

# HB640S

HYUNDAI BACKHOE LOADER



\* Photo may include optional equipment.



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HB640S  
Kirloskar



# PRIDE AT WORK

Hyundai strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences and proven quality.

**Take pride in your work with a Hyundai!**

# HB640S

## POWERFUL AND RELIABLE ENGINE

- KIRLOSKAR 4R 1040T with EU STAGE II regulation built for power, reliability and efficiency

## EXCELLENT VISIBILITY

- One piece rounded windshield for wide span of view
- Well designed loader frame offers excellent visibility

## SERVICEABILITY

- Tilt-up hood provides easy access to engine compartment
- All greasing and filter points accessible from ground level for safety and reduce maintenance time
- Single layer cooling compartment-Easy to clean

## ADVANCED PERFORMANCE SYSTEM

- Adjustable flow control system (AFCS) optimizes the travel power of the machine when traveling on the highway
- Smooth Ride Control (SRC) system reduced cycle times, higher productivity and better fuel efficiency
- 4-wheel steering system offers Maneuverability, Stability, Turning radius, Versatility and Efficiency

## COMFORTABLE OPERATION

- Up-level cabin with ROPS / FOPS certified design for safe operation
- Tilting, adjustable steering column
- Hinged-type windows for excellent ventilation
- Ergonomic design and location of gauges, switches and levers for quick and easy use
- Suspension seat with full adjustment for improved operator comfort



# ENHANCED HYDRAULIC MECHANISM

Innovative hydraulic technologies make the HB640 series fast, smooth and easy to control.

### Carlisle Brake U.S.A



### Hydro control / Walvoil (Italy) Valve



### World Famous Carraro (Italy) Axle



### World famous Casappa(Italy) Pump



### Single Layer Radiator Cooler (Germany) SBS - Side by Side



### World Famous Carraro(Italy) Transmission



**Feature**  
**71kW**  
96 HP Proven Kirloskar  
Engine 4R1040T, Euro II,



**Feature**  
Engine has wet liners in  
Cylinders.

**Advantage**  
Easy & cheaper to  
repair.

### Ergonomic design for operators

- Great vision with curved windshield.
- Plenty of legroom minimizes fatigue and allows the operator to work un-interrupted for long hours.
- A fully adjustable seat (Air-suspension) combined with ergonomically positioned controls.

### Excellent Visibility

One-piece rounded front glass and large windows around the cab provide the operator with a full 360 degree range of visibility. Wide upper front window good visibility to cutting edge of bucket for loader. Sloped and narrow bonnet is designed for easy and safe work with the front loader.



### Climate Control System Option

A full heating, defrosting system keeps the operator comfortable with 15 air vents placed throughout the cab. Air conditioning system as an option well placed air vents within front, back and sides of seat provides operator with optimum temperature.

### Power Shift Transmission

Standard power shift transmission provides fast, easy and efficient operation. A convenient gear/shift selector allows for gear selection and forward, neutral or reverse direction.



### Brakes

Oil immersed wet disc brakes are individually actuated by two separated brake pedals. Brakes are self adjusting for improved service life.



### Side Console with Full Instrumentation

In the HB640 series cab, all gauges switches and levers are conveniently located for easy access. Whether in the loader position or the backhoe position, the operator can easily reach all controls.



### Operator Comfort

HB640 series backhoe loaders are designed for the operator's comfort. The steering column and backhoe control tower can be tilted and adjusted for convenient operation. Deluxe, joystick levers, conveniently located switches and an AM/ FM radio with mp3 input provide the pleasant operation. Hinge-type side windows can be opened for improved ventilation. Additionally, front and rear windshield wipers are equipped for excellent visibility during bad weather conditions.



\*Photo may include optional equipment.

# COMFORTABLE OPERATION

Hyundai's deluxe design cabin maximizes operator comfort. World class cabin with great visibility, comfort, convenient and safety features.

