

# SHIBAURA

COMPACT TRACTOR

ST318

ST321

ST324

ST329

ST333



# SHIBAURA SOMETHING

## SHIBAURA COMPACT DIESEL ENGINE -THE ONE YOU CAN TRUST

### Environment-Friendly

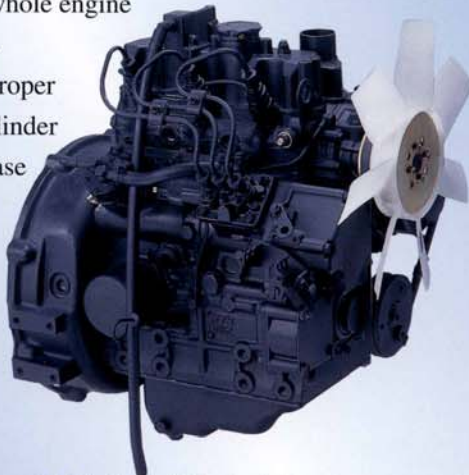
The Shibaura diesel engine mounted on the ST-series tractor is surely environment-friendly. It meets the US EPA Tire-1 which is recognized as one of the toughest emission criteria in the world at present. Besides, the engine design takes the EU DGXI Stage 2 emission regulation into account.

In order to satisfy upcoming emission control regulations, Shibaura will design its diesel engine to achieve better combustion efficiency, emission and less fuel consumption.

### Low Noise and Low Vibration

The Shibaura diesel engine realizes low noise and low vibration in the whole engine revolution range.

The engine has proper rigidity of the cylinder block and gear case cover, which helps reducing its mechanical and combustion noise.



### Compact and Light-Weight

Applying Finite Element Method(FEM)for structural analysis, Shibaura designs its diesel engine to be compact and light-weight on the basis of the appropriate balance of rigidity, strength, and weight.

### Easy Maintenance

The Shibaura diesel engine is ideal when it comes to easy maintenance.

On one side of the engine, you can check the oil level, replace the oil filter and complete some other necessary maintenance.

### ELEGANT & SLEEK APPEARANCE

- ✓ Beautiful round shape body with Shibaura red color

### EASY & PLEASANT OPERATION

- ✓ Simple but well organized instrument panel
- ✓ Levers neatly located on fenders
- ✓ Horizontal moving acceleration lever
- ✓ Push/Pull 2WD/4WD switch lever
- ✓ Power assisted steering
- ✓ Hydraulic Transmission (for HST Model only)
- ✓ Electronic cruise control (for HST Model only)



### ULTIMATE SAFETY

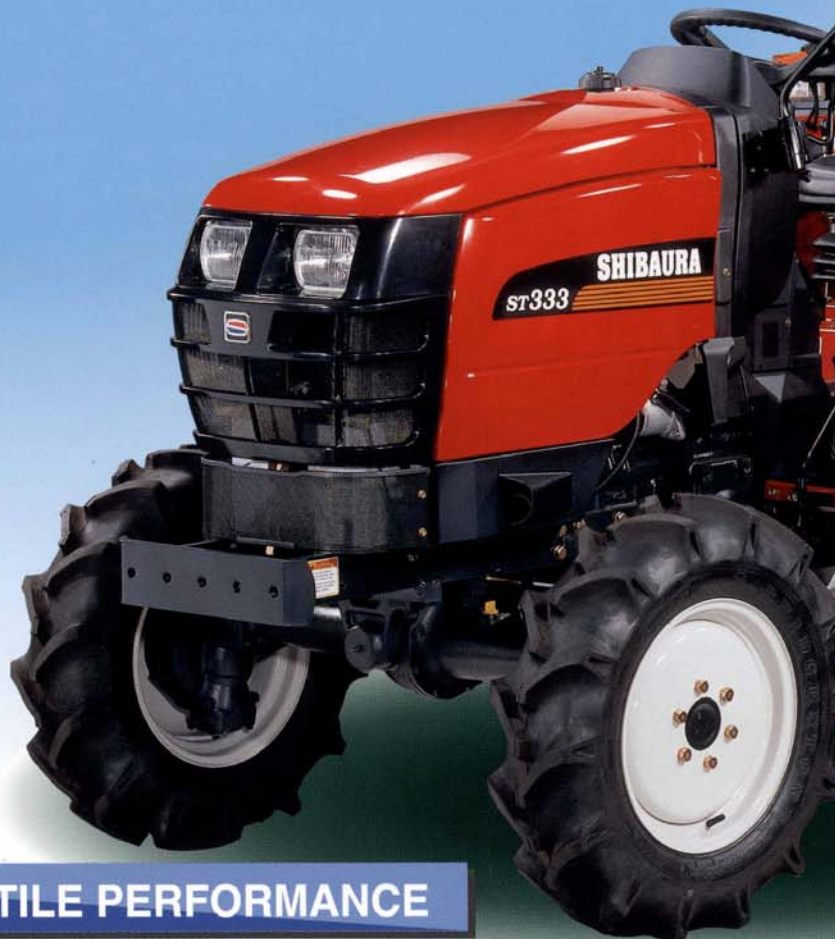
- ✓ Safety lock feature ensuring you to get the engine started only with the PTO & SPEED lever in neutral
- ✓ Two post foldable ROPS

