



- Efficient Hydraulic System
- Powerful Economical Engine
- Effort-free Operation
- Operator Comfort
- Dual Speed Travel System



Operating Mass : 7500 kg

Fly Wheel Horse Power (Net)* : 41.9 kW (57 hp) @ 2000 rpm

Fly Wheel Horse Power (Net) **: 53kW (71hp) @ 2200 rpm

Bucket capacity : 0.3 m³

* Naturally Aspirated Engine

** Engine with Turbocharger

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BE75 HYDRAULIC EXCAVATOR

Salient Features:

Efficient Hydraulic System

Hydraulic system with axial piston pump assures smooth compound work equipment movement and travel. Rugged closed center load sensing hydraulic system.

Powerful economic engine

Diesel engine delivers 57 FHP@2000 rpm (Naturally Aspirated Engine), Diesel Engine delivered 76 HP (Gross)@2200 rpm (Turbo charge engine). A direct injection system for reduced fuel consumption assures high operational economy.

Effort free operation

Hydraulically assisted simple feather touch ergonomically designed controls ensures effort free operations.

Operator Comfort

Specially designed cabin provides plenty of work space and excellent visibility. Remote location of hydraulic tank away from the cabin prevents heating up of the cabin enhancing operator comfort and productivity.

Dual Speed Travel System

Dual Speed hydrostatic drive with counter balance valve and automatic parking brake ensures smooth and safe operation. The lower speed can be used during excavator operation and higher speed during long distance travel for better mobility.





Make	Kirloskar Oil Engines Ltd.		
Model	4R 1040 NA	4R 1040 TC BSIII	
Туре	Diesel, 4 stroke, Water Cooled, Direct Injection and Naturally Aspirated	Diesel, 4 stroke, Water Cooled. Direct Injection with Turbo Charger,	
Power	FHP(Net) 41.9kW (57hp)	FHP 53kW (71 hp)	
	@2000 rpm	@2200 rpm	
Max Torque	272 Nm (28 Kgm)	300 Nm (30.59 Kgm)	
	@1500 rpm	@1500 rpm	
No. of cylinders	4, In-line		
Bore & Stroke		mm	
Total displaceme	nt 4160 cm ³		
Electrical			
Alternator	24 V, 40A		
Starting Motor	24V		
Battery	2 x 12 V, 75 Ah		

UNDERCARRIAGE

Track frame	Sturdy H bar type centre frame is integrally welded with reinforced box-sections.
Track Shoe width(STD)	450mm
No. of shoes	40 each side (Triple Grouser)
No. of carrier rollers	1 each Side
No. of track rollers	5 each side
Ground Pressure	0.031 Mpa (0.32 kg/cm²)
No. of shoes No. of carrier rollers No. of track rollers	450mm 40 each side (Triple Grouser) 1 each Side 5 each side



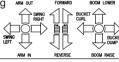
SWING SYSTEM

Planetary gear reduction with built in automatic break for swing lock.
11.8 rpm
internal gear and pinion, immersed in grease
142.348
1830 mm



CONTROLS

WorkAttachment	Hand operated joy stick pilot controls with accumulator sytem for smooth safe operation
Travel	Two foot pedals cum hand levers operated pilot control valves for forward / reverse travel and steering ARM OUT FORWARD BOOM LORIGER
	CHANG A DESCRIPTION





INDICATORS/ALARM/GAUGES

Indicators for alternator charge. Alarm for low engine pressure. Gauges for fuel level, hour meter, water temperature and hydraulic oil level, sight gauge and FM radio, fan



REFILL CAPACITY (Coolant & Lubricant)

Capacity (liters)
122
10
9.5
0.8
60

STANDARD EQUIPMENT

Boom (3710 mm), Std arm (1650 mm), Std. Bucket (0.3 m³, SAE heaped), starting motor, alternator, batteries, suction type fan, dry type air cleaner, horse power summation hydraulic system, 450 mm triple grouser shoes, hydraulic track adjuster, counter weight, hydrostatic drives, pilot pressure controls, all weather steel cabin (with safety glass windows, lockable door, wiper, electric horn, cabin lamp and adjustable seat with reclining device), rear view mirror, ash tray, portable fire extinguisher, front light & tool kit, Blade attachment for light dozing and leveling operations.

OPTIONAL ACCESSORIES / ATTACHMENTS / BUCKETS

Hydraulic Rock Breaker, Hard Faced Bucket, Trenching Bucket, Cabin front guard, FOPS ditch cleaning Bucket, weed Buckets, Trapezoidal Bucket, Ripper, Short Boom (2650mm).

