

# HIGHWAY CLASS DYNAPAC PAVER



Dynapac F800T, F800W

*Atlas Copco*

**DYNAPAC**



# DYNAPAC F800T AND F800W PAVERS

**INTRODUCING THE DYNAPAC F800T, DYNAPAC F800W:** *Introducing Dynapac F800T 8 ft Track paver, Dynapac F800W 8 ft Wheel paver a perfect addition to the existing highway class paver line. Dynapac F800 pavers combines innovative features and decades of experience, making it as best 8ft highway class pavers available in the market. Dynapac F800 paver's features laydown capacity of up to 1000 tons per hour, highest traction force and best in class operator comfort with dual swing out operator consoles. With smart options like Safe Impact hydraulic push roller, powered hopper aprons and Hydraulic tunnel extension Dynapac F800T and F800W becomes the best choice for wide variety of jobsites and applications. Well balanced F800 Tractor is combined with proven Carlson front extension screed to allow maximum flexibility and yet produce consistent high quality results.*

## PERFORMANCE YOU CAN COUNT ON

### Consistent Performance

Dynapac F800 pavers are designed to maximize performance and provide highest productivity in its class. Performance starts with selecting best in class, reliable components for longer life. That's why F800 pavers are equipped with 6 Cylinder 173 hp Cummins Engine, oversized hydraulic components from 10ft paver range and 34 kw onboard generator. With these components F800 pavers are able to achieve lay down capacity up to 1000 tons per hour, highest traction force and still ample power to heat the screed at full width. With the F800 Tracked or Wheeled pavers your productivity goals are met round the clock.

### Quality Results

For quality paving results, the paver must be well balanced and complement a proven screed. With F800 Tracked or Wheeled pavers combined with Carlson screed achieving the required pre compaction and smoothness becomes lot easier. Innovative features like thinnest auger chain box , Safe impact push roller system and optimized conveyor tunnel provides smooth material flow and hence best quality of pavement behind the screed.

Engine Power @ 2300 rpm	173 hp
Heating Generator Power	34 kw
Theoretical paving capacity	1000 tons/h
Maximum Working Width	19 ft



# DYNAPAC F800T AND F800W PAVERS



## DEPENDABLE SYSTEMS

### *Powerful and yet efficient Drive Concept*

Dynapac F800 Pavers are powered by a Cummins QSB 6.7, 6 cylinder 173 hp @2300 rpm Tier 4 Final Diesel Engine. Drive train including the hydraulic pumps/motors uses oversized components from 10ft paver range. This not only increases the life of the components and also allows parts commonality in the whole range. High capacity cooling system ensures cooler operating environment. Fuel tank capacity of 85 gal is sufficient to pave more than 12 plus hours allowing continuous un interrupted paving.

Cummins after treatment system combines with Diesel Oxidation catalyst (DOC) and Selective Catalytic reduction (SCR) to ensure the stringent T4 Final emission norms are met. Since there is no Diesel particulate filter (DPF) involved, frequent maintenance required to clean the filter is eliminated. The Paver duty cycle is adjusted such that Passive regeneration takes place in most conditions without affecting the paving operation. The Diesel Exhaust Fluid (DEF) tank is sized adequately to allow maximum paving time between refills.

Fuel cost is one of the major factor attributing to operational cost of pavers. Dynapac F800T and F800W pavers are equipped with efficient features like Eco Mode, Automatic Idling of the engine when the paver is waiting for trucks, Possibility to heat the screed even in Engine Idle speed, Hydraulically Driven on demand Cooling Fan system and efficient advanced hydraulic pumps/motors ensuring minimal fuel is consumed at all time.



### ***Robust high speed rubber track system***

F800T Track system is designed to utilize maximum power from drive train to produce required tractive force while pushing loaded trucks and/or in steep grades. Large footprint and three Oscillating bogie wheel pair distributes the load evenly and reduces the ground pressure. This makes the paver to perform best even on soft grounds.

