





- Efficient Hydraulic System
- Closed loop swing system
- Aesthetically improved cabin
- Optimized service & maintainability index
- Powerful induction motor
- Effort-free operation
- Maximum Working Performance
- High Total Reliability and Durability
- Easy Maintenance
- Operator Comfort

# **BACKHOE:**

Grossl Horsepower : 2 X 300 kW @ 1500 r/min

Operating mass : 170000 kg

Bucket capacity : 10.5 m³ - 12.0 m³

# **LOADING SHOVEL:**

Gross Horsepower : 2 X 300 kW @ 1500 r/min

Operating mass : 175000 kg

Bucket capacity : 7.5 m<sup>3</sup> - 12.0 m<sup>3</sup>



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# BE1800E HYDRAULIC EXCAVATOR

# Salient Features:

# Efficient hydraulic system for increased productivity:

Three pump hydraulic system with independent closed loop swing function not only assures smooth compound work equipment movements and travel but also shortens the cycle time

### Powerful economical motor:

2x6.6 kV, 4 pole, 3 phase, 50 Hz TEFV squirrel cage induction motors delivers 2 x 300 kW to assure high operational economy.

# Effort free operation:

Work equipment controls are simple and light touch due to the hydraulically assisted control system.

# Maximum working performance:

Wide working range and large undercarriage assure stable operation for maximum working performance.

# Easy maintenance:

Centralised monitoring systems within the operator's cab allows fast daily checks and also keeps the operator constantly informed of any abnormality during operation.

# Operator comfort:

Specially designed cab provides plenty of work space and excellent visibility.

**Minimum Downtime**: Automatic lubrication system supplies optimum amount of grease to vital hinge pins and swing circle bearings reducing failures and downtime.

### Safety:

Automatic fire detection and suppression system prevents fire accidents and hence minimizes loss of valuable resources.





Type : Squirrel cage Induction motor

 Out put
 : 2 x 300 kW

 Voltage
 : 6.6 kV +/- 10%

 Rated current
 : 33 A each (at 6.6 kV)

 Frequency
 : 50 Hz

Revolutions :1,500 rpm
Starting current :4.5 p.u (approx.)

- Custom made electric motor to withstand severe mining conditions.
- Power limit control by Pump Management System
- Note: The hydraulic specification of the electric-driven machine varies from the diesel driven version.



# **HYDRAULIC SYSTEM**

Unique four pump system and independent swing function assure smooth compound movements of the work equipment. Unique positive flow control system controls all pumps for efficient use of motor power. This system also reduces hydraulic loss during operation, resulting in low power consumption. Oil to air hydraulic oil cooler maintains optimum heat balance of the hydraulic oil.

#### Hydraulic pumps

Four variable-capacity piston pumps power the boom, arm, bucket and travel circuits.

Capacity (discharge flow) at motor revolutions :  $4 \times 410 \, \text{Mmin}$  Two variable capacity piston pumps power the swing circuit. Capacity (discharge flow) at motor revolutions:  $2 \times 358 \, \text{Mmin}$ 

### **Hydraulic Motors:**

Travel: Four axial piston motors with brake valve (Two for each track)
Swing: Two axial piston motors with swing holding brake.

Control Valves: Eight way spool type x 2

Relief valve settings

### Hydraulic cylinders (Backhoe):

 Cylinder
 Number
 Bore x Stroke

 Boom
 2
 280 mm x 2660 mm

 Arm
 2
 250 mm x 2180 mm

 Bucket
 2
 200 mm x 2170 mm

### Hydraulic cylinders (Loading shovel) :

 Cylinder
 Number
 Bore x Stroke

 Boom
 2
 280 mm x 2110 mm

 Arm
 2
 225 mm x 1830 mm

 Bucket
 2
 225 mm x 1870 mm

 Bottom dump
 2
 180 mm x 460 mm



# **STEERING**

Steering / travel controls are actuated with either hand levers or foot pedals. Pushing both levers (or pedals) makes the machine to move forward. Pulling them back makes the machine to move backward. Setting one lever (or pedal) in neutral and the other in forward enables the machine to make a pivot turn. Pushing one forward while pulling the other backward makes the machine counter-rotate on the spot.



Fully hydrostatic drive system. Each track is driven by two hydraulic motors. Power is transmitted through spur gears and planetary reduction gears to the track.