HYDRAULIC SYSTEM

System Capacit	y (Lite	ers): 100				
Hydraulic Pump	os	-				
Main						
Type		Variable displacement axial piston pump				
Max. oil flow		144 + 72 I/min @ 2000 rpm				
Hydraulic Motor	rs					
Travel		2 Nos. of two speed axial piston motors with		s with		
		built-in counter balance valves				
Swing		1 no. axial piston motor				
Control Valves						
Туре		Main	Compact	pilot	operated	load
			sensing 8	spool v	alve	
Relief	-	Work Attac	hment	24.	5 (250)	
valve	- 1	(Boom, arm & bucket)				
settings	- {	Swing circuit 12.5 (130)				
Mpa (kg/cm²)	1					
. ()	(Travel circ	uit	24.	5 (250)	
					· ′	
Hydraulic Cylin	ders					

Hydraulic Cylinders			
Туре	Double acting piston		
	Qty	Bore x Stroke(mm)	
Boom	1	∅ 120 x 830	
Arm	1	∅ 100 x 885	
Bucket	1	Ø 90x 685	

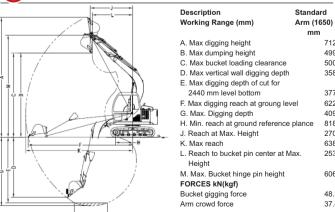
DRIVES & BRAKES

3			
Drive Type	Two speed hydrostatic with axial piston motor and planetary reduction gear box for each track		
Travel and Steering	Forward/reverse travel and steering actuated with either hand levers of foot pedals. Independent drive to each track enables machine to make a pivot turn in either direction.		
Max. Draw bar pull	55.7 kN (5680 kg)		
Max Travel Speeds	1) 2.6 km/h - working		
	2) 4.4 km/h - Transport		
Counter Balance	Counter balance valve fitted on each hydraulic		
Valve	motors acts as hydraulic brake. This also prevents		
	possible over speeding in down gradient		
Brakes	Oil disc type, spring applied hydraulically released		
	brakes. The brakes are automatically released		
	when pedals are operated for travel.		

BACKHOE BUCKET

Bucket Capacity (m³) (SAE heaped)	0.3
Bucket width (mm) without side cutters	740
Bucket width (mm) with side cutters	920
Bucket weight (kg)	
Without side cutters	220
With side cutters	244
No. of bucket teeth	4

Working Range and Digging Forces





- Built-in swing brake and hydraulic swing lock ensure safety during along distance travel and transportation.
- Horn
- Automatic parking brake
- Relief valves and safety valves for hydraulic system protection.
- Counter balance valves in travel motors to avoid possible over speeding in down gradient.
- Accumulator in pilot line to bring down the work attachment to a safer position in the absence of engine power.
- Hydraulic filters for protection of hydraulic system against oil contamination.
- Mechanical safety levers for locking hydraulic system controls

FILTER SYSTEM

ENGINE	
Lub Oil	Papertype
Fuel	Pre and Micro
Air	Double element dry type with pre cleaner
Hydraulic System	Return line filter



MASS (kg)

Operating Mass (Approximate) (Including Boom (3710 mm) Std. Arm (1650 mm), Std. Bucket (0.3m3, SAE Heaped), Operator,

Lubricant, coolant, filled fuel tank and hydraulic tank.

mm

4995

5000

3580

3775

6225

4090

2705

6385

2530

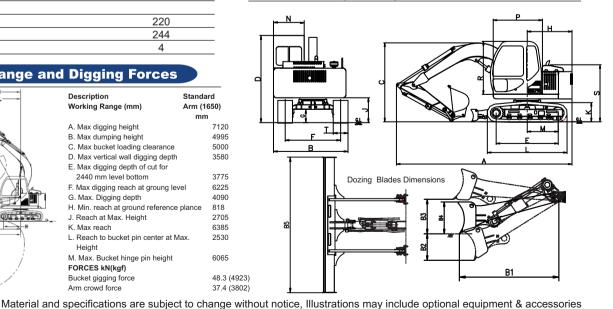
6065

Dozing Blade Dimensions (mm)

B1 - Cutting edge to Rib pin center Distance	1321	
B2 - Digging depth for ground level	436	
B3 - Vertical lift from ground level	285	
B4 - Blade height	455	
B5 - Overall width	2250	