3 Sets of Oscillating Bogie Wheels runs over obstacles, without affecting the tow point movement. Paving speeds up to 200 fpm and travel speed of 8.5 mph will ensure to meet your productivity needs. On the spot counter steering mode provides zero turning radius. With this feature it becomes very easy to maneuver the paver in tight spots.

Redundant automatic track tension system keeps the track band tensioned in all times. In the event of loss of track tension pressure, the operator is alerted via an audible alarm so that necessary steps are immediately taken. Innovative greaseless fiberglass bushings on the track system eliminates the frequent maintenance needed. Rubber belt and wheels are designed to provide maximum wear life there by reducing the operational cost and also preventing asphalt build up.



# ***TO MAXIMIZE UPTIME***



### ***Highly Maneuverable Wheel drive system:***

Dynapac F800W wheel paver drive system features high floatation rear wheel Tires and solid front four steering wheels. The rear wheels are driven independently with hydrostatic drives and achieving up to 11 mph in transport speed. Thanks to the built-in self-activated service and parking brake on the final drive gear box, the F800W paver not only has short braking distance and also automatic activation of brakes when comes to stop or when the paver is turned off. The maneuverability of the wheel paver is greatly improved by optimizing the wheel base and the turning radius is kept less than 5 ft. This ensures that the F800W paver is highly suitable to pave in tighter applications.

Higher demand for the traction force requirement is met with optional two or four front wheels driven in addition to the rear driven wheels. These options allow F800W paver to maximize its performance under toughest conditions.

## Large generator drive for uniform heat

F800 pavers utilize hydraulically driven 34 kW generator for screed heating, auxiliary lighting and high capacity fume extractor. The generator is driven by precise closed loop hydraulic circuit to keep the generator speed same at all times and provides 60 Hz constant frequency. Accurate frequency control helps uniform screed heating and also able connect any type of frequency dependent devices to the paver. With this set up the screed can be heated even when the engine is running at idle providing best fuel economy and quiet operation.

Using the large generator, F800 pavers offers up to 9.6 kW auxiliary power output. There are six 120 V outlets and two 240 V outlets conveniently located on the screed to connect lights and auxiliary power tools.

