

# ACCOLADES AND CREDENTIALS



AMONG  
**TOP 6 TRACTOR**  
MANUFACTURERS  
GLOBALLY\*



AMONG  
**TOP 3 TRACTOR**  
COMPANIES  
IN INDIA



EMINENT  
PRESENCE IN  
**130+ COUNTRIES**



WORKFORCE OF  
**5,500+** DEDICATED  
EMPLOYEES WITH  
400+ ENGINEERS  
IN R&D



JOINT VENTURE  
WITH **YANMAR**  
(JAPAN)



PRODUCTION  
CAPACITY OF  
**300,000 TRACTORS**  
PER YEAR



## SWITCH TO NEW-AGE PALM FARMING

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**SONALIKA**

**90 / 105**

**SONALIKA**

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**POWERFUL  
AND VERSATILE**

## Agri-Professional

**90 / 105**

- POWERFUL ENGINE
- TOUGHER & MODERN TRANSMISSION
- HIGH LIFTING POWER
- EPICYCLIC REDUCTION
- INDEPENDENT CLUTCH FOR PTO
- DUAL PTO SPEED
- HYDRAULIC ASSISTED BRAKES

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## PROVEN PERFORMANCE

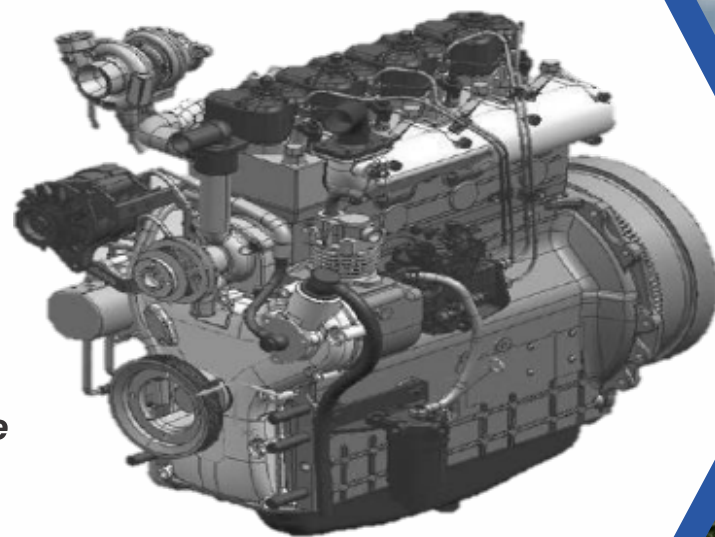
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**4 Cylinder high output engine with Turbo Charged**

Formerly, heavy duty works like transport, tillage or ploughing slow down your engine.

Now, **Sonalika tractor comes with engine gaining high trust globally with it's unique power curve, more torque under load & especially designed with Individual Cylinder Heads**

- Giving you the extra power you need for toughest applications.
- Individual Cylinder Heads reduce the repair cost & provide Ease of maintenance.



POWERFUL  
4 CYLINDER  
ENGINE



HIGH BACKUP  
TORQUE



LOW  
VIBRATION



CYLINDERS  
WITH  
WET LINER





# TOUGHER & MODERN TRANSMISSION

## UNMATCHED PERFORMANCE

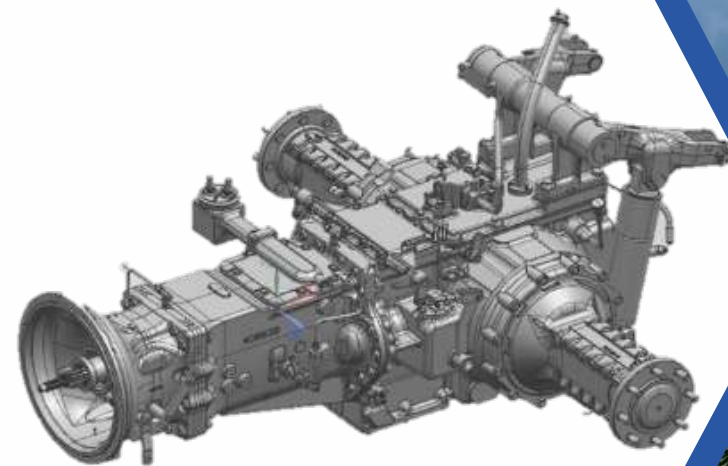
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### Synchromesh Transmission W/Shuttle

Forward/Reverse Synchro Shuttle : **Frequent Direction Change Provision**

With latest synchromesh technology : **Smooth and soundless operation**

Proven for toughest conditions : **Long components life and lesser service cost**



