

ROAD-BUILDING MACHINERY
AND MUNICIPAL EQUIPMENT



**A FAMILY OF
HARDWORKING
MACHINERY**





ENGINEERING PRODUCTS

JSC Kovrov Electromechanical Plant is a diversified enterprise with impressive production capabilities. One of JSC KEMP's specialization is the manufacturing of multifunctional mini-loaders, frontal loaders, backhoe loaders, hitched and vehicle-mounted lifters (hoisters), hydrostatic transmissions and tractors. Reliability and high quality of KEMP's engineering products is evidenced by international and domestic certificates of conformity.



Ant 750

TECHNICAL SPECIFICATIONS

Operating mass	- 3056/2990/2990 kg
Mass in transportation position without a bucket	- 2990/2840/2840 kg
Standard bucket volume	- 0,46 m ³
Rated loading capacity	- 750 kg
Tipping load	- 1500 kg
Maximum movement speed	- 12 km/h
Gradeability (down)	- 25°
Gradeability (up)	- 18°
Gradeability (transverse slope)	- 12°
Traction force (calculated)	- 18 (20,8) kN
Fuel consumption	- 4,5 l/h

TRANSMISSION:

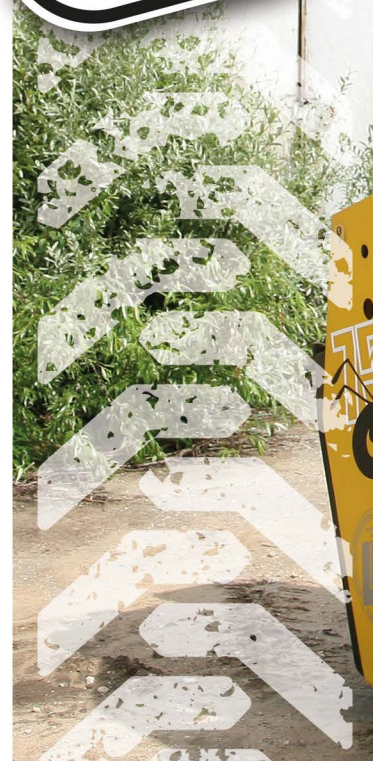
Type of transmission	- Hydrostatic
Drive	- Roller chain with sprockets (oil lubricated) in a sealed chain gear housing. 3 chains from each side
Brakes	- Hydraulic, built in hydraulic motor
Discs	- 9,0" - 15,3" FO
Tyres	- 10/75x15,3

OPERATING ELEMENTS AND MOVEMENT CONTROL:

Type	- Servo control (movement, boom, bucket)
	- Electrical control (additional equipment)

ELECTRICAL EQUIPMENT:

Voltage	- 12 V
Accumulator capacity	- 12 V / 90 Ah
Generator	- 14 V / 65 A
Lights (front/rear working area)	- halogen (2/2 pcs.)





ENGINE



Engine model
Cooling system
Full engine power
Cubic capacity
Number of cylinders
Cylinders arrangement
Crankshaft rotation frequency
Weight

MMZ

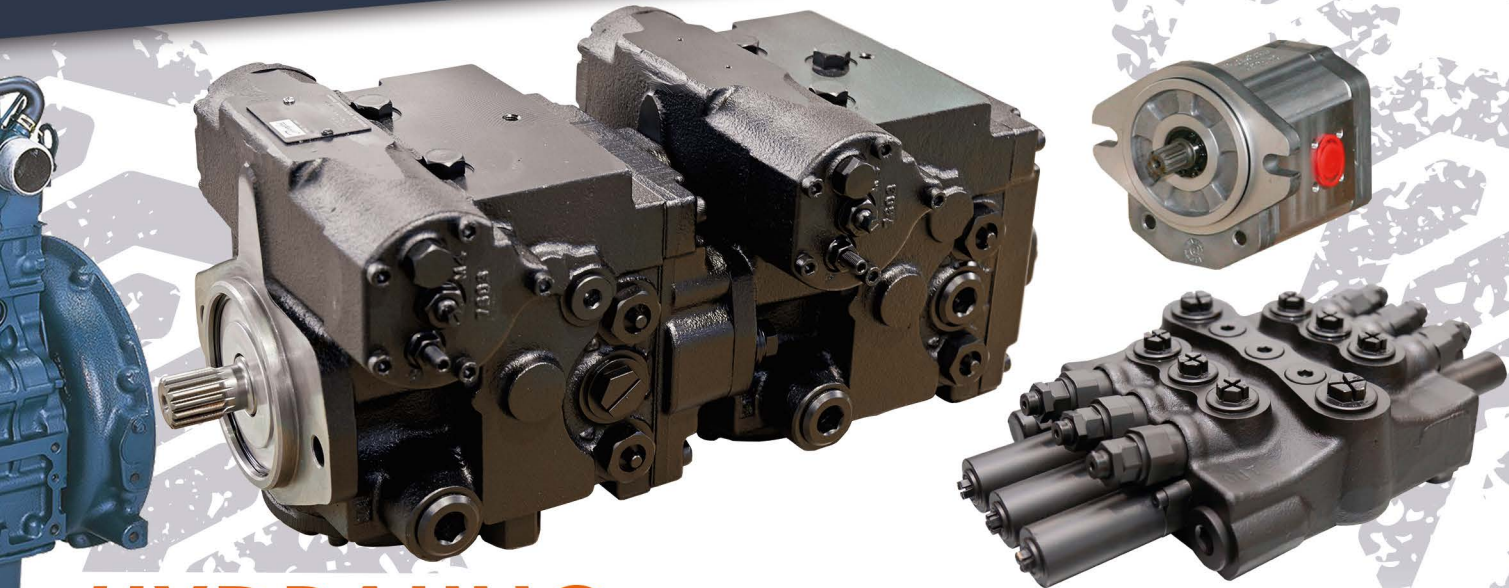
MMZ-4D-01
fluid
36,0 kWt
2,1 l
4
row
2800 rpm
250 kg

