



SLIPFORM PAVER
SPX SERIES
(Concrete Slip-form Paver)

AJAX Concrete Slip-Form Paver wins
EXCELLENCE IN ENGINEERING DESIGN
2021 AWARD



CONSTRUCTIONWEEK
EQUIPMENT AND INFRA
CONFERENCE & AWARDS
2021

SLIP-FORM PAVER
SPX SERIES

AJAX is renowned for its in-house engineering expertise and is proud to introduce the first Slip-Form Paver designed, engineered and manufactured in India. It is a versatile machine for concrete paving projects and is the best solution for your paving needs.

PAVER	
Model	Paving Width
SPX 754	3.5 - 7.5 m
SPX 1204	5 - 12 m

SLIP-FORM PAVER
CHARACTERISTICS



- 1

TRACK WITH SLEWING DRIVE
- 2

SPREADER PLOUGH
- 3

STRIKE OFF BAR
- 4

LEVELING SENSORS
- 5

STEERING SENSORS
- 6

HYDRAULIC SYSTEM WITH PUMP DRIVE & SIX PUMPS
- 7

LOW PRESSURE WATER PUMP

8

PROPORTIONAL VALVES

9

DOWEL BAR INSERTER (DBI)

10

OSCILLATION CORRECTION BEAM (OCB)

11

SIDE TIE BAR INSERTER

12

SUPERSMOOTHER

13

WALKWAY WITH GRATING

14

EXTERNAL VIBRATOR

15

CENTRAL TIE BAR INSERTER

16

HMI - CONTROL SYSTEM, ELECTRICAL CAN BUS SYSTEM

17

POKER VIBRATOR

18

OPERATOR'S PLATFORM WITH LADDER

19

SWING LEGS FOR TRACKS MANEUVERABILITY

20

PENDANT BOX WITH EMERGENCY STOP ON EACH LEG

HIGHLIGHTS OF SPX SERIES

Heavy duty design for **High quality paving**, concrete slabs ranging from 3.5-12M ensures high productivity

High Frequency Electrical vibrators, ensures optimum consolidation of concrete

Self-loading DBI unit, benefits customer with quick dismantling, loading & unloading of the unit



Flexibility & ease of operation, different steering modes suiting the job site conditions for paving and transportation

Powerful & fuel-efficient diesel engine for optimum paving performance

DRIVE CONCEPT - EFFICIENCY & PERFORMANCE

Powerful & fuel-efficient CAT engine the control system allows the engine power to be effectively and optimally converted into hydraulic power. This results in lower fuel consumption.



High performance hydraulic system hydraulic system with load sensing and pressure compensated capability leading to operational precision, efficient performance and greater controllability. Proportional controlled valves for Steering, slew and levelling ensure smooth and accurate operation.



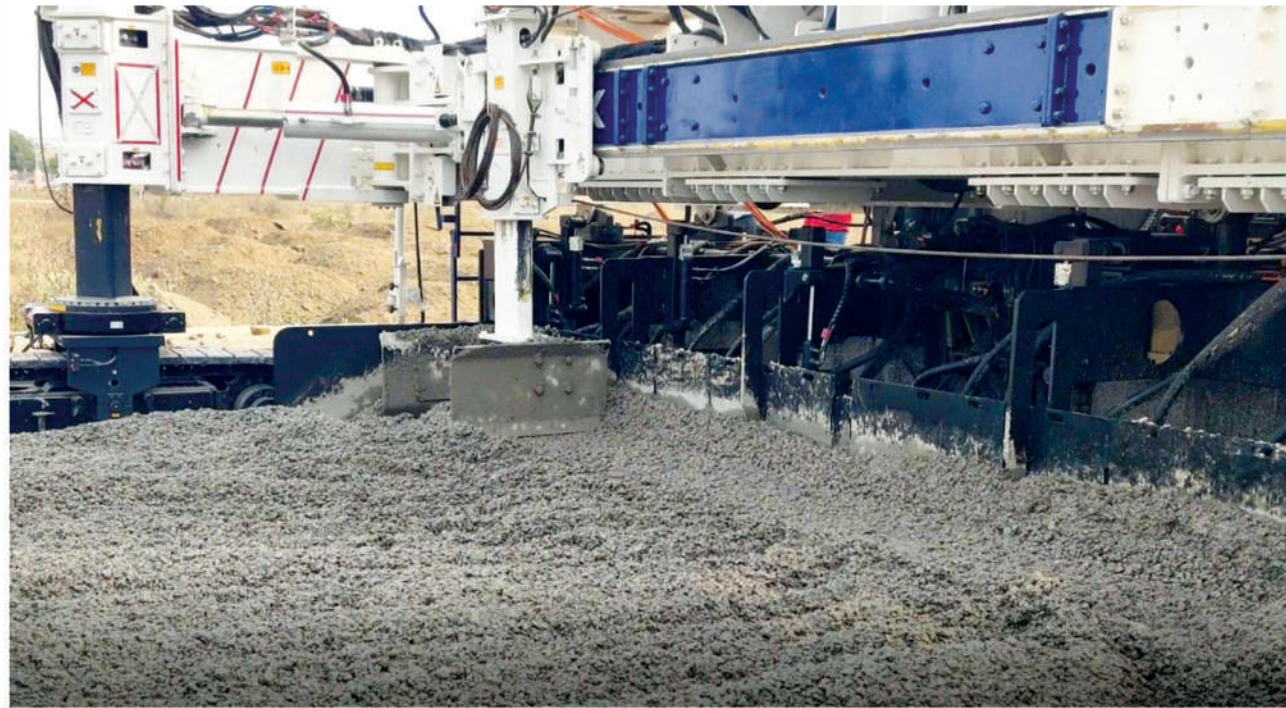
Concrete compaction is the key in the slipform paving process.

