



SIDDHIVINAYAK
engineering company

A Unique Combination
of Quality & Productivity



Manufacturer of Asphalt & Concrete Equipment

www.siddhivinayakengg.com

About us

About Us

Welcome to Siddhivinayak Engineering Company, a leading manufacturer, exporter, and supplier of high-quality construction and road maintenance equipment. Established in 2010 in Mehsana, Gujarat, India, we have rapidly carved out an outstanding position in both the domestic and global markets through brilliant technical expertise and modern infrastructural capabilities.

We specialize in developing and manufacturing a comprehensive range of machines essential for infrastructure development, including Kerb Laying Machines, Slipform Paver Machines, Chip Spreader Machines, Kerb Cutting Machines, Road Broomer Machines, Concrete Asphalt Cutting Machines, and various Kerb Moulds. Our products are fabricated using the highest quality raw materials and contemporary technology, ensuring supreme quality, durability, and extensive application across the construction and cleaning industries.

Our Vision

Our vision is to consistently maintain our role as a pacesetter for the future of the construction equipment industry. We are committed to total development, focusing intently on creating and delivering innovative, high-quality products designed to serve the evolving needs of both the international and Indian markets. We strive to be recognized globally for our excellence in engineering and our unwavering commitment to product superiority.

Why Us?

Choosing Siddhivinayak Engineering Company means partnering with a reliable, quality-driven manufacturer. Our commitment to excellence is reflected in several key advantages we offer:

- **Uncompromising Quality Standards:** We adhere strictly to international quality benchmarks, ensuring every machine we produce is robust, highly durable, and efficient.
- **Technical Expertise & Innovation:** Our products are backed by modern infrastructure and an experienced Research & Development (R&D) department, allowing us to continuously innovate and maintain a large, technologically advanced product line.
- **Customized Solutions:** We provide customized solutions to meet the unique specifications and requirements of our clients, ensuring perfect integration into their projects.
- **Timely Execution and Logistics:** We guarantee the timely delivery of consignments through effective logistic planning and a wide, efficient distribution network, ensuring your project timelines are met.
- **Cost-Effectiveness:** We offer industry-leading prices without compromising on quality, providing superior value for your investment in construction equipment.



Siddhivinayak Engineering Company: A Decade of Excellence and Innovation

Since its establishment in 2010, **Siddhivinayak Engineering Company** has embarked on a journey defined by relentless development and manufacturing of cutting-edge products, successfully carving out a significant position in the global market. Our initial focus on specialized construction and industrial machinery, such as Slipform Paver SP 1080, quickly evolved, driven by continuous research and development (R&D). This commitment ensures that we consistently enhance the performance, quality, and durability of our equipment, pioneering solutions that meet the ever-changing demands of the construction and industrial sectors.

The cornerstone of our success is the profound importance we place on our customers. We understand that our machines are indispensable tools on critical projects, and therefore, our operational ethos is rooted in delivering supreme quality and fostering complete customer satisfaction. Every machine, from design to final assembly, is subject to rigorous quality checks to guarantee its integrity and efficiency. We are proud that our machines are recognized in the industry for being easy to operate, highly reliable, and exceptionally productive, translating directly into better outcomes and reduced operational downtime for our clients.

As we look forward, our vision remains clear: to be a sustained partner and "Vendor of Choice" by combining technical excellence, advanced infrastructure, and an unwavering commitment to our customers. Our journey is a testament to the power of continuous innovation and the dedication to providing tailored, high-performance engineering solutions that empower our clients worldwide.



Principle of Operation: Siddhivinayak Slipform Paver

SLIPFORM PAVER

Model: SP 1080

The working principle of our Slipform Paver is centered on precision, consolidation, and continuous operation, allowing for the rapid and high-quality production of concrete structures like safety barriers, median dividers, gutters, side walk and kerbs.