PERKINS

404 D-22
fluid
37,3 kWt
2,2 l
4
row
2800 rpm
184 kg

KUBOTA

V2403-M-E3B
fluid
36,5 kWt
2,434 l
4
row
2700 rpm
184 kg



HYDRAULIC SYSTEM

- Pump type - pump installation (tandem)
- Type of hydraulic motors - gerotor motor (2 pcs.)
- Pump type - gear type hydraulic pump
- Distribution valve -3-section type
- Cooling system - from motor fan
- Bucket adjustment function - automatic

Flow
Safety valve pressure

Flow
Safety valve pressure

Flow
Safety valve pressure
Jet action valves pressure

MOTION DRIVE CIRCUIT

- 78 l/min
- 28 MPa

CONTROL CIRCUIT

- 43 l/min
- 2.7 MPa

OPERATING EQUIPMENT CIRCUIT

- 61 l/min
- 18 MPa
- 22 MPa

Ant 1000

TECHNICAL SPECIFICATIONS

Operating mass	- 3510/3360/3450 kg
Mass in transportation position without a bucket	- 3350/3290/3290 kg
Standard bucket volume	- 0,52 m ³
Rated loading capacity	- 1000 kg
Tipping load	- 2000 kg
Maximum movement speed	- 14 km/h
Gradeability (down)	- 25°
Gradeability (up)	- 18°
Gradeability (transverse slope)	- 12°
Traction force (calculated)	- 19 (26) kN
Fuel consumption	- 5,5 l/h

TRANSMISSION:

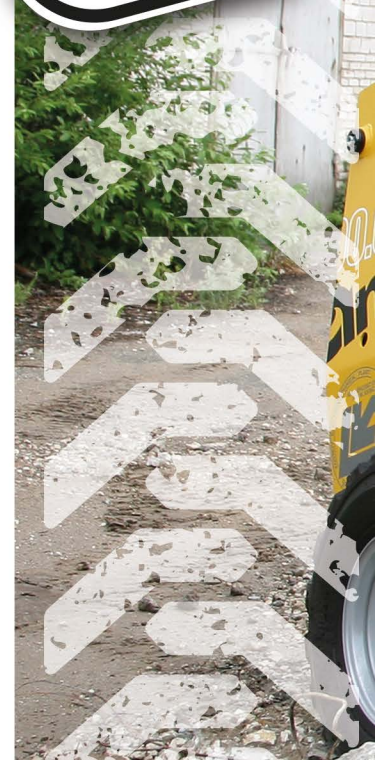
Type of transmission	- Hydrostatic
Drive	- Roller chain with sprockets (oil lubricated) in a sealed chain gear housing. 2 chains from each side
Brakes	- Hydraulic, built in hydraulic motor
Discs	- 9,75" - 16,5"FO
Tyres	- 12-16,5

OPERATING ELEMENTS AND MOVEMENT CONTROL:

Type	- Servo control (movement, boom, bucket)
	- Electrical control (additional equipment)

ELECTRICAL EQUIPMENT:

Voltage	- 12 V
Accumulator capacity	- 12 V / 140 Ah
Generator	- 14 V / 65 A
Lights (front/rear working area)	- Halogen (2/2 pcs)





ENGINE



Engine model	V3300
Cooling system	fluid
Full engine power	54 kWt
Cubic capacity	3,3 l
Number of cylinders	4
Cylinders arrangement	row
Maximum torque	244 Nm (1400rpm)
Cylinders arrangement	row
Weight	246 kg

