



# **CRUSHING & SCREENING PLANTS**

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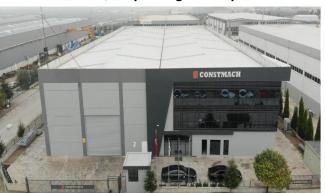
**CONSTMACH** is the leading manufacturer of concrete plants and crushing & screening equipment in Turkey. Mobile crushing and screening plants, cement silos, and gravel screening and washing plants are other product types manufactured by **CONSTMACH**.

**CONSTMACH** manufactures its products at its four factories located in İzmir, Turkey.

Our products are exported to over 85 countries across five continents, including the USA, Germany, France, Spain, Canada, Mexico, the Netherlands, Belgium, Switzerland, Sweden, Poland, Bulgaria, Slovenia, Slovakia, Serbia, Hungary, Romania, Latvia, Ukraine, Russia, Egypt, Morocco, Algeria, Bahrain, Kuwait, Oman, Senegal, Cameroon, Niger, Guinea, Somaliland, and many others where our plants are preferred by our clients.

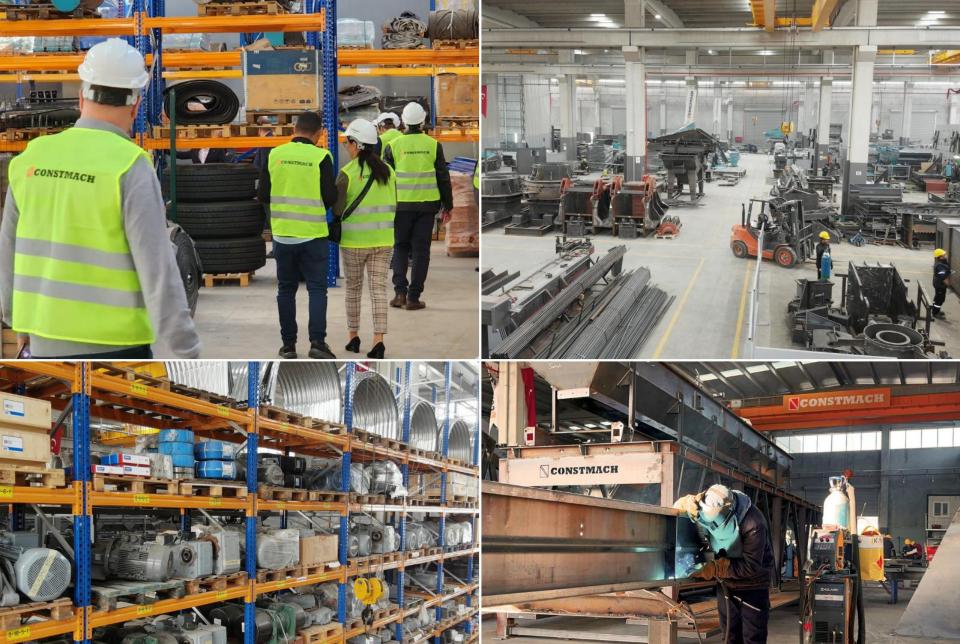
Our primary goal is to manufacture plants and machinery that fully satisfy our clients' needs while maintaining the reliability of our company name. Customer satisfaction is the most important business criterion for our company.

**CONSTMACH** designs and produces its equipment with a human-centered approach, respecting the environment and prioritizing occupational health and safety. **CONSTMACH** is a customer-focused, team-oriented, and quality-assurance-driven company. Commitment to customer relationships is always our top priority. Our **ISO 9001:2015 Quality Management System Certificate** and **CE Certificate** are key indicators of our quality policy.













**CONSTMACH** designs and manufactures stationary crushing and screening plants with various configurations and capacity options to meet clients' needs and preferences. The production capacity of our crushing and screening plants ranges from **50 to 1,000 tons per hour**.

The configurations and layouts of our crushing and screening plants are determined based on several criteria, including:

- 1. Required production capacity,
- 2. Type, hardness, and abrasiveness of the material to be crushed,
- 3. Maximum feeding size of the material,
- 4. Required final fraction sizes.

Our design team configures different layouts using various types and sizes of feeders, crushers, screens, hoppers, washers, and conveyors. Our primary goal is to assist our clients in selecting the most suitable designs based on their actual needs, helping them avoid misinvestments that could lead to financial waste or high operational costs.