Max. drawbar pull : 1030 kN (105000 kg) Max. travel speed : 0.75 m/s (2.7 km/h)

# STANDARD ACCESSORIES

Two modes selection, Fully hydrostatic drive, Track roller guards, Travel motor guards, Wet disc type parking brake, Swing holding brake, Hydraulic idler cushion (HIC), Vandalism cap, Segmented sprocket, Tool box, Electronic monitoring panel. All steel High mount cab includes tinted glass windows, reclining seat, magazine box, ash tray, rubber mat, rear view mirror, cabin fan, wind shield wiper, portable fire extinguisher and room lamp. Counter weight, Automatic lubrication system, Hydraulically operated Auto Lubrication system, Wind shield washer, Front wind shield guard.

### **OPTIONAL ACCESSORIES**

Heater, Air conditioner, Falling Object Protective Structure (FOPS), Track shoe (1010 mm).

Hydraulic lock type brakes. Each travel motor is equipped with a brake valve. When the travel / steering levers are positioned in neutral, the brake is automatically applied. When the brakes are applied, the brake valve softens shocks and also serves to regulate speeds when making descent. Oil, multiple-disc type parking brakes, which are hydraulically interconnected with travel / steering levers, are also automatically actuated on the final-drive shaft.



# **SWING SYSTEM**

Two piston motors power the swing system through swing machineries with spur and planetary reduction gears. The wet disc type swing holding brake is automatically applied when the control lever is positioned in neutral. Single-row shear type ball bearings with induction-hardened internal gears are built-in in the swing circle.

Swing speed 4.5 r/min Tail Swing radius 6000 mm



# **UNDER CARRIAGE**

Job-proven undercarriage with long track and wide track gauge. Center frame is mounted on the track frames and secured with bolts. Variable track gauge. Sealed tracks. Lubricated rollers and idlers. Hydraulic track tension adjusters with a cushion cylinder. Assembled track-type tractor shoes with double grousers.

 Shoe width
 : 810 mm

 Grouser height
 : 23 mm

 No. of shoes (each side)
 : 49

 No. of track rollers (each side)
 : 8

 No. of carrier rollers (each side)
 : 3

Ground pressure (Backhoe) : 162 kPa (1.65 kg/cm²) Ground pressure (Loading shovel) : 164 kPa (1.67 kg/cm²)



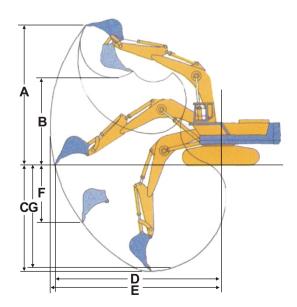
# SERVICE REFILL CAPACITY

Final drive (each side) :  $2 \times 85.0 \%$ Swing drive :  $2 \times 37.0 \%$ Hydraulic oil : 1500 %Pump drive (PTO) :  $2 \times 10.0 \%$ 



# **WORKING RANGE AND ATTACHMENT (BACKHOE)**

Arm		4.1 m	5.0 m
A Max. digging height		13550	13850
B Max. Dumping height		8730	9030
C Max. digging depth		10000	10730
D Max. Digging reach at	ground level	16040	16900
E Max. Digging reach		16450	17290
F Max. Vertical digging d	epth	5630	6260
G Max. digging depth of	cut at 2.44 m level	9900	10630
Arm crowd force	kN (kgf)	535 (54,500)	467 (47,800)
Bucket digging force	kN (kgf)	571 (58,200 )	571 (58,200)





# **OPERATING MASS (approx.)**

#### **LOADING SHOVEL:**

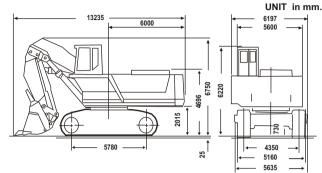
Operating mass including 5,900 mm boom, 4,400 mm arm, 10.2 m<sup>3</sup> SAE/ISO heaped bucket, operator, lubricant and the standard accessories: 175000 kg.

#### **BACKHOE:**

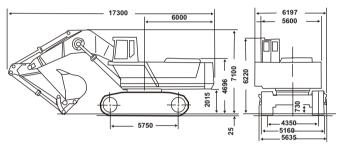
Operating mass including 9,100 mm boom, 4,100 mm arm, 10.5 m³ SAE/ISO heaped bucket, operator, lubricant and the standard accessories: 170,000 kg.