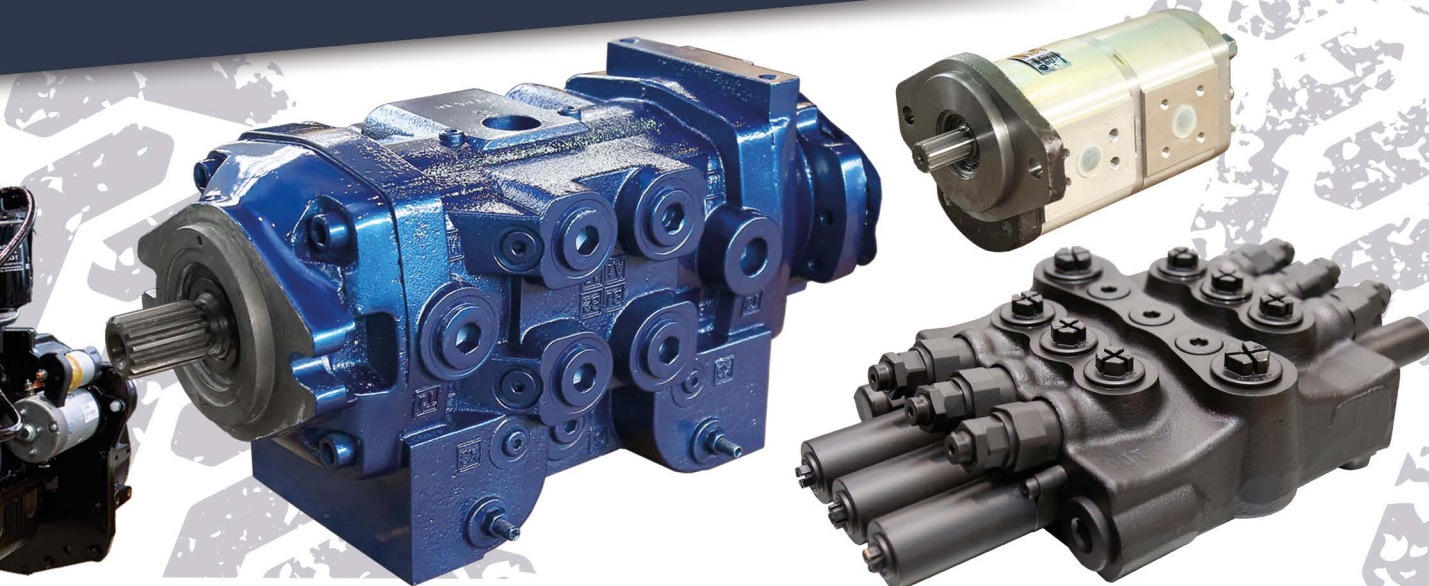
KUBOTA

JOHN DEERE

Engine model	4045DF270
Cooling system	fluid
Full engine power	55 kWt
Cubic capacity	4,5 l
Number of cylinders	4
Cylinders arrangement	row
Maximum torque	283 Nm (1200rpm)
Cylinders arrangement	row
Weight	387 kg

ZMM

Engine model	D-243S2-2778
Cooling system	fluid
Full engine power	60 kWt
Cubic capacity	4 l
Number of cylinders	4
Cylinders arrangement	row
Maximum torque	298 Nm (1600rpm)
Cylinders arrangement	row
Weight	430 kg



HYDRAULIC SYSTEM

Pump type - pump installation (tandem)
 Type of hydraulic motors - gerotor motor (2 pcs.)
 Pump type - gear type hydraulic pump
 Distribution valve -3-section type
 Cooling system -from motor fan
 Bucket adjustment function - automatic

Flow
 Safety valve pressure

Flow
 Safety valve pressure

Flow
 Safety valve pressure
 Jet action valves pressure

MOTION DRIVE CIRCUIT

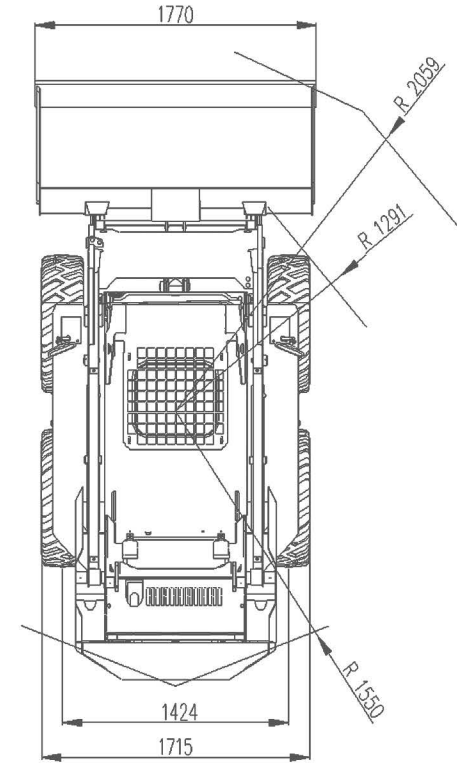
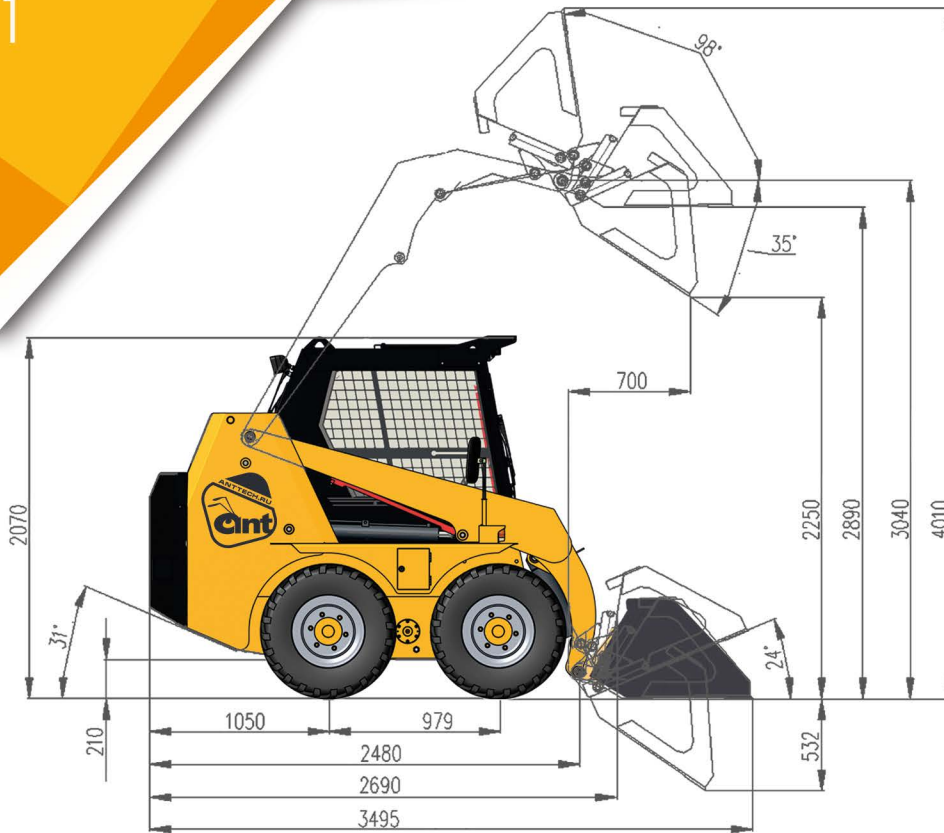
- 115 l/min
 - 3,5 MPa