A-Overall length / B - Width	5850/2280
C-Overall height (top of boom)/ D-Cab	2615/2495
E-Track length on ground / K -height	2060/680
F-Track guage / T-Width	1700/450
G-Min ground clearance / J-Cwt	405/760
H-Tail Swing Radius	1830
L- Crawler overall length	2645
M-Sprocket axis to axis rotation	1030
S-height upto Engine Hood	1865
N-Cab width / P-Length / R- Height	940/1590/1615



बी ई एम एल लिमिटेड **BEML LIMITED**

Schedule 'A' Company under Ministry of Defence, Govt. of India

Business **Network**

Corporate Office

BEML Soudha, 23/1, 4th Main, S.R. Nagar, Bangalore – 560 027

T+918022963240,22963250

F+918022963278/516/280/164

E-mail: office.cpd@beml.co.in corpcomm@beml.co.in International Business Division

Flat No. E,F,G, H, 'Vandana' 11th Floor, 11, Tolstoy Marg, Connaught Place New Delhi - 110 001

T + 91 11 23316500 F + 91 11 23325085

E-mail: mx@beml.co.in

Marketing Division

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

T + 91 80 22963501/02/07/510/540

F + 91 80 22963541

E-mail: m@beml.co.in mmd@beml.co.in

PECIONAL OFFICES

Bangalore	T :04 07442 54500
4th Floor, Unity Building, J. C. Road, Bangalore - 560 002 Karnataka	T +91 97413 51588 E-mail: mg@beml.co.in
Bilaspur	
1-A, Industrial Area, Sector-C, Sirgitti, Bilaspur - 495 223. Chhattisgarh	T + 91 7752 252745, 252598 F + 91 7752 252065 E-mail: mv@beml.co.in
Nevveli	E-mail. mv@bemi.co.m
F-4, Dr. Rajendraprasad Road,	T/F + 91 4142 268517
Block-27, Neyveli,- 607 803 Tamil Nadu	T + 91 4142 265517 / 229392 E-mail: ma@beml.co.in
Dhanbad	
Mouza - Kangalo, Amaghata,	
Govindpur, KG Ashram Post, Dhanbad	T + 91 94711 92023
Jharkhand - 828 109	E-mail:mf@beml.co.in
Hyderabad	
3-6-114, Street No.18, Himayat Nagar,	T + 91 40 2322 7032 / 94907 93117
Hyderabad - 500 029	F + 91 40 23221794
Telangana	E-mail: rm.hyderabad@beml.co.in
Kolkata	my S
35/1A, Taratala Road,	T + 91 33 2401 5286 / 87 / 98 / 99
Kolkata - 700 088.	F + 91 33 2401 5288
West Bengal	E-mail: rm.kolkatta@beml.co.in
Mumbai	T . 04 00 00404075 (00405075
32A, Bazar Road,	T + 91 22 26431875 / 26435875
Near Jain Mandir, Bandra (West), Mumbai,	F + 91 22 26423928
Maharashtra - 400 050	E-mail: rm.mumbai@beml.co.in
Nagpur No 33, Cement Road,	T + 91 712 2248435 / 2248343
Shivaji Nagar,	F + 91 712 2249997
Nagpur - 440 010, Maharashtra.	E-mail: mn@beml.co.in
New Delhi	
Flat E,F,G,H, 'Vandana', 11th Floor,	T + 91 11 2344 3511 / 3528 / 2331 650
11, Tolstoy Marg, Connaught Place,	F + 91 11 2332 5085
New Delhi - 110 001	E-mail: ml@beml.co.in
Ranchi	
206/D-1, Bhagirathi, (Behind NCC Campus)	
Rameshwaram Colony, Bariatu Road,	T + 91 651 2540710 / 94311 08531
Ranchi, Jharkhand - 834 009	E-mail: mr@beml.co.in
Sambalpur	
BEML Complex, NH-6, Panchagachhia,	
Baraipalli Post, Sambalpur 768 006	T + 91 663 2521604 / 2521389
Odisha.	E-mail: mb@beml.co.in
Singrauli	T : 04 7005 070000 (070040
PB No. 5, Jhingurdha Colliery,	T + 91 7805 272668 / 272318
Singrauli - 486 889	F + 91 7805 272282
Madhya Pradesh.	E-mail: rm.singrauli@beml.co.in