With 5900 mm boom, 4400 mm arm and 10.2 m3 bucket



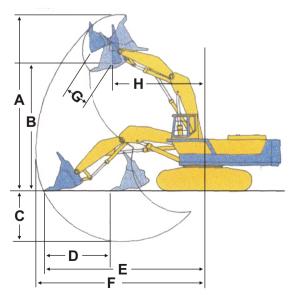
With 9,100 mm boom, 4,100 mm arm and 10.5 m<sup>3</sup> bucket





# WORKING RANGE AND ATTACHMENT (LOADING SHOVEL)

Bottom dump bucket 10.2 m <sup>3</sup>
14,110
10,230
4,050
5,220
12,500
13,140
1,890
7,140
716 kN (73,000 kgf)
716 kN (73,000 kgf)



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

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# बी ई एम एल लिमिटेड BEML LIMITED

A Govt. of India Miniratna Company Under Ministry of Defence

# BE18001 HYDRAULIC EXCAVATOR





- Efficient Hydraulic System
- Closed loop swing system
- Aesthetically improved cabin
- Optimized service & maintainability index
- Powerful induction motor
- Effort-free operation
- Maximum Working Performance
- High Total Reliability and Durability
- Easy Maintenance
- Operator Comfort

# **BACKHOE:**

Gross Horsepower : 2 x 354 kW (2 x 475 HP)@2000 rpm

Operating mass : 175000 kg

Bucket capacity : 8.5m<sup>3</sup> - 11.2 m<sup>3</sup>

# **LOADING SHOVEL:**

Flywheel Horsepower: 2x354kw (2x475 HP) @ 2000 rpm

Operating mass : 175000 kg

Bucket capacity : 7.5 m<sup>3</sup> - 10.2 m<sup>3</sup>



www.bemlindia.nic.in

# BE1800D HYDRAULIC EXCAVATOR

# **Salient Features:**

Efficient hydraulic system for increased productivity:

Three pump hydraulic system with independent closed loop swing function not only assures smooth compound work equipment movements and travel but also shortens the cycle time

Powerful economical Engine:

Two BEML diesel engines deliver 2 x 354 kW (2 x 475 hp). A direct injection system for reduced fuel consumption and assures high operational economy. The turbo charger allows engine to attain high performance even on high altitude job sites.

Effort free operation:

Work equipment controls are simple and light touch due to the hydraulically assisted control system.

Maximum working performance:

Wide working range and large undercarriage assure stable operation for maximum working performance.

Operator comfort:

Specially designed cab provides plenty of work space and excellent visibility.

Easy maintenance:

Centralised monitoring systems within the operator's cab allows fast daily checks and also keeps the operator constantly informed of any abnormality during operation.

**Minimum Downtime:** Automatic lubrication system supplies optimum amount of grease to vital hinge pins and swing circle bearings reducing failures and downtime.

Safety:

Automatic fire detection and suppression system prevents fire accidents and hence minimizes loss of valuable resources.





**BEML BSA6D140EG**, 4 cycle, water cooled, overhead-valve, direct injection, turbocharged, diesel engine with water cooler. Six cylinders of 140 mm bore x 165 mm stroke and 15.24  $\uplambda$  piston displacement. Electronic governor.

**Gross horse power**: 2 x 354 kW (2 x 475 hp) @ 2000 rpm Gear pump driven forced lubrication with full flow filter. Dry type air cleaner with an automatic dust evacuator for longer element service intervals and a dust indicator for simplified maintenance. 24 Volt electrical starting system.

# \*

# **HYDRAULIC SYSTEM**

Unique three-pump system and independent closed loop swing function assure smooth compound movements of the work equipment. Positive control Load Sensing System with electronic load limiting control for main pumps for efficient use of engine power. This system also reduces hydraulic loss during operation, resulting in low fuel consumption. Oiltoair hydraulic oil cooler maintains optimum heat balance of the hydraulic oil.

Hydraulic pumps

Four variable-capacity piston pumps power the boom, arm, bucket and travel circuits.

Capacity (discharge flow) at engine rated rpm: 4 x 410 ½min

Two variable capacity piston pumps power the swing circuit.

Capacity (discharge flow) at engine rated rpm : 2 x 358 #/min Tandem gear pump powers the pilot control circuit and AC compressor. Capacity at engine rated rpm : 2 x (50+25)#/min

**Hydraulic Motors:** 

Travel : Four, Variable displacement axial piston motors with

brakeexternal valve (two for each track).

Swing : Two fixed displacement piston motors with external swing holding brake.

