

HIDROMEK®

PRODUCT LINE



FACTS AND FIGURES

1978

ESTABLISHED IN ANKARA BY
HASAN BASRI BOZKURT



1.4
MILLION M²

TOTAL AREA



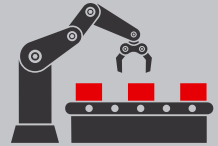
~2000

THE NUMBER OF EMPLOYEES



10000+

ANNUAL PRODUCTION CAPACITY



100+

COUNTRIES HIDROMEK
MACHINES RUNNING



45000+

NUMBER OF HIDROMEK MACHINES
RUNNING IN THE WORLD.



187.

TURKEY'S TOP 500 INDUSTRIAL
ENTERPRISES
(ISTANBUL CHAMBER OF INDUSTRY)



50.

CONSTRUCTION EQUIPMENT
MANUFACTURER TOP 50 IN THE WORLD



80+

COUNTRIES WITH
AUTHORIZED DEALERS



20

INTERNATIONAL DESIGN AWARDS



PRODUCTION FACILITIES



**ANKARA
EXCAVATOR MANUFACTURING FACTORY**
Product: Excavator



**ANKARA CUTTING, BENDING AND WELDING,
MACHINING FACTORY**
Product: Excavator, Backhoe Loader and Mini Backhoe Loader



**IZMIR - AEGEAN FREE ZONE
BACKHOE LOADER ASSEMBLY PLANT**
Product: Backhoe Loader and Mini Backhoe Loader



**ANKARA
EXCAVATOR ASSEMBLY FACTORY**
Product: Excavator



**ANKARA
COMPONENT FACTORY**
Product: Gearboxes, Axles, Reduction Gears



**HIDROMEK CONSTRUCTION EQUIPMENT THAILAND LTD. MOTOR
GRADER MANUFACTURING AND ASSEMBLY FACTORY**
Product: Motor Grader





























PRODUCTION CENTERS, SALES AND SERVICE POINTS



- HIDROMEK Production Facilities
- HIDROMEK Overseas Dealers
- ▼ HIDROMEK Overseas Sales and Aftersales Services Points
- Countries HIDROMEK Machines Running



PRODUCT LINE

BACKHOE LOADERS	HMK 62SS Mini Backhoe Loader 	HMK 102B ALPHA GREENTEC Backhoe Loader 	HMK 102B ALPHA Backhoe Loader 	HMK 102S ALPHA Backhoe Loader 	HMK 102B SUPRA Backhoe Loader 	HMK 102S SUPRA Backhoe Loader 
WHEELED EXCAVATORS	HMK 140 W H4 Wheeled Excavator 	HMK 210 W H4 Wheeled Excavator 				
CRAWLER EXCAVATORS	HMK 140 LC H4 Crawler Excavator 	HMK 145 SR H4 Crawler Excavator 	HMK 230 LC H4 Crawler Excavator 	HMK 310 LC H4 Crawler Excavator 	HMK 390 H6 H4 Crawler Excavator 	
	HMK 410 H6 H4 Crawler Excavator 	HMK 500 H6 H4 Crawler Excavator 				
SPECIAL PURPOSE EXCAVATORS	HMK 210 WMH H4 Material Handling Excavator 	HMK 230 LCTX H4 Tunnel Excavator 	HMK 230 LCLR H4 Long-Reach Excavator 	HMK 310 LCLR H4 Long-Reach Excavator 	HMK 390 LCLR H4 Long-Reach Excavator 	
	HMK 390 LCD H4 Demolition Excavator 	HMK 500 R H4 Heavy Duty Rock Ripper Excavator 				
MOTOR GRADERS	HMK 230 MG Motor Grader 	HMK 600 MG Motor Grader 				
WHEELED LOADERS	HMK 635 WL Wheeled Loader 	HMK 640 WL Wheeled Loader 				
COMPACTORS	HMK 110 CS Compactor 	HMK 130 CS Compactor 				



BACKHOE LOADERS



HMK 62_{SS}



Engine Features

Brand, Model:

KUBOTA V2403-M-TEU4 D

Type:

Water-cooled, 4-stroke turbocharged diesel engine

Number of Cylinders:

4 in line

Bore & Stroke:

87 x 102,4 mm

Displacement:

2434 cc

Maximum Power:

59 HP (44 kW) @2700 rpm

Maximum Torque:

160 Nm @1600 rpm



Hydraulic System

Main Pump Flow:

61 L/min @2700 rpm

Pressure:

220 bar



Weight

Operating weight:

3800 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.

High power and torque output, water cooled turbocharged diesel engine.
Compatible with USA EPA Tier 4 Interim European EU Stage III-A exhaust gas emission regulations

HIDROMEK®

HMK 62ss



Filling Capacities

Cooling system:

11,5 L

Fuel Tank Filling Capacity:

50 L

Total Engine Oil Capacity:

9,5 L

Hydraulic Oil Tank Filling Capacity:

45 L



Tires

Front:

10 x 16,5 (10 Pr Skz)

Rear:

10 x 16,5 (10 Pr Skz)



Drive System

Servo controlled Axial Piston Variable Displacement Double Pumps driving Radial Piston, Multi-stroke hydraulic motors enabling forward and reverse motion.

Service Brake is provided by Hydraulic Driving System

Spring on, hydraulic pressure off park brake system

Travel speeds 0-12 km/h forward and reverse.



Loader Performance

4 in 1 bucket capacity (m³):

0,35

Max. bucket breakout force (kgf):

2883

Max. loading arm breakout force (kgf):

2600

Lifting capacity to maximum height (kg):

1370



Backhoe Performance

Bucket capacity (m³):

0,06

Max. bucket breakout force (kgf):

1985

Max. dipper breakout force (kgf):

1500

Lifting capacity to maximum height (rear)(kg):

332



62 SS

102 B ALPHA

102 B ALPHA GREENTEC

102 S ALPHA

102 B SUPRA

102 S SUPRA

ALPHA

SERIES

HMK 102 B



Engine Features

Brand, Model:
PERKINS 1104D-44TA

Type:
Water cooled turbocharged diesel engine.

Number of Cylinders:
4 in line

Bore & Stroke:
105 x 127 mm

Displacement:
4400 cc

Maximum Power:
100 HP (74,4 kW) @2200 rpm

Maximum Torque:
410 Nm @1400 rpm



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



Weight

Standard Machine Operating Weight:
9110 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.

*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*

HIDROMEK®

HMK 102 B



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



Tires

Front:
16/70 - 20 (12 Ply)

Rear:
16,9 / 28 (14 Ply)



Driving Speeds

@ 2200 rpm engine speed

1st gear: 6 km/h

2nd gear: 9 km/h

3rd gear: 12 km/h

4th gear: 20 km/h

5th gear: 28 km/h

6th gear: 40 km/h



Loader Performance

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



Backhoe Performance

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

62 SS

102 B ALPHA

102 B ALPHA GREENTEC

102 S ALPHA

102 B SUPRA

102 S SUPRA

ALPHA

SERIES

GREENTEC 

HMK 102 B



Engine Features

Brand, Model:
PERKINS 854F-E34TA

Type:
Water cooled turbocharged diesel engine.

Number of Cylinders:
4 in line

Bore & Stroke:
90 x 110 mm

Displacement:
3400 cc

Maximum Power:
55 kW @2200 rpm

Maximum Torque:
424 Nm @1200 rpm



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



Weight

Standard Machine Operating Weight:
8975 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.