CONTROL CIRCUIT

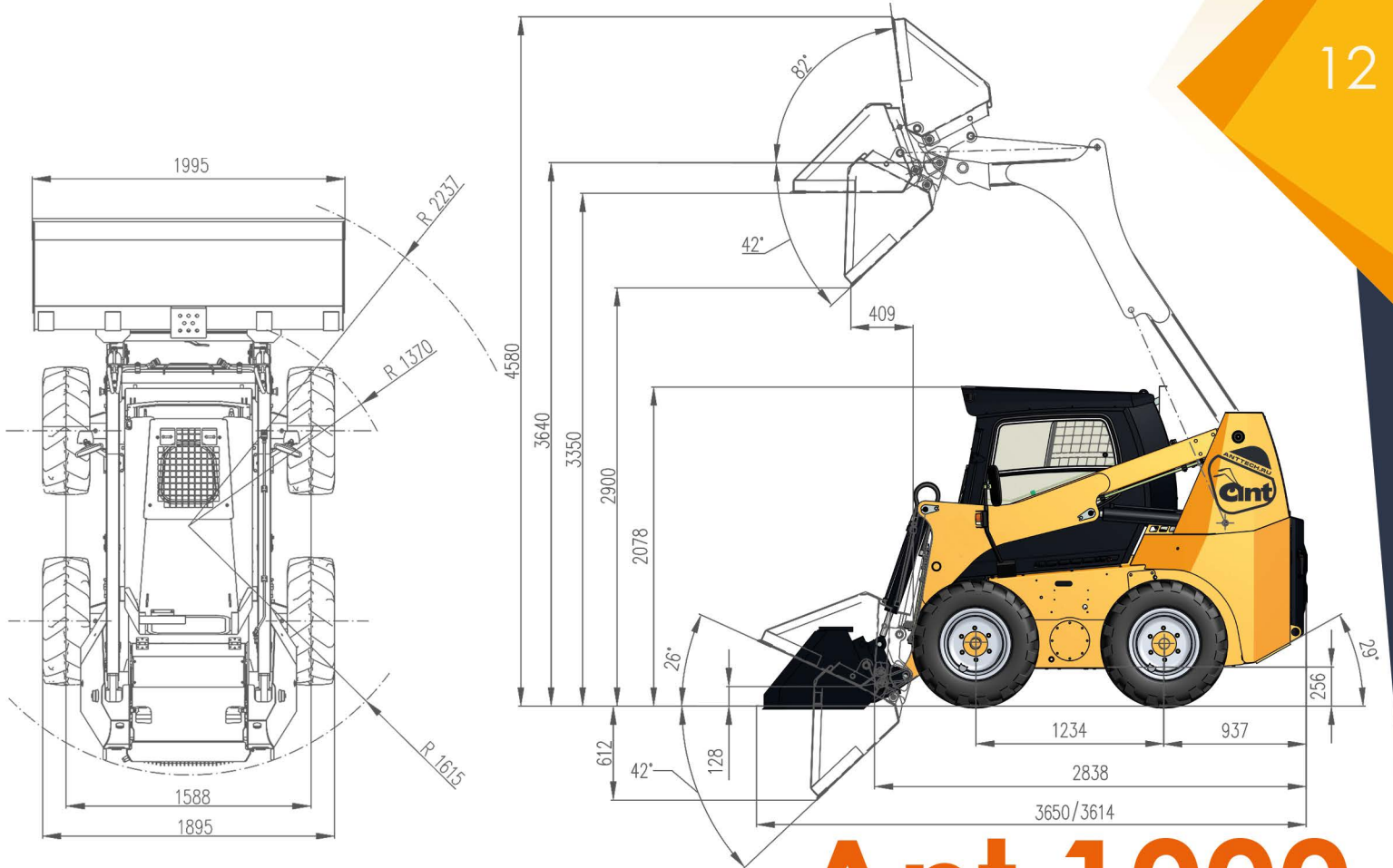
- 55 l/min
 - 2,5 MPa

OPERATING EQUIPMENT CIRCUIT

- 76 l/min
 - 18 MPa
 - 22 MPa



Ant 750



Ant 1000

Ant 1000

ADDITIONAL OPTION

Self-contained "Sleeping Well Oblo Twin" cooler is equipped with double Secop BD350GH compressor, that ensures excellent cooling performances, reaching the power value of 1800 watt. The system is charged with environmentally compatible R134a gas. The cooler is quickly and easily installed in the hatch on miniloader cabin. No specific equipment is required. The cold from the cooler is smoothly distributed throughout the cabin.

CONDITIONER

"Sleeping Well OBLO TWIN" (Italy)

Power supply	- 24 V
Number of fan modes	- 6
Electronic control panel	+
Remote control console	+
Temperature control	+
Timer	+







The variety of attachments allows just one loader to carry out more than 10 tasks, making this machinery universal and multifunctional. Replacing an attachment by another one takes less than a minute* due to the universal system of fasteners.