1. Material Feeding and Delivery The process begins when ready-mix concrete is delivered to the machine. The concrete is fed directly into a receiving hopper or transferred via a conveyor system, ensuring a continuous supply. This system is designed for quick and efficient material flow, minimizing interruptions.

2. Electronic Guidance and Control Our machines use advanced electronic guidance systems that follow a pre-set string line (a guide wire). Sensors on the paver constantly read this string line to control both the machine's steering (horizontal alignment) and the mould's height (vertical elevation). This ensures the finished concrete structure is laid with precise, millimetre-perfect accuracy, adhering exactly to project specifications.



3. Forming and Consolidation The core of the operation is the slipform mould. As the paver slowly moves forward on its reliable tracks, the concrete is pushed and funneled into this mould. Powerful, high-frequency internal vibrators work to consolidate the concrete as it passes through the mould. This critical step removes air voids, maximizing the concrete's density and strength, which is essential for long-term durability.

4. Continuous Extrusion Because the concrete is highly consolidated and the mould is designed to retain the shape, the concrete structure is continuously extruded or “slipped” out of the rear of the paver. The machine is essentially a moving factory, leaving behind a finished, structurally sound concrete element that requires minimal finishing work.

This seamless process ensures high productivity, reliability, and minimal labor requirements, delivering on our promise of machines that are easy to operate and exceptionally productive.

Building the Foundation

The Siddhivinayak Slipform Paver (SP 1080) efficiently creates a seamless, durable concrete safety barrier along the edge of the infrastructure project. Guided by precision technology, the machine ensures high-quality construction is delivered rapidly and reliably, moving essential projects forward.



The Power Behind Precision: Core Technology

PERKINS POWER

WORLD CLASS RELIABILITY.

Equipped with the renowned Perkins 1,100 Series water-cooled engine, delivering 74.5 kW (100 HP). This robust unit ensures consistent power, low vibration, and exceptional fuel efficiency, consuming only 12–13 Liters/Hour at full load.

MAXIMUM PROFILE VERSATILITY

Designed for Offset Paving, the SP 1080 handles profiles up to 1,600 mm wide and 1,300 mm high. The right-side mould arrangement and 300 mm lateral adjustment guarantee precision placement for complex kerbs, barriers, sidewalks and gutters.

HIGH-CAPACITY MATERIAL FEEDING

The robust 4,900 mm long, 500 mm wide Belt Conveyor ensures a continuous, high-volume flow of concrete to the mould, minimizing interruptions and maximizing laying capacity and speed (up to 5 m/min).

UNWAVERING STABILITY & DRIVE

The heavy-duty, 10,300 kg machine is mounted on a three-track unit system (1 Front / 2 Rear) for unparalleled stability and traction. Hydraulic height adjustment (800 mm) allows fast and precise levelling.

OPTIMUM CONCRETE COMPACTION

Six independent hydraulic vibration connectors are built into the machine, guaranteeing high-frequency compaction to eliminate voids and achieve maximum density for superior concrete strength and durability in the final profile.