The **High Frequency variable speed Electrical vibrators** powered by 200Hz, 110V Generator assures optimum compaction of the concrete and ensures better paving results.



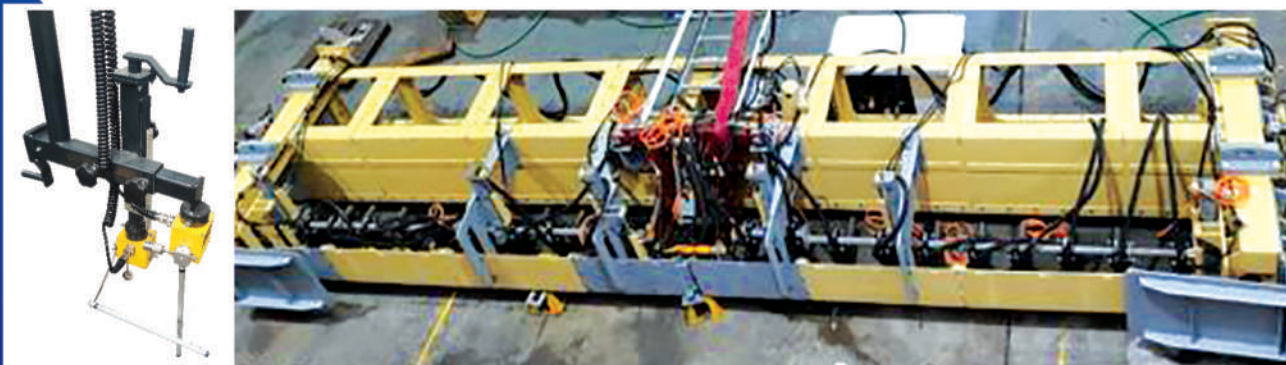
PERFECT PAVING QUALITY

We at Ajax believe not only in building quality machine but also perfect paving quality performance during the construction of concrete pavement. With heavy-duty design robust structures, efficient hydraulic system combined with Intelligent control system, paving efficiency and ease of operation, the Ajax Slip form pavers is the ideal partner for medium & large-scale projects in Paving widths from 3.5 m up to 12 m.



Spreading plough for uniform spreading of concrete for the entire paving width.

Strike-off plate to control the material flow into the vibration chamber.



Proportional electro-hydraulic levelling and steering with the help of controllers, steering and grading sensors for precision and achieving results within the tolerances.



Integrated Dowel Bar Inserter (DBI) for placement of dowel bars into the compacted concrete precisely as per the specifications. Customized as per the requirement of jobsite conditions. The insertion of dowel bar process is done while the machine is on the move.

The Oscillating Correction Beam ensures the corrections of the irregularities created by the insertion of dowel bars and achieving final level of the pavement.



