



## ALPHA

### ENGINE

Make	: PERKINS
Type	: 1104D-44TA Diesel Engine
Number of Cylinders	: 4 in line
Bore & Stroke	: ø 105 x 127 mm
Displacement	: 4400 cc
Maximum Power	: 100 HP (74,5 kW) @2200 rpm
Maximum Torque	: 410 Nm @1400 rpm
High power and torque output, water cooled turbocharged diesel engine.	
Compatible with USA EPA Tier 3 and European EC Stage III-A exhaust gas emission regulations	

### TRANSMISSION

- Autoshift transmission for heavy duty service
- Torque converter with 2,38:1 stall ratio
- Electrically controlled 2 Wheel drive or 4 Wheel Drive selection
- 6 forward, 3 reverse gears (Lock-Up option available)
- Transmission oil cooler
- A neutral circuit allows starting only when the control lever is in neutral position for safety.

### AXLES

- Heavy duty service type ZF axles
- Planetary outboard type reduction gears
- Total 16 degrees oscillation on the front axle
- Equipped with LSD (Limited Slip Differential) optional diffrentail lock for rear axle

### TIRES

Front	: 16/70 - 20 12 Ply Rating
Rear	: 16,9 - 28 14 Ply Rating (Optional : 18,4 - 26 12 Ply Rating)

### CAB & HOOD

- Widened visual angle
- Ergonomic & Aesthetic Interior Design
- 3" LCD displays on both front and side panels
- High capacity A/C system
- Improved ventilating with 15 air nozzles
- ROPS and FOPS certificated cab
- Multi-functional seat
- TIPSHIFT front loader joystick
- Pool type floor mats
- Removable lids
- Cooling-box
- Storage boxes for operator
- Foldable side steps

### HYDRAULIC SYSTEM

Simple, reliable and high-efficient tandem gear pump	
Main Pump Flow	: 90 L/min @2200 rpm
Pressure	: 227 bar
Auxiliary Pump Flow	: 57 L/min @2200 rpm
Pressure	: 170 bar

### DRIVING SPEED

@ 2200 rpm engine speed	
1 <sup>st</sup> gear	: 5,6 km/h
2 <sup>nd</sup> gear	: 8,9 km/h
3 <sup>rd</sup> gear	: 11,4 km/h
4 <sup>th</sup> gear	: 18,1 km/h
5 <sup>th</sup> gear	: 23 km/h
6 <sup>th</sup> gear	: 40 km/h



### FILLING CAPACITIES

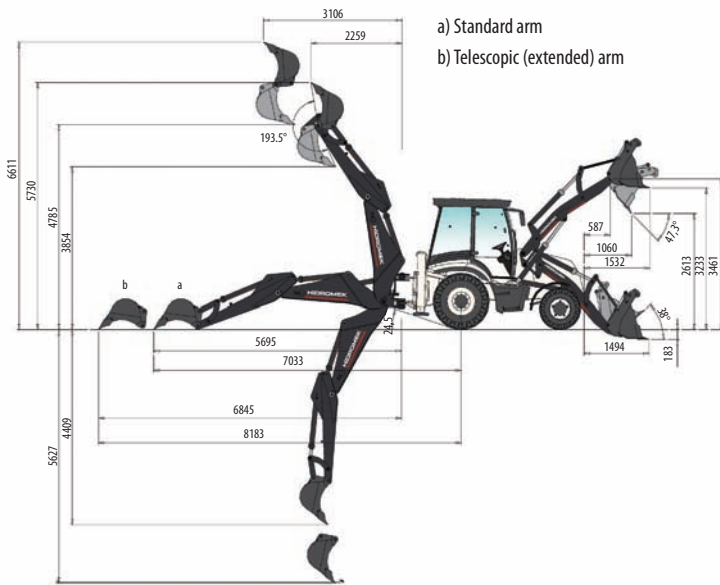
Engine Oil Pump	: 8 L
Engine Cooling System	: 18,5 L
Fuel Tank	: 140 L
Hydraulic Oil Tank	: 70 L
Transmission Oil	: 16 L
Front Axle Differential	: 9 L
Front Axle Hub Reducers	: 0,85 x 2 L
Rear Axle Differential	: 18 L