Uninterrupted Flow: The Concrete Delivery System

HIGH-CAPACITY BELT CONVEYOR

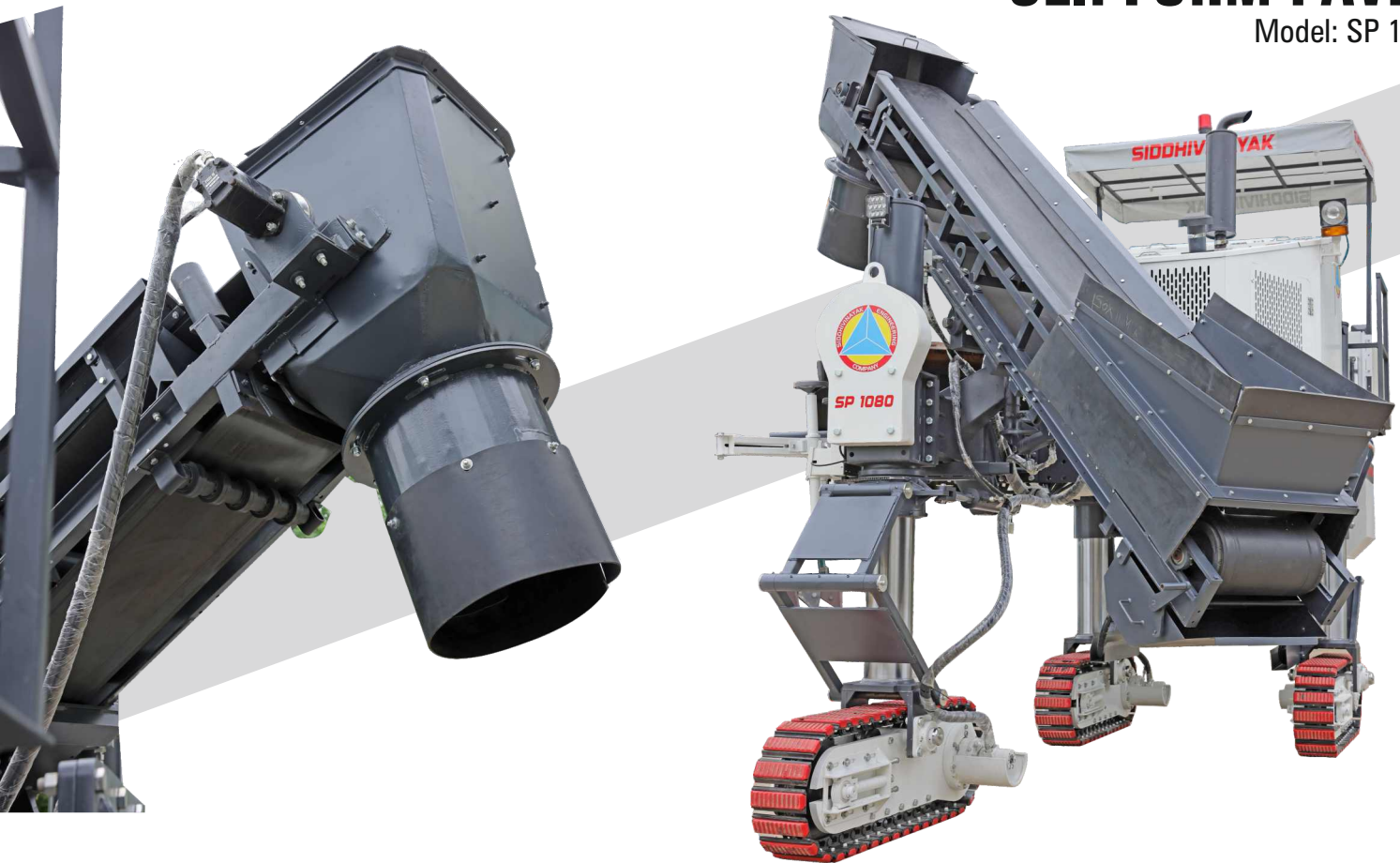
The heavy-duty belt conveyor measures 4,900 mm in length with a 500 mm wide belt, engineered to handle large volumes of concrete from a transit mixer. Its design minimizes spillage and maximizes the feed rate for non-stop paving.

HYDRAULIC FLEXIBILITY

The conveyor is fully hydraulic, adjustable in height, slew, and angle. This dynamic positioning ensures optimal material input regardless of the job site's geometry or the location of the concrete supply truck.

SLIPFORM PAVER

Model: SP 1080



Stability and Control: Tracks and Panel Box

THREE-POINT TRACK SYSTEM

The machine operates on a sturdy three-track unit arrangement (1 Front / 2 Rear), providing exceptional ground contact, stability, and gradeability. Each track unit is individually driven and steered for precise path correction.