**Control Valves:** 

6/3 way eight spool type x 2

Relief valve settings

Hydraulic cylinders (Backhoe):

Cylinder	Number	Bore x Stroke
Boom	2	280 mm x 2660 mm
Arm	2	250 mm x 2180 mm
Bucket	2	200 mm x 2170 mm

Hydraulic cylinders (Loading shovel):

Number	Bore x Stroke
2	280 mm x 2110 mm
2	225 mm x 1830 mm
2	225 mm x 1870 mm
2	180 mm x 460 mm
	Number 2 2 2 2 2



# STEERING

Steering/travel controls are actuated with either hand levers or foot pedals. Pushing both levers (or pedals) makes the machine move forward. Pulling them back makes machine move backward. Setting one lever (or pedal) in neutral and the other in forward while pulling the other backward makes machine counter-rotate on the spot.

### STANDARD ACCESSORIES

 $2\times24\ V\ /\ 7.5\ kW$  starting motor,  $24\ V\ /\ 45\ A$  alternator,  $2\times12\ V\ /\ 200\ Ah$  batteries, air cleaner, dust indicator, two modes selection, Fully hydrostatic drive, Track roller guards, Travel motor guards, Wet disc type parking brake, Swing holding brake, Hydraulic idler cushion (HIC), Vandalism cap, Segmented sprocket, Tool box, Electronic monitoring panel. All steel High mount cab includes tinted glass windows, reclining seat, magazine box, ash tray, rubber mat, rear view mirror, cabin fan, wind shield wiper, portable fire extinguisher and room lamp. Counter weight, Air horn, Automatic lubrication system, Air assisted greasing system. Air conditoner, FOPS with front wind shield guard cabin with wind shield washer.

# **OPTIONAL ACCESSORIES**

Heater, Track shoe (1010 mm).



Fully hydrostatic drive system. Each track is driven by two hydraulic motors. Power is transmitted through spur gears and planetary reduction gears to the track.

Max. drawbar pull: 1030 kN (105000 kg) Max. travel speed: 0.75 m/s (2.7 km/h)



# BRAKES

Hydraulic lock type brakes. Each travel motor is equipped with a brake valve. When the travel / steering levers are positioned in neutral, the brake is automatically applied. When the brakes are applied, the brake valve softens shocks and also serves to regulate speeds when making descent. Wet, multiple disc type parking brakes. Which are hydraulically interconnected with travel/steering lever are also automatically actuated on the final-drive shaft.



# **SWING SYSTEM**

Two piston motors power the swing system through swing machineries with spur and planetary reduction gears. The wet disc type swing holding brake is automatically applied when the control lever is positioned in neutral. Single-row shear type ball bearings with induction-hardened internal gears are built-in in the swing circle.

Swing speed : 4.5 r/min Tail Swing radius : 5980 mm



# **UNDER CARRIAGE**

Job-prooven undercarriage with long track and wide track gauge. Center frame is mounted on the track frames and secured with bolts. Variable track gauge. Sealed tracks. Lubricated rollers and idlers. Hydraulic track tension adjusters with a cushion cylinder. Assembled track-type tractor shoes with double grousers.

Shoe width		810 mm
Grouser height	:	23 mm
No. of shoes (each side)	:	49
No. of track rollers (each side)	:	8
No. of carrier rollers (each side)	1	3
Ground pressure (Backhoe)	:	162 kPa (1.65 kg/cm2)
Ground pressure(Loading shovel)		162 kPa (1.65 kg/cm2)



# **OPERATING MASS (approx.)**

Loading Shovel:

Backhoe:



# SERVICE REFILL CAPACITY

Fueltank	:	2200 ℓ
Coolant	:	2 x 147 l
Engine	:	2 x 33.5 l
Final Drive (each side)	- 1	2 x 85 l
Swing drive (each side)	:	2 x 37 l
Hydraulic Tank	:	1500 ℓ
Pump Drive	- 1	2x 10 l



# **BUCKET RANGE**

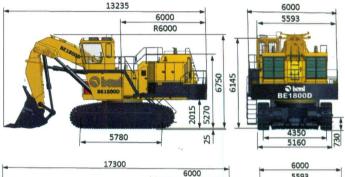
# FILTER SYSTEMS

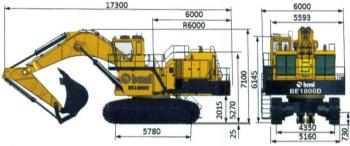
Engine Air intake Hydraulic Two stage fuel filter with water separator.
Dry type, two stage air cleaner with dust evacuator
Two suction filter, four line filters and six return line filters.



