

17 Years of Excellence

SOUTHERN AGRO ENGINE PRIVATE LIMITED

SUPER PERFORMANCE

# MANAM KUBOTA POWER TILLER



For Wet  
& Dry Land

SRFMT & TI,  
EMISSION (ARAI)  
& CMVR (BUDHNI) APPROVED

USE ONLY VIJAY VILLIERS GENUINE SPARE PARTS FOR BETTER PERFORMANCE AND LONG LIFE

Powered By  
KUBOTA



Technical Collaboration with  
Villiers Limited, U.K.

**Tough, Durable  
Powerful  
Responsive  
with High  
Fuel Efficiency  
Diesel Engine**



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# MANAM KUBOTA TECHNICAL SPECIFICATION

## POWER TILLER / ROTARY TILLER SPECIFICATION

<b>Model</b>	MCF121 / 2 Wheeled Walking Power Tiller / Rotary Tiller
<b>Specification</b>	Chasis with Single Cylinder Diesel Engine, Power / Rotary Tiller,(Optional-Cage Wheel)
<b>Dimensions in mm(LxWxH)</b>	2795x960x1250
<b>Ground Clearance (mm)</b>	174 mm
<b>Weight in use (Chassis,Oil,Plough) (Kg)</b>	400 kg
<b>Theoretical Speeds (Km/hr)</b>	Rotation speed of Engine 2400 r/min Forward: 1.40/2.50/4.10/5.30/9.40/15.30 Reverse: 1.00/3.80
<b>Clutch</b>	Double Friction Flat of Constant Combination
<b>Steering gear</b>	Meshing sleeve
<b>Brake</b>	Inside Expansion
<b>Tyre</b>	6PR 6.00 X12
<b>Min. turning radius (m)</b>	0.9m (without rotavator)
<b>Rotary Shaft Speed</b>	188 rpm

### ENGINE SPECIFICATION

### KUBOTA

<b>Model</b>	RT - 120 Plus
<b>Type</b>	Horizontal water-cooled, 4 Stroke, Diesel Engine
<b>Number of cylinder</b>	1
<b>Bore x Stroke (mm)</b>	94 mm x 90 mm
<b>Displacement (cc)</b>	624 cc
<b>* Max output (hp /kw @ rpm)</b>	12hp / 8.8 kw @2400 rpm
<b>* Rated output (hp /Kw @ rpm)</b>	10.5hp / 7.72 kw @ 2400 rpm
<b>* Specific fuel consumption</b>	0.25 Kg/Kw.hr
<b>Compression ratio</b>	21:1
<b>Max.torque (Kg-m/rpm)</b>	4.0/1600 (Kg-m/rpm)
<b>Fuel tank capacity (Lts.)</b>	11 (Lts)
<b>Crankcase Oil capacity (Lts.)</b>	2.8 (Lts)
<b>Fuel</b>	Light Diesel Oil
<b>Lubricating Oil</b>	SAE 20W40
<b>Combustion system</b>	Spherical Combustion System (Swirl Chamber)
<b>Cooling system</b>	Water Cooled
<b>Lubrication system</b>	Forced Lubrication with trochoid pump
<b>Air cleaner type</b>	Oil Bath
<b>Starting system</b>	Speed doubling handle by hand / Electrical motor system for ES (optional)
<b>Lamps</b>	12v, 30Amp
<b>Direction of revolution</b>	Counter-clockwise facing fly wheel
<b>Dry weight (Kgs).</b>	110 Kgs

\* HPs & Kws indicated are valid for fully run in engines fitted with standard air cleaner and standard exhaust silencer.

The Maximum HP is guaranteed with a tolerance of 5%. The HP must be derated for ambient conditions as per the relevant standard.

### Dealer

Manufactured & Marketed By:

# Southern Agro Engine Pvt Ltd

#24A, III Phase, Industrial Estate, Guindy, Chennai - 600 032, INDIA.

Phone:044-22500378 / 22501325 / 22500133 / 22501134.