SLIPFORM PAVER

Model: SP 1080

Ergonomic Panel Box

The intuitive, manually controlled operator's station and panel box provide a clear, centralized view of the machine status, hydraulic functions, and steering controls, ensuring the operator can maintain high accuracy and efficiency.



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Bridge Parapet Construction

The Siddhivinayak Slipform Paver is shown working high on the elevated structure, efficiently constructing the critical concrete parapet (safety barrier). Using its continuous slipforming method, the paver ensures the bridge's edge wall is formed with immense precision and structural integrity. This application highlights the machine's versatility and reliability in creating essential safety infrastructure for major highway and bridge projects.

SLIPFORM PAVER

Model: SP 1080



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Custom-Engineered Moulds for Every Specification

Our commitment to quality extends to every component, especially the slipform moulds. The heavy-duty mould shown is a prime example of our custom-built engineering. We design and manufacture all moulds precisely to match specific application requirements—whether for complex bridge parapets, specialized kerbs, or drains. This customization ensures that the final concrete structure perfectly adheres to the project's design and dimensional specifications, delivering unmatched precision and structural fit on every job site.



SLIPFORM PAVER

Model: SP 1080





The Human Element

While advanced equipment like our Slipform Paver provides the precision, the success of any infrastructure project relies on the skill and dedication of the site team. Here, the crew works meticulously on the newly poured bridge parapet, performing crucial finishing and detailing work. Their expertise ensures the structural integrity and smooth aesthetic finish of the concrete, transforming the machine's high output into a lasting, quality structure. It is this combination of reliable machinery and committed manpower that drives project excellence.



SLIPFORM PAVER

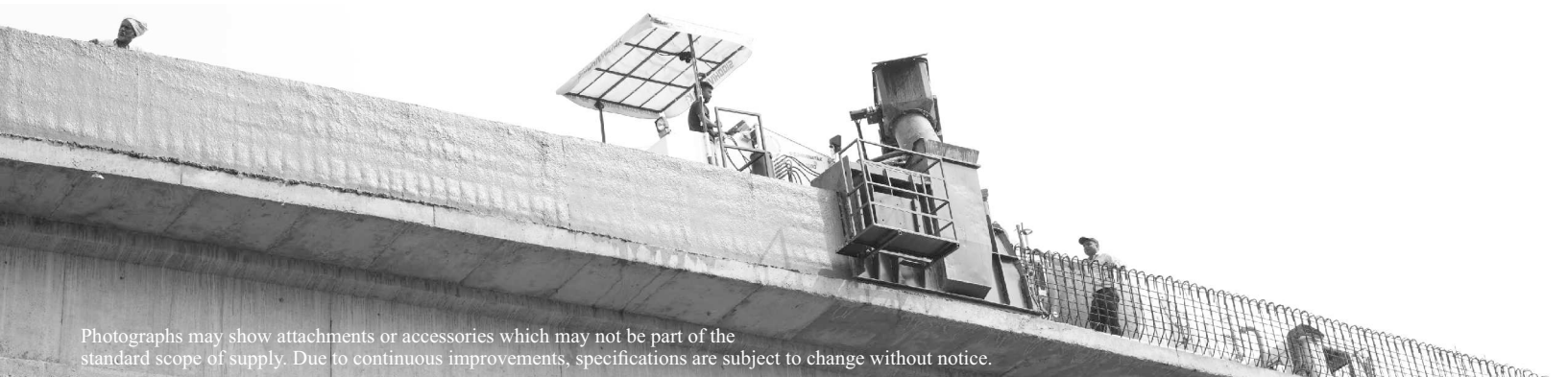
Model: SP 1080



Precision Consolidation System

The paver's high-frequency vibrators are strategically mounted on the mould hopper to initiate concrete consolidation. Their primary function is to eliminate entrapped air and maximize density by momentarily fluidizing the mix, allowing gravity to pack the material tightly into the mould.

