

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**



www.southernagro.com

MANAM KUBOTA TECHNICAL SPECIFICATION

POWER TILLER / ROTARY TILLER SPECIFICATION

Model	MCF121 / 2 Wheeled Walking Power Tiller / Rotary Tiller
Specification	Chasis with Single Cylinder Diesel Engine, Power / Rotary Tiller, (Optional-Cage Wheel)
Dimensions in mm(LxWxH)	2795x960x1250
Ground Clearance (mm)	174 mm
Weight in use (Chassis, Oil, Plough) (Kg)	400 kg
Theoretical Speeds (Km/hr)	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
Clutch	Double Friction Flat of Constant Combination
Steering gear	Meshing sleeve
Brake	Inside Expansion
Tyre	6PR 6.00 X12
Min. turning radius (m)	0.9m (without rotavator)
Rotary Shaft Speed	188 rpm

ENGINE SPECIFICATION

KUBOTA

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

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

PRODUCT SPECIFICATIONS

Power tiller model		PEM-140DI
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	cm ³	709
Rated Maximum output	PS/rpm [kW/rpm]	13 / 2400 [9.56 / 2400]
Rated Continuous output	PS/rpm [kW/rpm]	13 / 2400 [9.56 / 2400]
Specific Fuel Consumption (Average value at continuous output)	g/PS-h [g/kW-h]	185 [252]
Maximum Torque	kg-m/rpm [N-m/rpm]	4.4 / 1600 [43.1 / 1600]
Fuel tank capacity	Liters	11
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
Engine pulley outside diameter	mm	120
Weight (dry)	kg	100
Model name		PEM480-IN
Power transmission system	Engine to main clutch Main clutch to wheel axle Main clutch to PTO	3 V-belts (Belt section: B, Length: 78 in) Gear Gear (dependence with traveling sub-speed shift)
Traveling speed step	Main speeds shift Sub-speeds shift Total possible speeds	3 forwards, 1 reverse 2 ("H" / "L") 6 forwards, 2 reverses
Transmission oil grade / volume		SAE90 / API GL-4 / 7.5 - 8 Liters
Main clutch		Dry multi-plate type
Steering clutch		bolt-on internal gear insert type (14 teeth)
Brake		Internal expansion shoe and drum type
Tires		7.0-16 (Rolling Diameter 71 cm)
Wheel track width	mm	800-950
Belt cover		Full cover type
Weight		116
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	80
Rubber tires	kg	348
Paddy Wheel	kg	331

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



FAMCO
هایپر صنعت

**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

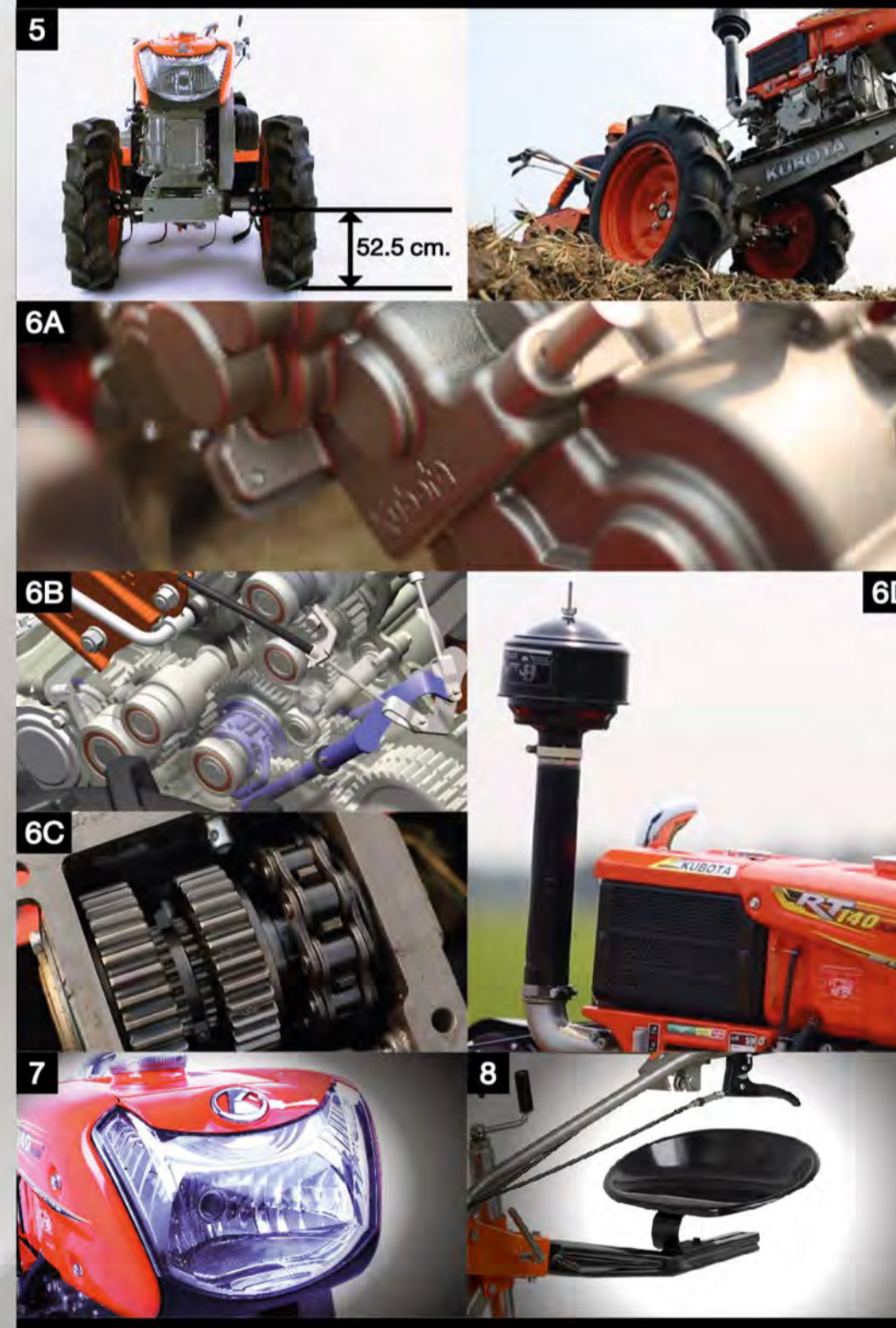
Direct injection system of KUBOTA RT140DI-EM diesel engine causes a high-energy explosion that pushes the piston down with force. This results in improved fuel economy and extended operating hours of heavy duty performance.

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.

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