



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 axles
- Planetary outboard type reduction gears
- Total 16 degrees oscillation on the front axle
- Torque proportional type front axle differential
- LSD (Limited Slip Differential) type rear axle differential
- Locking type rear axle differential (optional)

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	: 91,5 L/min @2200 rpm
Pressure	: 227 bar
Auxiliary Pump Flow	: 58,7 L/min @2200 rpm
Pressure	: 170 bar

DRIVING SPEED

@ 2200 rpm engine speed	
1 st gear	: 6 km/h
2 nd gear	: 9 km/h
3 rd gear	: 12 km/h
4 th gear	: 20 km/h
5 th gear	: 28 km/h
6 th gear	: 40 km/h



FILLING CAPACITIES

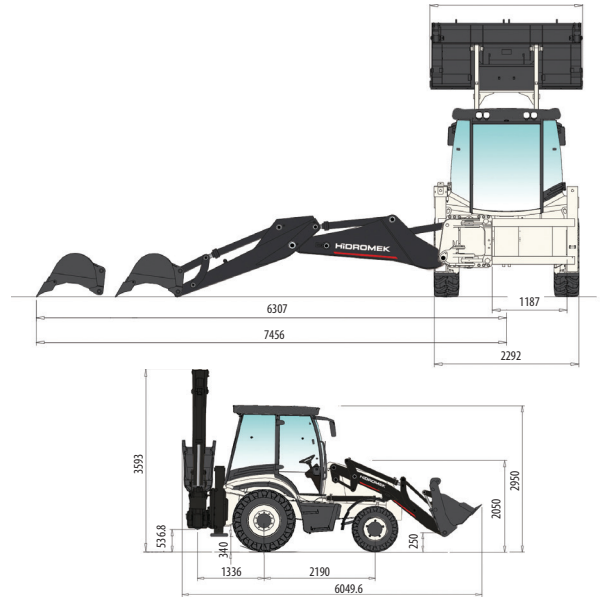
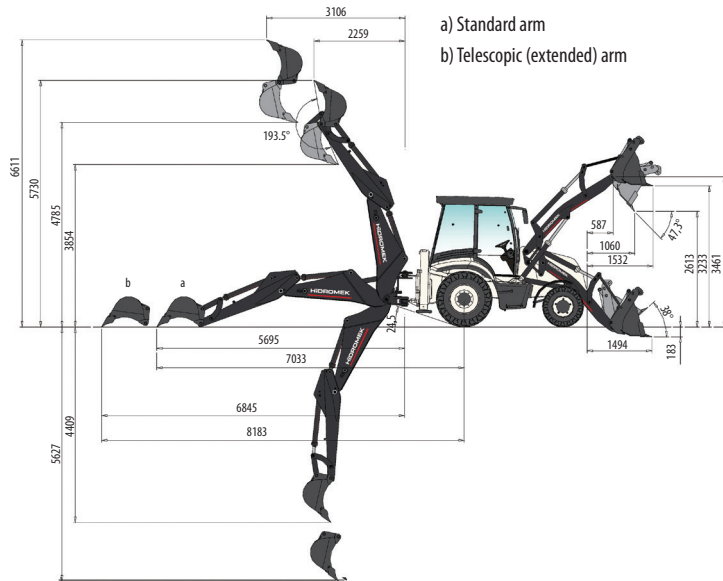
Fuel Tank	: 140 L
Hydraulic Oil Tank	: 70 L

OPERATING WEIGHT

Operating weight (with standard equipment)	: 9.110 kg
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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





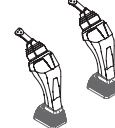
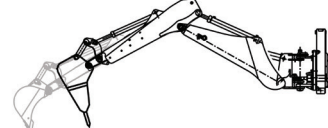
LOADER PERFORMANCE

6 in 1 bucket capacity	1,1 m ³
Max. bucket breakout force	7209 kgf
Max. loading arm breakout force	6516 kgf
Lifting capacity to maximum height	3170 kg

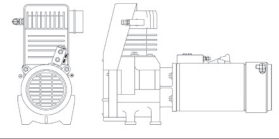
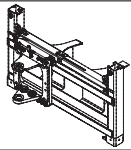
BACKHOE PERFORMANCE

	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity	0,17 m ³	0,17 m ³
Max. bucket breakout force	6365 kgf	6365 kgf
Max. dipper breakout force	2868 kgf	2026 kgf

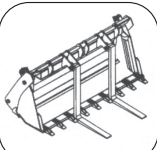
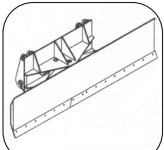

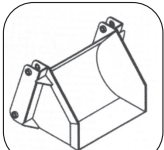
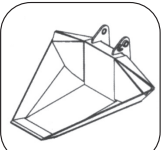



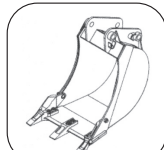

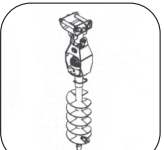
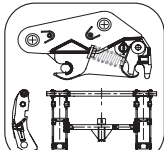
Standart Accessories

 Air conditioner	 MSS (Motion Stabilizer System)	 Joystick	 Hydraulic breaker inst. + Telescopic arm
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Optional Accessories

 Air Compressor	 Powerslide
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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®

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Notice:
Specifications shown are for machines equipped with Alpha A5 model. Hidromek has the right to modify the specifications and design of the model indicated on this brochure without prior notice.