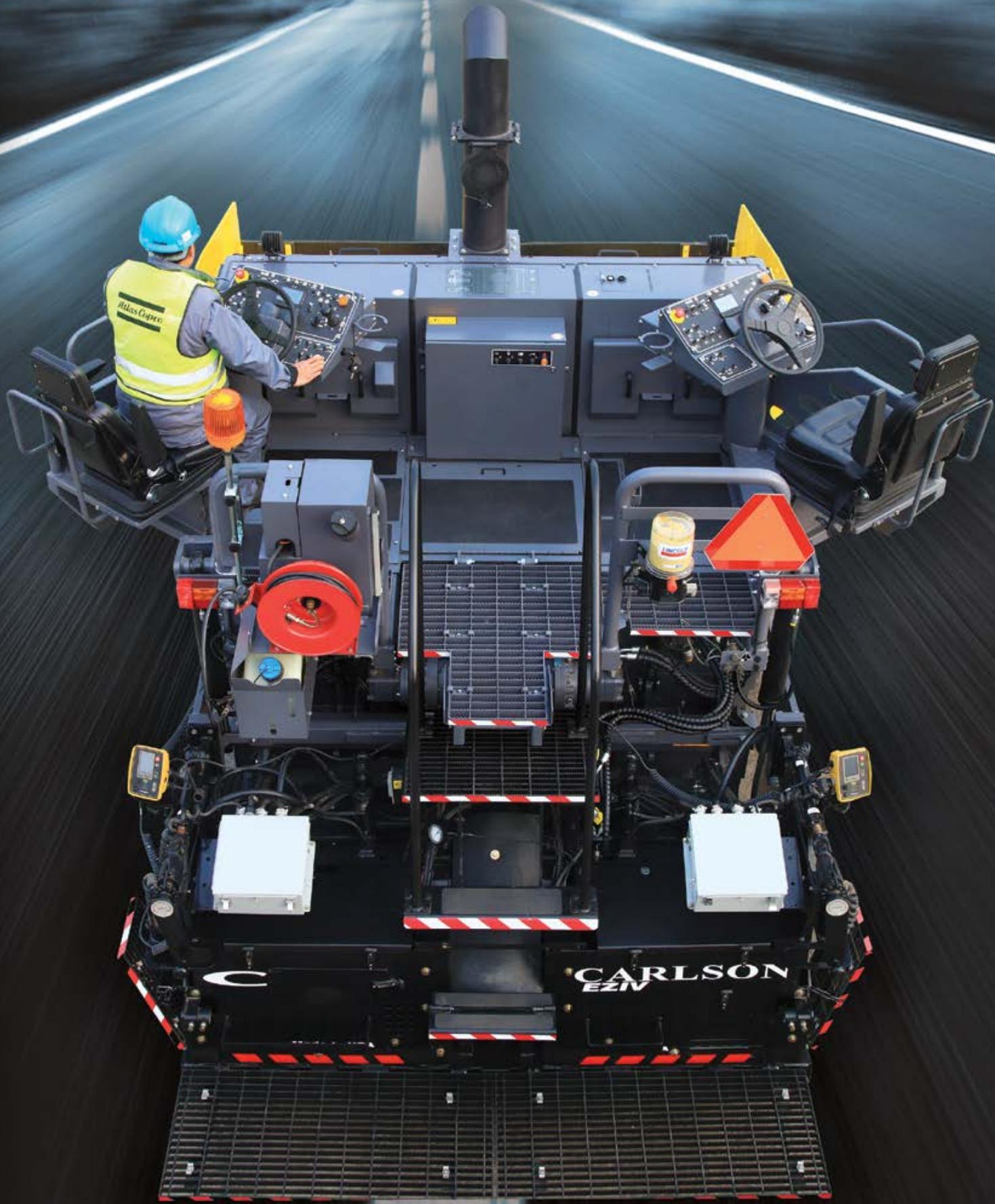


## Compact Dimensions for High capacity Paver

Dynapac F800 pavers packs a punch without taking lot of space. With less than 8 ft 6 in Width and 20 ft 6 in length transporting the paver never been this simple. The shipping dimension and weight is carefully designed to minimize any additional permit needed when transporting the machine between jobsites or cities.

The operator deck height of 64 in is one of the lowest for 8 ft paver class, contributes to lower center of gravity. The paver weight is very well balanced with respect to screed allowing smooth ride and produce best paving results.





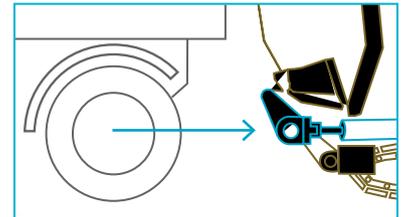
# DYNAPAC F800T AND F800W PAVERS

**ATTENTION TO DETAILS:** Dynapac F800 paver material flow system is designed with innovative features providing smooth continuous material flow. Using the patented Safe impact push roller system, paver receives asphalt mix from the truck without any bumps to the mat. Chamfered corners on the hopper wings, narrow chain covers, thinnest auger drive box are some of the innovative features built in to deliver smooth material flow to the screed.

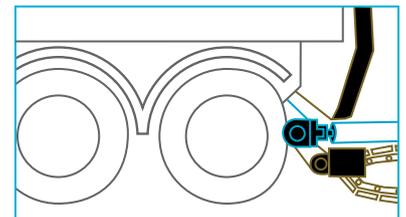
# SMOOTH WORK FLOW

## Safe impact system™

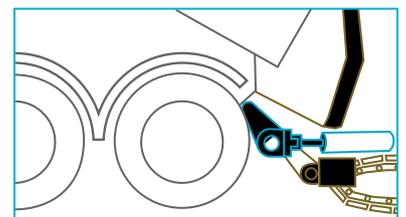
The Dynapac F800T, F800W paver offers optional safe impact system™ – a hydraulic anti-shock push roller that avoids the typical marks on the mat due to truck bumping in to the paver. The system also extends the docking length and gives you flexibility when working with different truck models. Operator can easily control the position of the push roller with respect to the truck with a touch of a button on the dashboard.