SYNCHROMESH  
TRANSMISSION



RELIABLE  
DRIVE LINE



CREEPER  
SPEED OPTION



DOUBLE  
CLUTCH



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### POWERFUL AND PRECISE LIFT

## 90 / 105

#### Heavy Duty Lift Capacity

Solis 90 – 2500kg and Solis 105 – 3500 kg) : **Capable to work with all implements**

Fine Tune drop rate : **Less wear and tear of implements and Long components life**



MITA  
HYDRAULICS



AUTO LIFT



HEAVY LIFTING  
CAPACITY



2DA AUXILIARY  
HYDRAULIC CIRCUIT





# EPICYCLIC REDUCTION

## MORE STRENGTHENED



*Multiple Kinematic Combinations*  
*Minimal impact on crown wheel pinion – Long components life & Less maintenance*  
*Capable to carry heavy loads – Suitable for various applications and high productivity*

# INDEPENDENT CLUTCH FOR PTO

## INCREASE PRODUCTIVITY & OPERATOR COMFORT



*Independent lever for PTO operation*  
*PTO shaft is controlled with a separate lever - Ease of operation*  
*Improve productivity and saves time - Financial benefit to operator*  
*Less Wear and tear of components - Low service cost*



# DUAL PTO SPEED

## EFFICIENT

*Ground Speed PTO*  
*Suitable for PTO driven trailers which provides more power during haulage in muddy condition.*  
*Option for Economical PTO*  
*540E PTO RPM at lower Engine RPMs – Lesser fuel consumption and high torque with various applications i.e. fertilizer spreader & sprayer etc.*

# HYDRAULIC ASSISTED BRAKES

## EFFICIENT BRAKING

- Hydraulic Assisted Brakes provide more comfort and efficient braking during tough conditions i.e. heavy haulage at terrains



## FULL OPEN & METAL HOOD

- **Full Opening hood**
- **Easy Servicing** to engine, pump, pipes, electrical giving easy access for servicing
- **Strong and durable** metallic hood prevents from dings and dent



## AERODYNAMIC GLOBAL STYLING



- **Sloping hood design**
- **Better visibility** at front so that you can **see obstacles more easily and work worry-free**

## AUXILIARY OUTPUTS



- No of Coupler: **4 at Rear**
- **Quick attach couplers** for easy attach & detach
- Suitable for **hydraulic operated implements and fitment of loader/dozer**

## HYDROSTATIC STEERING

- **Hydraulic power steering** provides fatigue free operating
- **Better sensitivity** & control
- **Feel good steering** position optimally designed & located to provide comfort to customers





# SAFETY FEATURES

## GLOBAL STANDARD DRIVER SEAT

Provides more comfort and safety to operator



## ROLL OVER PROTECTION SYSTEM

Protects the operator while overturned

## DIVERSE APPLICATIONS FOR VARIOUS TASKS





**SONALIKA 90 PERFORMING IN  
PADDY FIELDS**  
WHICH ELEVATES  
THE PRODUCTIVITY WITH  
ITS PERFORMANCE



**SONALIKA 90 SHOWING ITS  
STRENGTH WITH  
BACK PUSHER**



**SONALIKA**

**SONALIKA 90  
PERFORMING AT  
PALM  
ESTATES,  
FOR HAULING**















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90K








TECHNICAL SPECIFICATION





FEATURES	90
Model Description	SONALIKA 90
ENGINE 	
Engine Type	4 Cylinder Turbo Charged Engine
HP Category	90
No. of Cylinders	4
Aspiration	Turbo Charged
Cubic Capacity (cc)	4087
Bore/Stroke (mm)	105/118
Rated RPM	2200
Air cleaner	Dry Air Cleaner with Clogging Sensor Precleaner
Max Torque (Nm)	339(+/-5%)Nm @1400(+/-100) RPM
Exhaust	Underhood Updraft
TRANSMISSION 	
Drive	4WD
Clutch	Double Clutch
Gearbox	12F+12R
Transmission	Synchronmesh
SPEED (FORWARD)	
Maximum Speed (Km/Hr)	33.73@2200 ERPM
Minimum Speed (Km/Hr)	1.64@2200 ERPM
Driver Seat	Adjustable
BRAKES 	
Brakes	Oil Immersed Brakes
Type of actuation	Mechanical
Parking Brake	Independent
DIFFERENTIAL LOCK	
Di erential lock	Yes, Foot Operated
PTO 	
PTO (rpm)	540/540E
PTO (Actuation)	Mechanical
STEERING 	
Steering	Power
ELECTRICAL 	
Battery	12V, 110AH
Alternator	12V, 36Amps
Seven pin trailer socket	Yes
HYDRAULICS 	
Position Control	Yes
Automatic Draft & Depth Control	Yes
3 point linkage	CAT-II
Stay Bars	Adjustable