*High power and torque output, water cooled turbocharged diesel engine.
Compatible with U.S EPA Tier 4 Final and EU Stage 3B exhaust gas emission regulations*

HIDROMEK®

HMK 102 B

GREENTEC 



Filling Capacities

Engine Oil Pump:
8,5 L

Engine Cooling System:
18 L

Fuel Tank:
140 L

Hydraulic Oil Tank:
70 L

Transmission Oil:
16 L



Tires

Front:
16/70 - 20 (12 Ply)

Rear:
16,9 / 28 (14 Ply)



Driving Speeds

@ 2200 rpm engine speed

1st gear: 6 km/h

2nd gear: 9 km/h

3rd gear: 12 km/h

4th gear: 20 km/h

5th gear: 28 km/h

6th gear: 40 km/h



Loader Performance

6 in 1 bucket capacity (m³):	1,1
Max. bucket breakout force (kgf):	8273
Max. loading arm breakout force (kgf):	7430
Lifting capacity to maximum height (kg):	3687



Backhoe Performance

	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity (m³):	0,17	
Max. bucket breakout force (kgf):	7765	7765
Max. dipper breakout force (kgf):	3435	2463

62 SS

102 B ALPHA

102 B ALPHA GREENTEC

102 S ALPHA

102 B SUPRA

102 S SUPRA

ALPHA

SERIES

HMK 102 S



Engine Features

Brand, Model:
PERKINS 1104D-44TA

Type:
Water cooled turbocharged diesel engine.

Number of Cylinders:
4 in line

Bore & Stroke:
105 x 127 mm

Displacement:
4400 cc

Maximum Power:
100 HP (74,5 kW)@2200 rpm

Maximum Torque:
410 Nm @1400 rpm



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



Weight

Standard Machine Operating Weight:
9450 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.

*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*

HIDROMEK®

HMK 102 S



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:	14 L
Front Axle Hub Reducers:	0,7 x 2 L
Rear Axle Differential:	16 L



Tires

Front:
16,9 – 28 (14 Ply Rating)

Rear:
16,9 – 28 (14 Ply Rating)



Driving Speeds

@ 2200 rpm engine speed

1st gear: 6 km/h

2nd gear: 9 km/h

3rd gear: 12 km/h

4th gear: 20 km/h

5th gear: 28 km/h

6th gear: 40 km/h



Loader Performance

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



Backhoe Performance

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

62 SS

102 B ALPHA

102 B ALPHA GREENTEC

102 S ALPHA

102 B SUPRA

102 S SUPRA

SUPRA

SERIES

HMK 102 B



Engine Features

Brand, Model:
PERKINS 1104D-44TA

Type:
Water cooled turbocharged diesel engine.

Number of Cylinders:
4 in line

Bore & Stroke:
105 x 127 mm

Displacement:
4400 cc

Maximum Power:
100 HP (74,5 kW) @2200 rpm

Maximum Torque:
410 Nm @1400 rpm



Hydraulic System

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

Main Pump Flow:
163 L/min @2200 rpm

Pressure:
227 bar



Weight

Standard Machine Operating Weight:
9110 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.

*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*

HIDROMEK®

HMK 102 B



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



Tires

Front:
16/70 - 20 (12 Ply Rating)

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



Driving Speeds

@ 2200 rpm engine speed

1st gear: 6 km/h

2nd gear: 9 km/h

3rd gear: 12 km/h

4th gear: 20 km/h

5th gear: 28 km/h

6th gear: 40 km/h



Loader Performance

6 in 1 bucket capacity (m³):	1,1
Max. bucket breakout force (kgf):	7209
Max. loading arm breakout force (kgf):	6516
Lifting capacity to maximum height (kg):	3170



Backhoe Performance

	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity (m³):	0,17	
Max. bucket breakout force (kgf):	6365	6365
Max. dipper breakout force (kgf):	2868	2026

62 SS

102 B ALPHA

102 B ALPHA GREENTEC

102 S ALPHA

102 B SUPRA

102 S SUPRA

SUPRA

SERIES

HMK 102 S



Engine Features

Brand, Model:

PERKINS 1104D-44TA

Type:

Water cooled turbocharged diesel engine.

Number of Cylinders:

4 in line

Bore & Stroke:

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



Hydraulic System

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

Main Pump Flow:

163 L/min @2200 rpm

Pressure:

227 bar



Weight

Standard Machine Operating Weight:

9450 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.

HIDROMEK®

HMK 102 S



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:	14 L
Front Axle Hub Reducers:	0,7 x 2 L
Rear Axle Differential:	16 L



Tires

Front:
16,9 – 28 (14 Ply Rating)

Rear:
16,9 – 28 (14 Ply Rating)



Driving Speeds

@ 2200 rpm engine speed

1st gear: 6 km/h

2nd gear: 9 km/h

3rd gear: 12 km/h

4th gear: 20 km/h

5th gear: 28 km/h

6th gear: 40 km/h



Loader Performance

6 in 1 bucket capacity (m³):	1,2
Max. bucket breakout force (kgf):	7209
Max. loading arm breakout force (kgf):	6516
Lifting capacity to maximum height (kg):	3170



Backhoe Performance

	Telescopic Arm (extended)	Telescopic Arm (retracted)
Bucket capacity (m³):	0,17	
Max. bucket breakout force (kgf):	6365	6365
Max. dipper breakout force (kgf):	2868	2026