# MOBILE CRUSHING PLANTS



JC and JCV Series: Mobile Hard Stone Crushers
JS Series: Mobile Jaw and Impact Crushers
V & T Series: Mobile Sand Making Plants
PI Series: Mobile Limestone Crushers



**CONSTMACH** manufactures various sizes and types of mobile crushing plants, classified into four different groups:

### JC and JCV Series – Mobile Hard Stone Crushing Plants

CONSTMACH mobile hard stone crushers are the perfect solution for crushing extremely hard rocks with high abrasiveness and high silica (SiO<sub>2</sub>) content, such as granite, basalt, and gabbro. They can also process other types of stones, including limestone, river stone, and dolomite. The primary jaw crusher allows for the crushing of large and hard rocks, while the secondary cone crusher ensures efficient second-stage crushing of even the toughest materials.

#### JS Series – Mobile Jaw and Impact Crushers

These mobile crushing plants combine a **jaw crusher and an impact crusher**, making them a specific yet widely used member of the **CONSTMACH Mobile Crushing Plant range**. They are suitable for processing a variety of rocks, from **limestone to basalt**. The **primary jaw crusher** crushes large, hard rocks, while the **secondary impact crusher** produces well-shaped final products with a cubic form. Additionally, these plants are commonly used for **recycling building demolition materials**.

### V and T Series – Mobile Sand Making Plants

CONSTMACH manufactures different types and sizes of **mobile sand-making plants**. Their configurations are similar to other mobile crushing plants, but they are classified as **"mobile sand-making plants"** because they incorporate a **Vertical Shaft Impact (VSI) crusher or a tertiary impact crusher**. These plants are ideal for applications requiring a high percentage of fine material. If more than **50% of the total production needs to be 0-4 mm fine fractions**, CONSTMACH mobile sand-making plants are the ideal choice.

#### PI Series - Mobile Limestone Crushing Plants

CONSTMACH mobile limestone crushers are specifically designed for processing softer stones, such as limestone. For this reason, they are often referred to as "mobile limestone crushers". In addition to limestone, these crushers can efficiently process other soft to mediumhard stones.



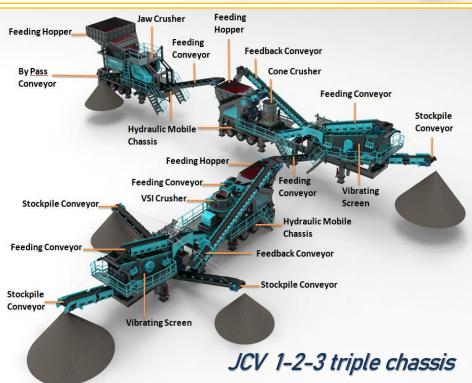
A mobile hard stone crusher is the perfect solution for crushing extremely hard rocks with high abrasiveness and a high silica (SiO<sub>2</sub>) content, such as granite, basalt, and gabbro. The primary jaw crusher enables the processing of large and hard rocks, while the secondary cone crusher ensures efficient second-stage crushing of even the toughest materials.

The key difference between the JCV series and the JC series crushing plants is the presence of a VSI crusher as a third-stage crusher in the JCV series. This additional VSI crusher significantly enhances the production of cubical-shaped final products with a higher fine material ratio, making the JCV series an excellent choice for applications requiring superior particle shape and finer output.



## MOBILE HARD STONE CRUSHING PLANTS





CJC-60, CJC-90, and CJC-110 are the primary jaw crusher models used in JC-1, JC-2, and JC-3, respectively. As with all other CONSTMACH mobile crushers, the main components of the plant include the feeding hopper, grizzly feeder, by-pass (soil) belt conveyor, feeding conveyor between the jaw and cone crusher, vibrating screen, feedback and stockpile conveyors, wheeled mobile chassis, and dust removal and control systems. If needed, a diesel-electric generator can be installed on the chassis of the plant.

On the first trailer, the feeding hopper, jaw crusher, feeding conveyor, and by-pass conveyor are present. The second trailer includes the feeding hopper, cone crusher, vibrating screen, and feeding, feedback, and stockpile conveyors. A dust removal system is present on both chassis. On the other hand, all JCV series crushers have three separate trailers. In other words, the "JCV" series is a combination of the "JC" series mobile hard stone crushers and the "V" series mobile sand-making plants. The VSI 700 CR, VSI 800 CR, and VSI 900 CR crushers are used in JCV-1, JCV-2, and JCV-3, respectively.

