kW/82 HP
 Net flywheel power (DIN 6270) 59 kW/80 HP
 Net flywheel power (SAE J1349) 59 kW/79 HP

Make and model FIAT 8045
 Type: naturally aspirated, direct injection, 4-cycle diesel
 Number of cylinders 4
 Bore x stroke 104 x 115 mm
 Displacement 3.9 l
 Governed rpm 2500
 Maximum torque
 — kgm at rpm 25.3 kgm at 1500 rpm
 Lubrication full pressure by gear type pump

**ELECTRICAL SYSTEM**

Voltage 24 V
 Alternator 30 A
 Starter 4.0 kW
 Battery (in series) 2
 type maintenance free
 capacity 75 Ah

**TORQUE CONVERTER**

Type single stage/phase
 Torque multiplication 2.6 to 1

**TRANSMISSION**

Type: full power-shift, countershaft design with three speeds forward and reverse
 Control: electric, single lever, mounted on the left side of the steering column

Speed (km/h)**Forward/Reverse**

1st	5.7
2nd	11.9
3rd	29.7

Provision for safety:

- Lever to lock transmission in neutral
- Prevention of engine starting unless transmission control is in neutral position

**AXLES**

Rear - rigid, load bearing complete with bevel gear and pinion, four pinion gear differential and wheel end planetary final drives
 Front - oscillating, complete with bevel gear and pinion, differential and wheel end planetary final drives
 Oscillation 15°
 Wheel base 2050 mm

Tread width:

— front 1865 mm
 — rear 1760 mm
 Front axle disconnet - mechanical control by lever located inside the operator compartment

**BRAKE SYSTEM**

Service caliper disc type
 Control hydraulic servo-assisted with priority valve - pedal
 Brake disc diameter 445 mm
 Pump same as steering and backhoe pilot control circuit
 Relief valve pressure 60 bar
 Separate braking circuit actuated by pedal and electrical switch fitted on the dashboard
 Parking - mechanically actuated drum brake on drive line. Lever controlled

**TYRES**

Type tube
 Front 12.5-20 (12 PR)
 Rear 16.9-24 (10 PR)

**STEERING**

Type hydrostatic
 Steering functions even with engine stopped
 Pump gear type
 Capacity at governed rpm 33 l/min
 Relief valve pressure 140 bar
 Cylinder one, double acting
 Bore x stroke 70 x 185 mm
 Turning radius (with brakes) 5.5 m

**HYDRAULIC SYSTEM**

Type closed
 Pump gear type
 Capacity at governed rpm 110 l/min
 Relief valve pressure 180 bar
 Control valve two spool balanced spools
 Actuation single lever with safety lock
 Cylinders double acting
 Lift (2) - bore x stroke 110 x 479 mm
 Dump (2) - bore x stroke 80 x 805 mm
 Optical bucket position indicator
 Hydraulic oil level right gauge on reservoir