Dimensions

HMK
62SS

ALPHA
HMK 102 B

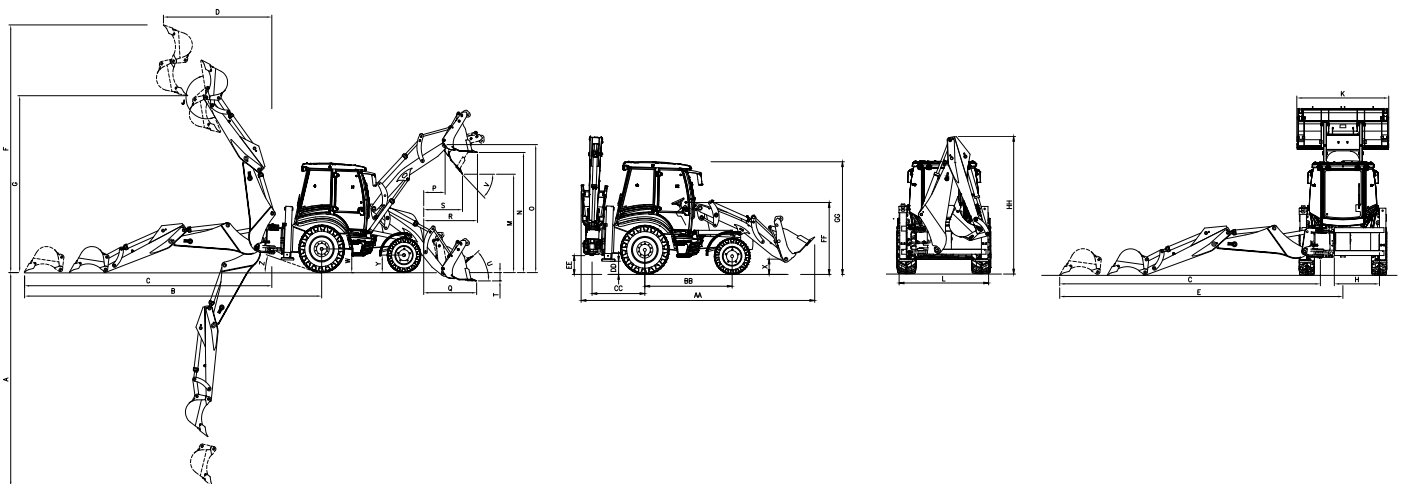
ALPHA
HMK 102 B
GREENTEC

ALPHA
HMK 102 S

SUPRA
HMK 102 B

SUPRA
HMK 102 S

		Fully Extended	Fully Retracted	Fully Extended	Fully Retracted	Fully Extended	Fully Retracted	Fully Extended	Fully Retracted	Fully Extended	Fully Retracted	
A	-Maximum digging depth (mm)	2751	5627	4409	5627	4409	5703	4488	5627	4409	5703	4488
B	-Ground level to rear wheel centre (mm)	4419	8183	7033	8183	7033	8244	7092	8183	7033	8244	7092
C	-Ground level to slew centre (mm)	3608	6845	5695	6845	5695	6854	5703	6845	5695	6854	5703
D	-Loading distance (mm)	1620	3106	2259	3106	2259	3087	2236	3106	2259	3087	2236
E	-Distance to machine central line (mm)	3986	7456	6307	7456	6307	7452	6301	7456	6307	7452	6301
F	-Operating height (mm)	3472	6611	5730	6611	5730	6552	5675	6611	5730	6552	5675
G	-Max. loader height (mm)	2400	4735.5	3854	4735.5	3854	4679	3802	4735.5	3854	4679	3802
H	-Total kingpost travel (mm)	756	1187		1187		1187		1187		1187	
J	-Bucket rotation (°)	204	187		187		187		187		187	
K	-Shovel Width (mm)	1630	2440		2440		2440		2440		2440	
L	-Rear frame width (mm)	1610	2292		2292		2292		2292		2292	
M	-Dump height (mm)	2022	2613		2613		2603		2613		2603	
N	-Load over height (mm)	2567	3233		3233		3260		3233		3260	
O	-Pin height (mm)	2800	3461		3461		3470		3461		3470	
P	-Front arm pin – bumper distance (mm)	190	587		587		480		587		480	
Q	-Grab lug – bumper distance (mm)	1085	1494		1494		1463		1494		1463	
R	-Max. reach at full height (mm)	1033	1532		1532		1458		1532		1458	
S	-Unloading distance (mm)	591	1060		1060		996		1060		996	
T	-Digging depth (mm)	55	183		183		160		183		160	
U	-Roll back at ground (°)	36	38		38		43		38		43	
V	-Dump angle (°)	47	47,3		47,3		45		47,3		45	
Y	-Front wheel centre to the ground (mm)	361	548.5		548.5		650		548.5		650	
Z	-Departure angle (°)	24	24,5		24,5		20		24,5		20	
W	-Rear wheel centre to ground (mm)	361	705		705		625		705		625	
X	-Distance between pin centre and ground (mm)	182	250		250		250		250		250	
AA	-Total travel length (mm)	3720	6049.6		6049.6		6090		6049.6		6090	
BB	-Axle centreline distance (mm)	1214	2190		2190		2280		2190		2280	
CC	-Slew centre to rear axle centre distance (mm)	803	1336		1336		1395		1336		1395	
DD	-Stabilizer feet clearance (mm)	228	340		340		370		340		370	
EE	-Kingpost clearance (mm)	295	536.8		536.8		510		536.8		510	
FF	-Steering wheel centre height (mm)	2275	2050		2050		2075		2050		2075	
GG	-Cab roof height (mm)	2298	2950		2950		2985		2950		2985	
HH	-Total travel clearance (mm)		3593		3593		3600		3593		3600	





HYDRAULIC EXCAVATORS



140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LCHD H4

HMK 140w H4



Engine Features

Brand, Model:

ISUZU AI-4JJ1X

Type:

Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine

Bore & Stroke:

101 mm x 126 mm

Power:

123 HP (92 kW) @2200 rpm / SAE J1995 (Gross)

113 HP (84,7 kW) @2200 rpm / SAE J1349 (Net)

Maximum Torque:

420 Nm @1800 rpm (Gross)

393 Nm @1800 rpm (Net)

Displacement:

2999 cc



General Dimensions

Standard Bucket Capacity (SAE):

0,6 m³

Bucket Digging Force (Power Boost) ISO:

9.400 (10.300) kgf

Arm Crowd Force (Power Boost) ISO:

7.000 (7.700) kgf



Weight

Standard Machine Operating Weight:

15900 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.

This engine complies with the Emission Regulations U.S. EPA Tier III, and EU Stage III-A

HIDROMEK®

HMK 140w H4



Undercarriage

Chassis:

Box shaped, reinforced lower chassis, front dozer blade and rear outriggers (stabilizers) as standard figures.

Type:

The pivot pin mounted front axle allows two options: 8° in each direction for best matching conditions, or could be locked at any desired position for perfect stability.



Tires

Front / Rear:

9,00-20TT (14PR)

Optional:

18 R 19,5 XF (Optional)

10,00 - 20 16 TT PR (Optional)



Hydraulic System

MAIN PUMP

Type:

Double variable displacement axial piston pumps

Maximum Flow:

2 x 160 L/min

Pilot Pump:

Gear, 20 L/min

WORKING PRESSURES

Cylinders:

330 kgf/cm²

Power Boost:

360 kgf/cm²

Travel:

360 kgf/cm²

Swing:

260 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED

High:

33 km/h

Low:

9 km/h

Max. Drawbar Pull:

7.710 kgf



Swing System

Swing Speed:

13,9 rpm

140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LC HD H4

HMK 210 W H4



Engine Features

Brand, Model:
ISUZU-AI-4HK1X

Type:
Water cooled diesel engine, 4 cycles, 4 cylinders, line-type, direct injection, turbocharger and intercooler

Bore & Stroke:
115 mm x 125 mm

Power:
172 HP (128kW) @2000 rpm / SAE J1995 (Gross)
162 HP (121 kW) @2000 rpm / SAE J1349 (Net)

Maximum Torque:
677 Nm @1500 rpm (Gross)
656 Nm @1500 rpm (Net)

Displacement:
5193 cc



General Dimensions

Standard Bucket Capacity (SAE)
0,9 m³

Bucket Digging Force (Power Boost) ISO:
15.700 (17.200) kgf

Arm Crowd Force (Power Boost) ISO:
13.200 (14.500) kgf



Weight

Standard Machine Operating Weight:
22.450 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.

HMK210wH4



Undercarriage

Chassis:

Box shaped, reinforced lower chassis, front dozer blade and rear outriggers (stabilizers) as standard figures.

Type:

The pivot pin mounted front axle allows two options: 8° in each direction for best matching conditions, or could be locked at any desired position for perfect stability.



Tires

Front / Rear:

11,00 - 20 (16 Ply)



Hydraulic System

MAIN PUMP

Type:

2 axial piston type pumps with double variable displacement and inclined plate

Maximum Flow:

2 x 233 L/min

Pilot Pump:

Gear type, 20 L/min

WORKING PRESSURES

Cylinders:

330 kgf/cm²

Power Boost:

370 kgf/cm²

Travel:

370 kgf/cm²

Swing:

305 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED

High:

30 km/h

Low:

7,5 km/h

Max. Drawbar Pull:

11.060 kgf



Swing System

Swing Speed:

12,6 rpm

140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LC HD H4

HMK140LC H4



Engine Features

Brand, Model:

ISUZU AJ-4JJ1X

Type:

Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, electronic diesel engine

Bore & Stroke:

95,4 mm x 104,9 mm

Power:

98 HP (73 kW) @2000 rpm / SAE J1995 (Gross)

95 HP (70,9 kW) @2000 rpm / SAE J1349 (Net)

Maximum Torque:

385 Nm @1600 rpm (Gross)

378 Nm @1600 rpm (Net)

Displacement:

2999 cc



General Dimensions

Standard Bucket Capacity (SAE)

0,6 m³

Bucket Digging Force (Power Boost) ISO:

10.500 kgf

Arm Crowd Force (Power Boost) ISO:

7.600 kgf



Weight

Standard Machine Operating Weight:

14.800 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.