Generally, all models include three different stockpile conveyors. However, depending on the client's needs, an additional deck can be added to the screen along with a stock conveyor, allowing for the production of a fourth fraction.



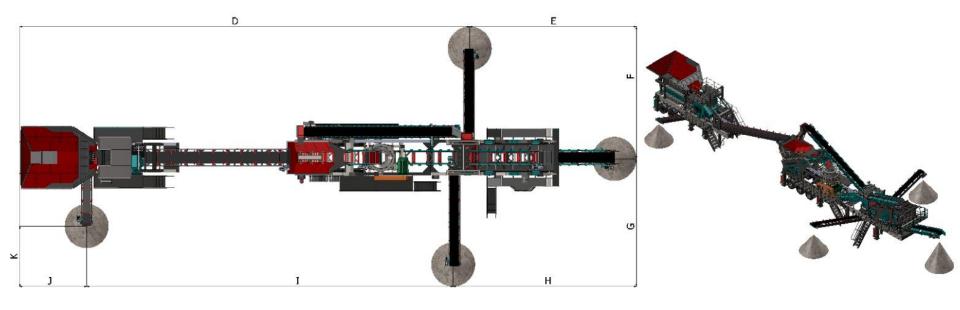


## JC AND JCV SERIES TECHNICAL SPECIFICATIONS

Model	Production Capacity (t/h)	Configuration of the Plant	Chassis Type	Maximum Feeding Size (mm)	Total Motor Power (kW)	Transport Dimensions (m)	Electric Generator Requirement (kVA)	Total Plant Weight (ton)
JC-1	60-80 t/h	Jaw Crusher	Double Chassis	610 x 380 mm	200 kW	10(L) x 3.1(W) x 4.4(H) m 17(L) x 3.8(W) x 4.4(H) m	400 kVA	60 tons
JC-2	120-150 t/h	+ Cone Crusher + Vibrating	Double Chassis	900 x 650 mm	315 kW	11.7(L) x 3.5(W) x 4.3(H) m 20(L) x 3.85(W) x 4.5(H) m	650 kVA	80 tons
JC-3	250-300 t/h	Screen	Double Chassis	1.100 x 850 mm	450 kW	13(L) x 3.4(W) x 4.5(H) m 20(L) x 4.4(W) x 4.5(H) m	800 kVA	100 tons
JCV-1	60-80 t/h	Jaw Crusher	Triple Chassis	610 x 380 mm	370 kW	10(L) x 3.1(W) x 4.4(H) m 17(L) x 3.8(W) x 4.4(H) m 17.8(L) x 3.35(W) x 4.3(H) m	750 kVA	90 tons
JCV-2	120-150 t/h	Cone Crusher + VSI Crusher +	Triple Chassis	900 x 650 mm	705 kW	11.7(L) x 3.5(W) x 4.3(H) m 20(L) x 3.85(W) x 4.5(H) m 18.8(L) x 3.65(W) x 4.4(H) m	1.100 kVA	120 tons
JCV-3	250-300 t/h	Vibrating Screen	Triple Chassis	1.100 x 850 mm	905 kW	13(L) x 3.4(W) x 4.5(H) m 20(L) x 4.4(W) x 4.5(H) m 20.8(L) x 3.85(W) x 4.5(H) m	1.500 kVA	145 tons

