



**ALPHA**

**ENGINE**

Make	: PERKINS
Type	: 904J-E36TA Diesel Engine
Number of Cylinders	: 4 in line
Bore & Stroke	: ø 98 x 120 mm
Displacement	: 3621 cc
Maximum Power	: 100 HP (74,4 kW) @2200 rpm
Maximum Torque	: 430 Nm @1500 rpm
Emission Class	: Stage V (Tier 4 Final)

High power and torque output, water cooled turbocharged diesel engine.

**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	: 255 bar
Auxiliary Pump Flow	: 59 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	: 5 km/h
2 <sup>nd</sup> gear	: 9 km/h
3 <sup>rd</sup> gear	: 11 km/h
4 <sup>th</sup> gear	: 18 km/h
5 <sup>th</sup> gear	: 23 km/h
6 <sup>th</sup> gear	: 40 km/h



**FILLING CAPACITIES**

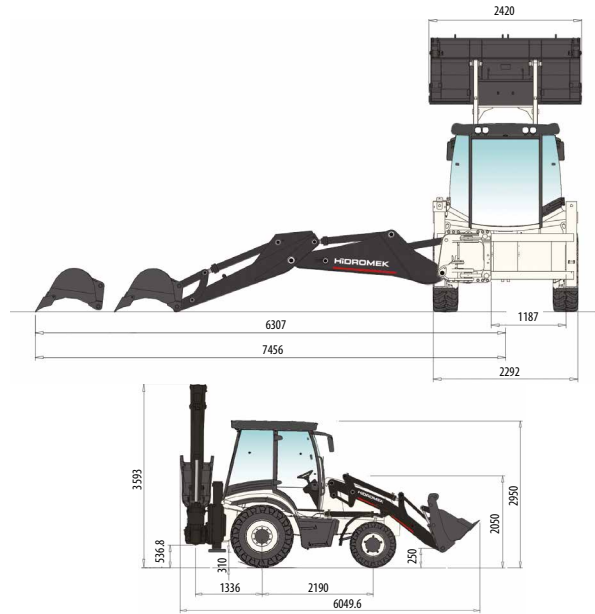
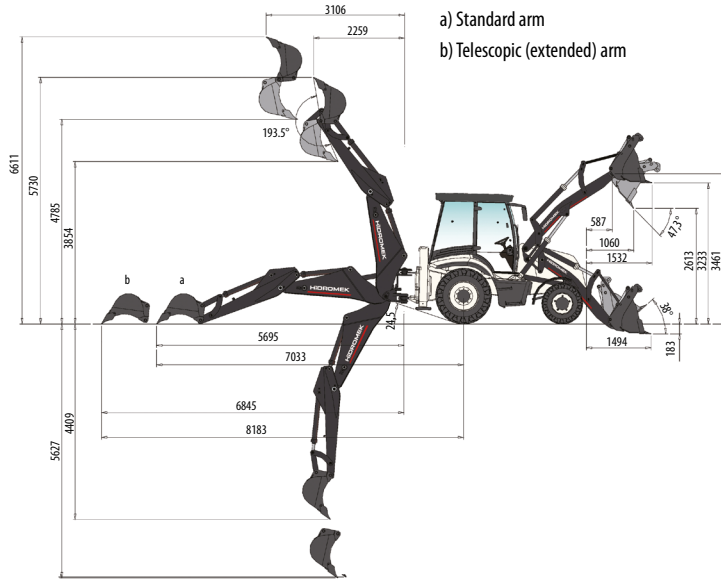
Engine Oil Pump	: 10	L
Engine Cooling System	: 16	L
Fuel Tank	: 140	L
Hydraulic Oil Tank	: 70	L
Transmission Oil	: 16	L
Ad Blue	: 18	L

**OPERATING WEIGHT**

Operating weight (with standard equipment) : 9.240 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.

# HMK 102B ALPHA




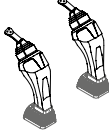
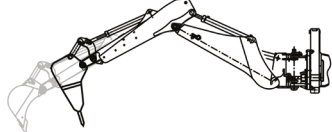
## LOADER PERFORMANCE

6 in 1 bucket capacity	1,1 m <sup>3</sup>
Max. bucket breakout force	8270 kgf
Max. loading arm breakout force	7427 kgf
Lifting capacity to maximum height	3687 kg

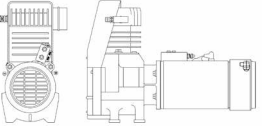
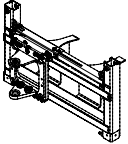

## BACKHOE PERFORMANCE

	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity	0,17 m <sup>3</sup>	0,17 m <sup>3</sup>
Max. bucket breakout force	7021 kgf	7021 kgf
Max. arm breakout force	2231 kgf	3161 kgf

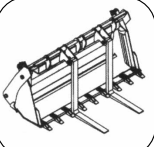
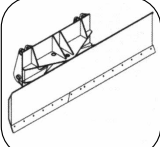

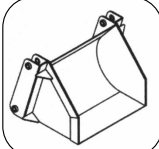
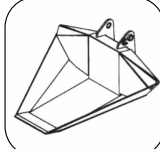

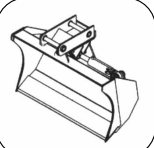

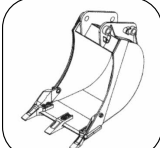

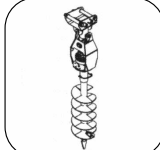
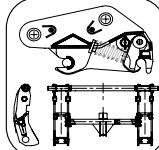
## Standart Accessories

		
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

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