INTELLIGENT CONTROL SYSTEM

The control system is indigenously developed with a network of controllers for performing and controlling all functions.



Ergonomically designed dashboard with keypads grouped in a structured manner for easy Identification and operation.

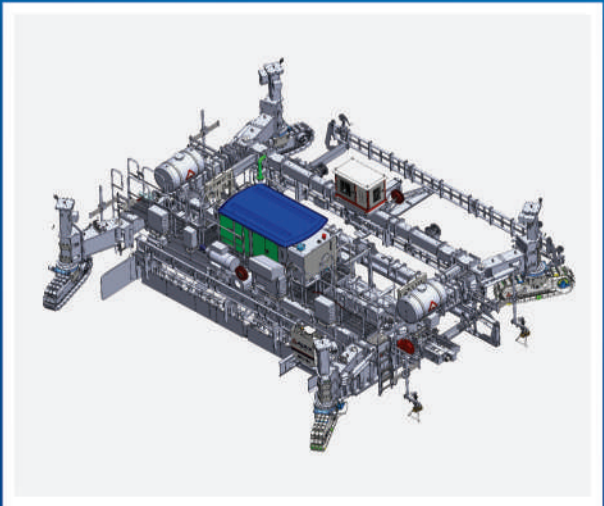
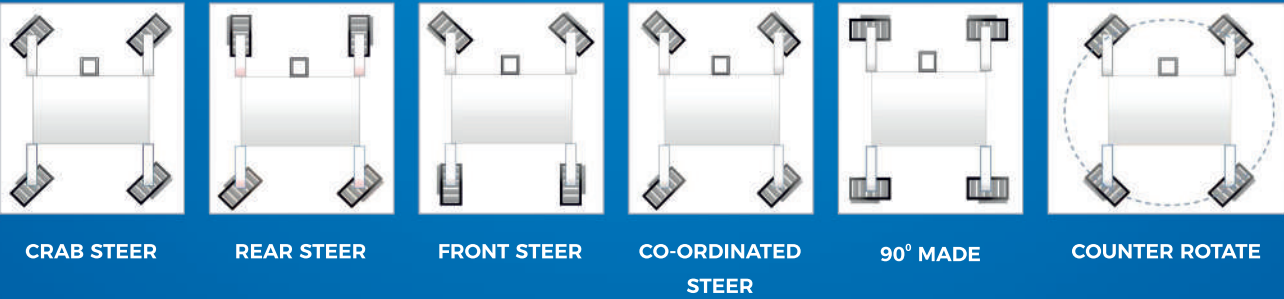
7" full color display with easily understandable text and graphics for monitoring & diagnostics.



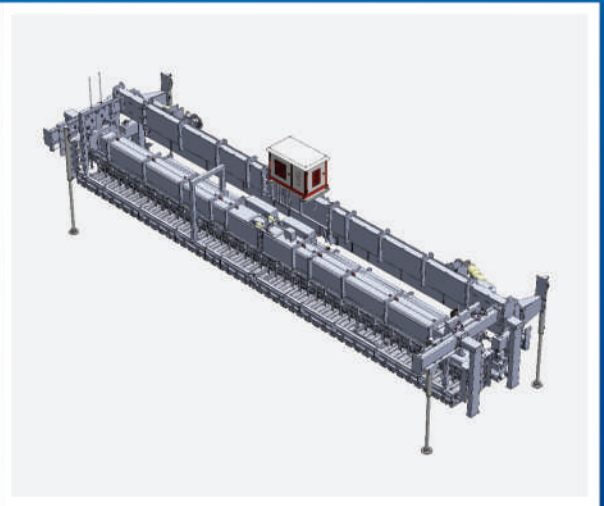
This system is based on CAN-bus, which represents the state of the art in electronic vehicle equipment and therefore guarantees maximum system safety. Furthermore, it facilitates the system's central operation and due to its modular design, its ability for expansion.