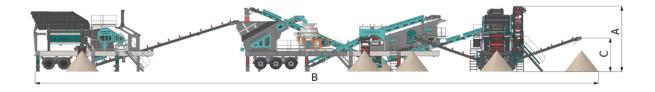
## JC SERIES MOBILE HARD STONE CRUSHING PLANTS MAIN SIZES

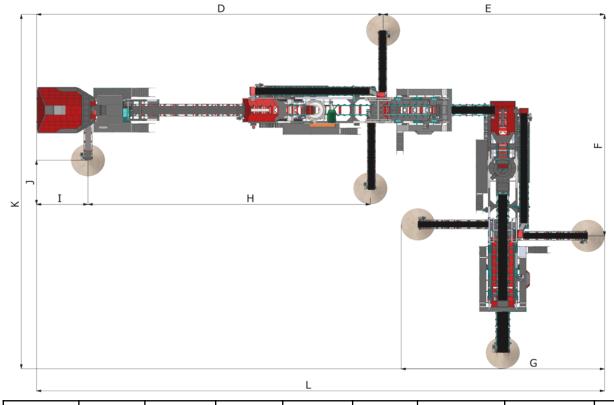




Model	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0
JC-1	5.074	39.913	3.475	30.389	10.260	8.945	8.323	11.498	24.037	3.558	3.314	1.719	2.931	17.275	2.931
JC-2	5.622	41.789	3.851	30.787	11.405	9.038	8.718	12.538	25.078	4.576	4.123	2.277	3.125	17.762	3.125
JC-3	6.229	43.754	4.268	31.193	12.678	9.132	9.132	13.672	26.163	4.035	5.129	3.017	3.332	18.264	3.332

## JCV SERIES MOBILE HARD STONE CRUSHING PLANTS MAIN SIZES







Model	Α	В	С	D	E	F	G	H		J	K
JCV-1	6.030	47.332	1.408	30.787	16.942	8.498	11.235	25.078	4.576	4.123	16.848
JCV-2	6.068	48.689	2.265	30.787	18.305	14.600	14.655	25.078	4.576	4.123	24.985
JCV-3	6.106	50.046	3.122	30.787	19.668	20.702	18.075	25.078	4.576	4.123	33.122







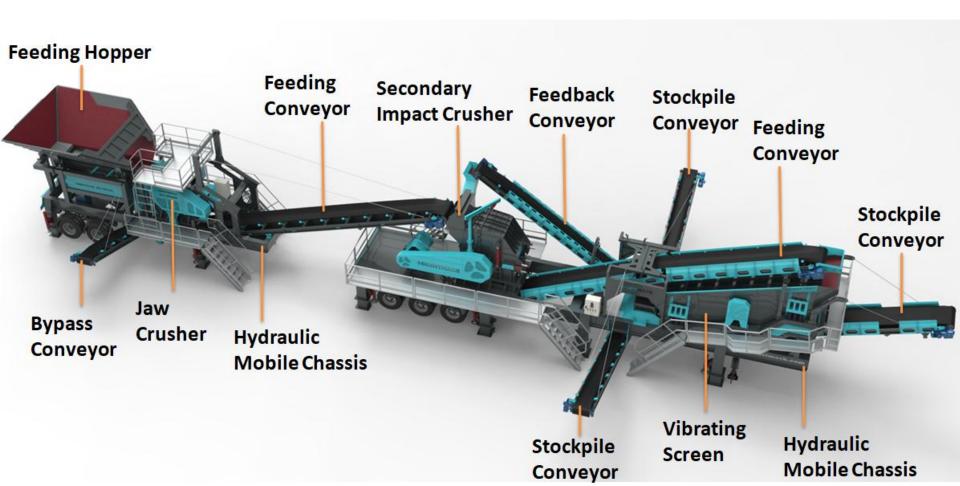
**CONSTMACH mobile jaw and impact crushing plants** are designed to crush a wide range of rock types, from limestone to basalt. The primary jaw crusher efficiently processes large and hard rocks, while the secondary impact crusher ensures the production of well-shaped, cubic final materials. Depending on customer requirements, the final output size can range from **0 to 60 mm**.

### MOBILE JAW AND IMPACT CRUSHING PLANTS

The **CONSTMACH JS Series Mobile Crushing Plant** is an ideal solution for processing low- to medium-hard materials such as limestone, riverstone, dolomite, and basalt. Designed with advanced engineering, high-quality components, and superior craftsmanship, this plant ensures long-lasting durability and optimal performance.

As one of the most innovative technologies in the construction and mining industries, **mobile crushing and screening plants** offer groundbreaking solutions. Among them, **CONSTMACH mobile jaw and impact crushers** stand out as top choices for efficient stone crushing and screening operations.

With exceptional durability, superior performance, and a flexible design, our **mobile crushing plants** help you stay ahead of the competition. Their high efficiency and outstanding quality **enhance productivity while reducing operational costs**. **CONSTMACH mobile crushers** empower businesses to tackle even the most demanding projects with ease and profitability.