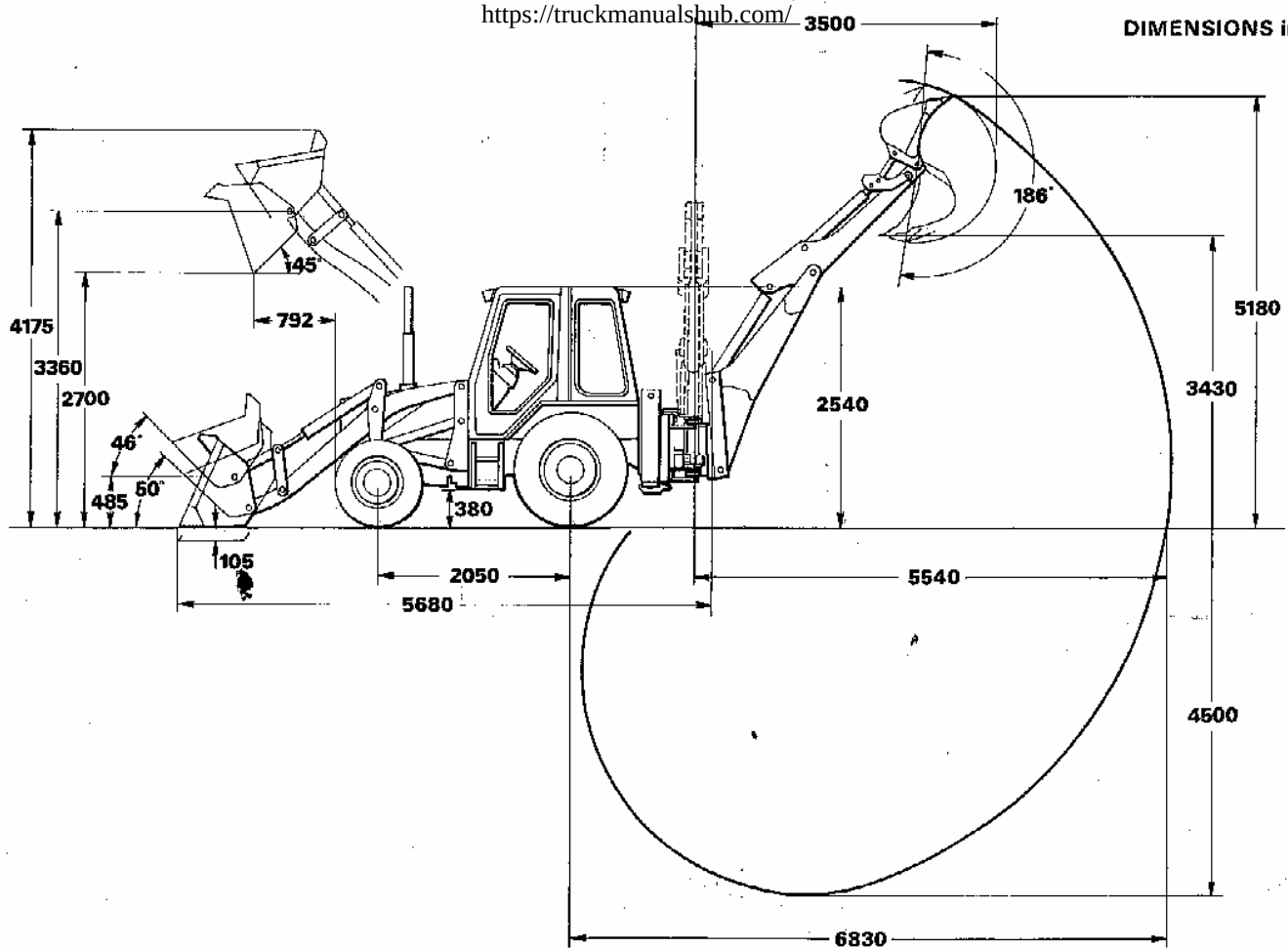
**CAPACITIES**

	litres
Engine	
Lube oil <i>huile moteur</i>	13
Coolant <i>liquide refroidissement</i>	18
Fuel tank <i>carburant</i>	92

Transmission

Converter and transmission <i>convertisseur et transmission</i>	7
Rear axle <i>essieu arriere</i>	13
Front axle <i>essieu avant</i>	9

Hydraulic system	35
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Dimensions for side shift and central mounted backhoe versions.

**BACKHOE**

Type side shift version
 central mounted version

MAINFRAME

Steel plate box-section structure with
 — two horizontal guides for backhoe side shifting
 — two independent stabilizers for easy levelling:
 • vertical (side shift version)
 two cylinders 70 x 600 mm
 • radials (central mounted version)
 two cylinders 100 x 608 mm

SWING SYSTEM

Hydraulic, double acting cylinders
 Rotation amplitude 180°

BACKHOE

Boom - composed of a two-piece boom: the lower section is hinged on the backhoe frame; the upper section, hinged on the lower one, carries the bucket
 Two position hinge point for differ cylinder:
 • standard position
 • power position
 Sealed backhoe linkage

