

# TOP DOG IN THE DIRT

**M-13K**  
SHORT RADIUS MINI EXCAVATOR



**M-16U**  
ZERO TAILSWING MINI EXCAVATOR



**1800 425 438**  
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## FEATURES

- M-13K is a hydraulic mini excavator with gear pumps
- Its transportation weight is only 1350 Kg so, the M-13K is suitable to be loaded on small trucks or trailers
- Despite of its short slew radius (only 650 mm), the machine can ensure a good working stability
- M-16U is a hydrostatic mini excavator with variable displacement axial piston pump, classified as Zero Tail Swing
- The variable track width (retracted crawler width of 990 mm) provides easy access to very small job sites

## STANDARD EQUIPMENT

- Largest engine power in 1,5 tons category
- Travel levers and servo-controls disabling system by armrest lifting prevents accidents due to unexpected machine movement during entry or exit
- Pilot assisted controls (joy-sticks) to operate arms and buckets
- Canopy according to TOPS, FOPS
- Hydraulic Power Take-Off (P.T.O.)
- For M-13K: standard bucket of 300 mm (SAE capacity lt. 25)
- For M-16U: standard bucket of 400 mm (SAE capacity lt. 36) – two driving speed

## OPTIONAL EQUIPMENT

- Buckets of (mm) 250, 350, 450, 500, standard, for rocks and for Quick Hitches – Bucket for slopes, standard or swivelling
  - Buckets for cleaning – Mechanical or hydraulic quick hitch
  - Hydraulic breaker – Hydraulic drill/rig
- Only for M-16U: Steel Track – Long arm (extra ballast compulsory)\*  
Removable roof to facilitate transport operations

## TECHNICAL DATA

Model	M-13K	M-16U
<b>ENGINE</b>		
Engine Model	KUBOTA D902	
Max power at 3200 rpm (DIN 6271)	HP/Kw	20.4 / 15
Rated horse power at 2400 rpm	HP/Kw	19 / 14
Cylinders	N°	3
Displacement	cm <sup>3</sup>	898
Cooling	Water	
Battery	N°	1 – 12 V – 44 Ah

Model	M-13K	M-16U	
<b>HYDRAULIC SYSTEM</b>			
Hydrostatic transmission with orbital motors and planetary reduction gears with negative brakes			
Travelling counter-balance valves			
N. 2 gear pumps	Lt/min	15x2	
N. 2 variable displacement piston pump + gear pump	Lt/min		22x2+15
Total delivery	Lt/min	30	59
Auxiliary hydraulic flow for P.T.O	Lt/min	30	36
Max working pressure	Bar	180	200 / 180
Slew speed (with orbit motor)	RPM	9.5	11.7
Boom, arm, bucket and slew actuated by servo-controlled joysticks.			
Mechanical levers to control track, pedals to control boom swing and P.T.O.			
Lever to control dozer blade			
Heat exchanger for oil cooling			
<b>UNDERCARRIAGE</b>			
Box section steel frame			
Track type and width	mm	Rubber 200	Rubber 230
Track bearing rollers	N°	3+3 low/guide block	
Track tensioning		adjusting screw	grease
Dozer blade	mm	250x990	250x1295
<b>PERFORMANCES</b>			
Shipping weight	Kg	1350	1530
Operating weight	Kg	1420	1600
Break out force	daN	1200	1605
Digging force	daN	800	895
Travel speed	Km/h	1.8	2.0 / 2.7
Max gradient capacity	Over %	100	100
Specific ground pressure	Kg/cm <sup>2</sup>	0.285	0.276
<b>REFUELLING</b>			
Fuel tank capacity	Lt	20	
Hydraulic oil tank capacity	Lt	19	

## DIMENSIONS & PERFORMANCES (MM)