Vibrator positioning is critical for two reasons: ensuring uniform mould filling (especially around reinforcement) and guaranteeing a smooth surface finish by eliminating bug holes. The mounting hardware is easily adjustable to quickly accommodate different mould shapes and sizes, ensuring optimal consolidation for every application, from simple kerbs to complex bridge parapets.



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Post-Paving Maintenance

Immediate and thorough cleaning is a non-negotiable step for maintaining the precision and extending the lifespan of the Siddhivinayak Slipform Paver. As the image demonstrates, an operator uses the integrated or auxiliary high-pressure wash pump immediately after the concrete pour is completed. This rigorous protocol is critical for both the mechanics and the electronic systems of the machine.

The Function of High-Pressure Cleaning:

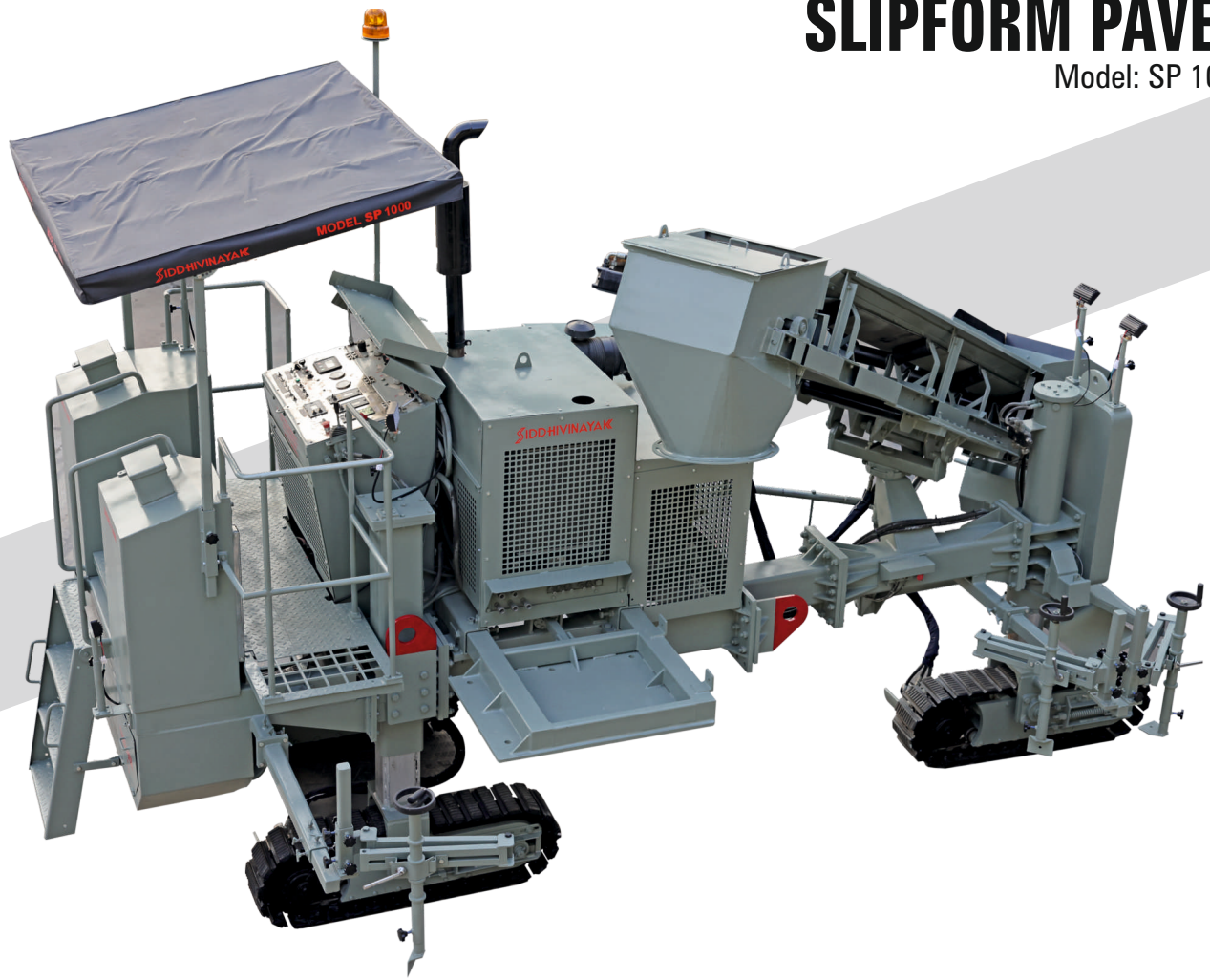
1. **Preventing Buildup and Protecting Components:** The high-pressure spray is essential for rapidly removing wet concrete splatter from all contact surfaces before it begins to cure. Concrete residue, if left to harden, severely restricts the movement of tracks, rollers, and movable frame sections, leading to increased friction, excessive wear, and potential component breakage.
2. **Corrosion and Longevity:** Concrete is highly alkaline. By thoroughly washing all metal surfaces and hydraulic components, the cleaning process prevents chemical corrosion and premature deterioration. This dedication to maintenance guarantees the machine remains reliable and exceptionally productive, ensuring maximum operational life and consistently high-quality output for every paving shift.