HMK140LC H4



Undercarriage

Shoe:

Triple grouse

No. of Shoes:

2 x 46 units

No. of Lower Rollers:

2 x 7 units

No. of Upper Rollers:

2 x 2 units

Track Tensioning:

Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP**Type:**

Double variable displacement axial piston pumps

Maximum Flow:

2 x 130 L/min

Pilot Pump:

Gear type, 20 L/min

WORKING PRESSURES**Cylinders:**

320 kgf/cm²

Power Boost:

350 kgf/cm²

Travel:

350 kgf/cm²

Swing:

260 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED**High:**

5,70 km/h

Low:

3,40 km/h

Max. Drawbar Pull:

11.600 kgf

Ground Pressure:

0,44 kgf/cm²



Swing System

Swing Speed:

11,20 rpm

140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LCHD H4

HMK 145^{LC}_{SR} H4



Engine Features

Brand, Model:

ISUZU AJ-4JJ1X

Type:

Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, electronic diesel engine

Bore & Stroke:

95,4 mm x 104,9 mm

Power:

98 HP (73 kW) @2000 rpm / SAE J1995 (Gross)

95 HP (70,9 kW) @2000 rpm / SAE J1349 (Net)

Maximum Torque:

385 Nm @1600 rpm (Gross)

378 Nm @1600 rpm (Net)

Displacement:

2999 cc



General Dimensions

Standard Bucket Capacity (SAE)

0,6 m³

Bucket Digging Force (Power Boost) ISO:

9.600 (10.500) kgf

Arm Crowd Force (Power Boost) ISO:

6.900 (7.600) kgf



Weight

Standard Machine Operating Weight:

16.600 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 145^{LC}_{SR} H4



Undercarriage

Shoe:
Triple grouse

No. of Shoes:
2 x 46 units

No. of Lower Rollers:
2 x 7 units

No. of Upper Rollers:
2 x 2 units

Track Tensioning:
Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP

Type:
Double variable displacement axial piston pumps

Maximum Flow:
2 x 129 L/min

Pilot Pump:
Gear type, 20 L/min

WORKING PRESSURES

Cylinders:
320 kgf/cm²

Power Boost:
350 kgf/cm²

Travel:
350 kgf/cm²

Swing:
260 kgf/cm²

Pilot:
40 kgf/cm²



Travel

TRAVEL SPEED

High:
5,7 km/h

Low:
3,4 km/h

Max. Drawbar Pull:
11.230 kgf

Ground Pressure (500mm Shoe):
0,48 kgf/cm²



Swing System

Swing Speed:
11,3 rpm



140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LC HD H4

HMK 230 LC H4



Engine Features

Brand, Model:

ISUZU-AI-4HK1X

Type:

Water-cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine

Bore & Stroke:

115 mm x 125 mm

Power:

172 HP (128 kW) @2000 rpm / SAE J1995 (Gross)

162 HP (121 kW) @2000 rpm / SAE J1349 (Net)

Maximum Torque:

677 Nm @1600 rpm (Gross)

656 Nm @1600 rpm (Net)

Displacement:

5193 cc



General Dimensions

Standard Bucket Capacity (SAE)

1,10 m³

Bucket Digging Force (Power Boost) ISO:

15.900 kgf

Arm Crowd Force (Power Boost) ISO:

11.000 kgf



Weight

Standard Machine Operating Weight:

23.400 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.

HMK230LC H4



Undercarriage

Construction:

X Type Lower Frame Construction Pentagon Box Type Chassis

Shoe:

Triple grouse

No. of Shoes:

2 x 49 units

No. of Lower Rollers:

2 x 9 units

No. of Upper Rollers:

2 x 2 units

Track Tensioning:

Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP**Type:**

Double variable displacement axial piston pumps

Maximum Flow:

2 x 231 L/min

Pilot Pump:

Gear type, 20 L/min

WORKING PRESSURES**Cylinders:**

350 kgf/cm²

Power Boost:

370 kgf/cm²

Travel:

350 kgf/cm²

Swing:

305 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED**High:**

5,8 km/h

Low:

3,8 km/h

Max. Drawbar Pull:

18.355 kgf

Ground Pressure (600mm Shoe):

0,50 kgf/cm²



Swing System

Swing Speed:

12,6 rpm



140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LC HD H4

HMK310LC H4



Engine Features

Brand, Model:
ISUZU-AH-6HK1X

Type:
Water cooled diesel engine, 4 cycles, 6 cylinders, line type direct injection, turbocharger and intercooler

Bore & Stroke:
115 mm x 125 mm

Power:
216 HP (161 kW) @1800 rpm / SAE J1995 (Gross)
203 HP (151 kW) @1800 rpm / SAE J1349 (Net)

Maximum Torque:
940 Nm @1500 rpm (Gross)
903 Nm @1500 rpm (Net)

Displacement:
7790 cc



General Dimensions

Standard Bucket Capacity (SAE)
1,6 m³

Bucket Digging Force (Power Boost) ISO:
19.800 (21.500) kgf

Arm Crowd Force (Power Boost) ISO:
16.500 (17.900) kgf



Weight

Standard Machine Operating Weight:
31.600 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.

This new engine complies with the Emission Regulations U.S. EPA Tier III, and and EU Stage III-A

HIDROMEK®

HMK310LC H4



Undercarriage

Construction:

Lower structure "X" type, side frame pentagon box type

Shoe:

Triple grouse

No. of Shoes:

2 x 51 units

No. of Lower Rollers:

2 x 9 units

No. of Upper Rollers:

2 x 2 units

Full Trackguard:

2 x 3 units

Track Tensioning:

Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP**Type:**

2 axial piston type pumps with double variable displacement and inclined plate

Maximum Flow:

2 x 259 L/min

Pilot Pump:

Gear type, 27 L/min

WORKING PRESSURES**Cylinders:**

350 kgf/cm²

Power Boost:

380 kgf/cm²

Travel:

350 kgf/cm²

Swing:

285 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED**High:**

5,1 km/h

Low:

2,9 km/h

Max. Drawbar Pull:

25.490 kgf

Ground pressure (600mm):

0,62 kgf/cm²



Swing System

Swing Speed:

10,2 rpm



140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LCHD H4

HMK 390 LCHD H4



Engine Features

Brand, Model:

ISUZU-AQ-6HK1X

Type:

Water cooled diesel engine, 4 cycles, 6 cylinders, line type direct injection, turbocharger and intercooler

Bore & Stroke:

115 mm x 125 mm

Power:

284 HP (212 kW) @2000 rpm / SAE J1995 (Gross)

268 HP (200 kW) @2000 rpm / SAE J1349 (Net)

Maximum Torque:

1136 Nm @1500 rpm (Gross)

1070 Nm @1500 rpm (Net)

Displacement:

7790 cc



General Dimensions

Standard Bucket Capacity (SAE)

2,2 m³

Bucket Digging Force (Power Boost) ISO:

23.300 (25.300) kgf

Arm Crowd Force (Power Boost) ISO:

20.400 (22.100) kgf



Weight

Standard Machine Operating Weight:

39.300 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.

This new engine complies with the Emission Regulations U.S. EPA Tier 3, and and EU Stage III-A

HIDROMEK®

HMK390H6H4



Undercarriage

Construction:

X Type Lower Frame Construction Pentagon Box Type Chassis

Shoe:

Triple grouse

No. of Shoes:

2 x 50 units

No. of Lower Rollers:

2 x 9 units

No. of Upper Rollers:

2 x 2 units

Full Trackguard:

Complete

Track Tensioning:

Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP**Type:**

Double variable displacement axial piston pumps

Maximum Flow:

2 x 300 L/min

Pilot Pump:

Gear type, 28,5 L/min

WORKING PRESSURES**Cylinders:**

350 kgf/cm²

Power Boost:

380 kgf/cm²

Travel:

350 kgf/cm²

Swing:

285 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED**High:**

5,0 km/h

Low:

3,0 km/h

Max. Drawbar Pull:

30.540 kgf

Ground pressure (600mm Shoe) :

0,72 kgf/cm²



Swing System

Swing Speed:

9,60 rpm



140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LC HD H4

HMK 410^{LC} UHD H4



Engine Features

Brand, Model:

ISUZU-AH-6HK1X

Type:

Water cooled diesel engine, 4 cycles, 6 cylinders, line type direct injection, turbocharger and intercooler

Bore & Stroke:

115 mm x 125 mm

Power:

287 HP (214 kW) @2000 rpm / SAE J1995 (Gross)

268 HP (200 kW) @2000 rpm / SAE J1349 (Net)

Maximum Torque:

1136 Nm @1500 rpm (Gross)

1070 Nm @1500 rpm (Net)

Displacement:

7790 cc



General Dimensions

Standard Bucket Capacity (SAE)

2,5 m³

Bucket Digging Force (Power Boost) ISO:

23.700 (25.800) kgf

Arm Crowd Force (Power Boost) ISO:

20.000 (21.800) kgf



Weight

Standard Machine Operating Weight:

41.250 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.