# SERVICEABILITY

## Quick and Easy Maintenance

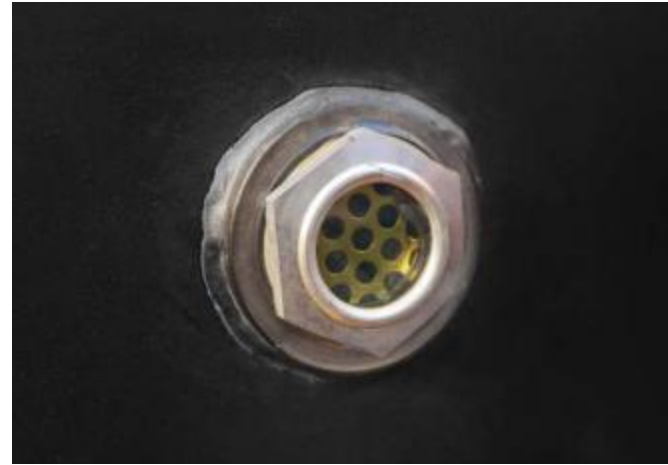
Tilt-up hood provides easy access to the engine compartment. The one-piece hood tilts away for easy ground access to all critical services and grease points for maintenance and operator safety.

## Integrated Safety Bar

An integrated safety bar and locking pin are an integral part of the bucket cylinder, and guarantee operator safety when servicing.

## Visible Hydraulic Oil Level Gauge

The hydraulic oil sight gauge is installed on the side of the hydraulic tank for the convenient inspection from on ground level.



# OUTSTANDING PERFORMANCE

## Four Wheel Drive

Four wheel drive system improves mobility and loader performance in ground conditions underfoot and can be activated on-the-go.

## Powerful and Reliable powertrain

KIRLOSKAR 4R 1040T with EU STAGE II regulation built for power, reliability and efficiency.

4x4 LED Working lamp as standard provides excellent view in any operating environment

## Bucket Capacity

1.m3 bucket for loader, 0.22m3 bucket



# SPECIFICATIONS

SPECIFICATIONS		UNIT	HB640S (TIER2)	
GENERAL	ENGINE HORSE POWER	HP	96	
	OPERATING WEIGHT(SS)	STANDARD	kgf	8,500
		MAXIMUM	kgf	9,240
	OPERATING WEIGHT(CP)	STANDARD	kgf	7,780
		MAXIMUM	kgf	8,520
	DIGGING DEPTH(SS)	mm	STD DIPPER = 4,770 TELESCOPIC DIPPER = 5,830	
DIGGING DEPTH(CP)	mm	STD DIPPER = 4,820 TELESCOPIC DIPPER = 5,930		
ENGINE	MAKE	-	KIRLOSKAR	
	MODEL	-	4R1040T	
	POWER	GROSS	HP/RPM	96/2,200
		NET	HP/RPM	86/2,200
	TORQUE	GROSS	Nm/RPM	375/1,400
	NO.OF CYLINDERS	EA	4	
	DISPLACEMENT	liter	4.16	
	ASPIRATION	-	Turbocharged	
ELECTRICAL	ALTERNATOR	AMP	90	
	BATTERY	V-CCA	12V X 1050CCA	
DRIVE LINE	4WD	-	STD	
TM	GEAR SHIFT TYPE	-	Manual synchro shift option	
	TRAVEL SPEEDS	km/h	Forward Max:40 Reverse Max:20.3 (3rd Gear recommended)	
AXLE	STEER TYPE	-	Two wheel power steering	
	DIFFERENTIAL LOCK	FRONT(4WD)	-	Normal
		FRONT OSCILLATION ANGLE	Deg	±7
TIRE	FRONT	4WD	-	12.5/80x18-12PR Optional:400x70_20-16PR
	REAR		-	16.9x28-12PR Optional:19.5LX24-12PR
BRAKE	SERVICE	-	Wet discs	
	PARKING	-	Wet discs-Hand operated	
TURNING DIAMETER	TYRES COMBINATION	-	12.5/80x18-12PR, 16.9x28-12PR	
	UNBRAKED (OUTSIDE OF TIRE)	mm	9,150	
HYD.SYSTEM	LOADER CLEARNCE	mm	11,800	
	SYSTEM TYPE	-	Open Center	
	MAIN PUMP TYPE	-	Gear pump	
	PUMP CAPACITY	LPM	145 @2,200 rpm	
	MAIN RELEIF PRESSURE	kg cm <sup>2</sup> (bar)	234.5(230)	
SERVICE REFILL CAPA.	FUEL TANK	liter	145	
	COOLING SYSTEM	liter	15	
	ENGINE OIL WITH FILTER	liter	12	
	4WD FRONT AXLE	4WD TOTAL SYSTEM DIFFERENTIAL	liter	12 TO 13(manual synchro shift option)
		HUB REDUCERS	liter	6.5
	REAR AXLE	DIFFERENTIAL	liter	1.25 each side
		HUB REDUCERS	liter	14
	HYD.SYSTEM TOTAL	liter	120	
	HYD.TANK WITH FILTER	liter	100(Refill capacity)	