FLEXIBILITY & EASE OF OPERATION

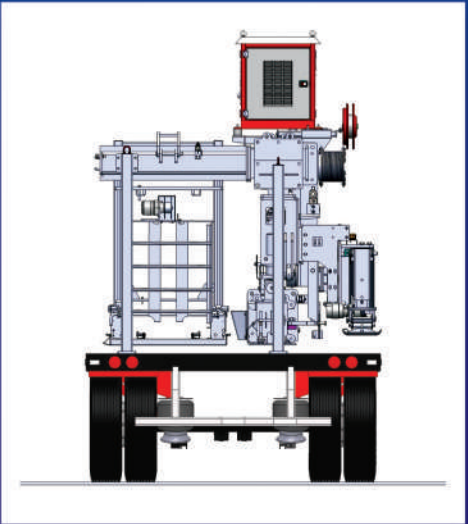
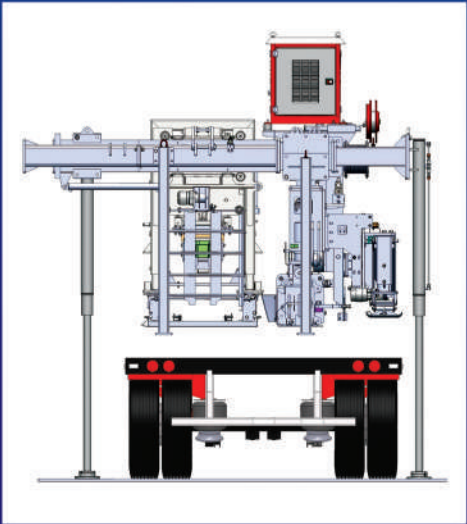
Pre-programmed steering modes for easy maneuverability & ease of operation depending on different jobsite conditions



Intelligent steering system with Ackerman steering mechanism ensures high precision while working around bends and radius and the movement of the tracks can be monitored in the display screen.



Self-loading DBI ensures quick loading and unloading of Dowel bar inserter unit (Dowel bar inserter, rear frame and Oscillating correction beam) from Trailer, is possible for easier de-assembling & assembling to the machine.