# DIMENSIONS

	D 11	
	Backhoe	Loading shovel
Overall length	17.300	13.235
Overall width	6.000	6.020
Overall height	7.100	6.750
Track length on ground	5.780	5.780
Track gauge	4.350	4.350
Min. ground clearance	0.730	0.730





# WOR

# **WORKING RANGE**

EXCAVATOR	SHOVEL	VEL BACKHOE	
BOOM	<b>DOM</b> 5900 9100		
ARM	4400	4100	5000
BUCKET	9.5 m <sup>3</sup>		
A. Max. cutting digging width (m) B. Max. dumping height (m) C. Max. digging depth (m)	14110	13550	13850
	10230	8730	9030
	4050	10000	10730
D. Level crowding distance (m) / Max. vertical digging depth E. Max. digging reach at G.L. (m) F. Max. digging reach (m) G. Max. Bucket throat opening / Max.	5220	5630	6230
	12500	16040	16900
	13140	16450	17290
digging depth of cut at 2.44 m level H. Reach at max. dumping height Forces kN(kgf)	1890	9900	10630
	7140	9900	10630
Digging Force (Bucket)	716	571	571
	(73,000)	(58,200)	(58,200)
Digging/Crowding Force (arm)	716	535	467
	(73,000)	(54,500)	(47,800)

EVOLUTOR		1045010				(34,300) (47,800
EXCAVATOR		LOADING			BACKHOE	
Bucket Capacity m3						
Heaped *	10.2	9.5	9.5	7.5	8.5	10.5
Stuck	8.1	7.5	7.5	6.1	6.7	8.2
Bucket width in mm						
Without side cutters	3,200	3,000	3,000	2,800	1,995	2,280
With side cutters					2,155	2,440
Bucket Mass (kg) with teeth						
Without side cutters	13,600	13,300	13,900	13,000	6,740	7,950
With side cutters					7,010	8,220
No. of bucket teeth	6	6	6	5	5	5
Bucket týpe	General	General	Heavy	Rock	General	Heavy
	Purpose	purpose	duty		purpose	duty

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

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# **Marketing Division**

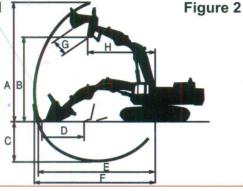
5th Floor, Unity Building, J.C. Road, Bangalore-560 002

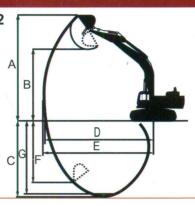
T + 91 80 22963501/02/07/510/553

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Figure 1





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	-	THE OTT TOES			
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Kolkatta	:	35/1, Taratalla Road, Kolkatta - 700 088. West Bengal	T + 91 33 24015286 / 87 / 98 / 99	F + 91 33 24015288	E-mail: kolkatta@rm.beml.co.in
Mumbai	:	C/o Richardson & Cruddas (1972) Ltd.Sir J.J Road Byculla, 3rd Floor,	T + 91 22 23781457 / 23781382	F + 91 22 23780915	E-mail: mumbai@rm.beml.co.in
		Corporate Office Building, Mumbai - 400 020			
Nagpur	:	33,Cement Road, Shivaji Nagar, Nagpur - 440 010, Maharashtra.	T + 91 0712 2248435 / 2248343	F + 91 0712 2249997	E-mail: nagpur@rm.beml.co.in
New Delhi	:	Flat EFGH, 'Vandana', 11th Floor, Tolstoy Marg, Cannought Palace,	T + 91 11 23310035 / 23316500	F + 91 11 23325085	E-mail: delhi@rm.beml.co.in
		New Delhi - 110 001			
Ranchi	:	206/D-1, Bhagirathi, (Behind NCC Campus), Rameshwaram Colony,	T + 91 651 2540710 / 2540791	F + 91 651 2540624	E-mail: ranchi@rm.beml.co.in
		Bariatu Road, Ranchi, Jharkhand - 834009	* *** *** *** *** *** *** *** *** **** ****		
Sambalpu	r :	BEML Complex,NH-6, Baraipalli,Sambalpur - 768 150, Orissa.	T + 91 663 2521604 / 2520393	F + 91 663 2521603	E-mail: sambalpur@rm.beml.co.in
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## DISTRICT OFFICES

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### **ACTIVITY CENTERS**

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