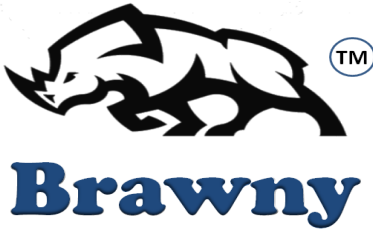


BD50_{HST}

CRAWLER DOZER



Salient Features :

- | BEML - BSAA4D105EG Electronic Governor Engine
- | Hydro-static Transmission
- | Arm Chair Steering Controls
- | Hydraulic Joy Stick Controls PAT blade operations
- | Adjustable Operator's Seat for excellent comfort
- | Integrated ROPS - FOPS Cabin
- | Advanced Electronic Monitoring System with colour display



BD50_{HST}

Flywheel horsepower : 75kW (100 hp) @ 2200 rpm
(As per ISO 9249)

Operating mass : 10,500 kg

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BD50HST

CRAWLER DOZER

Salient Features :

- | BEML make Diesel Engine with Electronic Governor for sustained power and fuel economy.
- | Continuously variable Hydrostatic transmission for smooth dozing and travel.
- | High maneuverability with counter rotation of tracks to enable pivot steering.
- | Main frame and Track frame are of rigid welded Construction.
- | Job proven undercarriage.
- | Electronic proportional control joystick for Travel & Steering and Hydraulic joystick for PAT blade control ensure smooth & precise operation.
- | CLSS hydraulic system
- | Modular construction of engine, cooling system, pump and final drive for ease of serviceability and maintainability.
- | Lubricated Rollers and Idlers ensure reduced maintenance time and costs of undercarriage.
- | Track Link Dust seals prevent entry of abrasive dirt or mud and enables long track life.
- | Integral ROPS - FOPS Cabin with ergonomically located controls.
- | Tilttable Cabin for easy serviceability.
- | Adjustable Operator's seat for excellent comfort.
- | Advanced Electronic Monitoring System with colour display .
- | GPS system for remote tracking & GEO fencing
- | Trademark applied for: BRAUNY



ENGINE

Make	BEML
Model	BSAA4D105EG
Type	Water cooled, 4 cycle turbo charged, direct injection diesel engine
No. of Cylinders	4, inline
Bore x Stroke	i 105 x 125 mm
Displacement	4327 cc
Horse Power	
Flywheel power	75 kW (100 hp) @ 2200 rpm As per ISO: 9249
Maximum torque	48.2 kg-m @ 1200 rpm
Fuel System	
Type	Bosch inline FIP
Governor	Electronic
Lubrication system	
Method	Forced lubrication
Pump	Gear pump
Filter	Spin-on cartridge paper element
Oil Cooler	Water cooled
Cooling system	
Type	Centrifugal water pump & pusher type fan
Air Cleaner	
Type	Dry, horizontal type
Electricals	
Alternator	24 V, 45 A
Starting motor	24 V, 7.5 kW
Battery	2 x 12 V, 150 AH



POWER TRAIN

Hydrostatic Transmission

Dual-path, Hydrostatic Transmission provides infinite speed changes upto 8.5 kmph. The variable capacity travel motors allow the operator to select the optimum speed to match specific jobs using Travel control lever.

Final Drive

In-shoe mounted axial piston type Travel motors with integrated two stage planetary gear reduction. Compact in-shoe mount reduces risk of damage by debris. Bolt on sprocket ring.

Max. Drawbar pull	15,760 kg
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STANDARD ACCESSORIES

Hourmeter	Key switch
Ammeter	Back - up switch
Engine Oil Pressure Gauge	High water temperature indicator
Water temperature guage	Light switch
Head lamps & rear lamp	Low engine oil pressure indicator
Charger indicator	4st relay, battery relay
Back - up alarm	Tool kit
24 V, (12 V x 2) 150 Ah batteries	ROPS & FOPS Cabin

OPTIONAL ATTACHMENTS

500 mm shoe	Heater
Towing winch	Cold start kit
Multi - shank ripper	AC



HYDRAULIC SYSTEM

Hydraulic Pump Implement (Blade Control)

Capacity	40 ℓ / min @ 2200 rpm
Relief pressure	250 kg / cm ²

Hydraulic Cylinders

Cylinder	Qty	Bore x Stroke(mm)
Blade lift	2 cylinders	∅ 90 x 262 mm
Blade Angle	2 cylinders	∅ 90 x 444 mm
Blade tilt	1 cylinders	∅ 90 x 132 mm

STEERING

Electronic joystick control for all directional movements. Pushing the joystick forward results in forward machine travel. While pulling it rearward reverses the machine. Simply tilt the joystick to the left or right to make a turn. Tilting the joystick fully to the left or right activates counter rotation. The buttons provided on the joystick increase / decrease the speed.

