

Specification
KUBOTA Diesel Engine

Model	TVCS Series					DI Series				
	RT80-M	RT90-M	RT100	RT110	RT120 / RT120-ES	RT100DI	RT110DI	RT125DI / RT125DI-ES	RT1140DI / RT140DI-ES	RT155DI / RT155DI-ES
Type	Water-Cooled 4-Stroke Horizontal-Reciprocating Diesel Engine									
No. of Piston, unit	1									
Cylinder Bore x Stroke	84 X 84	86 X 84	88 X 90	92 X 90	94 X 90	88 x 90	92 x 90	94 x 96	97 x 96	100 x 98
Displacement Volume	465	487	547	598	624	547	598	666	709	770
Maximum Power	8/2,400 (5.88 kW/2,400)	9/2,400 (6.62 kW/2,400)	10/2,400 (7.35 kW/2,400)	11/2,400 (8.09 kW/2,400)	12/2,400 (8.83 kW/2,400)	10/2,400 (7.35 kW/2,400)	11/2,400 (8.09 kW/2,400)	12.5/2,400 (8.19 kW/2,400)	14/2,400 (10.30 kW/2,400)	15.5/2,400 (11.4kW/2,400)
Continuous Rated Power	7/2,400 (5.15 kW/2,400)	8/2,400 (5.88 kW/2,400)	9/2,400 (6.62 kW/2,400)	9.5/2,400 (6.99 kW/2,400)	10.5/2,400 (7.72 kW/2,400)	9/2,400 (6.62 kW/2,400)	9.5/2,400 (6.99 kW/2,400)	11/2,400 (8.09 kW/2,400)	12.5/2,400 (8.19 kW/2,400)	13.5/2,400 (9.92 kW/2,400)
Specific Fuel Consumption at Continuous Rated Power	264	265	269	269	269	269	269	240	240	240
Compression Ratio	23 : 1					21 : 1				
Valve Clearance	0.160-0.200					0.195-0.235				
Max Torque	2.8/1,600	3.0/1,600	3.4/1,600	3.9/1,600	4.1/1,600	3.4/1,600	3.9/1,600	4.7/1,600	5.0/1,600	5.4/1,600
Combustion System	TVCS (Three Vortex Combustion System) /In-Direct Injection with Pre Combustion Chamber					Direct Injection				
Cooling Water Capacity	1.6					2.1				
Fuel Tank Capacity	11					11				
Lubricating Oil Capacity	2.4					2.8				
Fuel Type/Grade	Light Diesel Oil (SAE No.2-D)									
Lubricating Oil Grade	SAE 30 or SAE 40, API CF									
Cooling System	Pressurized Water-to-Air Radiator with Crankshaft driven Cooling Fan									
Lubricating System	Pressurized Circulating with Trochoid Pump									
Air Cleaner Type	Wet-Type (Oil Bath-Type)									
Starting System	Hand Cranking at 2 times speed ratio/ Electric Motor Starter (-ES)									
Rotation Direction of Crankshaft	Anti-Clockwise when Viewed Toward Flywheel									
Electrical system	Permanent Magnet Alternator [45W / 75W(-ES)] Built-in in Cooling Fan Assembly									
Lighting system	Multi-Reflector Head Lamp with 12V/32W bulb and voltage regulator									
Accessories	1 x Bottle of Lubricating Oil (3 liters), Tool bag (2 x Spanner, 1 x Screw Driver, 1 x Block Wrench)									
Dry Weight	88	103 / 110 (-ES)	108 / 110 (-ES)	109 / 111(-ES)	104 / 111(-ES)	109 / 111(-ES)	109 / 111(-ES)	109 / 111(-ES)	109 / 111(-ES)	109 / 111(-ES)
Dimension Width X Length X Height	358 X 753 X 465	370 X 812 X 487		370 X 812 X 487	370 X 821 X 487	370 X 821 X 520		370 X 824 X 520 (-ES)		
Gross weight	107	118 / 125	123 / 125 (-ES)	124 / 126 (-ES)	119 / 126(-ES)	124 / 126(-ES)	125 / 127(-ES)	125 / 127(-ES)		
Packaging Dimension, WxLxH	429 x 834 x 611	429 x 834 x 611		429 x 884 x 648		429 x 884 x 648		429 x 884 x 648		
Battery (-ES Models Only)	12 Volt Battery (Minimum 30 amperes-hour/Ah)									

*Specifications are subject to change without prior notice

Specification
TRA CHANG Power Tiller

		NC Plus X
Dimension (with cage wheel)	Width (Min/Max)	1,050 / 1,200 mm.
	Length	2,960 mm.
	Height	1,220 mm.
Engine pulley diameter		140 mm (5.5 inches)
Power tiller pulley diameter		180 mm (7 inches)
Cage wheel diameter		800 mm.
Hitch hole diameter		26 mm.
Transmission belt		1,981 mm (78 inches)
Brake system		Drum brake
Clutch system		Dry multi-plates clutch
Gear Oil		SAE No.90
Gear Oil capacity		5.5 – 6 litre
Max speed (with tire size 7.50-16)		34.5 km/h
Gear ratio (between power tiller's clutch pulley and wheel axle)	1 st	44:1
	2 nd	23:1
	3 rd	8:1
	Reverse	56:1
	Net weight (excluding engine)	
Engine horse power		8-15.5 PS

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KUBOTA Diesel Engine *RT155 PLUS+ THUNDER X*

TRA CHANG Power Tiller *NC PLUS X*



Durability meets Maneuverability

MORE DURABLE...

MORE FUEL SAVING

Fuel Saving



Multi-holes fuel injector

Precisely manufactured fuel injector with fine multi-holes cooperate with high pressure injection pump, therefore it can attain injection pressure up to 220 bar making injected fuel better splits into fine droplet and widespread to mix with air in every spot inside combustion chamber. It leads to complete combustion, reduces air pollution and saving fuel consumption.

Durable with



Special harden crank shaft

Special harden crankshaft at crank pin fillet area with induction hardening process which technically called R-induction hardening. Making strength up 30% compare to ordinary crankshaft with out crank pin fillet hardening and can endure high explosion force transfered from piston and high torque from heavy duty work as well.

Durable Transmission Case



Transmission case is made of special cast iron (SCI : registered trademark by KUBOTA), provide high ductility, high durability to impact or collision, stronger than normal cast iron.