



**ALPHA**

## ENGINE

Make	: PERKINS
Type	: 1204F-E44TAN Diesel Engine
Number of Cylinders	: 4 in line
Bore & Stroke	: ø 105 x 127 mm
Displacement	: 4400 cc
Maximum Power	: 100 HP (74,4 kW) @2200 rpm
Maximum Torque	: 450 Nm @1400 rpm
High power and torque output, water cooled turbocharged diesel engine.	
Compatible with U.S EPA Tier 4 Final and EU Stage IV 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 side panels
- High capacity A/C system (optional)
- Improved ventilating with 15 air nozzles
- ROPS and FOPS certificated cab
- Multi-functional seat
- TIPSHIFT front loader joystick
- Pool type floor mats
- Removable lids
- Cool-box (optional)
- Storage boxes for operator
- Foldable side steps
- Backhoe joysticks (optional)
- SmartLink (Optional)

## 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
*Closed type hydraulic system with variable displacement piston type pump, renewable flowsharing and valves with regeneration (Optional)	

## DRIVING SPEED

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



## FILLING CAPACITIES

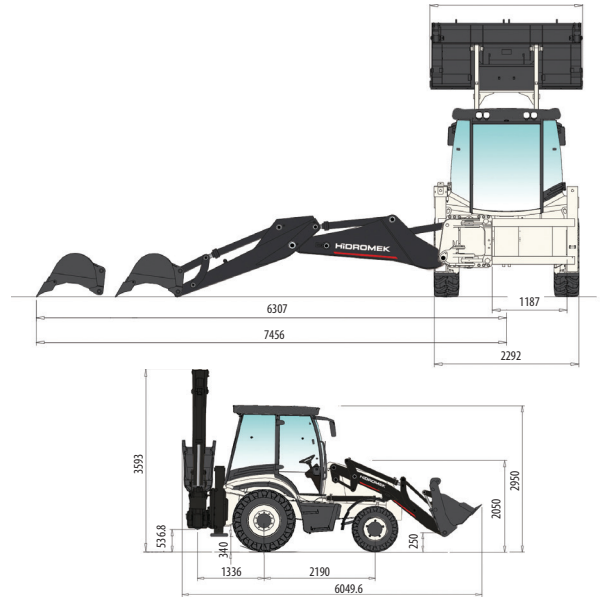
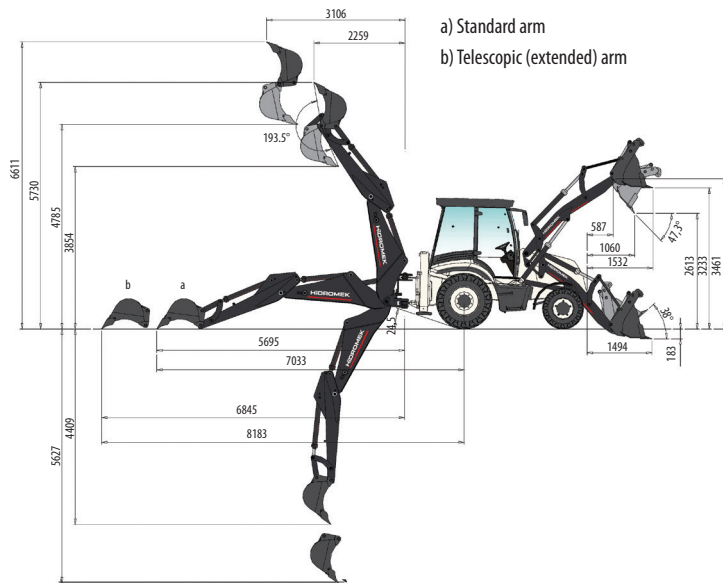
Engine Oil Pump	: 8,8	L
Engine Cooling System	: 22	L
Fuel Tank	: 150	L
Hydraulic Oil Tank	: 70	L
Transmission Oil	: 16	L
Ad Blue	: 18	L

## OPERATING WEIGHT

Operating weight (with standard equipment)	: 9.385 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.


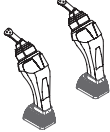
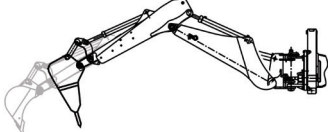
# HMK102B ALPHA



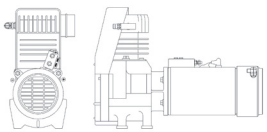
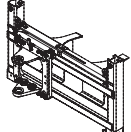

LOADER PERFORMANCE	
6 in 1 bucket capacity	1,1 m <sup>3</sup>
Max. bucket breakout force	8273 kgf
Max. loading arm breakout force	7430 kgf
Lifting capacity to maximum height	3687 kg

BACKHOE PERFORMANCE		
	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity	0,17 m <sup>3</sup>	0,17 m <sup>3</sup>
Max. bucket breakout force	7765 kgf	7765 kgf
Max. dipper breakout force	3435 kgf	3435 kgf

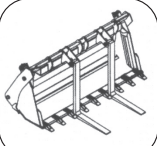
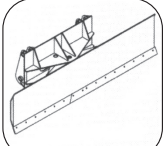
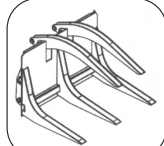
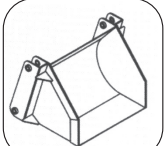
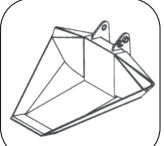

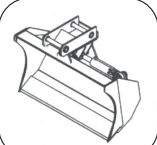



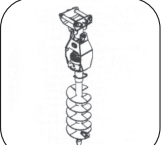
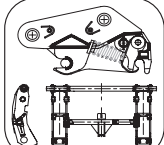
## Standart Accessories

		
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

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