FEATURES	90
Hydraulic lifting capacity	2500 kg
Auxiliary hydraulic circuit	2DA/2SA
SAFETY SWITCH 	
Clutch Safety Switch	Yes
PTO Safety Switch	Yes
Neutral Safety Switch	Yes
CAPACITY (LTRS)(+/-2%) 	
Fuel tank (Ltr)	64
TYRE 	
Front	12.4-24
Rear	18.4-30
DIMENSION & WEIGHT(+/-5%) 	
Weight(kg)	3043 (Ballasted)
Wheel Base (mm)	2350
Total Length (mm)	4330
Total Width (mm)	1975
Height (mm) up to ROPS	2762
Min. Ground Clearance (mm)	405
Front Track (mm)	1628 (with Std. Width)
Rear Track (mm)	1508 (with Std. Width)
OTHERS 	
Fuel Indicator gauge	Yes
Registration Plate with light	Yes
Front Tow Hook	Yes, inbuilt in front weight
Front & Rear Weights	Front- 4*30kg + 4*25kg
	Rear- 1X34 kg (Each Side)
Drawbar	Swinging Drawbar
ROPS	Yes
OPTIONAL FEATURES	
Cabin	HVAC
Front Mudguard	Yes
Trailer Brake	HTB/ATB

\*Data and specifications are subject to change without any advance notice due to continuous product improvement and development. All Dimensions are with standard tyres.

\* T&C apply.

FEATURES	105
ENGINE 	
Engine Type	4105IVLT
HP Category	105
No. of Cylinders	4
Aspiration	Turbo Charged & Intercooler
Bore/ Stroke(mm)	105/118
Cubic Capacity (cc)	4087
Rated RPM	2200
Air Cleaner	Two Stage dry filter with pre cleaner & scavenging
Max Torque (Nm)	420(±5%) Nm@ 1400(+/-100) RPM
Exhaust	Underhood Updraft
TRANSMISSION 	
Drive	4WD
Clutch	Double Clutch
Gearbox	12F+12R
Transmission	Synchromesh
SPEED (FORWARD)	
Maximum Speed (Km/Hr)	35 @ 2200 ERPM
Minimum Speed (Km/Hr)	1.6@ 2200 ERPM
Driver Seat	Adjustable
BRAKES 	
Brakes	Oil Immersed Brake
Type of Actuation	Hydraulically assisted
Parking Brake	Independent
DIFFERENTIAL LOCK	
Di erential Lock	Yes
PTO 	
PTO (RPM)	540/540E
PTO (Actuation)	Mechanical
STEERING 	
Steering	Power Steering
ELECTRICAL 	
Battery	12V, 110AH
Alternator	12V, 90Amp
Seven pin trailer socket	Yes
HYDRAULICS 	
Position Control	Yes
Automatic Draft & Depth Control	Yes
3 Point Linkage	CAT-II
Hydraulic Lifting Capacity	3500Kg.
Auxiliary Hydraulic Circuit	2DA/2SA

FEATURES	105
SAFETY SWITCHES 	
Clutch Safety Switch	Yes
PTO Safety Switch	Yes
Neutral Safety Switch	Yes
CAPACITY (LTRS) (+/-5%)	
Fuel Tank (Ltr)	117
TYRES 	
Front	380/85R24
Rear	460/85R34
DIMENSIONS & WEIGHT (+/-5%) 	
Weight (kg)	4085
Wheel Base (mm)	2376
Total Length (mm)	4310
Total Width (mm)	2225
Height (mm) up to Canopy	2816
Min Ground Clearance (mm)	455
Front Track (mm) (Standard)	1762
Rear Track (mm) (Standard)	1724
OTHERS 	
Fuel Indicator Gauge	Yes
Registration Plate with Light	Yes
Front Toe Hook	Yes, inbuilt in front weight
Front & Rear Weights	Front-72+8X31 Kg,
	Rear- 1X40 Kg on each wheel
Drawbar	Swinging Drawbar
ROPS	Yes
Cabin	HVAC (Optional)

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TECHNICAL SPECIFICATION

105K

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