# EXCAVATOR & LOADER PERFORMANCE

	BACKHOE LOADER SIDE SHIFT	
	HB640S	
	Retraction STD	Telescopic Dipper (option)
	Meters	Meters
STANDARD GP BUCKET CAPACITY	0.22 m <sup>3</sup>	
MAXIMUM DIG DEPTH	4.77 m	5.83 m
REACH GROUND LEVEL TO REAR WHEEL CENTRE	6.77 m	7.8 m
REACH GROUND LEVEL TO SLEW CENTRE	5.47 m	6.5 m
REACH AT FULL HEIGHT TO SLEW CENTRE	2.82 m	3.61 m
STABILIZER SPREED		
MAXIMUM WORKING HEIGHT	5.98 m	6.89 m
MAXIMUM LOAD OVER HEIGHT	4.19 m	5.19 m
REACH OVER THE SIDE FROM STABILIZER		
GROUND CLEARANCE		
BUCKET ROTATION- POWER	201° SQUARE CUT BUCKET	
BUCKET TEAR OUT FORCE	6,320 Kgf	
DIPPER TEAR OUT FORCE	3,580 Kgf	
LIFT CAPACITY TO BUCKET PIVOT AT FULL REACH (WITHOUT BUCKET FITTED)	1,642 Kgs	

	STANDARD BUCKET WITHOUT LINK BRACKET	
	Metres	
BUCKET CAPACITY	1.00 m <sup>3</sup>	
DUMP HEIGHT	2.96 m	
LOAD OVER HEIGHT	3.39 m	
PIN HEIGHT	3.61 m	
PIN FORWARD REACH	0.42 m	
REACH AT GROUND	1.47 m	
MAX.REACH AT FULL HEIGHT	1.28 m	
REACH AT FULL HEIGHT BKT DUMPED	0.89 m	
BELOW GROUND LEVEL DIG DEPTH	0.1m	
ROLL BACK AT GROUND	50°	
DUMP ANGLE	45°	
WIDTH OVER BUCKET	2.35 m	
SHOVEL BREAK OUT FORCE	8,793 kgf	
LOADER ARM BREAK-OUT FORCE	5,642 kgf	
PAY LOAD	2,000 kgf	
LIFTING CAPACITY AT LOADER ARM HOOK PIN (Additional Information-If required we can provide)	3,600 kgf	

## DIMENSIONS



	HB640S
	Meters
OVERALL LENGTH	6.04 m
WHEELBASE	2.22 m
KING POST TRAVEL	1.18 m
MINIMUM GROUND CLEARANCE	0.48 m
SLEW GROUND CLEARANCE	0.65 m
HEIGHT TO TOP OF BONNET	1.99 m
HEIGHT TO TOP OF CABIN	2.94 m
OVERALL HEIGHT	3.71 m
TRACK WIDTH - REAR	1.69 m
TRACK WIDTH - FRONT	1.93 m
WIDTH OVER BUCKET	2.43 m
SIDE REACH TO CENTRE LINE OF MACHINE	6.04 m
TYRE OUTER TO OUTER	2.24 m

## CAPACITIES

HB640S	
Oil flow, l/min(gpm)	60-90 (15.85-23.80)
Impact rate, bpm	530-1,000
Operating pressure, bar(psi)	120-150 (1,450-2,175)
Back pressure acceptance, bar(psi)	30 (435)
Maximum hydraulic input power, kw	23
Piston accumulator gas pressure(min, at operating temperature 60-70°C and maximum hydraulic input power), bar(psi)	12 (174)
Piston accumulator gas pressure(max(optimum), at operating temperature 60-70°C), bar(psi)	16.5 (239)
Pressure relief valve on carrier, bar(psi)	180 (2,610)