* - It depends on an operator's mastership



ATTACHMENTS

FOR MULTIFUNCTIONAL MINI-LOADERS





QUARRY BUCKET

Width
Volume
Weight
Number of teeth

1995 mm
0,52 m³
195 kg
10 pcs



FORK CLAMP

Width
Volume
Clamp opening
Entering angle
Number of teeth
Weight

1800/2000 mm
0,35/0,53 m³
750 mm
85°
7-9 pcs
380/440 kg



STANDARD BUCKET

Width	1700/1995 mm
Volume	0,46-0,53 m ³
Weight	180 kg



MOUNTED EXCAVATOR

Bucket volume	0,075 m ³
Digging depth	3200 mm
Loading height	2400 mm
Length with loader	4500 mm
Height with lifted bucket	3100 mm
Weight	860 kg



EXTENDED PALLET FORK

Slide width	1100 mm
Loading capacity	2000 kg
Lifting height	3450 mm
Tow hook length	1200 mm
Weight	160 kg



ANGLED BLADE

Operation control
Operating width
Turning angle
Weight

manual/hydraulic
2000 mm
30°
255/267 kg



DRILLING INSTALLATION

Drilling tool diameter 150/200/300/400 mm
 Hydraulic flow 78 l/min
 Torque 2100 Nm
 Drilling depth 2000 mm
 Weight 130 kg



MOUNTED CULTIVATOR

Width	2000 mm
Cultivation depth	160 mm
Revolution number	100 rpm
Blade number	40 pcs
Operating width	1700 mm
Adjustment type	mechanical
Drive type	hydraulic
Weight	300 kg



HYDRAULIC HAMMER

Hammer length	920 mm
Impact frequency	800-1600 bpm
Hydraulic flow	78 l/min
Oil flow	30-50 l/min
Operating pressure	90-130 bar
Impact power	630 J
Pick diameter	68 mm
Weight	275 kg



WATER-SPRAY BROOM

Broom diameter	550 mm
Turning angle	30°
Weight	220 kg
Tank volume	200 l
Operating width	1800 mm
Operation control	manual



HOPPER BROOM

Broom disc number	47 pcs
Brush diameter	550 mm
Operating width with additional broom	1950 mm
Operating width	1800 mm
Height	1100 mm
Length	1400 mm
Hopper volume	0,5 m ³
Weight (basic configuration)	445 kg
Unladen Weight	525 kg
Add. options	hydraulic wetting, gutter broom





HIGH-PRESSURE WASHING MACHINE

Maximum water consumption	15/30 l/min
Tank volume	300/500 l
Maximum water pressure	20 mPa
Length of high-pressure hose	15 m
Maximum number of nozzles	5/7 pcs
Weight	140/160 kg



CARRYING RAM AND BUCKET

Width
Hydraulic flow
Clamp type
Gripping type
Loading
Weight

1600/1800 mm
25-40/ 35-50 l/min
double, hydraulic
bucket/ram
1500 kg
390/430 kg

Operating pressure
Spreading width
Tank volume
Operation speed
Maximum height
Length
Width
Mass

DEICING AGENT SPREADER

18 MPa
15 m
0,4 m³
6 km/h
1104 mm
1120 mm
1416 mm
230 kg





ROTARY SNOW PLOUGH

Snow throw distance	7 m
Performance	8 t/h
Operating width	1730 mm
Cleaning speed	5 km/h
Width	1796 mm
Length	987 mm
Weight	295 kg



ROAD SCRAPER

Operating width	400 mm
Travel speed	80m/h
Operating depth	100 mm
Operating flow	45-80 l/min
Pressure	16-20 MPa
Cutting teeth number	42 pcs
Mass	520 kg



TRENCH EXCAVATOR

Maximum performance	60 m/h
Trench depth	1200 mm
Trench width	160 mm
Length	2000 mm
Width	1372 mm
Weight	280 kg

Ant 3000

TECHNICAL SPECIFICATIONS

Operating weight (with bucket)	8050 kg
Standard bucket volume	1,5 m ³
Bucket capacity	1,8 m ³
Rated loading capacity	3000 kg
Tipping load	6000 kg
Break-out force by turning bucket	3436 kg
Break-out force by turning boom	2390 kg
Maximum movement speed (forward/reverse)	20/12 km/h
Gradeability (down)	45°
Gradeability (up)	45°
Gradeability (transverse slope)	10°
Traction force (calculated)	66 kH

TRANSMISSION:

Type	- hydromechanical
Drive	- axles
Brakes	- hydraulic, disc, wet
Disks	- 13" – 24"
Tyres	- 405-70R24

OPERATION AND MOVEMENT CONTROL ELEMENTS:

Type	- servo control (movement, boom, bucket)
	- electrical control (additional equipment, bucket stopper)

ELECTRICAL EQUIPMENT:

Voltage	-12 V
Accumulator capacity	- 12/140 V/Ah (2 pcs)
Generator	- 14V /40A
Lights (front/rear working area)	- halogen (2/2 pcs)