Truck approaches



Shock is absorbed



Truck pushed back to position



### **Material Flow**

F800 Tracked and Wheeled Pavers are designed with the optimal hopper that features chamfered hopper edges to avoid any cold asphalt in the corners. An optional hydraulic front hopper flap further reduces material spillage on the push rollers and in front of the paver. It also helps to completely empty the hopper at the end of each truck load.

A very low dumping height makes collision with trucks almost impossible. 13.5 Ton capacity generous hopper with the optimized conveyor tunnel creates smooth flow and avoids segregation of the material. Independent conveyor system with reversible drive offers smooth material flow and

flexibility in variety of job site conditions. The speed of the conveyors are automatically adjusted independent of augers with individual ultrasonic sensors and pile height knobs for each side.

Thick wear resistant floor plates, heavy duty flight chains and maximum number of conveyor bars delivers consistent material flow tons after tons. Innovate wedged floor plate design makes it easy to replace them at the end of service life. Greaseless fiberglass bushings at the idler end avoid frequent greasing.

### **Powerful Auger System**

The Dynapac auger drive system is an improved centrally driven system with a thinnest chain box (6 in) and optimized outer bearings that allow homogeneity of mixture, despite the high material throughput of up to 1000 tons per hour. Thinnest chain box combined with reverse pitched half flights ensures continuous flow of material at the middle hence the center line segregation is prevented.

The left and right auger drives are independent and reversible controls. This strong auger is fitted with 17 in diameter auger flights to maximize the material flow. In order to

achieve optimized material flow for different paving thicknesses you can adjust the auger height hydraulically up to 10 inches and the position of the augers are clearly shown by the height indicators.

Optional Integrated Hydraulic Tunnel extension system contains the material within the auger chamber when paving wider widths and reduces material spillage to the track system. For wider width paving auger extensions and bolt on tunnels extension kits are also offered.



## FEATURES & BENEFITS DYNAPAC F800T

### *Intelligent Fumes Management*

Combined engine exhaust and fumes delivery in dual stack

### *Powerful Drive System*

173 hp T4final Cummins Engine with high capacity cooling system

### *Optimized Material Flow*

13.5 Ton Hopper Capacity with double bar conveyor system for smooth material flow

### *Powered Apron*

Contains Material Spillage

### *Safe Impact System*

Hydraulic Push Roller for reduced impact from Trucks



***Operator in control***

Dual swing out simplified operator consoles for best in class operator comfort

***Strong Auger***

Slim auger drive with 17" dia flights. Auger height can be adjusted up to 10".

***Proven Screed***

Flexible and easy to work with Carlson Screed

***Rugged Track system***

High speed precise track system for constant speed

***Optimized Tow arm geometry***

achieving paving thickness of -6 to +12 inches



## FEATURES & BENEFITS DYNAPAC F800W

### *Intelligent Fumes Management*

Combined engine exhaust and fumes delivery in dual stack

### *Powerful Drive System*

173 hp T4final Cummins Engine with high capacity cooling system

### *Optimized Material Flow*

13.5 Ton Hopper Capacity with double bar conveyor system for smooth material flow

### *Powered Apron*

Contains Material Spillage

### *Safe Impact System*

Hydraulic Push Roller for reduced impact from Trucks



***Operator in control***

Dual swing out simplified operator consoles for best in class operator comfort

***Strong Auger***

Thinnest auger drive with 17" dia flights.

***Proven Screed***

Flexible and easy to work with Carlson Screed

***Highly maneuverable front wheel drive***

With less than 5 ft turning radius. Optional 6x4 or 6x6 wheel drive

***Smooth ride***

High flotation sand rib tires for smooth ride and comfort



## *DYNAPAC F800T AND F800W PAVERS*

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***UNBEATABLE VISIBILITY:*** The Dynapac F800 pavers are developed in keeping operators and their needs in mind. Visibility is one of the major concerns for operators with modern pavers and with F800 pavers operator visibility needs are greatly satisfied. All around visibility from both left and right side operator console improves safety at

