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+91 96297 94475  
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KARUVEPPAMPATTI, TIRUCHENGODE 637 304, INDIA

Visit for information



connect@nextautomation.co.in  
www.nextautomation.co.in

# SOLAR TRACK FEATURES

## 1. SOLAR TRACK EFFECT

SOLAR TRACK RAM (ROUND ACTING MOVEMENT)  
ENABLES BOOM ANGLE ADJUSTMENT WHICH OFFERS  
EFFECTIVE CLEANING OF SOLAR MODULES ALL DAY LONG.  
OUR MACHINE CAN OPERATES IN ROWS AS NARROW AS 4'6"

## 3. 180° CLEANING

HYDRAULIC SWIVEL MOTOR ALLOWS FOR CLEANING ON  
THE RIGHT AND LEFT OF THE CARRIER VEHICLE

## 5. INTEGRATED WET CLEANING

WATER LINES ARE BUILT AS STANDARD THROUGHOUT  
THE MACHINE. PRE-SOAK AND RINSE SETTINGS ARE  
CONTROLLED BY THE WATER FILTERS PROVIDING A  
THOROUGH CLEAN.

## 7. BRUSH OPTIONS

10" AND 14" SOFT BRUSH OPTIONS OFFER FLEXIBILITY  
TO DIFFERENT PANELS AND ARRANGEMENTS.



**10"** : 10" BRUSH IS THE MOST POPULAR BRUSH  
OPTION. DESIGNED FOR ALL FIXED TILT ARRAYS  
AND THE MAJORITY OF TRACKING SYSTEMS

**14"**: 14" BRUSH IS DESIGNED SPECIFICALLY  
FOR BEARING ASSEMBLIES THE LONGER  
BRISTLES CAN PASS STRAIGHT OVER THE  
BEARING ASSEMBLIES.



**SOFT** : SOFT BRUSH IS SPECIFICALLY DESIGNED FOR  
PANELS WITH ANTI-REFLECTIVE COATING. IT IS A  
FAR SOFTER BRUSH AND PROVIDES A LESS  
PROFICIENT CLEAN THAN THE BRISTLE OPTIONS.

## 2. TRANSPORT POSITION

HYDRAULIC RAM ALLOWS FOR THE FOLDING AND SAFE  
TRANSPORT OF THE SOLAR TRACK ON THE RIGHT  
HAND SIDE OF THE CARRIER VEHICLE. CONTROLLED  
FROM THE SOLAR TRACK DIRECTIONAL CONTROL VALVE.

## 4. FREELY PIVOTING

THE BRUSH SYSTEM IS SUSPENDED VIA A FREELY PIVOTING  
HANGING POINT. THIS ENABLES THE BRUSH TO SELF REGULATE  
ITS ANGLE AS THE PANELS TRACK THROUGHOUT THE DAY  
AND/OR GROUND CONTOURS VARY

## 6. HYDRAULIC CONTROL

DIRECTIONAL CONTROL VALVE CONTROL OFFERS  
SAFE AND EASY OPERATION FROM THE TRACTOR CAB.

## 8. BRUSH LENGTHS

DIFFERENT BRUSH LENGTHS ARE AVAILABLE DEPENDING  
ON THE ARRAY TO BE CLEANED. BRUSH LENGTH VARY  
FROM 10FT TO 25FT

PANEL ARRANGEMENT	APPROX DEPTH*	REQUIRED BRUSH LENGTH
Single Portrait	6ft	10ft
Double Portrait	12ft	15ft
Triple Portrait	18ft	20ft
Four Landscape	12ft	15ft
Six Landscape	18ft	20ft
Four Portrait	24ft	25ft

\*assuming 6'x3' panel



# SOLAR TRACK **INBUILT ACCESSORIES**



## **WATER INLET PUMP**

- The water Inlet Pump is used to refill the Water tank at low-pressure points
- The water Inlet Pump is electrically operated



## **DYNAMO UNIT**

- One Hydraulic-operated Dynamo unit is placed at the rear of the vehicle
- The Dynamo Unit has a 3KV Capacity
- This Dynamo Unit supplies electricity for the Water Inlet Pump



## **WATER TANK**

- The water tank is placed at the rear of the vehicle
- The water tank is fixed in the pallet fork frame
- The water tank can carry 1000 - 5000 litres of water
- The Water Outlet is connected to a Stainer



# Solar Track Performance

Cleaning Output Data (2200mm X1100mm Panel)

Brush Size	10ft	16ft	25ft	27ft
Panel Arrangement	1 Portrait	2 Portrait	3 Portrait	6 Landscape
Panels/hour*	1600	3200	4,800	6,000
MW/Hour*	0.6	1.20	2.40	2.40
Nozzles No.	20	28	38	42
Water Usage	500ml/module	500ml/module	500ml/module	500ml/module

\* does not include: end of row turn time, approx 1 minute, or water re-fill time, approx 15 mins

## General Data

Cleaning System	Rotating Bristle Brush, Wet or Dry
Cleaning Speed	1 - 2.5 kmph
Brush Lengths	10ft, 16ft, 25ft, 27ft
Brush Type	14" Bristle = Standard Brush, For vast Majority of systems 20" Bristle = Bearing Assemblies Soft Brush = Thin Film
Weight	600-800 kgs
Controls	Directional Control Valve
Swivel Range	180°, to enable Cleaning on the left and right of carrier vehicle
Nozzles	120 Nozzle, 16" Spacing



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3/218-A14, First floor Rase Complex,  
O.G Auto Nagar Sankari Main Road,  
Karuveppampatti, Tiruchengode 637 304, India