HYDRAULIC SYSTEM

Power - loader hydraulic pump
 Max. operating pressure 180 bar
 The four-spool hydraulic control valve has four pilot actuated spools to control boom movements and two for the stabilizers

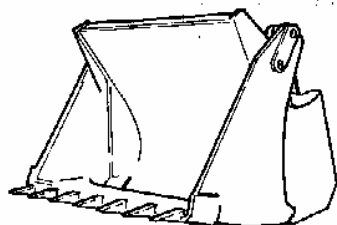
— two levers for boom, bucket and swing
 — two levers for stabilizer control
 Safety lever for backhoe pilot control circuit

PERFORMANCE

Max digging depth 4 500 mm
 Max digging height 5 180 mm
 Max dump height 3 430 mm
 Digging radius (from slew pivot) 5 540 mm
 Side reach (to centre line of machine) .. 6 180 mm
 Digging force 5 500 mm
 Side shift 1 280 mm
 Overall width
 (backhoe retracted) 2 345 mm
 Max height
 (backhoe retracted) 3 480 mm

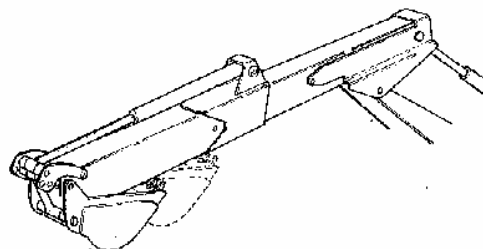
Buckets

Width-mm	Capacity-litres
340	80
400	114
500	147
600	180
700	213
800	246
900	279



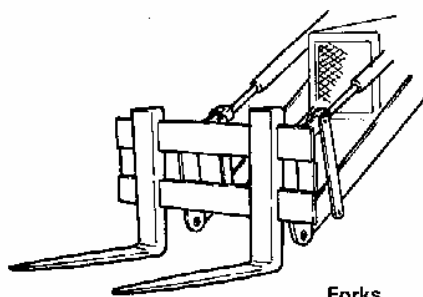
Multipurpose bucket

Bucket capacity 0.86 m³
 Bucket width 2 318 mm

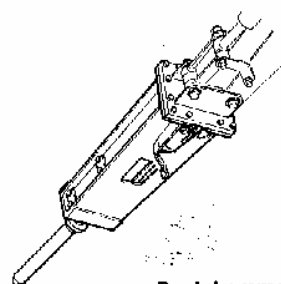


Telescopic dipper

Dipper extension 1 000 mm
 Max digging depth 5 540 mm



Forks



Rock hammer



STANDARD EQUIPMENT

- Alternator, 30 A
- Air filter, dry type
- Antifreeze
- Batteries, maintenance free
- Backhoe
- Brakes: service-servo assisted caliper disc
- Bucket positioner

- Electrical system; 24 V
- Fan blower
- Fan finger guard
- Instruments - tachometer; hourmeter; gauges: fuel level, coolant temperature; warning lights: air cleaner obstruction, engine oil pressure, transmission oil pressure, transmission oil temperature, parking brake, working lights, low fuel warning; power point; fuse box

- Lighting: two headlights, two rear flood lights
- Muffler
- Pilot controls for backhoe
- ROPS cab with seat belt
- Sealed backhoe linkage
- Single lever control for front implement
- Steering-hydrostatic
- Tyres-front 12.5-20 (12 PR), rear 16.9-24 (10 PR)



OPTIONAL EQUIPMENT

- Additional hydraulic function, rear
- Backhoe buckets
- Bucket, general purpose 1.0 m³

- Cab heater with indicator
- Control, piping and control valve for multi-purpose bucket
- Forks
- Internal rear view mirror
- Monobloc loader bucket teeth

- Offset boom (for central mounted version)
- Rotating beacon with indicator
- Seat deluxe
- Sound suppression internal/external
- Telescoping dipper
- Tool kit

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