TECHNICAL SPECIFICATIONS**SP 1080**

Range of Applications	Offset Paving
Concrete Feeding System	
Belt conveyor	Length: 4,900 mm; belt width :500 mm
Concrete Paving Mould	
Arrangement	Right
Lateral adjustment of mould	300 mm
Max. mould height	1,300 mm
Max. mould width	1,600 mm
Vibration	
Standard Connectors for hydraulic vibration	6
Optional Connectors for hydraulic vibration	3
Engine	
Engine manufacturer	Perkins
Type	1,100 Series
Cooling	Water
Number of Cylinders	4
Rated power at 2200 rpm	74.5 kW/ 100 HP
Cubic Capacity	4.4 Litres (269 CU.IN.)
Fuel Consumption, Full load	12 to 13 Litre / Hour
Exhaust emission standards	EU Stage 3a/US Tier 3
Electrical System	
Voltage supply	12V
Filling Capacities	
Fuel	220 L
Hydraulic oil	230 L
Water	220 L
Cleaning Equipments	Heavy Duty Water Pump
Driving Performance	
Operating speed	0 to 5 m/min
Travel speed	0 to 20 m/min
Track Units	
Number of track units	3
Track unit arrangement	1 x Front / 2 x Rear
Dimensions (L x W x H)	1,630 mm x 230 mm x 550 mm
Height Adjustment of Machine	
Hydraulic height adjustment	800 mm
Mechanical height adjustment	NO
Transport Dimensions (L x W x H)	
Basic machine without concrete feeding system	6,000 mm x 2,400 mm x 3400 mm
Basic machine with belt conveyor	6,000 mm x 3,200 mm x 3,400 mm
Belt conveyor without chute	4,300 mm x 900 mm x 600 mm
Machine Weight	
Operating Weight	10,300 kg
Belt conveyor	1,150 kg

SLIPFORM PAVER

Model: SP 1000



SP 1000 High-Capacity Kerb and Barrier Paving

The **Siddhivinayak SP 1000 Slipform Paver** is the ideal solution for projects requiring specialized, high-capacity concrete structures. This versatile machine is engineered to handle kerbs and barriers with maximum dimensions of **1,050 mm in height and 1,450 mm in width**. Its compact design and precise guidance system allow it to deliver superior quality and smooth finishes, making it exceptionally productive for building large safety barriers, specialized drainage channels, and median strips.

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Siddhivinayak Engineering Company's range of Slipform Pavers the **SP 1080** and **SP 1000** models represents the pinnacle of precision, reliability, and productivity in concrete infrastructure construction.