## OPTIONS LIST

OPTION		
AIR SUSPENSION SEAT	With adjustable headrest and armrest , short back rest with electrical air suspension	
3 SIDE OPEN CABIN	Canopy and front windshield with wiper. 4 Front+4 Rear working lamps 3 side open ROPS / FOPS cabin. ROPS / FOPS meets ISO 3,471 and ISO 3,449	
SMOOTH RIDE CONTROL SYSTEM (SRS)	Operating range from 350–450 mm to 1,550–1,650 mm	
COLD START KIT (ONLY FOR PERKINS ENGINE)	WITHOUT GLOW PLUGS-(-10°C WITH 15W40 OIL VISCOSITY) WITH GLOW PLUGS-(-20°C WITH 10W OIL VISCOSITY)	
CLOSED ENGINE BONNET	Without insulation	
CLOSED ENGINE BONNET WITH INSULATION	With polyethylene foam insulation. For very cold countries (some CIS countries) where ambient temperature remains less than - 5 for good period of year.	
DIFFERENTIAL LOCK PROVISION IN AXLE	Hydraulically actuated controlled by foot operated switch	
PILOT OPERATED BACKHOE JOYSTICKS		
MECHANICAL OPERATED BACKHOE JOYSTICKS		
BACKHOE OPERATION MECHANISM ISO +	One can choose either of the 3 options for backhoe operation. Available in pilot joystick as well as mechanical joystick.	
BACKHOE OPERATION MECHANISM SAE +		
BACKHOE OPERATION MECHANISM SAE CROSS		
FRONT WHEEL FENDERS (FRONT MUDGUARD)		
PRE CLEANER-Ejective	Protection from extreme dusty environment, used in middle east where machines operate in extreme dusty climate	
Front Tyre-400x70_20 (Suitable axle)	Ply rating 16 PR	
Rear tyre- 16.9x28-12PR	Ply rating 12 PR	
OIL SUITABLE FOR SUB ZERO TEMPERATURES	HVLP 32 GRADE (-40°C TO 60°C)	
BEACON LIGHT		
BACKHOE BUCKET	758 MM BACKHOE BUCKET WITH 5 NUMBERS OF TEETH-0.26 m <sup>3</sup>	WIDTH-758 mm VOLUME-0.26 m <sup>3</sup> NO OF TEETH-5
	390 MM BACKHOE TRENCH BUCKET WITH 3 NUMBERS OF TEETH-0.1 m <sup>3</sup>	WIDTH-390 mm VOLUME-0.1m <sup>3</sup> NO OF TEETH-3
	EXTENDED TELESCOPIC DIPPER	Telescopic cylinder with an extended length of 1.1 meters
	ROCK BREAKER ATTACHMENT PROVISION - BREAKER LINE (RBA)	
	BULL ROCK BREAKER (BL85) EPIROC MAKE	Equivalent to Epiroc model EC 81 / LB 400. Impact rate=530-1,000 bpm Oil flow=60-90 lpm
	MECHANICAL QUICK HITCH ATTACHMENT (FOR BACKHOE)	Mechanically operated
LOADER BUCKET	6 IN 1 LOADER BUCKET	WIDTH-2,430 mm VOLUME-11m <sup>3</sup> NO OF TEETH-8
	FORKLIFT	Lift capacity:1,200 Kg
	ROLL OVER FORKS ON GENERAL PURPOSE BUCKET	Lift capacity: 1,800 kg at a lifting height of 1.5 meters
	6 IN 1 LOADER BUCKET WITH ROLL OVER FORKS	WIDTH-2,430 mm VOLUME-11m <sup>3</sup> NO OF TEETH-8 With roll over fork
	GRABBING FORK BUCKET	WIDTH-2,350 mm VOLUME-13 m <sup>3</sup> NO OF TEETH-8
	LOG FORK BUCKET	Fork max opening-1,120 mm
	SUGAR CANE GRABBER	Grabber max opening-1,400 mm
	HDHV (HIGH DUMP HIGH VOLUME BKT)	WIDTH-2,350 mm VOLUME-21m <sup>3</sup> NO OF TEETH-8
	QUICK HITCH ATTACHMENT (BQRSL)	Mechanically operated
	CONCRETE MIXER ATTACHMENT	Bucket capacity-600 litres

\*Disclaimer: Certain functions may not be available depending on regional regulations and machine specifications. For more information, please contact your authorized Hyundai dealer.