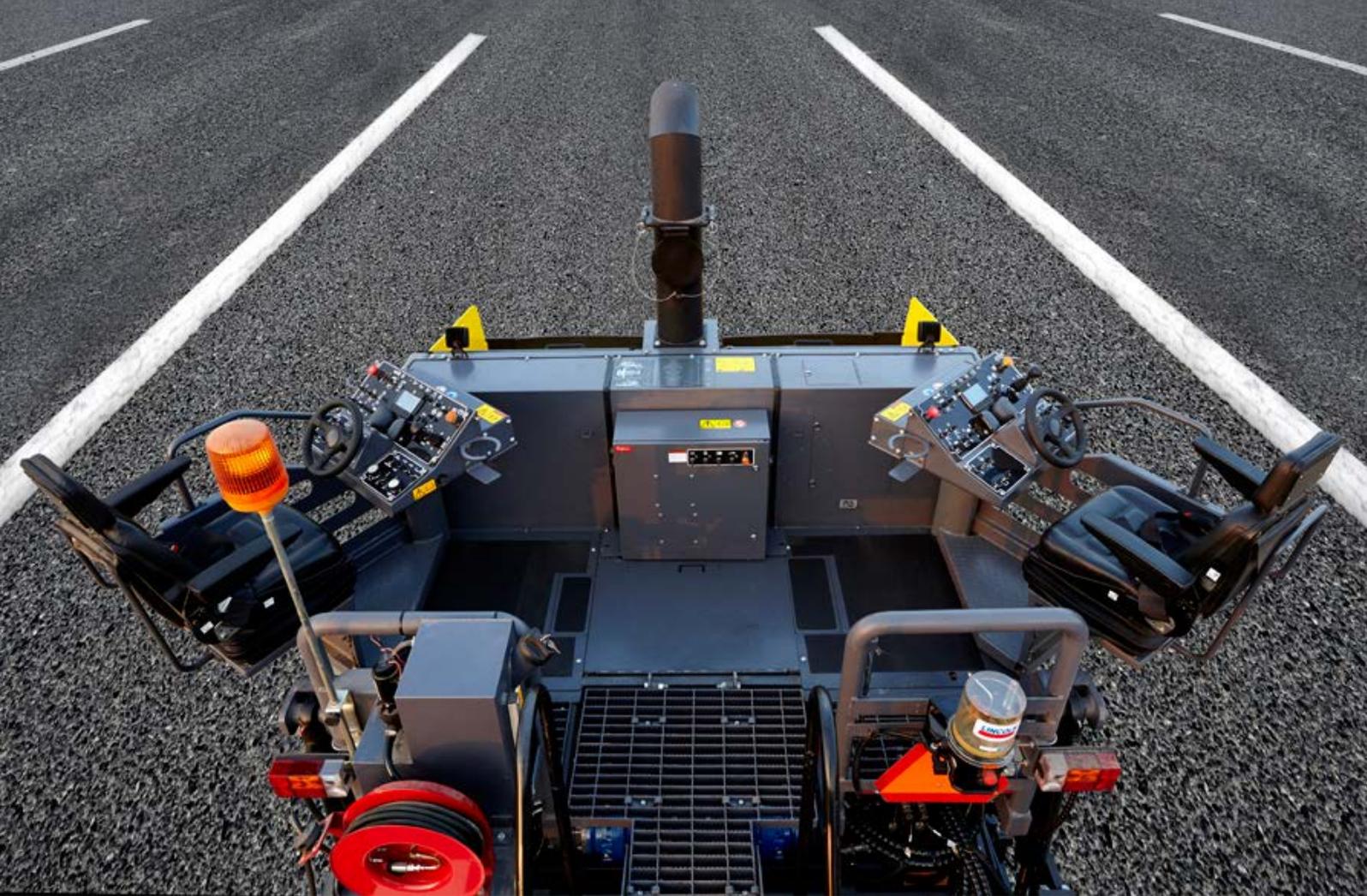
the work site. Communication is a key when it comes to achieving best results while paving and with best in class visibility seamless communication is achieved. Both operator consoles swings out 33 deg from the stored position and this further enhances visibility and communication between paver and truck operators.