This new engine complies with the Emission Regulations U.S. EPA Tier 3, and and EU Stage III-A

HIDROMEK®

HMK 410^{LC} UHD H4



Undercarriage

Construction:

X Type Lower Frame Construction Pentagon Box Type Chassis

Shoe:

Triple grouse

No. of Shoes:

2 x 50 units

No. of Lower Rollers:

2 x 9 units

No. of Upper Rollers:

2 x 2 units

Track Tensioning:

Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP

Type:

Double variable displacement axial piston pumps

Maximum Flow:

2 x 300 L/min

Pilot Pump:

Gear type, 28 L/min

WORKING PRESSURES

Cylinders:

350 kgf/cm²

Power Boost:

380 kgf/cm²

Travel:

350 kgf/cm²

Swing:

285 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED

High:

5,0 km/h

Low:

3,0 km/h

Max. Drawbar Pull:

30.260 kgf

Ground pressure (600mm Shoe) :

0,74 kgf/cm²



Swing System

Swing Speed:

9,3 rpm



140 W H4

210 W H4

140LC H4

145LC SR H4

230 LC H4

310 LC H4

390 LCHD H4

410 LC UHD H4

500 LC HD H4

HMK 500LC H4



Engine Features

Brand, Model:
ISUZU AH-6U21X

Type:
Water-cooled, 4 cycle, 6 cylinders, line type, direct injection, turbocharger, intercooler, diesel engine

Bore & Stroke:
120 mm x 145 mm

Power:
362 HP (270 kW) @1950 rpm / SAE J1995 (Gross)
348 HP (260 kW) @1950 rpm / SAE J1349 (Net)

Maximum Torque:
1435 Nm @1500 rpm (Gross)
1400 Nm @1500 rpm (Net)

Displacement:
9839 cc



General Dimensions

Standard Bucket Capacity (SAE)
3,2 m³

Bucket Digging Force (Power Boost) ISO:
26.100 (28.500) kgf

Arm Crowd Force (Power Boost) ISO:
25.200 (27.600) kgf



Weight

Standard machine operating weight:
51.150 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.

This new engine complies with the Emission Regulations U.S. EPA Tier 3, and and EU Stage III-A

HIDROMEK®

HMK500H6H4



Undercarriage

Construction:

X Type Lower Frame Construction Pentagon Box Type Chassis

Shoe:

Triple grouse

No. of Shoes:

2 x 53 units

No. of Lower Rollers:

2 x 9 units

No. of Upper Rollers:

2 x 2 units

Full Trackguard:

Complete

Track Tensioning:

Hydraulic Spring Tensioning



Hydraulic System

MAIN PUMP

Type:

Double variable displacement axial piston pumps

Maximum Flow:

2 x 376 L/min

Pilot Pump:

Gear type, 29 L/min

WORKING PRESSURES

Cylinders:

325 kgf/cm²

Power Boost:

355 kgf/cm²

Travel:

325 kgf/cm²

Swing:

300 kgf/cm²

Pilot:

40 kgf/cm²



Travel

TRAVEL SPEED

High:

4,4 km/h

Low:

2,7 km/h

Max. Drawbar Pull:

37.930 kgf



Swing System

Swing Speed:

8,4 rpm



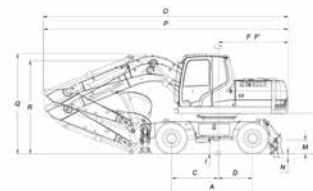
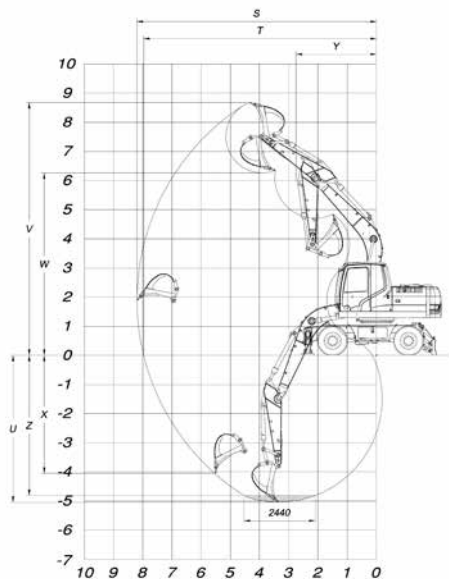


Dimensions

HMK 140 W H4

HMK 210 W H4

Boom Dimension (mm)	4.600	5.600
Arm Dimension (mm)	2.300	2.400
A - Axle Distance (mm)	2.600	2.850
B - Thread (mm)	1.944	1.914
C - Rotation Axis – Front Axle Distance (mm)	1.500	1.500
C' - Maximum Front Axle - Dozer Distance (mm)		1.5140
D - Rotation Axis – Rear Axle Distance (mm)	1.100	1.350
D' - Rear Axle - Foot Distance (mm)		1.166
E - Upper Chassis to Ground Clearance (mm)	1.295	1.290
F - Counterweight Distance (mm)	2.250	2.855
F' - Countweight Turning Radius (mm)	2.340	2.890
G - Upper Frame Width (mm)	3.620	2.500
H - Cab Height (mm)	3.280	3.220
I - Outrigger Ground Clearance (mm)	330	335
J - Width at Tires (mm)	2.494	2.500
K - Outrigger Width (Overall) (mm)	2.500	3.800
L - Outrigger Digging Depth (mm)	125	130
M - Dozer Blade Ground Clearance (mm)	450	370
N - Dozer Blade Digging Depth (mm)	120	135
O - Overall Length / Travel (mm)	7.860	9.590
P - Overall Length/ Transport (mm)	8.120	9.480
Q - Boom Height / Travel (mm)	3.420	3.610
R - Boom Height / Transport (mm)	2.900	3.330
S - Maximum Digging Reach (mm)	8.190	9.400
T - Maximum Digging Reach at Ground Level (mm)	7.960	9.170
U - Maximum Digging Depth (mm)	5.040	5.770
V - Maximum Digging Height (mm)	8.660	9.960
W - Maximum Dumping Clearance (mm)	6.250	7.170
W' - Minimum Dumping Clearance (mm)		3.360
X - Maximum Vertical Didding Depth (mm)	4.020	4.430
Y - Minimum Swing Radius (mm)	2.730	3.080
Z - Maximum Digging Depth (2440 mm level) (mm)	4.810	5.560