### OPERATING WEIGHT

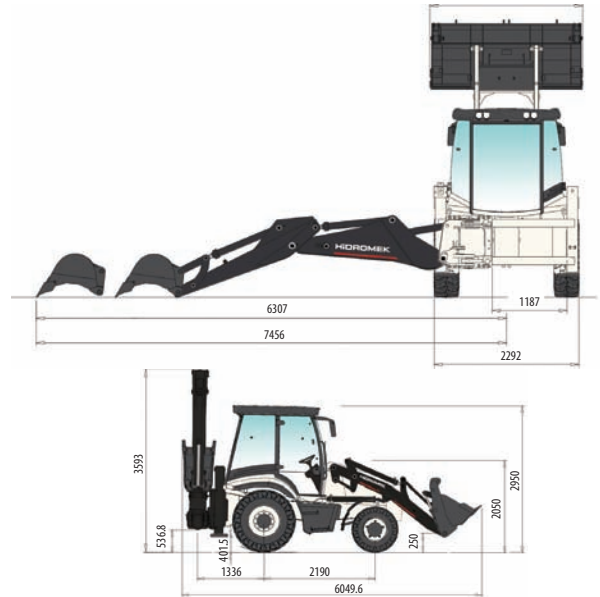
Operating weight (with standard equipment) : 9.100 kg

Operational weight, complying with the ISO 6016 standards, includes full fuel tank, hydraulic system and other liquids, 75 kg operator weight and standard equipped machine weight. Optional equipments are not included.

# HMK102B ALPHA



a) Standard arm  
b) Telescopic (extended) arm



## LOADER PERFORMANCE

6 in 1 bucket capacity	1,1 m <sup>3</sup>
Max. bucket breakout force	7209 kgf
Max. loading arm breakout force	6515 kgf
Lifting capacity to maximum height	3170 kg

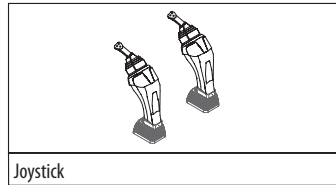
## BACKHOE PERFORMANCE

	Standard Arm	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity	0,17 m <sup>3</sup>	0,17 m <sup>3</sup>	0,17 m <sup>3</sup>
Max. bucket breakout force	6209 kgf	6364 kgf	6364 kgf
Max. dipper breakout force	2983 kgf	2026 kgf	2867 kgf

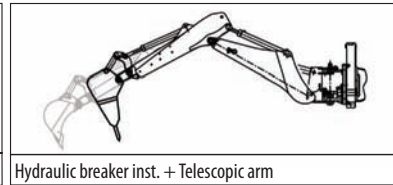
## Standart Accessories



MSS (Motion Stabilizer System)

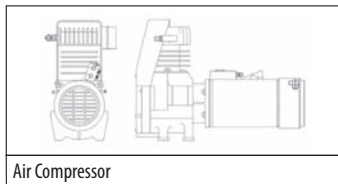


Joystick

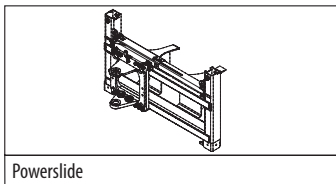


Hydraulic breaker inst. + Telescopic arm

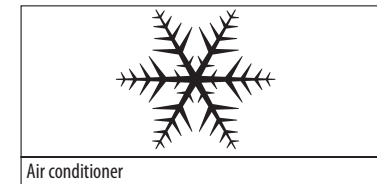
## Optional Accessories



Air Compressor

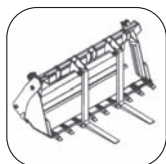


Powerslide

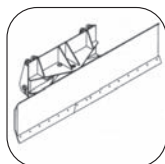


Air conditioner

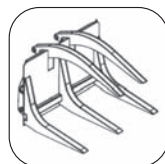
## Optional Attachments



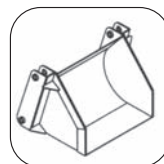
6-in-1 Bucket with forks



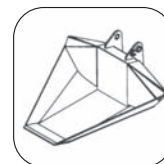
Grading blade



Timber grab



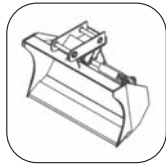
Special buckets



Trapezoidal ditch bucket



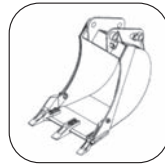
Ripper



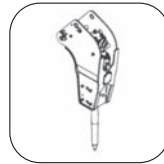
Offset bucket



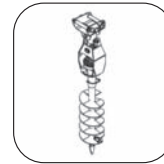
Clamshell grab



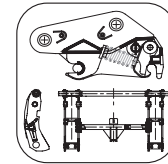
Backhoe bucket of different sizes



Hydraulic breaker



Auger



Quick coupler

## HIDROMEK®

FACTORY - HEAD OFFICE  
Ahi Evran OSB Mahallesi Osmanlı Caddesi No:1 06935 Sincan / ANKARA / TURKEY  
Tel: (+90) 312 267 12 60 Fax: (+90) 312 267 12 39  
www.hidromek.com

Notice:  
Hidromek has the right to modify the specifications and design of the model indicated on this brochure without prior notice.