# *THE OPERATOR IS IN CONTROL*



### ***Intelligent Fume Management***

Electrically Driven high velocity Fume extraction system draws fumes from conveyor tunnel and auger chamber then exits away from operator along with the engine exhaust. The combined exhaust and fume stack is strategically positioned to provide comfortable working environment for paver and screed operators. The fume extraction system also cools the engine exhaust when it passes thru the twin exhaust stack. Operator independent, automatic activation of the fume system means cleaner working environment at all times.



### ***Operator's Comfort***

Providing best operator comfort is Atlas Copco's top priority. Our engineers focus on providing an ergonomic and comfortable operator environment with simple controls to operate the machine. The F800 paver operator area offers generous room with large storage space for lunch boxes and other tools needed for daily paving operation. Dual fully loaded operator consoles eliminate the need of moving the consoles back and forth when changing sides. The swing out feature allows the paver operator position themselves as needed for the job site conditions. The operating consoles include simple toggle switches, grouped according to the frequency of use and functions. Understanding the paver controls has never been this easy, allowing the operator focus on the paving job not the paver itself.

### ***Fully loaded Paver with add on Smart options***

Dynapac F800 paver adds additional value to the customers by offering range of add on features as part of the standard package.

These features help the crew to finish their job efficient and timely manner.

- Auxiliary power outlets
- Auger height indicators
- Oscillating push rollers
- Road lights & warning beacon
- Switches for add on options
- Tow point indicators
- Wash down system with hose reel
- Work lights
- Uptime kit



The following add on smart options makes the paver tackle any demanding jobs

- Auger Extensions (1ft, 2ft)
- Automatic Lube System
- Bolt on Tunnel Extension
- Grade and Slope Controls
- Hydraulic Tunnel extension
- Safe Impact Push roller
- Umbrella
- Wheel Drive options ( 6X2, 6X4, 6X6)

# SIMPLE SMART CONTROLS

## Multi Function Display

- Vital paver parameters
- Calibration
- Error & Fault codes

## Auger Conveyor Controls

- Auto/Manual Mode
- Clean Mode
- Fast Fill switch
- Override functions

## Screed & Tow Point Controls



## Left screed box

- Auger Conveyor Control
- Tow point control
- Tunnel control

## SUITABLE SCREED

Model	Carlson EZIV
Basic Paving Width	8 ft
Max Paving Width	19 ft
Extension Slope Down	9%
Power Crown	2.5 in Positive / 1.5 in Invert
Heating	240 V Electrical Heating
Power Outlets	120V/240V Outlets
Main Screed Plate	Standard 0.50 in Thick Hardox 450
Controls & features	Left and Right Main Control Box and 2 Remote Control Box Electical Oven for Meal Preperation, Cup Holders



### ***Propel & Hopper Controls***

- Steering Trim (F800T)
- Front Wheel Assist (F800W)
- Speed Dial/Cruise Control
- Hopper flap
- Push roller



### ***Right screeed box***

- Auger Conveyor Control
- Tow point control
- Tunnel control

## ***Dual Swing out operator consoles***

F800 paver features dual fully loaded operator consoles so that the operator can operate the machine from either side. Use of simple toggle switches ensures the paver operator can feel the activation of the switch even with gloved hands which improves the operator confidence. Redundant switches at operator dashboard and screeed dash board allows the functions controlled by either operator when needed. Universal symbols on the operator consoles make it easier for all operators. Heavy duty steel consoles ensure longevity and take the beating in toughest operating conditions.

Multi-function display on each console provides vital information about the paver operating parameters and is connected via CAN BUS system with the machine controllers. This ensures fast and real time information. There are multiple built in intelligent warning messages in the display to advise the operator.