Dimensions

HMK140LC H4

HMK145LF H4

HMK230LF H4

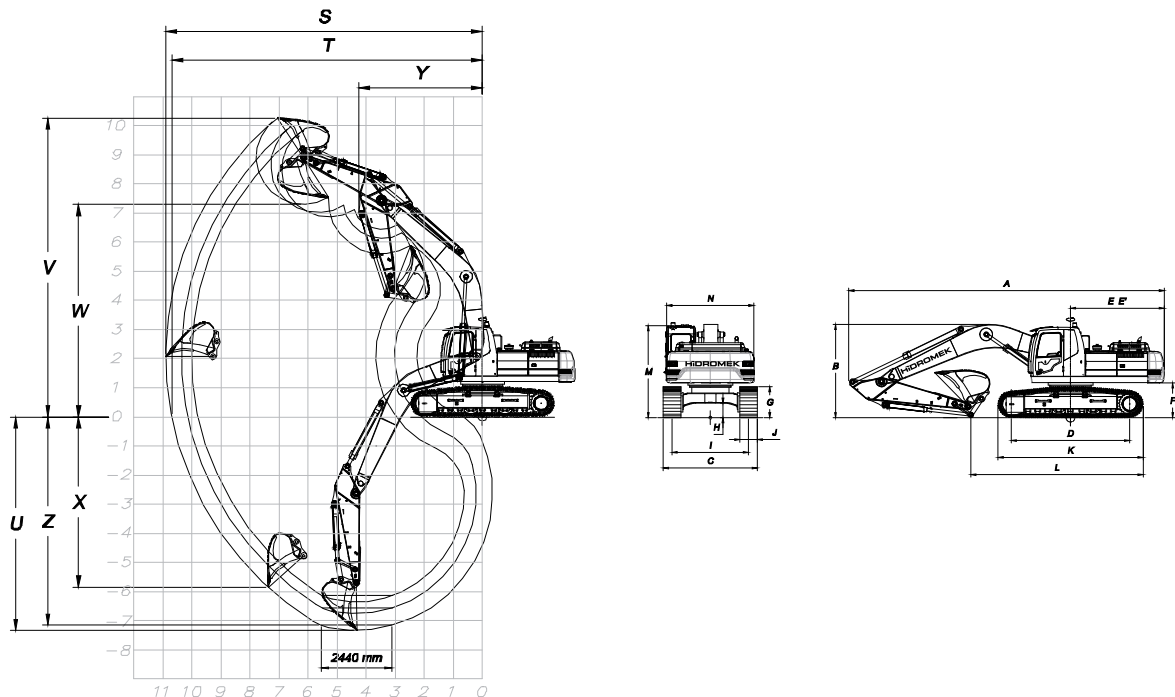
HMK310LF H4

HMK390LF H4

HMK410LF H4

HMK500LF H4

Boom Dimension (mm)	4.600	4.600	5.700	6.280	6.100	6.100	6.300
Arm Dimension (mm)	2.300	2.300	2.920	2.500	2.600	2.600	2.600
A - Overall Length (mm)	7.890	7.520	9.680	10.880	10.920	10.990	11.650
B - Boom (Shipping) Height (mm)	2.830	2.840	3.110	3.490	3.640	3.660	3.860
C - Lower Frame Width (mm)	2.490	2.510	2.990	3.200	3.300	3.500	3.500
D - Track Base Length (mm)	3.035	3.035	3.640	4.030	4.240	4.300	4.470
E - Counterweight Distance (mm)	2.245	1.500	2.810	3.240	3.450	3.520	3.800
E' - Counterweight Turning Radius (mm)	2.265	1.520	2.830	3.260	3.470	3.540	3.820
F - Upper Chassis to Ground Clearance (mm)	940	940	1.065	1.205	1.250	1.350	1.380
G - Crawler Height (mm)	830	830	935	1.070	1.090	1.170	1.230
H - Ground Clearance (mm)	430	430	465	500	505	600	590
I - Track Gauge (mm)	1.990	1.990	2.390	2.600	2.700	2.900	2.900
J - Shoe Width (mm)	500	500	600	600	600	600	600
K - Lower Chassis Length (from shoe) (mm)	3.780	3.780	4.460	4.950	5.190	5.280	5.500
L - Shipping Length (mm)	4.650	4.620	5.320	6.780	6.670	6.660	6.930
M - Cab Height (mm)	2.880	2.960	3.010	3.140	3.190	3.290	3.350
N - Upper Frame Width (mm)	2.500	2.500	2.740	2.990	2.990		2.990
S - Maximum Reach Distance (mm)	8.220	8.210	9.970	10.370	10.380	10.460	10.770
T - Maximum Reach at Ground Level (mm)	8.070	8.050	9.810	10.150	10.150	10.210	10.490
U - Maximum Digging Depth (mm)	5.360	5.360	6.730	6.760	6.560	6.540	6.490
V - Maximum Digging Height (mm)	8.430	9.270	9.680	9.990	10.020	10.150	10.510
W - Maximum Unloading Height (mm)	5.920	6.690	6.950	7.020	6.870	6.900	6.940
W' - Minimum Unloading Height (mm)	2.220	2.720	2.510	3.310	3.070	3.100	3.330
X - Maximum Vertical Wall Digging Depth (mm)	4.890	4.850	5.260	5.140	5.050	4.740	4.480
Y - Minimum Swing Radius (mm)	2.620	1.990	3.520	4.360	4.110	4.110	4.300
Z - Maximum Digging Depth (2440 mm level) (mm)	5.140	5.130	6.550	6.560	6.380	6.360	6.310





The control of your machine
is at your fingertips with
**HIDROMEK
SMARTLINK**

Reach detailed data of your machine,
anytime you wish.



The
location



Fuel
consumption



Remaining time
for the next
periodic maintenance



Working duration
and conditions

 **SmartLink**



WHEEL LOADERS



640 WL

HMK 640_{wl}



Engine Features

Brand, Model:

MERCEDES-BENZ OM470LA.E3A-3

Type:

Water cooled, turbocharged diesel engine.

Number of Cylinders:

6 in line

Bore & Stroke:

125 x 145 mm

Displacement:

10.700 cc

Maximum Power:

324 HP (242 kW) @1800 rpm

Maximum Torque:

1600 Nm @1300 rpm



Hydraulic System

Closed center type hydraulic system with LS type variable displacement piston type pumps.

Pump Flow (Pump 1): 190 L/min @1900 rpm

Pressure (Pump 1): 250 bar

Pump Flow (Pump 2): 190 L/min @1900 rpm

Pressure (Pump 2): 210 bar

Pump Flow (Pump 3): 85 L/min @1900 rpm

Pressure (Pump 3): 250 bar



Weight

Standard Machine Operating Weight:

26.300 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 640_{wl}



Filling Capacities

Cooling system:

50 L

Fuel Tank:

400 L

Total engine oil:

35 L

Transmission oil (replacement):

32 L

Total transmission oil required (system):

50 L

Rear axle:

42 L

Front axle:

61 L

Hydraulic oil (replacement):

135 L

Total hydraulic oil required (system):

200 L



Tires

Front / Rear:

26, 5R25-L3



Transmission

Autoshift transmission for heavy duty service

5 forward and 3 reverse gears

Torque converter with 2.194:1 stall ratio

4-wheel drive

Transmission oil cooler

Engine start only at the gear lever on neutral position for safety.

Electronic parking brake



Axles

Heavy duty type ZF axles

Planetary type reduction gears

Total 26 degrees oscillation on the rear axle

Equipped with differential lock on the front axle



Loader Performance

Bucket Capacity (m³):

4,2

Max. Breakout Force (kgf):

19.975

Static Tipover Load (kgf):

19.269

Static Tipover Load (with articulation) (kg):

17.015



Driving Speeds

1st Gear 6,8 km/h

2nd Gear 11,7 km/h

3rd Gear 18,3 km/h

4th Gear 25,4 km/h

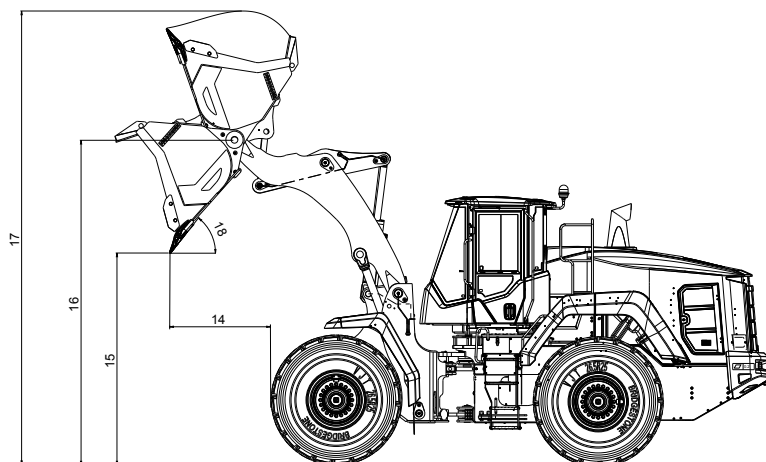
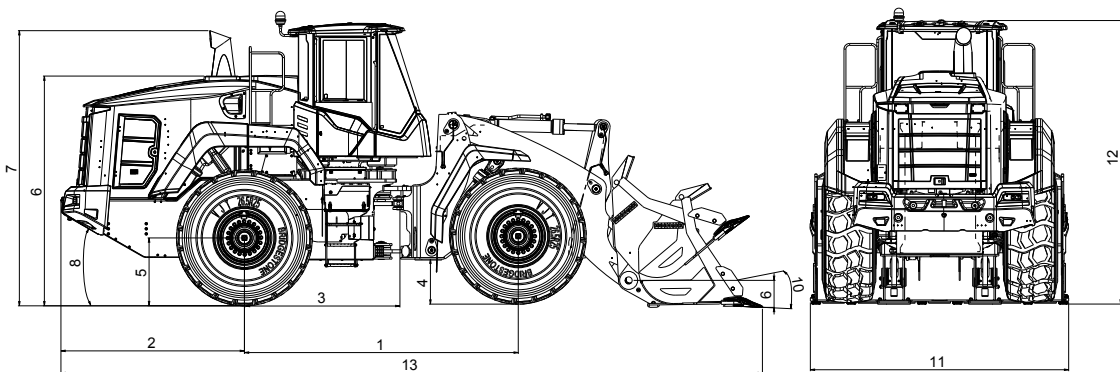
5th Gear 37,8 km/h