### CLEAR VIEW FROM OPERATORS SEAT

- ✓ No obstruction ahead from operators position with the muffler located inside the bonnet.

# SHIBAURA BRAND-NEW ST SERIES IMPRESSING YOU CAN NOT LEAVE BEHIND

Being substituted for the long-seller  
Shibaura S-series compact tractors,  
the brand-new value conscious ST series  
is now arriving at field,  
impressing you with the sophisticated design  
and state-of-the-art technology.



## POWERFUL & VERSATILE PERFORMANCE

- ✓ Four Wheel Drive
- ✓ Efficient Diesel Engine
- ✓ Category 1 three point hitch
- ✓ Single/Double acting remote valve (Option)
- ✓ Hydraulic outlet on the right hand side of the tractor
- ✓ Mid/Rear PTO (Option)
- ✓ Mid-Mount rotary mower (48/60 inch side discharge as option)



Mid-Mount Rotary Mower

# RIES BEHIND



**ST318**  
18.5hp (13.8kW)  
MECH/HST



*Agricultural Tire Type*



*Turf Tire Type*

**ST321**  
21.0hp (15.7kW)  
MECH/HST



*Agricultural Tire Type*



*Turf Tire Type*

**ST324**  
24.0hp (17.9kW)  
MECH/HST



*Agricultural Tire Type*



*Turf Tire Type*

**ST329**  
29.0hp (21.6kW)  
MECH/HST



*Agricultural Tire Type*



*Turf Tire Type*

**ST333**  
33.0hp (24.6kW)  
MECH/HST



*Agricultural Tire Type*



*Turf Tire Type*

## EXCELLENT ACCESSABILITY & MAINTENANCIBILITY

- ✓ Flip up bonnet & side guard
- ✓ Easy radiator screen removal
- ✓ Dual air cleaner elements