E-mail: sales@southernagro.com, Website: www.southernagro.com

OUR BRANCHES : BANGALORE / KOLKATA / BHUBANESWAR / RAIPUR / GUNTUR / RANCHI

PRODUCT SPECIFICATIONS

Power tiller model		PEM-140DI	
Engine	Model name	RT140DI-EM	
	Type	4-Cycles, horizontal piston, water cooled, direct-injection diesel engine	
	Bore x Stroke	97 x 96 mm	
	Cylinder displacement volume	709 cm <sup>3</sup>	
	Rated Maximum output	PS/rpm [kW/rpm]	
	Rated Continuous output	PS/rpm [kW/rpm]	
	Specific Fuel Consumption (Average value at continuous output)	g/PS-h [g/kW-h]	
	Maximum Torque	kg-m/rpm [N-m/rpm]	
	Fuel tank capacity	Liters	
	Engine oil grade/volume	SAE30 or SAE10W-30, SAE40 or SAE15W-40 / API CF or above/ 2.8 Liters	
	Starting system	Hand cranking with handle (double speed ratio)	
	Cooling system	Pressurized radiator, crankshaft driven cooling fan	
	Safety cover	Flywheel cover and muffler heat shield	
Chassis and Transmission	Engine pulley outside diameter	mm	
	Weight (dry)	kg	
	Model name	PEM480-IN	
	Power transmission system	Engine to main clutch	3 V-belts (Belt section: B, Length: 78 in)
		Main clutch to wheel axle	Gear
	Traveling speed step	Main clutch to PTO	Gear (dependence with traveling sub-speed shift)
		Main speeds shift	3 forwards, 1 reverse
	Transmission oil grade / volume	Sub-speeds shift	2 ("H" / "L")
		Total possible speeds	6 forwards, 2 reverses
	Main clutch	SAE90 / API GL-4 / 7.5 - 8 Liters	
	Steering clutch	Dry multi-plate type	
	Brake	bolt-on Internal gear insert type (14 teeth)	
	Tires	Internal expansion shoe and drum type	
Wheel track width	7.0-16 (Rolling Diameter 71 cm)		
Belt cover	mm		
Weight	800-950		
Rotary	Model	Rotary Tiller (RP80M-IN)	
	Transmission Structure	Centre Drive by gear + chain	
	Number of Rotary speed	2	
	Number of tilling blade	20	
	Tilling width	CM	
Weight	Rubber tires	kg	
	Paddy Wheel	kg	

Calculated according to our criteria. The actual capacity you achieve may be different. The specifications, information, and appearance of the machines herein are subject to change without notice.

Kubota Agricultural Machinery India Pvt. Ltd.

No.15, Medavakkam Road, Sholinganallur, Chennai - 600 119, Tamilnadu, India. Website : www.kubota.co.in

KUBOTA POWER TILLER

PEM 140DI

Kubota



POWER MEETS VERSATILITY



- \*Engine : Warranty for 3 years.
- Body and Rotary : Warranty for 2 years
- Lifetime Warranty for Transmission Case only

COVER-BACK

COVER-FRONT

KUBOTA POWER TILLER

PEM 140DI

When power meets versatility

1. Fast Working with KUBOTA Engine & Wider Rotary Width

Equipped with KUBOTA RT140DI-EM which is very powerful and capable of working continuously in high rpm and the attached 80 cm width rotary helps spread power in soil pulverization.