Cnt СДЕЛАНО В РОССИИ

Cnt

1000

ENGINE



Engine model

4045HF280

D 245.30 E2

Cooling system

fluid

fluid

Full engine power

74 kWt

110 kWt

Crankshaft rotation frequency

2200 rpm

2200 rpm

Fuel consumption

2,1 l

2,2 l

Maximum torque

228 g/kw h

240 g/kw h

Cubic capacity

4,5 l

4,75 l

Number of cylinders

4

4

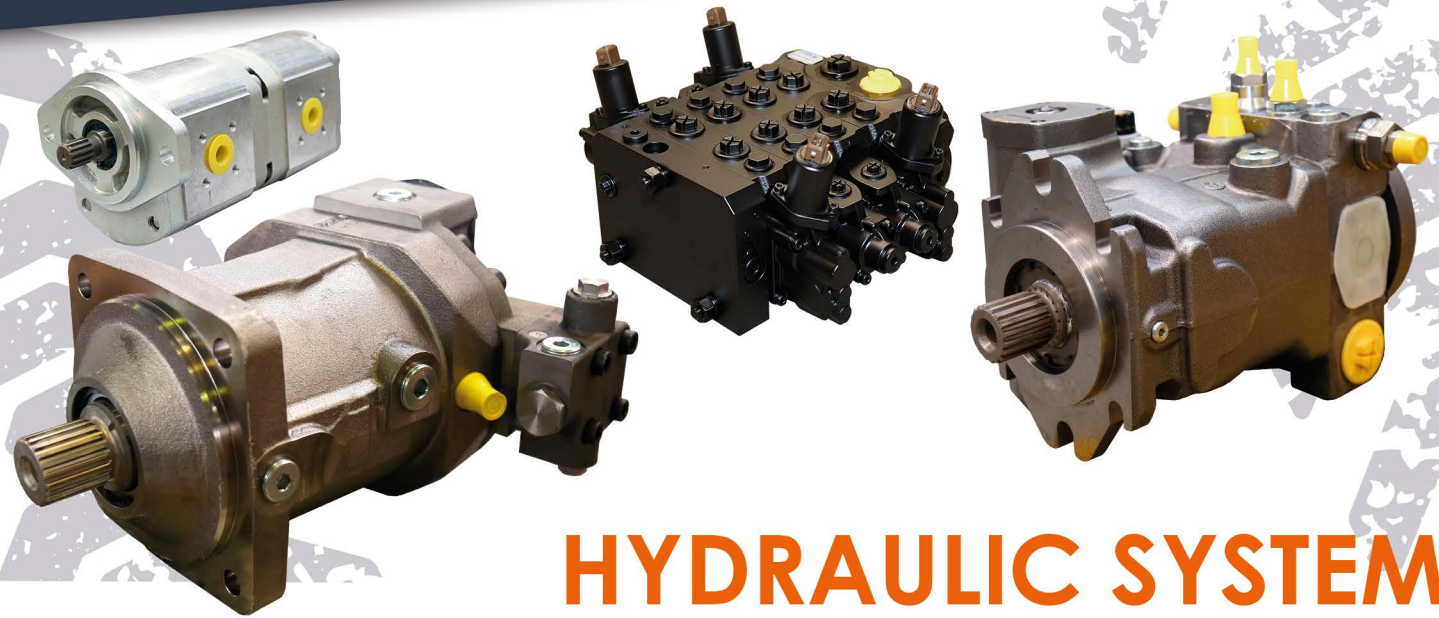
Weight

396 kg

455 kg

JOHN DEERE

MMZ



HYDRAULIC SYSTEM

Pump type - pump installation (tandem)
 Capacity - 156 l/min
 Propel circuit pressure - 44,5 MPa
 Type of hydraulic motors - gerotor motor
 Operating circuit pressure - 18MPa
 Pump type - gear type hydraulic pump
 Distribution valve -4-section type "HYDROCON-TROL"
 Control pressure - 4MPa
 Cooling system -from motor fan
 Bucket adjustment function - automatic