ACTIVITY CENTRES

Bhopal Ground Floor, Hall No.1, Chittod Complex, Zone-1, Maharanapratap Nagar (MP Nagar), Bhopal - 462 011	T + 91 755 2550711 / 8989459753
Panjim BEML Limited, 5/4, Victor Building, Fontanhas, Mala, Panjim - 403 001, Goa	T +91 832 2225135 / 77986 87178
Itanagar C/o. Tobom Riba, H-Sector, Papum Itanagar – 791 113, Arunachal Pradesh	T + 91 94029 34205 / 88372 15852
Kochi No. 39/2122, Chittoor Road, Ernakulam South, Kochi – 682 016	T + 91 484 2375138 E-mail: rm.kochi@beml.co.in
Maihar Maihar, Madhya Pradesh	Mob: +91 79875 53768
Silapathar: Surya Vatika, Amritpur, Silapathar, Assam - 787 059	T +91 95311 29059

DISTRICT OFFICES

	Ahmedabad	
	99/100, BEML HOUSE, 2nd Street,	T + 91 79 26445523 / 94264 13620
	Azad Society, Ambawadi,	F + 91 79 26423950
	Ahmedabad - 380 015, Gujarat	E-mail: rm.ahmedabad@beml.co.in
	3, Burnpur Road,	T + 91 341 2252480
	Asansol - 713 304	F + 91 341 2250601
	West Bengal	E-mail: mca@beml.co.in
	Bacheli	L-mail. mca@bemi.co.iii
	Behind Central Stores of NMDC Ltd.,	T/F + 91 7857 230005
	Depot 5, Bacheli - 494 553.	E-mail: rm.bacheli@beml.co.in
	Chhattisgarh	
	Bhilai	T + 91 788 2223880
	Room no 22/C, BSP Expansion Building,	F + 91 788 2221652
	Near Ispat Bhavan, Bhilai 490 001, Chhattisgarh	E-mail: mnb@beml.co.in
	Bhubaneswar	
	252/A, Lewis Road	T + 91 674 2434427 / 99373 83950
	Bhubaneswar - 751 014	
	Odisha	E-mail: mbb@beml.co.in
	Chandrapur	T - 04 7470 007000
	Mamidwar, Tiles Factory Compound	T + 91 7172 287230
	Ghugus Road, Padoli	F + 91 7172 287560
	Chandrapur - 442 406 Maharashtra	E-mail: mnc@beml.co.in
	Chennai	T + 01 44 20220044
	Flat No. 10, Supriya Estates, No.3, Sterling Road, Nungambakkam,	T + 91 44 28220844 F + 91 44 28257319
	Chennai - 600 034, Tamil Nadu,	E-mail: rm.chennai@beml.co.in
	Guwahati	E-mail. m.criennai@bemi.co.in
	No.11, Ward 43, Hengrabari Road,	T + 91 361 2232966
	Ganesh Puri, Dispur,	F + 91 361 2232967
	Guwahati - 781 006 Assam	E-mail: rm.guwahati@beml.co.in
	Hospet	
	No.1431, Manjunatha Complex,	T/F + 91 8394 230172
	Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,	
	Dam Road, Hospet - 583 203, Karnataka	E-mail: rm.hospet@beml.co.in
	Jammu	
	62C, Block D/C, Gandhi Nagar,	T + 91 191 2459 437
	Jammu tawi - 180 004	F + 91 191 2430 447
	Jammu and Kashmir	E-mail: mlj@beml.co.in
	Kothagudem	T 04 0744 045570
	Old Project Planning Department,	T + 91 8744 245572
	Near SCCL Corporate Office,	F + 91 8744 245530
	Kothagudem - 507 101, Telangana Leh	E-mail: rm.kothagudem@beml.co.in
	174-B, (Near Royal Enfield Showroom),	T + 91 1982 258828 / 94198 71008
	Housing Colony, Leh, Ladakh -194 101	E-mail: mll@beml.co.in
	Ramagundam	L mail : milegoom.co.m
	Near SCCL TTC, Jawahar Nagar,	
	Behind CISF Camp, Godavarikhani - 505 209.	T + 91 8728 248299 / 94408 58441
	Peddapalli Dist., Telangana	E-mail: mhr@beml.co.in
	Udaipur	
	20-B,Uchhab Bhavan, Bedla Road,	
	Fatehpura, Udaipur - 313 001.	T + 91 294 2452054
	Rajasthan	E-mail: mwu@beml.co.in
	Visakhapatnam	T/F +91 891 2754608 / 83320 54590
- 1	No. 8-45-11, 4th Lane,	E-mail:rm.vizag@beml.co.in
	Vidyanagar Chinna Waltair Colony	30
	Visakhapatnam - 530 003, Andhra Pradesh	

www.bemlindia.in

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