Turning radius at rear tail corner - R 2124 mm

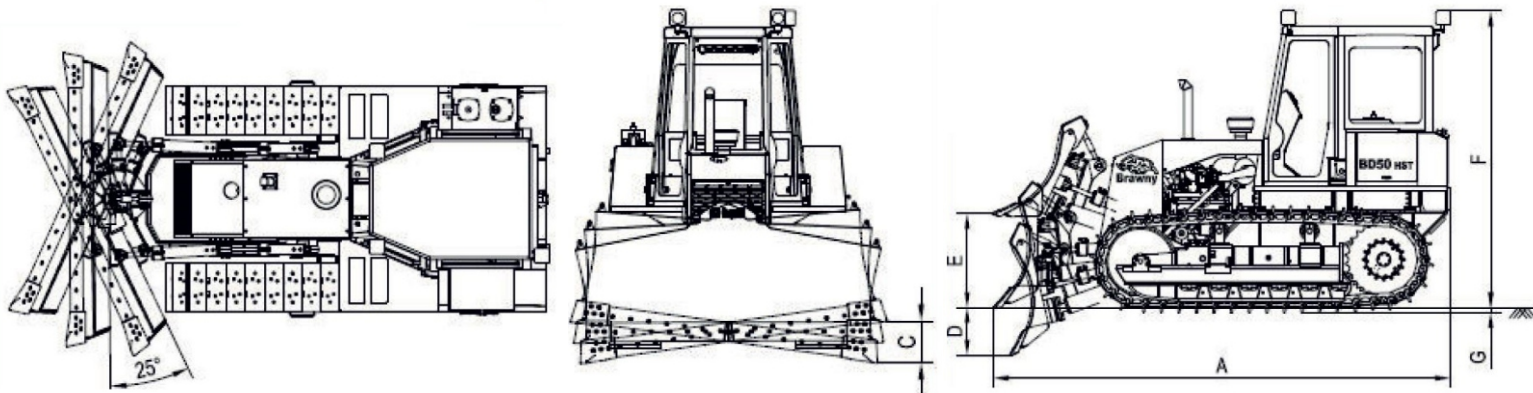
UNDER CARRIAGE

Suspension	Rigid type
Track Frame	Box section, high tensile strength steel construction
Track Rollers	6 No. each side
Carrier Rollers	2 No. each side
Track Shoes	
Type	Single grouser
Shoe width	460 mm
No. of shoes	42 each side
Ground pressure (Tractor only)	0.4 kg / cm ²
Gradeability	Longitudinal 30°

BLADE ATTACHMENT

	PAT Dozer
Overall length with dozer (mm) A	4550
Blade length x height (mm) B	2750 x 1000
Max. tilt adjustment (mm) C	372
Max. Drop below ground (mm) D	450
Max. lift above ground (mm) E	910
Overall Height (mm) F	2950
Grouser height (mm) G	50
Digging angle (degrees)	13.3

Mass (kg)	
Dozer attachment	1150



Ground Clearance : 400 mm

Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories

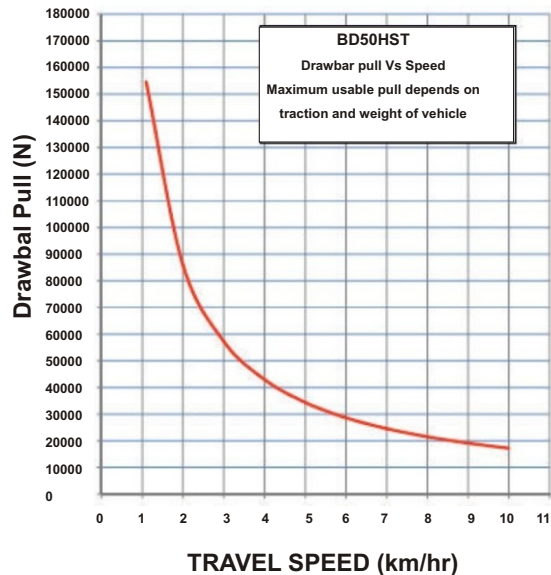
OPERATING MASS

Mass of tractor only (including rated capacity of lubricant, coolant and fuel)	9,350 kg
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COOLANT AND LUBRICANT CAPACITY (Refill)

System (refilling)	Capacity in ℓ
Cooling System	35
Engine oil pan	16
Fuel Tank	200
Final Drive (each side)	5
Hydraulic tank	65

DRAWBAR PULL Vs TRAVEL SPEED



DIMENSIONS : in mm

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