Flow
 Safety valve pressure

Safety valve pressure

Safety valve pressure
 Jet action valves pressure
 Safety valve pressure

MOTION DRIVE CIRCUIT

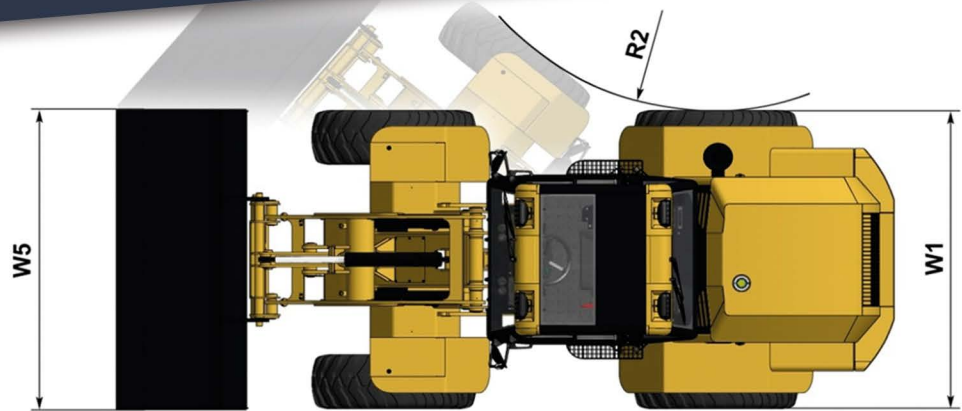
- 156 l/min
 - 44,5 MPa

CONTROL CIRCUIT

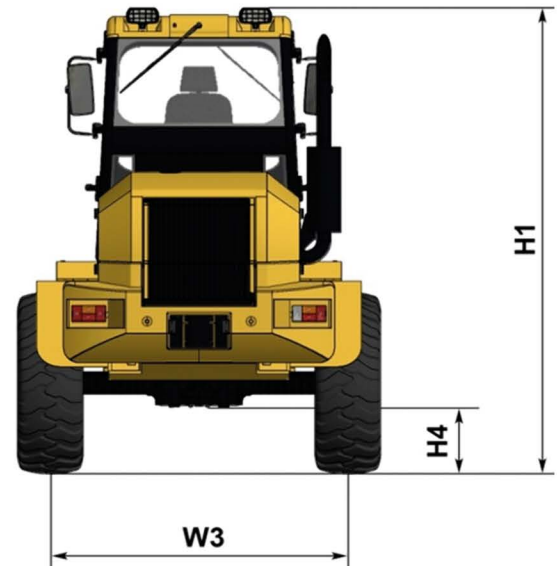
- 4 MPa

OPERATING EQUIPMENT CIRCUIT

Flow - 99 l/min
 - 18 MPa
 - 23 MPa
 - 44,5 MPa

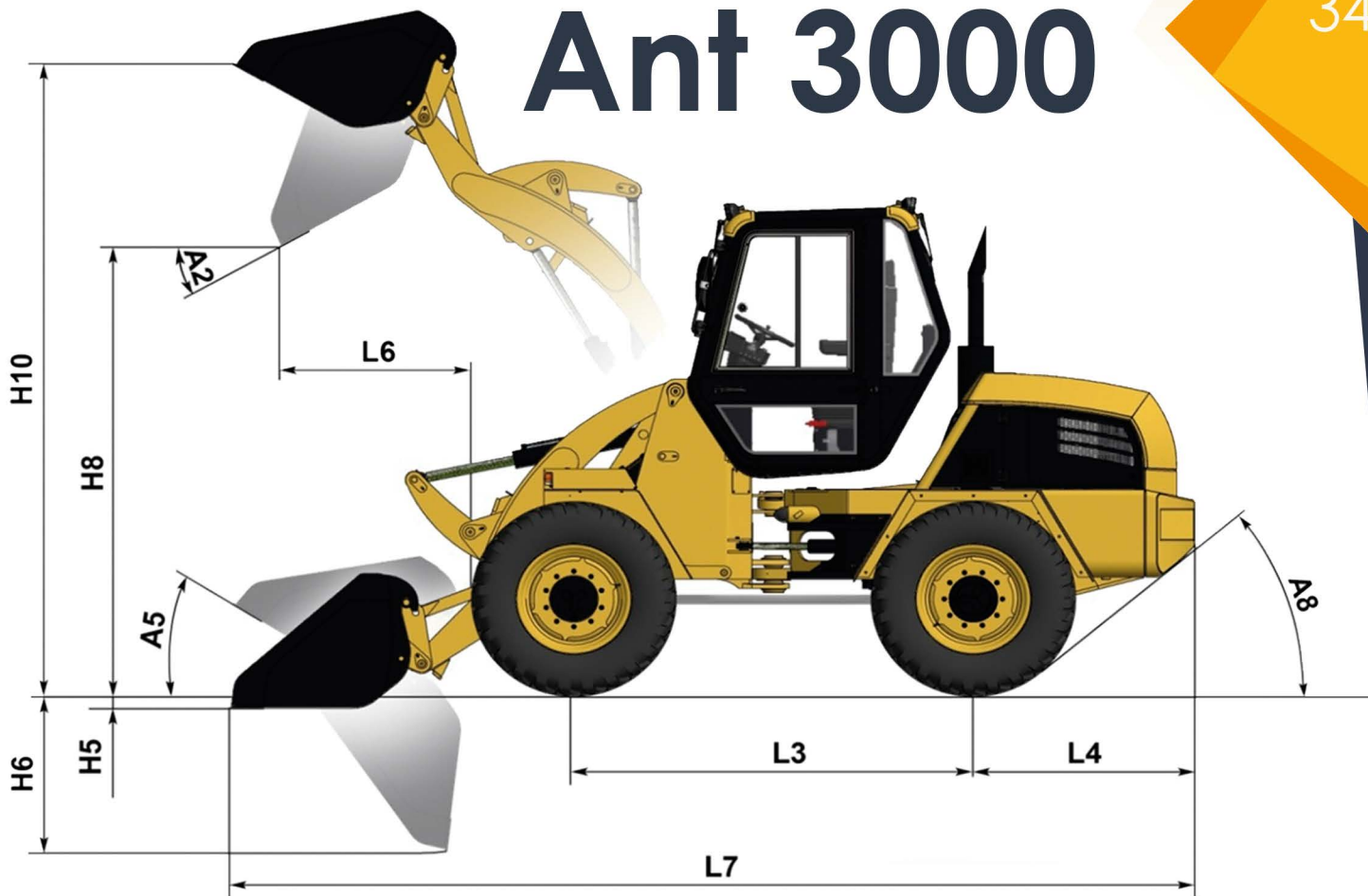


Overall height (H1)	3020 mm
Clearance (H4)	430 mm
Maximum cutting depth (H5)	77 mm
Maximum digging depth (H6)	938 mm
Loading height (H8)	2712 mm
Overall operating height (H10)	3819 mm
Overall width (W1)	2240 mm
Track width (W3)	1830 mm
Width with bucket (W5)	2260 mm
Wheel base (L3)	2300 mm
Rear overhang length (L4)	1275 mm
Horizontal extension at bucket discharge (L6)	1105 mm
Overall length with bucket (L7)	5561 mm
Minimum turning radius (R2)	1895 mm
Bucket discharge angle (A2)	30°
Bucket inclination angle (A5)	32°