2. Less Fuel Consumption

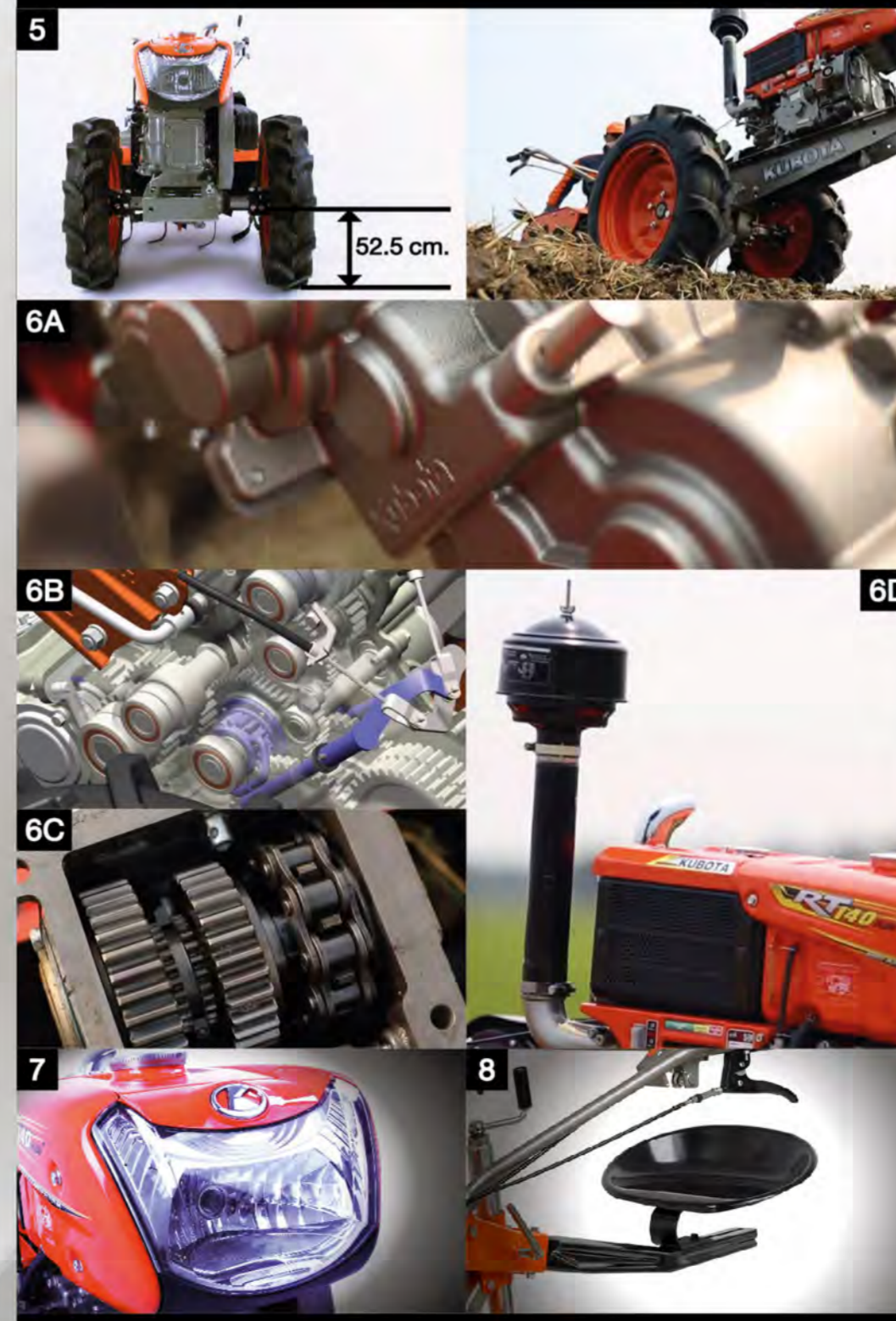
Direct injection system of KUBOTA RT140DI-EM diesel engine causes a high-energy explosion that pushes the piston down with force. This results in improved fuel economy and extended operating hours of heavy duty performance.

3. Deeper Tilling Depth

The mixed-curve blades of rotary can till the soil deeper up to 12 cm in dry field and up to 15 cm in wet field and they can work well in both wet and dry field without necessity to change the blades.

4. Better Land Optimizing

Due to its 80 cm wider tilling width, KUBOTA PEM140DI can work very well in limited space such as near paddy ridge, leaving only 3.25 cm width space from the ridge. The operator is able to optimize the land space as much as desired.



5. Easy Ridge Crossing with Higher Ground Clearance

With 52.5 cm ground clearance, it makes KUBOTA PEM140DI easier to cross the ridge. Besides, the power tiller can also operate very well in mire and high water-clogged field due to its high clearance.

6. High Durability with Low Maintenance Cost

A : The transmission case is made of ductile cast iron, providing high resistance to collision and lifetime warranty is also provided by KUBOTA on the transmission case.

B : The patented internal gear type steering clutch is detachable and reversible. The operator can reverse side of the clutch when one is worn out.

C : The big size of chain and the fully-sealed type bearing that protects a metal chip inside would extend the useful life of the power tiller as well.

D : The air cleaner adaptor in KUBOTA RT140DI-EM will protect the air cleaner from dust and mud splash and filtrate the air delivered to the combustion chamber, resulting in erosion, reduction, cleaner combustion and longer useful life of the engine.

7. Better Visibility with Multi-Reflector Headlight

The new design of the headlight provides long range illumination and better working visibility for the operator.

8. Comfort Working with Attachable Seat (Optional)

With attachable seat equipped with patented coil spring shock absorber, the operator is able to work continuously with greater comfort.