





the right choice 6 SANKO

SANKO MAKİNA SANAYİ VE TİCARET A.Ş.

www.sankomakina.com.tr e-mail: info@sankomakina.com.tr

HEAD OFFICE

Tel: +90 216 453 04 00 pbx Fax: +90 216 453 04 01

4. Organize Sanayi Bölgesi Başpınar Gaziantep TURKEY **Tel:** +90 342 357 00 33 **Fax:** +90 342 357 00 46-32

Specifications in this catalogue are subject to change without prior notice for quality enhancement.











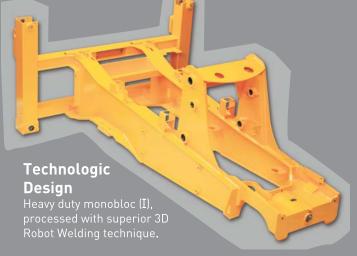


INNOVATIONS...

High technology Backhoe Loader production in world standards by using all new machine tools.



Welding Technology
High Technology 3D robot welding process





Paint Shop
Fully closed painting line where all parts including chass are painted and protected from external influences.



Venturi Exhaust
14,5 liters Muffler.
Reinforced flexible exhaust,
independent of muffler, chassis
mounted venturi system outlet pipe.
Ejection of engine heat by the new
venturi system provides problem-free
operation even in temperatures up to
60 degrees.



Electrical System
Car type plugged water and dust proof wiring system in international quality.

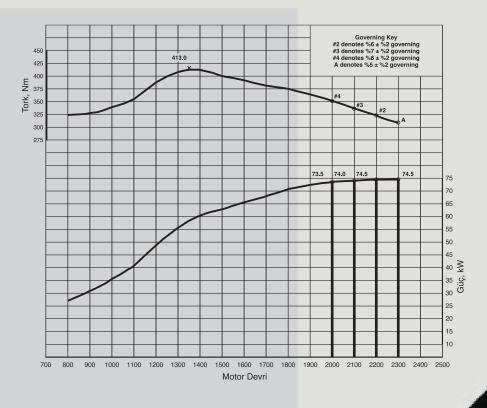




POWER AND PERFORMANCE...

M544's performance is efficiency-oriented. High quality supported components provide a long life engine and longer interval for periodic service.





1 Engine

Industrial type engine produces
413 Nm of torque in 1350 rpm.
High torque value reached in low rpm,
provides a fuel economy up to 10% in
comparison with its peers. Easy-find
spare parts and low maintenance costs
render the engine superior to its
competitors.

2 Transmission

Auto Powershift low speed Gearbox. Utilizes ECU system that electronically control forward/reverse drive and speed selection and protects the gearbox from all possible damages such as gear change at improper speeds and steering modes.

Cycle Ratio

2.64/1 ratio torque converter increases working capacity of the machine

3 Pum

Higher pump efficiency has been provided by means of the transmission and coupled pump. Fuel consumption has been reduced by using less transmission components.

Main valve controlling the steering is integrated on the pump.



Powerful Axles

Heavy duty type epicycle rear axle with limited slip differential (LSD) causes traction force increase by transferring the present drive torque with a higher ratio.

- Front axle with maximum tractiontorque ratio provides superior traction force under all working conditions.
- Powertrack rode steering piston and front axle.

 Front axle has a 16°C oscillation capability to secure and effective steering control even under most adverse terrain conditions

Wet type brake system in the rear axles ensure the machine to stop securely, and convenience in usage.
Since there are no shaft joints, non-vibrating operation and direct power transmission.





Cab processing ROPS and FOBS international safety regulation certificate, offers excellent vision by means of its wide windows. And tiniest detailed control panel has been improved for the operator.

A comfortable working environment in the cabin in all seasons is secured thanks to the high tech installation material laid under the floor and the cab ceiling which provides the sound and heat insulation.





ATTACHMENTS...

Easy replacement attachment options provide efficient usage in

MESHI ...INTERNATIONAL TECHNICAL SUPPORTS

service network in repair and maintenance service shops all around the world.

Fully equipped and experienced widespread





Malfunctions in the pump, valve and hydraulic system have been prevented by means of the modern designed oil and diesel tanks and the filtration system in the hydraulic tank. Locking of the tanks



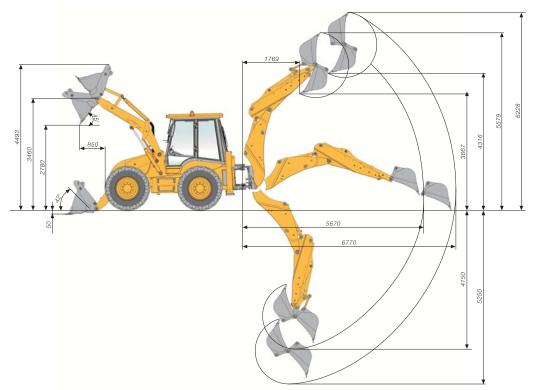
Practical and short maintenance period.