Dimensions

HMK **640**WL

1	Wheelbase (mm)	3500
2	Rear axle - edge of counterweight distance (mm)	2340
3	Rear axle - hitch distance (mm)	1750
4	Ground clearance with 26,5R25 L3 (mm)	520
5	Height to centerline of axle (mm)	820
6	Hood height (mm)	2880
7	Exhaust pipe height (mm)	3460
8	Departure angle (°)	30
9	Pin height @carry (mm)	520
10	Roll back @ carry position (°)	46
11	Width of bucket (mm)	3300
12	ROPS height (mm)	3505
13	Total length (mm)	9060
14	Dump distance with 26,5R25 L3 (mm)	1330
15	Dump height (mm)	2920
16	Pin height @dump (mm)	4360
17	Overall operating height (mm)	6000
18	Dump angle (°)	46





MOTOR GRADERS



600 MG

HMK 600 MG



Engine Features

Brand, Model:
Mercedes-Benz OM 926 LA

Typ:
4-Stroke, turbocharged, water cooled diesel engine with direct injection and intercooler

Number of Cylinders:
6 in line

Displacement:
7200 cc

Maximum Power:
187 HP - 214 HP (140 - 160 kW) @2200 rpm

Maximum Torque:
1000 Nm @ (1200 rpm - 1600 rpm)



Hydraulic System

Closed-center system, with load sensing using electro-hydraulic valve.

Oil pump:
Variable-displacement piston pump

Capacity:
192 L/min

Max. Working Pressure:
172 bar



Weight

Operating Weight:
18.470 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.

This engine complies with the Emission Regulations U.S. EPA Tier 3, and EU Stage III-A

HIDROMEK®

HMK 600 MG



Filling Capacities

Radiator:

45 L

Fuel Tank:

275 L

Engine Crankcase:

29 L

Transmission:

38 L

Rear Axle Body:

30 L

Hydraulic Tank:

80 L

Tandem Body (for each side):

85 L

Circular Disk Body:

3,5 L



Tires

Front / Rear:

17,50 - 25 - 16 PR



Transmission

Powershift (planetary gear, electro hydraulically actuated) with 8 speeds for both forward and reverse



Blade

Type:

Wear resistant steel, with box section reinforcement with hydraulic side shift.

Length x Height x Thickness (mm):

3710 x 610 x 19

Max. Blade Lift Above Ground (mm):

525 mm

Circle turning angle:

360°

Max. Bank Cutting Angle:

90°

Cutting angle:

39° to 85°



Dimensions

Overall length (mm):

11.106 mm (With front blade and rear ripper)

10.188 mm (With front weight and rear ripper)

8.944 mm (Without any attachment)

Overall width (mm):

2440

Overall height (mm):

3400

Wheelbase (mm):

6250

Ground Clearance (mm):

380



Performance (Speeds)

Travel speed (for standard 14,00-24 wheel)

Forward 1st gear: 4 km/h**2nd gear:** 5,4 km/h**3rd gear:** 8,2 km/h**4th gear:** 11,2 km/h**5th gear:** 16 km/h**6th gear:** 21,6 km/h**7th gear:** 32,9 km/h**8th gear:** 45,2 km/h**Reverse 1st gear:** 3,7 km/h**2nd gear:** 5,0 km/h**3rd gear:** 7,6 km/h**4th gear:** 10,5 km/h**5th gear:** 15 km/h**6th gear:** 20,3 km/h**7th gear:** 30,9 km/h**8th gear:** 42,4 km/h

Front Axle

Oscillation:

15° Left or Right (Total 30°)

Wheel lean:

20° Left or Right (Total 40°)

Ground Clearance (mm):

595

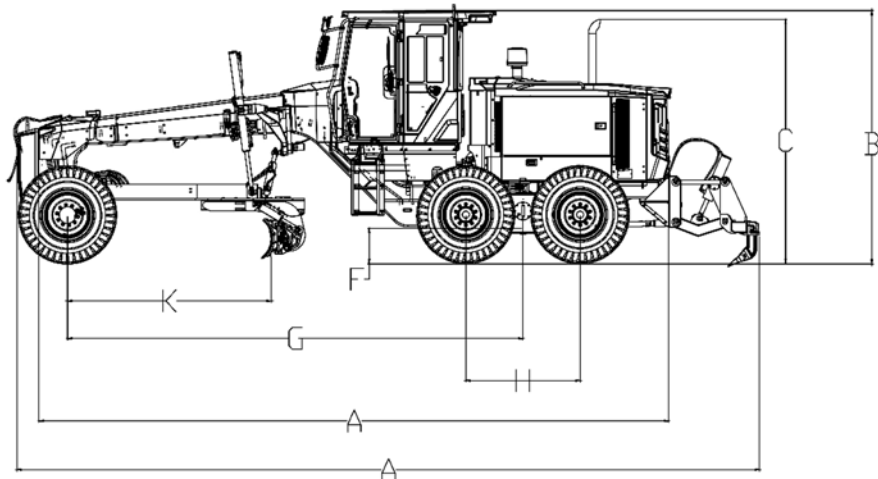
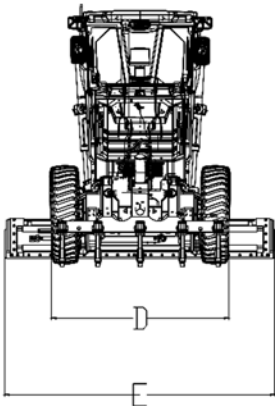




Dimensions

HMK600ME

A	Total Length (mm)	Without Front Wight And Ripper	8944
		With Front Weight And Ripper	10188
B	Total Height (mm)		3400
C	Exhaust Height(mm)		3094
D	Width At Tires (mm)		2440
E	Total Width (mm)		3710
F	Minumum Height From Ground (mm)		460
G	Axle Clearance (mm)		6250
H	Tandem Axle Clearance (mm)		1565
I	Thread (mm)	Front Tires	2000
		Rear Tires	2000
K	Blade - Front Axle Distance (mm)		2790





COMPACTOR



110 CS

130 CS

HMK 110 CS



Engine Features

Brand, Model:
DEUTZ TCD 2012 L04 2V

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

Number of Cylinders:
4 in line

Bore & Stroke:
101 mm x 126 mm

Displacement:
4.038 cc

Maximum Power:
138 HP (103 kW) @2400 rpm

Maximum Torque:
520 Nm @1600 rpm



Vibration

Vibration frequency, for high amplitude / for low amplitude:
27,5/30 Hz

Amplitude, high/low:
1,95 / 0,81 mm

Centrifugal force, for high amplitude / for low amplitude:
210 / 104 kN



Weight

Operating weight, CECE, ROBS Cabin:
11.150 kg

Drum (front axle load):
6.300 kg

Wheels (rear axle load):
4.850 kg

Operational weight, complying with the EN500-1 standards, includes half fuel tank, hydraulic system and other liquids, 165,3 lb operator weight and standard equipped machine weight. Optional equipments are not included.