OPERATING SPECIFICATIONS

Ant 3000





Ant 4135F



REAR HINGED SYSTEM

Control system of 3-point hitch lifting
3-point hitch category
Hinge system loading capacity
Maximum power of PTO shaft
PTO shaft revolution
PTO shaft end

Electronic, EHR HitchTronic BOSCH
2,3 N
77 kN
82 kW†
540, 1000 rpm
Replaceable, 6- and 21-splined ends – provided in a set
8-splined end (optional)

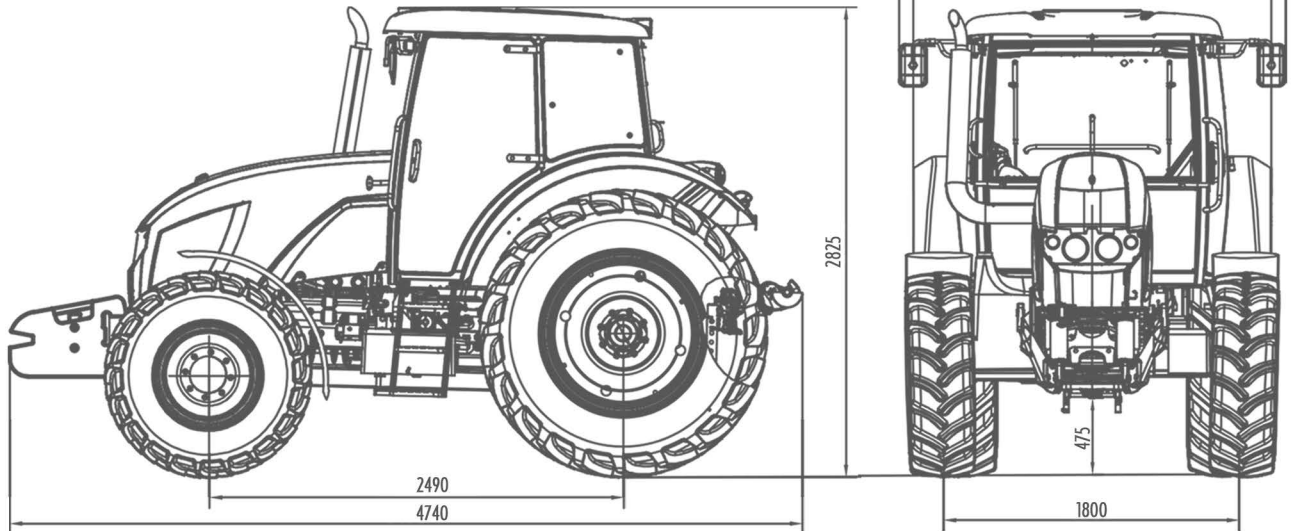
FRONT HINGED SYSTEM (OPTIONAL)

Three-point hitch category
Hinge system lifting capacity
Maximum power of PTO shaft
PTO shaft revolution
PTO shaft end

2
35 kN
60 kW†
1000 rpm
non-replaceable, 6- or 21-splined ends

OPERATING SPECIFICATIONS

Tractor weight without ballast weights	4500 kg
Maximum permissible tractor weight	8000 kg
Maximum weight without front ballast weights	700 kg
Maximum weight of rear ballast weights	350 kg
Turning radius without wheel braking	5,7 m
Minimum track width of front wheels	1590 mm
Maximum track width of front wheels	2040 mm
Minimum track width of rear wheels	1500 mm
Maximum track width of rear wheels	1800 mm
Wheel base	2490 mm
Length	4740 mm
Width	2310 mm
Height	2825 mm
Minimum agro technical clearance	508 mm



Ant 4135F

ENGINE ZETOR 1605

Engine capacity	4,2 l
Number of cylinders	4
Number of valves	16
Turbocharging	•
Charge air cooling unit Intercooler	•
Fuel injection system	mechanical
Starting preheater	•
Specific fuel consumption	240 g/kw h
Rated engine power	100, 2 kWt
Power measurement standard	2000/25/EC
Maximum torque	581 Nm

TRANSMISSION

Drive type	4WD, front axle on demand
Gear box type	mechanical, synchronized with torque multiplier
Clutch type	dry
Number of gears, forward/backward	24/18
4-wheel drive control, on/off	electrohydraulic
Number of gears in the operation speed range	10
Maximum/minimum movement speed	37,9/2,1
Reverse control type	mechanical
Trailer brakes	hydraulic, pneumatic (option)

HYDRAULIC SYSTEM

Hydraulic pump performance	70 l/min
Hydraulic system type	Closed center
Base quantity of hydraulic outlets	6+1
Distribution valve control	mechanical







V-TYPE BLADE

Number of operating positions	4
Operating width	2460/2473/2487 mm
Stacking height (with a set of steel blades)	855 (806) mm
Hydraulic cylinder number	2 pcs
Turning angle of blade plows	± 30°
Control	hydraulic, by electric valve
Lower edge of blade	movable, with rubber and steel blades
Power supply	external hydraulics and electric supply system (12 V) of transport vehicle
Weight without attachment	500 kg





MANIPULATING MOWER

Cutting blades	Y-shaped blades and beaters
Maximum operating width	5920 mm
Number of blades	36/44 (18/22)
Rotor	3100 rpm
Head turning angle	190°
Operating width	100/1200 mm
Blade speed	60 m/sec
Weight	915 kg



Additional information
about ANT products:

- special offers;
- government support;
- optional equipment

on the web site or at the official dealer.

www.anttech.ru

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KOVROV ELECTROMECHANICAL PLANT

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www.kemz.org

Dealer: