



# 9.50M

BACKHOE LOADER



■ **Net Horsepower**  
70 kW (95 hp)

■ **Operating Weight**  
8900 kg (19,621 lb)

■ **Digging depth, boom retracted**  
4760 mm (15'7")  
**Digging depth, boom extended**  
5860 mm (19'3")

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## Backhoe Loader

excellent performance,  
outstanding versatility  
and maximum operator's comfort

Operator's e



Safe ROPS/FOPS operator's cab ensures excellent all-around visibility.  
Adjustable steering column as well as adjustable suspension seat for comfortable position  
to operate.



Comfortable operator's seat quick and easy  
Excavator boom and bucket hydraulic control  
movements of mounted equipment.

environment



rotatable between front and rear positions.  
Control levers enable fast, reliable and precise



Front and side control panel pushbuttons and switches are arranged within easy reach.

## Loader equipment

# Outstanding ve to long line of



Hydraulic quickcoupler



Forks



Multi-purpose buckets w/teeth or cutting edge and forks



GP buckets w/teeth or cutting edge and forks



Snow blade



Sack filler



Road sweeper



Snow blower



Loader linkage design provides load stability for excellent material handling and ensures breakout force

Various loader and backhoe attachments make 9. Backhoe quickcoupler and hydraulic loader quickcoupler

# Versatility thanks to attachments



## Backhoe equipment



Mechanical quickcoupler



Buckets w/teeth



Trapezoidal bucket



Ditch bucket w/tilt



Hydraulic hammer



Drill

Telescopic dipper ensures excellent digging depth.  
Backhoe equipment frame enables side shift of 1218 mm (4')  
and 180 deg boom rotation.

Backhoe equipment bidirectional hydraulic circuit enables using hydraulic hammer and provides clockwise and anticlockwise rotation when using drill without drill dive hydraulic hose reconnection. Mounted equipment is supplied with gear pump or optional multi-piston pump.

50M one of most versatile construction machines.  
Coupler facilitate quick replacement of attachments.

# Specification

## ENGINE

\* Make and Model . . . . . IVECO N45MSS  
 Type . . . . . 4-cycle diesel, 4-cylinder, turbocharged  
 Gross Horsepower, SAE J1995 . . . . . 74 kW (99 hp)  
 Net Flywheel power, SAE J1349/ISO 9249 . . . . . 70 kW (95 hp)  
 Rated rpm . . . . . 2200 rpm  
 Maximum torque @ 1250 rpm . . . . . 400 Nm (295 ft.lb)  
 Displacement . . . . . 4.5 l (274 in<sup>3</sup>)  
 Bore and stroke . . . . . 104 x 132 mm (4.1" x 5.2")  
 Air cleaner . . . . . 2 stage, dry type  
 with service indicator

\* Meets EU Stage III A and EPA Tier 3 emission regulations

## TRANSMISSION & TORQUE CONVERTER

Full powershift, soft-shift in range and direction, electronic control, automatic or manual mode.

Single stage, single phase, 310 mm (12.2") torque converter with a 3.01:1 stall ratio.

## TRAVEL SPEEDS

Gear	Forward		Reverse	
	km/h	(mph)	km/h	(mph)
1 <sup>st</sup>	6.4	(4.0)	6.4	(4.0)
2 <sup>nd</sup>	10.5	(7.2)	10.5	(7.2)
3 <sup>rd</sup>	22.0	(14.0)	22.0	(14.0)
4 <sup>th</sup>	38.5	(24.0)	-	-

## AXLES

Four wheel drive.  
 Front drive axle - steering, oscillating, bevel gear, conventional differential, axle oscillates a total of 20°.  
 Rear drive axle - fixed, bevel gear, conventional differential.  
 Optional differential lock at 1<sup>st</sup> and 2<sup>nd</sup> speeds.  
 Planetary final drives in the wheel hubs.

## BRAKES

Service: self-adjusted wet multi-disc brakes, 2 separate pedals acting on rear wheels, hydraulically applied  
 Parking: wet multi-disc brake, manual control with RH side lever with indicator light

## STEERING SYSTEM

Hydrostatic type providing smooth steering at any engine speed.  
 Gear type pump, maximum flow at 2200 rpm and 14 MPa (2,030 psi) - 24.2 l/min (6.4 gpm)  
 Turning radius outside of tires:  
 - with brakes . . . . . 3620 mm (11'11")  
 - w/o brakes . . . . . 4120 mm (13'6")  
 Optional multi-piston pump for steering and hydraulic control.

## HYDRAULIC SYSTEM

Gear pump (standard) or multi-piston pump (optional), maximum flow at 2200 rpm and 19 MPa (2,755 psi) - 156 l/min (41.2 gpm).  
 Loader, 3-spool valve, max. operating pressure 17 MPa (2,466 psi) Backhoe, 7-spool valve, max. operating pressure 19 MPa (2,755 psi)

## REFILL CAPACITIES

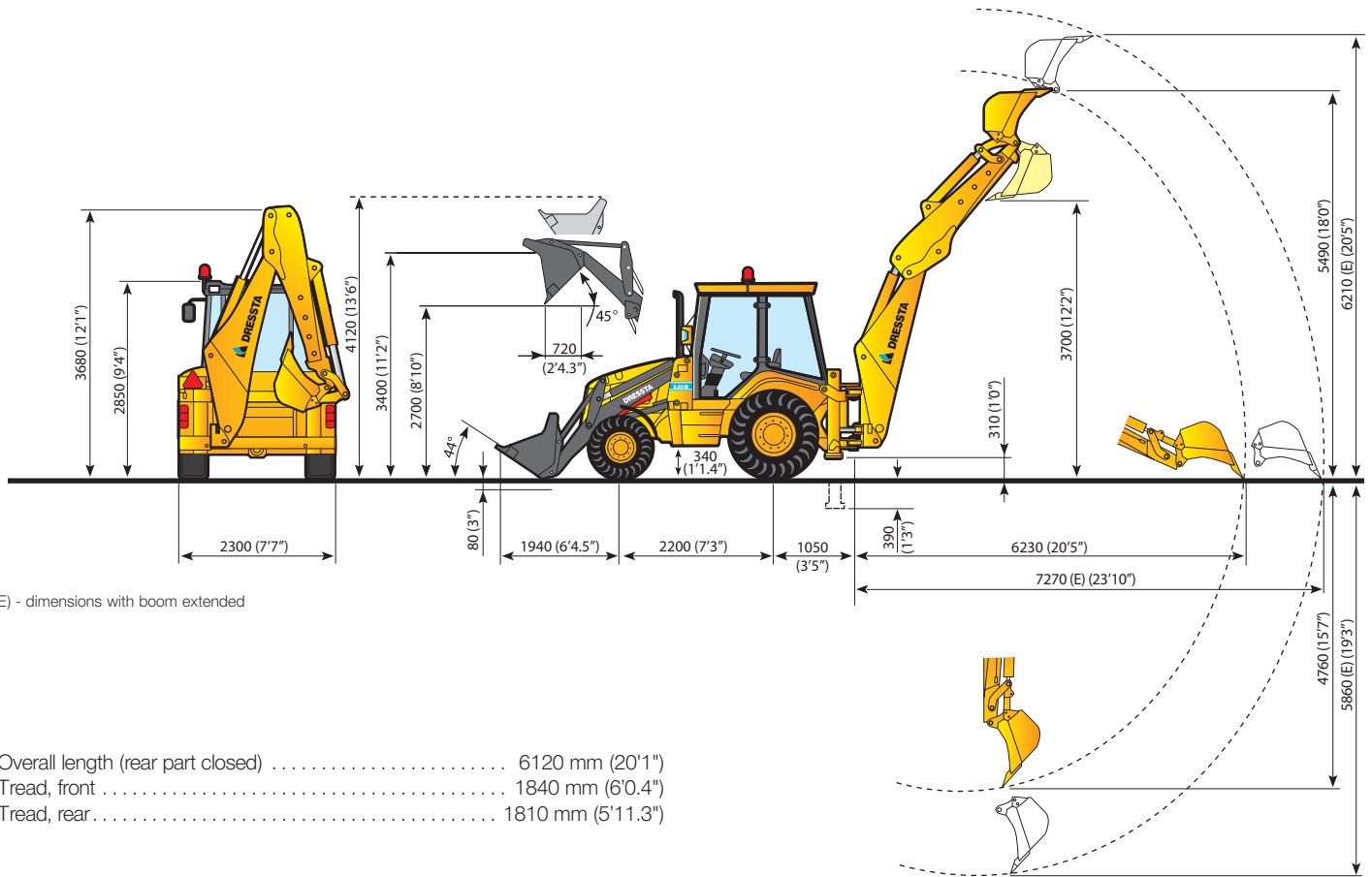
	Liter	US gal
Fuel tank	145	(38.3)
Cooling system	19	(5.0)
Engine, lubrication system	13	(3.4)
Hydraulic system	134	(35.4)

## INSTRUMENTATION

Gauges: torque converter oil temperature, engine coolant temperature, speedometer, tachometer.  
 Machine Information Center: engine coolant overheat, engine oil pressure, torque converter oil temperature, hydraulic oil temperature, fuel level, voltmeter, hourmeter, clock.  
 Front panel information: warning lights for turn signals, road lights, fog lights and parking brake.

## OPERATING WEIGHT

Includes standard equipment, loader and backhoe buckets and full fuel . . . . . 8900 kg (19,621 lb)



## LOADER EQUIPMENT SPECIFICATIONS

Dump height at 45° bucket angle	2700 mm (8'10")
Dump reach at 45° bucket angle and max. dump height	720 mm (2'4.3")
Bucket breakout force	69.1 kN (15511 lbf)
Lifting capacity at max height	42 kN (9442 lbf)
Lifting capacity at ground level	50 kN (11240 lbf)
Maximum height	4120 mm (13'6")

Specifications per SAE J732 for 1 m<sup>3</sup> (1.31 yd<sup>3</sup>) bucket, 2300 mm (7'6") width.

## BACKHOE EQUIPMENT SPECIFICATIONS

Max. digging depth, boom retracted	4760 mm (15'7")
Max. digging depth, boom extended	5860 mm (19'3")
Loading reach, boom retracted	6230 mm (20'5")
Max. height, boom retracted	5490 mm (18'0")
Max. height of bucket pin	4400 mm (14'5")
Dump height	3700 mm (12'2")
Stabilizer feet clearance	310 mm (1'0")
Side shift	1218 mm (4'0")
Bucket rotation	180°
Breakout force at bucket teeth	58 kN (13038 lbf)
Boom digging force	48 kN (10780 lbf)
Lifting capacity at 3 m (118") height (without bucket)	23 kN (5170 lbf)

Specifications per SAE J49 for 0.24 m<sup>3</sup> (0.31 yd<sup>3</sup>) bucket, 800 mm (2'7.5") width.

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## STANDARD EQUIPMENT

- Air cleaner, 2 stage, dry type with service indicator
- Alarm, back-up
- Alternator, 90A
- Axles, planetary type, 4-wheel drive
- Battery 12 V, 930 CCA, maintenance free
- Beacon light, rotating
- Boom, loader, parallel lift
- Boom, backhoe, telescopic
- Brakes, wet multi-disc, service and parking
- Bucket leveler
- Cab ROPS/FOPS (SAE J1040, J231) with sound suppression, two doors, dome light, front & rear wipers and washers, rear view mirror, tinted glass, heater, radio provision wiring, cup holders and ash-tray
- Cooling system for engine, transmission and hydraulic oil
- Emergency steering
- Fenders, front and rear
- Filters, engine oil, fuel, transmission and hydraulic oil
- Fire extinguisher
- First aid kit
- Horn, electric
- Hydraulic controls, 3-spool valve for loader and 7-spool for backhoe attachments
- Instrumentation:
  - Gauges: torque converter oil temperature, engine coolant temperature, speedometer, tachometer
  - Machine Information Center: engine coolant overheat, engine oil pressure, torque converter oil temperature, hydraulic oil temperature, fuel level, voltmeter, hourmeter, clock
  - Front panel information lights for turn signals, road lights, fog lights and parking brake
- Lights, travelling - tractor mounted, front and rear, turn signals, fog light
- Lights, working - 2 front and 2 rear, roof mounted
- Mirrors, rear view, R.H. and L.H. on cab
- Muffler
- Seat, suspension type, swivel 180°, with arm rest and seat belt
- Stabilizer feet, hydraulically controlled
- Starting, 12V
- Steering, hydrostatic
- Tires, tubeless
  - 12.5/80 - 18, 14 PR or 12 PR, front
  - 16.9 - 28, 12 PR, rear
- Tools
- Torque converter
- Transmission, full powershift, 4-speed forward and 3-reverse, electronically controlled, manual or automatic mode
- Vandalism protection

## OPTIONAL ATTACHMENTS

- Air conditioner and heater/pressurizer/defroster
- AM/FM CD radio
- Backhoe equipment:
  - buckets w/teeth, back digging, 0.08 m<sup>3</sup> to 0.27 m<sup>3</sup> (0.1 yd<sup>3</sup> to 0.39 yd<sup>3</sup>), 300 to 900 mm (12" to 35") width
  - trapezoidal bucket, 0.18 m<sup>3</sup> (0.24 yd<sup>3</sup>), dimensions 200 x 900 x 600 mm (8" x 35" x 24")
  - ditching buckets with or w/o hydraulic tilt, 0.25 m<sup>3</sup> (0.33 yd<sup>3</sup>) and 1500 mm (59") width
  - tool carrier, mechanical quick coupler,
  - buckets for quick coupler, 0,08 to 0,27 m<sup>3</sup> (0.1 to 0.39 yd<sup>3</sup>)
  - hydraulic hammer SANDVIK BR623
  - hydraulic hammer MONTABERT SC28
  - drill
- Handtool circuit
- Hand-held hydraulic hammer, Stanley 28 kg, with piping
- Hydraulic control with multi-piston pump, variable output
- Loader equipment:
  - buckets w/teeth, G.P. and M.P., 1 m<sup>3</sup> (1.31 yd<sup>3</sup>)
  - bucket w/bolt-on cutting edge, G.P., 1 m<sup>3</sup> (1.31 yd<sup>3</sup>)
  - buckets w/teeth or cutting edge and lifting forks, 1.0 t (2,205 lb)
  - snow blower
  - snow plow, 2830 mm (111") width
- Ride control system
- Stabilizer pads, set of 2 rubber pads, bolted
- Tool carrier, hydraulic quick coupler, loader attachment:
  - buckets w/teeth, G.P. and M.P., 1 m<sup>3</sup> (1.31 yd<sup>3</sup>)
  - bucket w/bolt-on cutting edge, G.P. and M.P., 1 m<sup>3</sup> (1.31 yd<sup>3</sup>)
  - pallet fork-lift attachment, 2.4 t (5,291 lb)
  - snow blower
  - snow plow with tilt, 2830 mm (111") width
  - road sweeper, tube broom, 2400 mm (94") width
  - sack-filling attachment

Specifications subject to change without notice. Illustrations and pictures may include optional equipment and may not include all standard equipment.

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