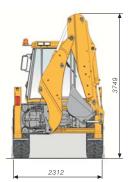


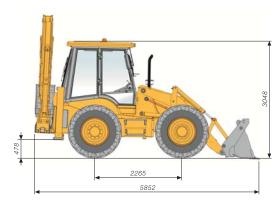




TECHNICAL SPECIFICATIONS...





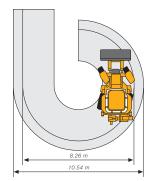












Engine

Manufacturer : PERKINS

Model : 1104C - 44T (New Euro II Green Engine)

: 74.5 kW / 99 HP (ISO/TR 14396) Maximum Power

Maximum Torque : 413 Nm @ 1350 rpm Engine Displacement : 4 4 lt

Number of Cylinders Cylinder Bore : 105 mm : 127 mm Nominal Engine Speed: 2200 rpm

Air Filter : Dual elements, two stage, dry type

Cold Start : Pre-heated

Transmission

• Heavy-Duty type Auto Power Shift Low Speed Gearbox with 4 forward/4 reverse speeds provides high traction power under all conditions.

- Powershift

 Electrically driven speed selector provides quick gear shifting capability to obtain desired speed and force for work.
- 2.64/1 ratio torque converter increases working capacity of the machine.
- Electrical selection for 2-wheel drive or 4-wheel drive.
- Utilizes ECU system that electronically controls forward/reverse drive and speed selection and protects the gearbox from all possible damages such as gear shifting at improper speeds.

Heavy duty type, epicycle rear axle with Limited Slip Differential (LSD) transmits the existing driving torque in higher ratios in soft and broken ground conditions and increases traction. • Max-trac torque proportional front axle provides superior traction in all operating conditions.

- Powertrack Rod steering piston in the front axle.
- The front axle has an oscillation angle of 16° in order to obtain efficient driving, even in the toughest ground conditions.

Road Speeds

With standard tires (16.9/14-28) and in 2200 rpm engine speed

06.14 10.11 22.18 41.93

Brakes

Remotely powered, oil cooled disc brakes provides the machine safety in all conditions.

Friction Area : 26.207 mm²

Maximum Pump Pressure : 250 bars

Hand brake is mechanical type that works on a disc connected to the gearbox drive shaft, to be arrested by brake pads.

Hydraulic system

: Helical gear type tandem pump (43+27 c.c.) with Model

integrated priority valve Maximum Pump Flow : 154 lt/min, (at 2.200 rpm)

- Hydraulic system equipped with 'anti-shock" and ''anti-canvitations'' Valves.
- Unloader valve automatically regulates the main and the auxiliary Pumps for
- Hydraulic system temperature is controlled by oil cooler that is located in front of the water cooler for improved coolling perfomance even under hot climate conditions.
- Oil fitler on the hydraulic fluid return line can trap possible particles over 10 microns.
- \bullet Backhoe and loader control levers are suitably positioned as to provide ease of use to the operator.

Electrical system

Engine is equipped with a 12V DC and 65A alternator, electrical starting motor and

A 135 Ah heavy-duty and low-maintenance type battery is provided. Special IP65 connectors and shrink type protectors are used at all necessary points to provide a rugged and weatherproof harness. Easy- to-access fuse box and relay group located inside the cabin.

Front / Rear Standard

: 16.9/14-28,12 PR

Maneuverability

Turning Diameter (By bucket end) : 10.54 m Turning Diameter (Wheel Track) : 8.26 m

Steering Wheel Travel (No.Turns, Lock-Lock) : 3 3/4 (Full Revolutions)

Loader

Special twist, rear body

 Bucket Capacity : 1.2 m³ Max. Lifting Capacity : 3100 kg

 Maximum Break-Out Force (Bucket) : 7232 kg • Maximum Break-Out Force (Boom) : 5758 kg

Backhoe

- GGG 70 ductile iron backhoe king post.
- Cast Skid.
- Hydraulic skid lock.

• Box profiled skid balancing pedestal.

Max. Bucket Break-Off Power Max. Arm Breakout Force : 3351 kgf Max. Lifting Height : 6228 mm Max. Digging Depth
Max. Horizontal Access Distance : 5250 mm : 6770 mm Turning Ratio · 180° Side Shifting Distance : 1154 mm

Liquid Capacities

Hydraulic System (Including Tank) : 125 l Fuel Tank : 125 l Engine Cooling System : 25.5 l Engine Oil : 10 l Front Axle Differential Oil : 8.5 l Rear Axle Differential Oil : 13 l Front Heads : 1.5 l Rear Heads : 2 x 1.5 l · 13 I Gear box

Weight

: 8750 kg Standard Machine Operation Weight

Optional Equipments

- Air conditioner
- Telescopic Arm Refueling Pump
- Hydraulic Breaker System
- Air Compressor
- SRS
- 165 Ah Battery