Built in intuitive functions that eliminates costly reworks,

Automatic Leveling controls, Screeed vibration activated only when the paver is moving

Automatic screeed lock when paver comes to stop avoids screeed settling

Feed system speed control possibility with no ultrasonic sensors

Speed dial to set Constant Cruise control paving speed

# SERVICEABILITY AT ITS BEST

## Nothing in the way

We have cleared the way to provide you with an easy overview of maintenance. Hydraulic pumps, Valves, Fluid Drain points – each component is directly accessible and easy to find. A simple visual inspection of filters and engine parts allows you to quickly get started. It is a convenient arrangement you'll profit from every day. Easy access to all service points minimize the total service time. A centrally located grease point, filters, fluid drains and electrical fuse box makes it easier to get the job done. Plug and play electrical and hydraulic concept helps speeds up the maintenance process.



## Easy to troubleshoot

Technical troubleshooting is never been this simple. Both electrical and hydraulic systems are designed with serviceability in mind. Below features show the Dynapac F800 pavers capability to speed up the process:

- With Multi-function display all the codes from engine and machine controller are easily understood.
- Illuminated connectors at the solenoid valves for separating Hydraulic Vs Electrical symptoms.
- Color Coded and numbered wires for ease of traceability. Even Hydraulic hoses numbered at both ends
- Manual overrides located throughout the hydraulic system ensures continuous paving operation
- Multiple test ports to check the hydraulic system health when needed
- Centralized one piece hydraulic valve manifolds

## Smart solutions that reduces maintenance

Dynapac F800 paver is equipped with innovative ideas that reduce time consuming maintenance activities.

- Grease/oil less fiberglass bushings on the bogie spindles
- Centralized greasing location for conveyor bearings
- Redundant systems that keep the track tension always
- Quick to activate hand pump to disengage track drive
- Quick access to Engine compartment and when needed whole engine platform can be removed for major overhaul

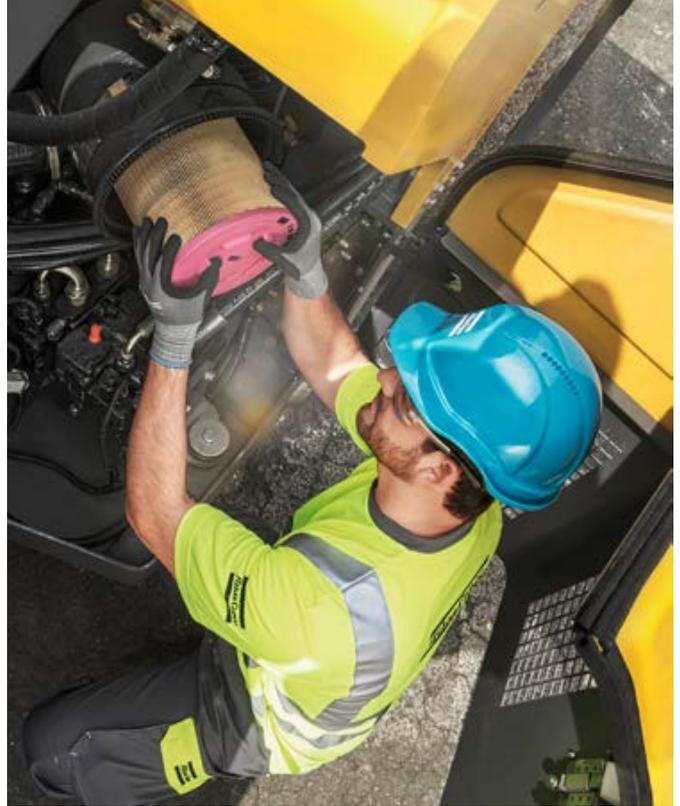


# SERVICE COMMITTED TO YOUR FUTURE

## TRAINING

Atlas Copco Road Construction Equipment division puts a lot of focus on development of local competence within our customer centers and dealers. With many years of experience at our production facilities in handling Road Construction Equipment we have developed training packages that allows our service technicians as well as our customers to develop competence in both equipment application and maintenance. Please check our website for suitable training program or ask our local representative.

[Find a suitable training at dynapac.com / training](http://dynapac.com/training)



## EXTENDED WARRANTY & SERVICE AGREEMENTS

We have developed service agreements based on customer feedback, application know-how, field support knowledge, and product development experience. You can select a service agreement that meets your needs and budget, allowing you to get the most out of your equipment investment.