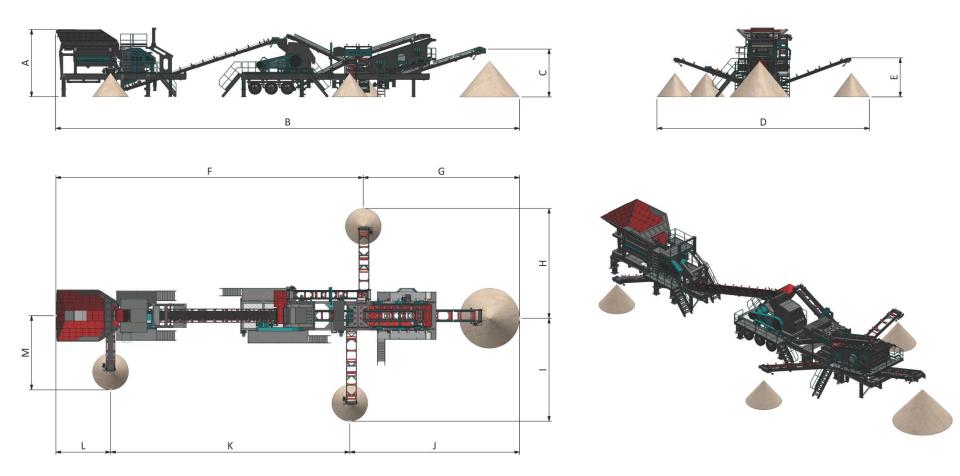


## JS SERIES JAW AND IMPACT CRUSHING PLANTS TECHNICAL SPECIFICATIONS

Model	JS-1	JS-2	JS-3
Production Capacity (t/h)	60 – 80 t/h	120 – 150 t/h	200 – 250 t/h
Configuration of the Plant	10m³ primary hopper Grizzly vibrating feeder CJC-60 Jaw Crusher CSI-1210 Impact Crusher CVS-1640-3 Vibrating Screen	15m³ Primary hopper Grizzly vibrating feeder CJC-90 Jaw Crusher CSI-1212 Impact Crusher CVS-1850-3 Vibrating Screen	20m³ Primary hopper Grizzly vibrating feeder CJC-110 Jaw Crusher CSI-1215 Impact Crusher CVS-2060-3 Vibrating Screen
Maximum Feeding Size (mm)	600 x 380 mm	850 x 600 mm	1.050 x 800 mm
Feeding Height (mm)	5.100 mm	5.600 mm	6.200 mm
Total Motor Power (kW)	275 kW	355 kW	490 kW
Total Plant Weight (ton)	60 ton	80 ton	105 ton
Electric Generator Requirement (kVA)	550 kVA	700 kVA	850 kVA
Transport Dimensions (m)	1st chassis: 11(L) x 3(W) x 4.4(H) 2nd chassis: 17.8(L) x 3.35(W) x 4.3(H)	1st chassis: 11(L) x 3.4(W) x 4.4(H) 2nd chassis: 18(L) x 3.65(W) x 4.5(H)	1st chassis: 13(L) x 3.4(W) x 4.5(H) 2nd chassis: 20(L) x 3.85(W) x 4.5(H)
Chassis Type	Double chassis	Double chassis	Double chassis



## JS-SERIES JAW AND IMPACT CRUSHING PLANTS MAIN SIZES



Model	Α	В	С	D	E	F	G	Н	Ι	J	K	L	М
JS-1	5.100	39.913	3.475	30.389	10.260	8.945	8.323	11.498	24.037	3.558	3.314	1.719	2.931
JS-2	5.602	42.666	3.850	18.774	3.125	30.708	11.959	9.387	9.387	12.949	25.142	4.576	6.184
JS-3	6.229	43.754	4.268	31.193	12.678	9.132	9.132	13.672	26.163	4.035	5.129	3.017	3.332

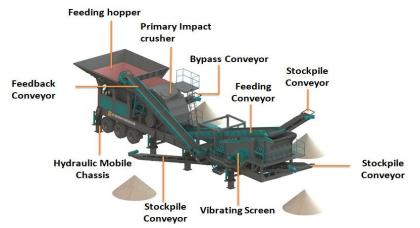


## MOBILE CRUSHING PLANTS FOR LIMESTONE AND SOFT ROCK



The **PI Series Mobile Limestone Plants** are specially designed for crushing softer stones, primarily limestone. This is why they are also known as **"mobile limestone crushers."** However, these versatile plants can also efficiently process other soft to medium-hard stones.