TECHNICAL SPEC

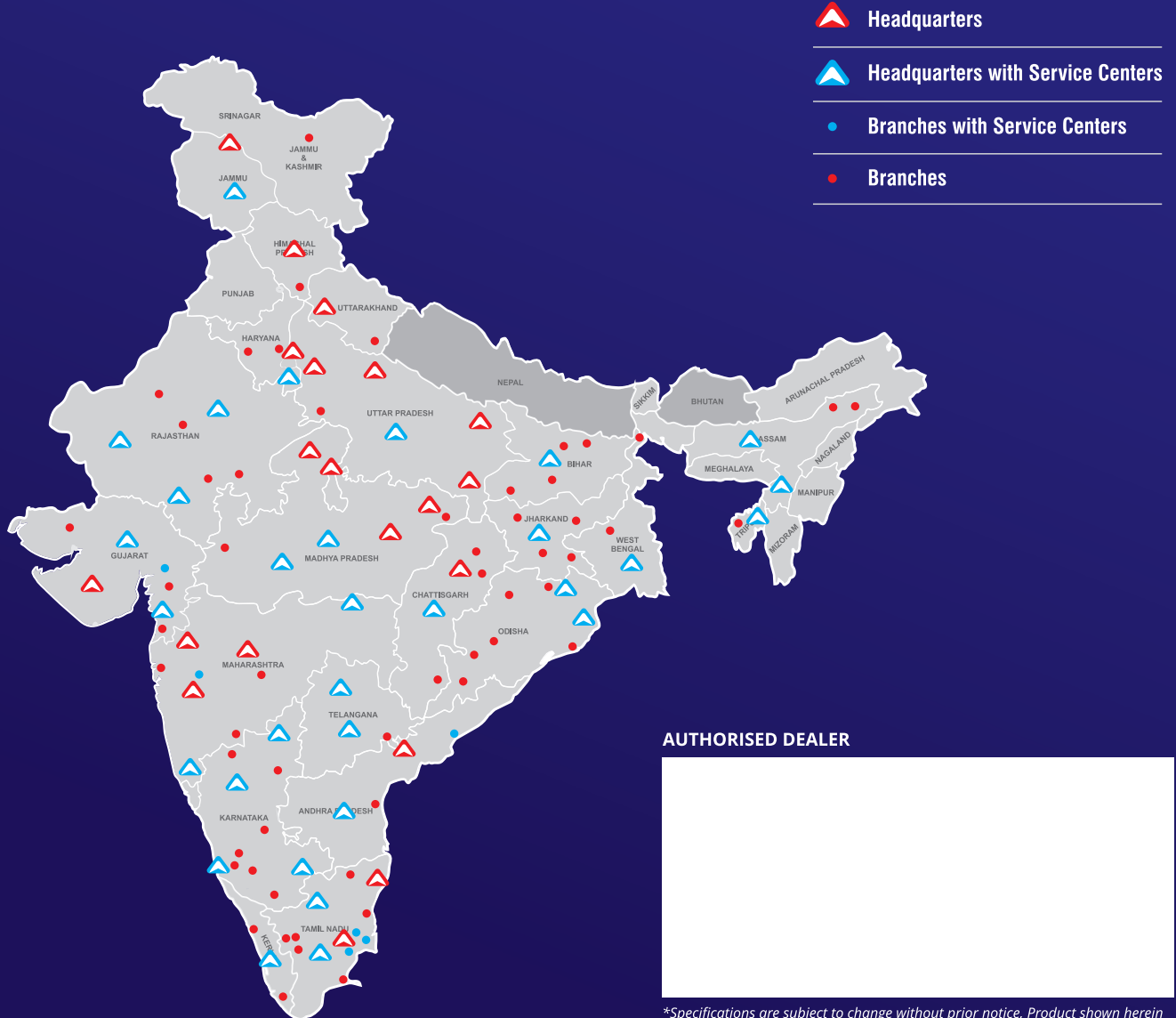
DESCRIPTION	SPX 754	SPX 1204
DIESEL ENGINE		
Manufacturer	CATERPILLAR	CATERPILLAR
Type	C7.1	C9
Cooling	WATER	WATER
Qty. of Cylinders	6	6
Rated Output	168 / 225 (kW / hp)	240 / 325 (kW / hp)
Speed	2000 rpm	2000 rpm
Displacement	7013 cc	8800 cc
CONCRETE PAVING KIT		
Working Width	3.5 - 7.5 m	5 - 12 m
Paving Thickness	Up to 500 mm	Up to 500 mm
Transverse Camber	0 - 3%	0 - 3%
ADVANCE DRIVE		
Working Speed	0 - 7 m / min	0 - 10 m / min
Traveling Speed	0 - 20 m / min	0 - 25 m / min
ELECTRICAL SYSTEM		
Voltage	24V DC	24V DC
Electric Vibrators	110 V AC, 3 Phase, 200 Hz	110 V AC, 3 Phase, 200 Hz
CRAWLER UNITS		
No. of Tracks	4	4
Crawler Unit from (L x W)	2095 x 305 mm	2415 x 400 mm
Stroke of Leveling Cylinders	1100 mm	1000 mm
FILLING CAPACITIES		
Fuel Tank	400 L	600 L
Hydraulic Oil Tank	580 L	760 L
Water Tank	500 + 500 L	500 + 500 L
VIBRATION UNIT		
Vibration	Electric	Electric
Slipform Poker Vibrator	Curved (D76)	Curved (D76)
Qty. of Poker Vibrators	24	32
Electrical Drive Power	60 kVA	80 kVA
Operational Weight	48000 kg	78000 kg
TRANSPORTATION DIMENSIONS		
Basic Machine Min. (L x W x H)	13520 x 3100 x 3150 mm	11590 x 3560 x 3500* mm
Basic Machine Min. (L x W x H)		15590 x 3560 x 3500** mm
* 5m Paving width, **9m Paving width		

APPLICATIONS



UNPARALLELED NETWORK

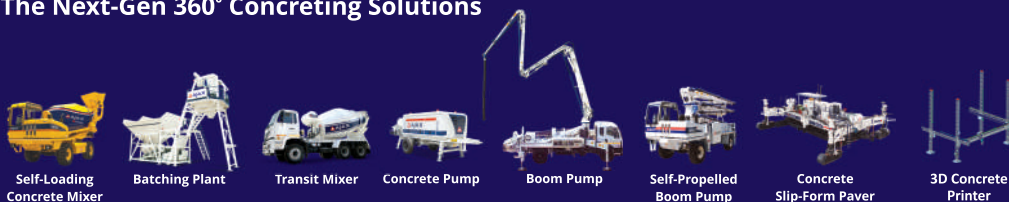
in CONCRETING INDUSTRY



AUTHORISED DEALER

**Specifications are subject to change without prior notice, Product shown herein may include optional scope of supply. T&C Apply.*

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