



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	: 99,8 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.
- Lock-Up option available

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 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 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

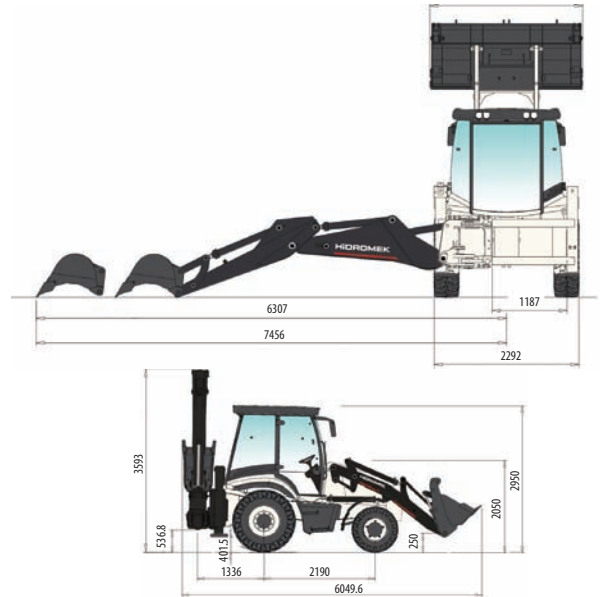
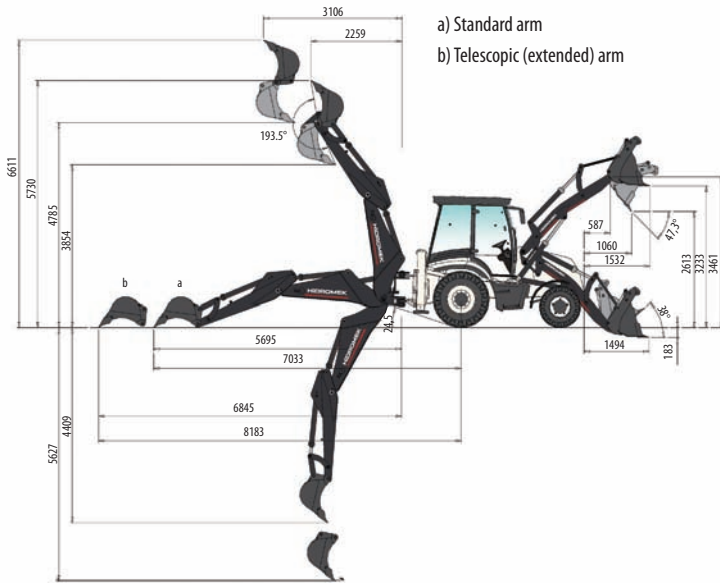
Engine Oil Pump	: 8,8	L
Engine Cooling System	: 22	L
Fuel Tank	: 150	L
Hydraulic Oil Tank	: 70	L
Transmission Oil	: 16	L
Front Axle Differential	: 9	L
Front Axle Hub Reducers	: 0,85 x 2	L
Rear Axle Differential	: 18	L
Ad Blue	: 18	L

OPERATING WEIGHT

Operating weight (with standard equipment) : 9.375 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




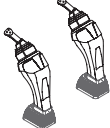

LOADER PERFORMANCE

6 in 1 bucket capacity	1,1 m ³
Max. bucket breakout force	7930 kgf
Max. loading arm breakout force	7166 kgf
Lifting capacity to maximum height	3561 kg

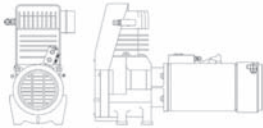
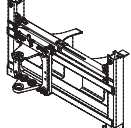

BACKHOE PERFORMANCE

	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity	0,17 m ³	0,17 m ³
Max. bucket breakout force	7240 kgf	7240 kgf
Max. dipper breakout force	2536 kgf	3300 kgf


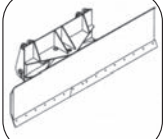









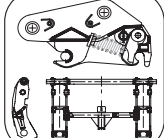
Standart Accessories

		
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

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Notice:
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