## SPECIFICATIONS

TRACTOR MODEL		ST318		ST321		ST324	
Drive		4WD		4WD		4WD	
Transmission type		MECH	HST	MECH	HST	MECH	HST
<b>Engine (Diesel)</b>							
Model		S753		S773		S773L	
Engine gross power *1		hp(kW)	18.5(13.8)	21(15.7)	24(17.9)		
No. of cylinders		3		3		3	
Total displacement		cc(cu.in.)	954(58.2)	1,005(61.3)	1,131(69.0)		
Rated speed		rpm	2,600	2,600	2,600		
Battery		V-A	12-36	12-36	12-36		
Alternator		A	40	40	40		
Fuel tank capacity		litre (US gal.)	20(5.3)	20(5.3)	20(5.3)		
<b>PTO</b>							
Type		Trans.w/ one way clutch	Live	Trans.w/ one way clutch	Live	Trans.w/ one way clutch	Live
Rear PTO power *1		hp(kW)	15(11.2)	14(10.4)	17(12.7)	16(11.9)	18(13.4)
Rear PTO rated speed (@ 2,600rpm Engine Rated Speed)		rpm	588	561	588	561	588
Mid PTO rated speed (@ 2,600rpm Engine Rated Speed)		rpm	Opt. (2,139)	2,040	Opt. (2,139)	2,040	Opt. (2,139)
<b>Hydraulic</b>							
Lift control type: Position		Standard		Standard		Standard	
Max. Lifting Capacity		kg(lb.)	669(1,474)	669(1,474)	669(1,474)		
Draft		NA		NA		NA	
3-point hitch, Category -1		Fixed Drawbar	Standard		Standard		Standard
<b>Traveling System</b>							
Steering		Power Steering		Power Steering		Power Steering	
Brake		Wet Disk		Wet Disk		Wet Disk	
Clutch		Dry, Single		Dry, Single		Dry, Single	
<b>Standard Tire Size</b>							
Agricultural	Front	5-12		6-12		6-12	
	Rear	8-16		9.5-16		9.5-16	
Turf	Front	20×8.00-10		20×8.00-10		20×8.00-10	
	Rear	29×12.00-15		29×12.00-15		29×12.00-15	
<b>Traveling Speed-Speed Range (at rated engine speed)</b>							
Forward		g	High & Low (2-range)	g	High & Low (2-range)	g	High & Low (2-range)
	First	km/h(mph)	1.08(0.67) 0~5.78(0~3.61)	1.15(0.72) 0~5.78(0~3.61)	1.13(0.71) 0~5.78(0~3.61)		
	Second	km/h(mph)	1.79(1.12) 0~14.86(0~9.29)	1.91(1.19) 0~14.86(0~9.29)	1.89(1.17) 0~14.86(0~9.29)		
	Third	km/h(mph)	2.40(1.50) —	2.56(1.60) —	2.53(1.57) —		
	Fourth	km/h(mph)	2.57(1.61) —	2.74(1.71) —	2.85(1.77) —		
	Fifth	km/h(mph)	4.26(2.67) —	4.54(2.84) —	4.74(2.94) —		
	Sixth	km/h(mph)	5.72(3.58) —	6.10(3.81) —	6.36(3.95) —		
	Seventh	km/h(mph)	6.72(4.20) —	7.16(4.48) —	7.16(4.48) —		
	Eighth	km/h(mph)	11.15(6.97) —	11.89(7.43) —	11.89(7.43) —		
	Ninth	km/h(mph)	14.96(9.35) —	15.95(9.97) —	15.95(9.97) —		
Reverse		3	High & Low (2-range)	3	High & Low (2-range)	3	High & Low (2-range)
	First	km/h(mph)	1.99(1.23) 0~3.85(0~2.40)	2.13(1.33) 0~4.08(0~2.55)	2.11(1.31) 0~4.08(0~2.55)		
	Second	km/h(mph)	4.77(2.98) 0~9.91(0~6.19)	5.08(3.18) 0~10.50(0~6.56)	5.30(3.29) 0~10.50(0~6.56)		
	Third	km/h(mph)	12.47(7.79) —	13.29(8.25) —	13.29(8.25) —		
<b>Dimensions</b>							
Overall length (w/3P)		mm(in.)	2,728(107.4)	2,728(107.4)	2,728(107.4)		
Overall width (Std. tread, w/Ag. tires)		mm(in.)	1,042(41.0)	1,138(44.8)	1,138(44.8)		
Overall height (w/Ag. tires & ROPS)		mm(in.)	2,262(89.1)	2,287(90.0)	2,287(90.0)		
Wheelbase		mm(in.)	1,405(55.3)	1,405(55.3)	1,405(55.3)		
Min. ground clearance (w/Ag. tires, Drawbar)		mm(in.)	245(9.6)	270(10.6)	270(10.6)		
Tread	Front (w/Ag. tires, Std.)	mm(in.)	822(32.4)	848(33.4)	848(33.4)		
	Rear (w/Ag. tires, Std.)	mm(in.)	851(33.5)	897(35.3)	897(35.3)		
Weight (w/Ag. tires & ROPS)		kg(lb.)	742(1,636)	754(1,662)	744(1,640)	756(1,666)	750(1,653)