SLIPFORM PAVER

Model: SP 1080

The Flagship SP 1080: Versatility and Power

The SP 1080 model is our robust solution for large-scale, continuous paving operations, frequently deployed for critical safety structures like bridge parapets and highway barriers. Its design emphasizes:

- **Continuous High Output:** The integrated hydraulic conveyor ensures a non-stop material supply, leading to high-speed paving efficiency.
- **Millimetre-Perfect Accuracy:** Advanced electronic guidance guarantees precise alignment, adhering strictly to project standards.
- **Longevity:** Features like the **high-pressure cleaning system** prevent wear, maximizing operational life and reliability.

The Specialized SP 1000: Capacity and Flexibility

The SP 1000 model is strategically designed for applications requiring specialized capacity and maneuverability. Its key features center around its impressive forming capacity:

- **High-Capacity Forming:** The SP 1000 is built to handle concrete elements up to **1,050 mm in height** and **1,450 mm in width**, making it ideal for large kerbs, specialized drainage channels, and substantial median barriers.
- **Custom Mould Integration:** Both models utilize **custom-engineered moulds** which are precisely tailored for each specific structure, guaranteeing the correct dimensional and structural fit every time.

A Unified Standard of Quality

Ultimately, both the SP 1080 and SP 1000 combine the **precision of slipforming** with our unwavering commitment to quality. Choosing Siddhivinayak is choosing a partnership built on **reliability, superior productivity, and engineering excellence** that drives the future of infrastructure.

TECHNICAL SPECIFICATIONS

SP 1000

Range of Applications	Offset Paving
Concrete Feeding System	
Belt conveyor	Length: 4,900 mm; belt width :500 mm
Concrete Paving Mould	
Arrangement	Right
Lateral adjustment of mould	300 mm
Max. mould height	1,050 mm
Max. mould width	1,450 mm
Vibration	
Connectors for hydraulic vibration	6
Engine	
Engine manufacturer	Perkins
Type	1,100 Series
Cooling	Water
Number of Cylinders	4
Rated power at 2200 rpm	67 kW/ 90 HP
Cubic Capacity	4.4 Litres (269 CU.IN.)
Fuel Consumption, Full load	10 to 11 Litre / Hour
Exhaust emission standards	EU Stage 3a/US Tier 3
Electrical System	
Voltage supply	12V
Filling Capacities	
Fuel	200 L
Hydraulic oil	210 L
Water	200 L
Cleaning Equipments	Heavy Duty Water Pump
Driving Performance	
Operating speed	0 to 5 m/min
Travel speed	0 to 15 m/min
Track Units	
Number of track units	3
Track unit arrangement	1 x Front / 2 x Rear
Dimensions (L x W x H)	1,500 mm x 230 mm x 4700 mm
Height Adjustment of Machine	
Hydraulic height adjustment	500 mm
Mechanical height adjustment	NO
Transport Dimensions (L x W x H)	
Basic machine without concrete feeding system	5,800 mm x 2,300 mm x 3100 mm
Basic machine with belt conveyor	5,800 mm x 3,100 mm x 3100 mm
Belt conveyor without chute	4,300 mm x 900 mm x 600 mm
Machine Weight	
Operating Weight	9,160 kg
Belt conveyor	1,150 kg

KERB PAVER MACHINE

Model: SKM 540



TECHNICAL SPECIFICATIONS

Kerb Laying Capacity	Maximum 750 mm (W) X 575 mm (H)
Engine	Yanmar make Water Cooled Diesel Engine Generating 36 HP (27.2 kW)
Vibrators	Wyco USA
Hopper Capacity	0.5 cubic meters
Electrical System	12V DC, Battery : 75 AH
Steering Type	Power Steering
Sensing	Moba Control System
Breaking System	Through planetary gear box with integrated hydro motor and brake.
Cylinders	Lift Front and Steer 12" X 3"
Capacities	Fuel 46 ltr. / Hydraulic 120 ltr.
Wheels	Heavy duty solid rubber tyres on heavy duty rims. Cast steel hubs and heavy duty Stub axles on rocker beam for more consistent grade control.
Speed	Operating Speed - 2/3 mtr/min. & Travel Speed 15 mtr/min.
Shipping Dimensions (LxWxH)	3870 mm (12' 8") X 2305 mm (7' 7") X 1440 mm (4' 9")
Shipping Weight	3950 kg