## UPGRADE KITS

Our upgrade kits are an economical solution that ensures your equipment is up to date with the latest Atlas Copco technology. Upgrades are based on proven technological solutions, readily available and easily installed. They will maximize your equipment's productivity and market value, as well as optimize your equipment's efficiency, to increase your profits.



## ALL-IN-ONE BOX KITS

An all-in-one box, tailored to match your equipment. The parts you need, when you need them! An all-in-one box contains all the parts required as part of the equipment's scheduled maintenance program. When installed by an Atlas Copco certified technician, you keep your downtime to a minimum and your equipment in top condition its entire life.

Easy to obtain and attractively priced, the most effective solution to keep your maintenance budget low.

[Find a suitable kit at dynapac.com / kitselector](http://dynapac.com/kitselector)

## FLUIDS

- The right fluid optimizes machine performance
- Simplified selection process, less time spent on finding the right oil
- Delivery in a handy container, no need for transfer from an oil drum
- All-in-one delivery, less time spent on waiting and dealing with different suppliers
- One invoice, less administration

[Find a suitable fluid at dynapac.com / fluidselector](http://dynapac.com/fluidselector)

## GO MOBILE

### Construction App

Find all the information about Atlas Copco Construction Technique's products and services.

### Parts Online

User-friendly platform to find the spare parts and catalogues for construction equipment.

### Shop Online

Handle your orders 24 hours a day. Fast, easy and safe.



## TECHNICAL DATA

<b>CAPACITY</b>	<b>F800T</b>	<b>F800W</b>
Transport width	8ft 6in	8ft 6in
Transport length	19ft 7in	20ft 3 in
Transport height	9ft 6in	9ft 8in
Deck height	64 in	66.5 in
Max. working width	19 ft	19 ft
Weight (Tractor Only)	34,000 lbs	31, 900 lbs
Weight with front extension screed	40,250 lbs	38, 150 lbs
Theoretical placement capacity	1000 t/h	1000 t/h
Practical placement capacity	600 t/h	600 t/h
Placement thickness (max/min)	12/-6 in	12/-6 in
<b>TRACK/WHEEL UNNDERCARRIAGE</b>		
Track Length and Width	108 x 16 in	
Tire Size Rear		2 x 16.00-20 E-7
Wheel Size Front		4 x 14 in x 20 in
Paving speed 1	0-89 ft/min	0-116 ft/min
Paving speed 2	0-200 ft/min	0-255 ft/min
Transport speed	0-8.5 mph	0-11 mph
<b>ENGINE</b>		
Model	Cummins QSB 6.7	Cummins QSB 6.7
Rated Power & Emission	173 hp @ 2300 rpm T4 Final	173 hp @ 2300 rpm T4 Final
Electrical System	24V	24V
Fuel Tank Capacity	85 Gal	80 Gal
<b>MATERIAL FEED SYSTEM</b>		
Hopper Capacity	200cu.ft / 13.5 Tons	200cu.ft / 13.5 Tons
Hopper width	130 in	130 in
Conveyor type	Dual Independent Slat system	Dual Independent Slat system
Conveyor width	2 X 20 in	2 X 20 in
Auger type	Center Drive, Independent System	Center Drive, Independent System
Auger diameter	17 in	17 in
Auger Heigh Adjustment	Hydraulic, 10 in	Hydraulic, 10 in
<b>OPERATOR CONSOLE</b>		
Type	Ergonomic Dual Swing Out fully functional Consoles	Ergonomic Dual Swing Out fully functional Consoles
Features	Simplified smart switches, Multifunction display Cup Holder	Simplified smart switches, Multifunction display Cup Holder
<b>GENERATOR</b>		
Drive and location	Hydraulic drive, Tractor Mounted	Hydraulic drive, Tractor Mounted
Capacity	34 kW, 1 Ph 240 V	34 kW, 1 Ph 240 V

## COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time.

This is what we call - Sustainable Productivity.

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**Atlas Copco**