\*1 Manufacturer's estimation

The above specifications are subject to change without notice

## SPECIFICATIONS

TRACTOR MODEL		ST329		ST333		
Drive		4WD		4WD		
Transmission type		MECH	HST	MECH	HST	
<b>Engine (Diesel)</b>						
Model		J843		N843		
Engine gross power *1		hp(kW)	29.0(21.6)	33.0(24.6)		
No. of cylinders		3		3		
Total displacement		cc(cu.in.)	1,330(81.2)	1,496(91.3)		
Rated speed		rpm	2,800	2,800		
Battery		V-A	12-55	12-55		
Alternator		A	40	40		
Fuel tank capacity		litre(US gal.)	30(7.9)	30(7.9)		
<b>PTO</b>						
Type		Trans.w/one way clutch	Live	Trans.w/one way clutch	Live	
Rear PTO power *1		hp(kW)	25.1(18.7)	23.6(17.6)	28.8(21.3)	
Rear PTO rated speed (@ 2,800rpm Engine Rated Speed)		rpm	625	613	625	
Mid PTO rated speed (@ 2,800rpm Engine Rated Speed)		rpm	Opt. (2,356)	2,314	Opt. (2,356)	
<b>Hydraulic</b>						
Lift control type: Position		Standard		Standard		
Max. Lifting Capacity		kg(lb.)	873(1921)	873(1921)		
Draft		Option		Option		
3-point hitch, Category -1		Swinging Drawbar	Standard	Standard		
<b>Traveling System</b>						
Steering		Power Steering		Power Steering		
Brake		Wet Disk		Wet Disk		
Clutch		Dry, Single		Dry, Single		
<b>Standard Tire Size</b>						
Agricultural	Front	6-14		7-14		
	Rear	9.5-24		11.2-24		
Turf	Front	25×8.50-14		25×8.50-14		
	Rear	13.6-16		13.6-16		
<b>Traveling Speed - Speed Range (at rated engine speed)</b>						
Forward		9	High/Middle/Low (3-range)	9	High/Middle/Low (3-range)	
First		km/h(mph)	1.25(0.78)	0~5.34(0~3.32)	1.30(0.81)	0~5.59(0~3.48)
Second		km/h(mph)	1.84(1.15)	0~12.48(0~7.76)	1.94(1.20)	0~13.07(0~8.13)
Third		km/h(mph)	2.65(1.65)	0~24.04(0~14.94)	2.78(1.72)	0~25.18(0~15.65)
Fourth		km/h(mph)	3.95(2.45)	—	4.14(2.58)	—
Fifth		km/h(mph)	5.83(3.62)	—	6.11(3.80)	—
Sixth		km/h(mph)	8.39(5.21)	—	8.78(5.44)	—
Seventh		km/h(mph)	10.11(6.28)	—	10.58(6.58)	—
Eighth		km/h(mph)	14.93(9.28)	—	15.65(9.72)	—
Ninth		km/h(mph)	22.00(13.67)	—	23.04(14.32)	—
Reverse		3	High/Middle/Low (3-range)	3	High/Middle/Low (3-range)	
First		km/h(mph)	1.84(1.15)	0~3.74(0~2.32)	1.94(1.20)	0~3.92(0~2.48)
Second		km/h(mph)	5.83(3.62)	0~8.74(0~5.44)	6.11(3.80)	0~9.15(0~5.70)
Third		km/h(mph)	14.93(9.28)	0~16.82(0~10.46)	15.65(9.72)	0~17.63(0~10.96)
<b>Dimensions</b>						
Overall length (w/3P)		mm(in.)	2830(111.4)	2830(111.4)		
Overall width (Std. tread, w/Ag. tires)		mm(in.)	1400(55.1)	1400(55.1)		
Overall height (w/Ag. tires & ROPS)		mm(in.)	2460(96.9)	2460(96.9)		
Wheelbase		mm(in.)	1600(63.0)	1600(63.0)		
Min. ground clearance (w/Ag. tires, Drawbar)		mm(in.)	285(11.2)	300(11.8)		
Tread	Front (w/Ag. tires, Std.)	mm(in.)	1100(43.3)	1100(43.3)		
	Rear (w/Ag. tires, Std.)	mm(in.)	1115(43.9)	1115(43.9)		
Weight (w/Ag. tires & ROPS)		kg(lb.)	1085(2392)	1075(2370)	1100(2425)	1090(2403)

\*1 Manufacturer's estimation

Specifications subject to change without notice



# SHIBAURA

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