HMK110CS



Cab & Hood

- Widened visual angle
- Ergonomic & Aesthetic Interior Design
- 8" LCD coloured touchpad display
- Externally servicable Air Conditioner system
- Cool-box
- ROPS cab
- Suspension seat
- Pool type floor mats
- Tablet PC and phone holder
- Cleanable pockets
- SmartLink (Optional)
- Storage boxes for operator
- Sun-wisors
- LED headlamps, working lighths
- Rear view camera
- One-piece opening hood
- Locking with one key (Door / Operation)
- Front and rear window wipers



Filling Capacities

- Fuel Tank:**
350 L
- Hydraulic Tank:**
105 L



Tires

23.1-26 12 PR



Driving Speeds

Maximum slope
with vibration / without vibration:
% 42 / % 45

1st gear	5	km/h
2nd gear	6	km/h
3rd gear	9	km/h
4th gear	12	km/h



Steering System

Oscillation angle:
± 12°

Articulation angle:
± 35°



110 CS

130 CS

HMK 130CS



Engine Features

Brand, Model:
DEUTZ TCD 2012 L04 2V

Type:
Water cooled, turbocharged diesel engine.

Number of Cylinders:
4 in line

Bore & Stroke:
101 x 126 mm

Displacement:
4038 cc

Maximum Power:
138 HP (103 kW) @2400 rpm

Maximum Torque:
520 Nm @1600 rpm



Vibration

**Vibration frequency,
for high amplitude / for low amplitude:**
27,5/30 Hz

Amplitude, high/low:
2,01/0,81 mm

**Centrifugal force,
for high amplitude / for low amplitude:**
252/120 kN



Weight

Operating weight, CECE, ROBS Cabin:
13.250 kg

Drum (front axle load):
8.150 kg

Wheels (rear axle load):
5.100 kg

Operational weight, complying with the EN500-1 standards, includes half fuel tank, hydraulic system and other liquids, 75 kg operator weight and standard equipped machine weight. Optional equipments are not included.

HMK130CS



Cab & Hood

- Widened visual angle
- Ergonomic & Aesthetic Interior Design
- 8" LCD coloured touchpad display
- Externally servicable Air Conditioner system
- Cool-box
- ROPS cab
- Suspension seat
- Pool type floor mats
- Tablet PC and phone holder
- Cleanable pockets
- SmartLink (Optional)
- Storage boxes for operator
- Sun-wisors
- LED headlamps, working ligths
- Rear view camera
- One-piece opening hood
- Locking with one key (Door / Operation)
- Front and rear window wipers



Filling Capacities

- Fuel Tank:**
350 L
- Hydraulic Tank:**
105 L



Tires

23.1-26 12 PR



Driving Speeds

Maximum slope
with vibration / without vibration:
% 46 / % 49

1st gear:	5	km/h
2nd gear:	6	km/h
3rd gear:	7	km/h
4th gear:	12	km/h



Steering System

- Oscillation angle:**
 $\pm 12^\circ$
- Articulation angle:**
 $\pm 35^\circ$



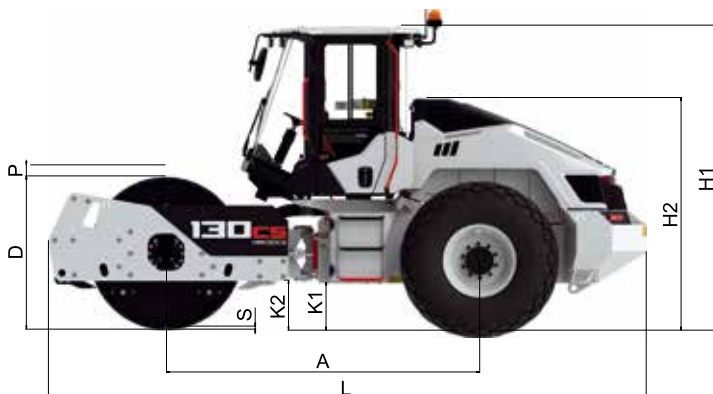
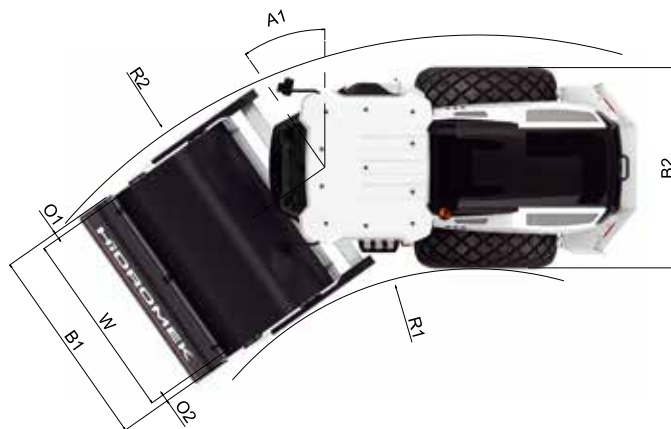


Dimensions



HMK 110 CS

HMK 130 CS










	HMK 110 CS	HMK 130 CS
A Wheelbase	3.065 mm	3.065 mm
L Length (standard equipment), Maximun	5.850 mm	5.855 mm
H1 Height (with ROPS cabin), Maximun	2.970 mm	2.970 mm
H2 Height without cabin (expedition)	2.280 mm	2.280 mm
D Diameter, drum	1.500 mm	1.500 mm
S Shell thickness, drum	30 mm	30 mm
W Width, drum	2.130 mm	2.130 mm
P Height, pads (option)	100 mm	100 mm
K1 Ground clearance, tractor frame	470 mm	470 mm
K2 Ground clearance, drum frame	490 mm	490 mm
B1 Width (standard equipped), Maximun	2.280 mm	2.280 mm
B2 Width, tractor frame	2.170 mm	2.170 mm
A1 Turning angle	$\pm 35^\circ$	$\pm 35^\circ$
O1 Lateral overhang, right	70 mm	70 mm
O2 Lateral overhang, left	80 mm	80 mm
R1 Turning radius, inside	3.715 mm	3.715 mm
R2 Turning radius, outside	6.160 mm	6.175 mm







BACKHOE LOADER

	<p>2008</p>  <p>Maestro Series Backhoe Loader Superior Design Award</p>
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EXCAVATOR

	<p>2010</p>  <p>Hydraulic Excavator Good Design Award</p>	<p>2011</p>  <p>Hydraulic Excavator Good Design Award</p>	<p>2012</p>  <p>Hydraulic Excavator Product Design Award</p>	
	<p>2018</p>  <p>reddot award 2018 winner HMK 60 CR Midi Excavator Winner Award</p>	<p>2018</p>  <p>reddot award 2018 winner HMK 145 LC SR Crawler Excavator Winner Award</p>	<p>2019</p>  <p>HMK 60 CR Midi Excavator Product Design Award</p>	<p>2019</p>  <p>HMK 145 LC SR Crawler Excavator Product Design Award</p>

MOTOR GRADER

	<p>2017</p>  <p>HMK 600 MG Motor Grader Special Mention Award</p>	<p>2017</p>  <p>reddot award 2017 winner HMK 600 MG Motor Grader Winner Award</p>	<p>2017</p>  <p>HMK 600 MG Motor Grader Good Design Award</p>
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WHEELED LOADER

	<p>2017</p>  <p>HMK 640 WL Wheeled Loader Product Design Award</p>	<p>2017</p>  <p>reddot award 2017 best of the best HMK 640 WL Wheeled Loader Best of the Best Award</p>	<p>2017</p>  <p>HMK 640 WL Wheeled Loader Good Design Award</p>	<p>2018</p>  <p>HMK 640 WL Wheeled Loader Good Design Award</p>	<p>2018</p>  <p>HMK 640 WL Wheeled Loader Winner Award</p>
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COMPACTOR

	<p>2016</p>  <p>HMK Vision Compactor Professional Concept Award</p>
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HICON 7W

	<p>2019</p>  <p>HMK HICON 7W Good Design Award</p>	<p>2020</p>  <p>HMK HICON 7W Product Design Award</p>
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