World Class Components

YANMAR Diesel Power	Quiet & Reliable
REXROTH Hydraulic Pumps	Top Quality
WYCO Vibrators	Best Performance
MOBA Sensing System	Use by pavers world wide
FAIRFIELD "Torque Hub"	A field leader
PARKER drive motor	Accepted world wide
FILTREC Filtration System	Best Quality

Yanmar TNV Series Diesel Engine



Quick Change Mould Design Fully Hydrostatic Drive



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KERB PAVER MACHINE

Model: SKM 60

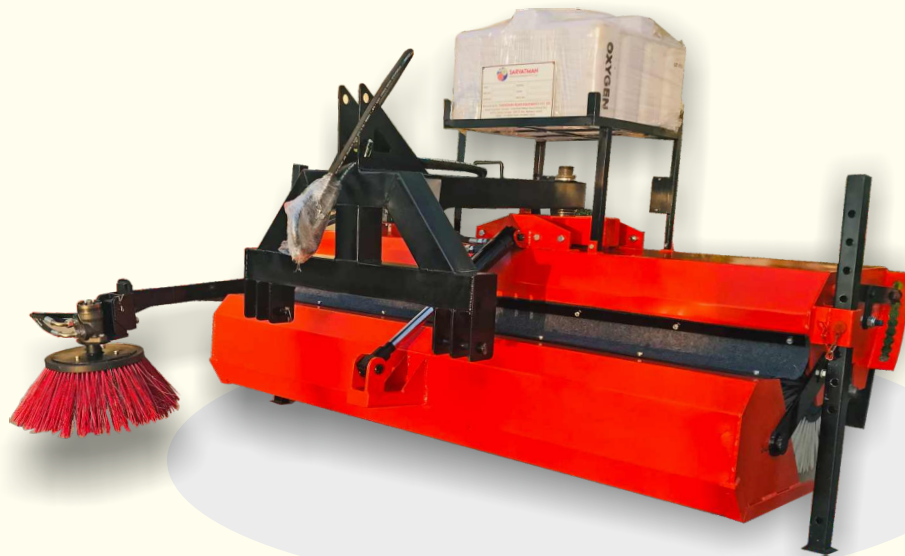


TECHNICAL SPECIFICATIONS

Engine	16 HP Petrol / 10 HP Diesel Engine
Steering Control	Auto / Manul
Height Control	Auto / Manul
Drives	Main Drive - 5/8" Pitch Duplex Chain / Hydraulics - V Belt
Compaction Method	By Ramming Mechanism
Minimum Radius of Kerb	2.4 mtr
Laying Speed	60 to 70 mtr / hour
Slump Range	Zero Slump
Details of Vibrator	Nil
Fuel Consumption	Petrol Engine :- 3.5 ltrs/hour & Diesel Engine :- 1.5 ltrs/hour
Acuracy	3 to 5 mm
Length (Without Mould)	1945 mm
Length (With Mould)	2710 mm
Height	930 mm
Width	1155 mm
Weight with Mould	915 kgs
Material Feeding (Concrete)	By Transit Mixer or a Flat Bed Trusk (Tractor Trolley)
Charge Hopper Capacity	0.21 m ³
Moulds	M. S. Moulds to Customer Specification
Accessorits	String line assembly, Finishing Tools



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HYDRAULIC ROAD SWEEPER



CONCRETE CUTTING MACHINE SCCM 750



AGGREGATE CHIP SPREADER



KERB CUTTING MACHINE SKCM 610



KERB CUTTING MACHINE SKCM 800

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