What sets **PI Series crushers** apart from other **CONSTMACH mobile crushing plants** is the type of crusher used: a **primary impact crusher**. Also referred to as **primary impactors** or **rotor crushers**, these machines ensure **efficient**, **high-capacity crushing**, making them an excellent choice for various applications.



**CONSTMACH PI Series** Mobile Limestone Crushing Plants are combination of:

Feeding Hopper with Grizzly Feeder

By-pass (soil) Conveyor

**Primary Impact Crusher** 

Feeding Belt Conveyor

Vibrating Screen with 3 decks

Feedback Conveyor for oversize material

Stockpile Conveyors

Wheeled mobile chassis with hydraulic legs

**Power & Control Panel** 

**Dust Removing System** 

Diesel Electric Generator Set (Optional Application)

### PI SERIES TECHNICAL SPECIFICATIONS

Model	PI-1	PI-2			
Production Capacity (t/h)	150-200 t/h	250-300 t/h			
Configuration of the Plant	15m³ Primary Hopper Grizzly Vibrating Feeder CPI-1412 Primary Impact Crusher CVS-1850-3 Vibrating Screen	25m³ Primary Hopper Grizzly Vibrating Feeder CPI-1415 Primary Impact Crusher CVS-2060-3 Vibrating Screen			
Maximum Feeding Size (mm)	900 x 900 mm	1.000 x 1.000 mm			
Crusher Opening Sizes (mm)	1.345 x 1.100 mm	1.600 x 1.100 mm			
Crusher Rotor Sizes (mm)	Ø1.400 x 1.250 mm	Ø1.400 x 1.540 mm			
Feeding Height (mm)	4.500 mm	4.500 mm			
Total Motor Power (kW)	320 kW	400 kW			
Total Plant Weight (ton)	49 ton	55 ton			
Electric Generator Requirement (kVA)	850 kVA	1.100 kVA			
Transport Dimensions (m)	18(L) x 3.65(W) x 4.5(H) meters	20(L) x 3.85(W) x 4.5(H) meters			
Chassis Type	Single Chassis on Wheels				

**CONSTMACH mobile limestone crushers** are classified as **PI-1** and **PI-2**, based on the different primary impact crushers used in each plant. While primary impactors are generally suited for processing softer stones such as limestone, the ability to handle larger feed sizes and deliver higher production capacities are the real advantages of these plants. The **PI-2 model** can process rocks up to **1,500 mm x 1,500 mm** with a **capacity of 250 to 300 tons per hour**.

The only difference between **PI-1** and **PI-2** is the **feeding size and production capacity**; the rest of the equipment in the system is selected accordingly. Both plants are capable of producing **four different types of final materials**.



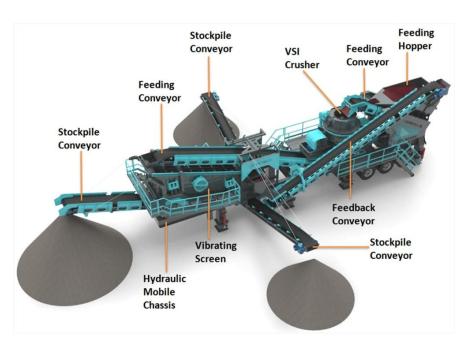
### V AND T SERIES SAND MAKING PLANTS

**CONSTMACH** manufactures **mobile sand making plants** in various types and sizes, designed to meet diverse production needs. While their overall configuration is similar to other **mobile crushing plants**, they are specifically referred to as **"mobile sand making plants"** due to the use of either a **vertical shaft impact (VSI) crusher** or a **tertiary impact crusher** as the primary crusher.

These **mobile** (portable) sand making plants offer flexibility and efficiency, as they can be equipped with either a **VSI** or a **tertiary impact crusher**, depending on the required final product specifications. The **production capacity** of these plants is primarily determined by the **crusher size**, while other key components—such as the **feeding hopper**, **vibrating screen**, **and conveyors**—are selected accordingly to optimize performance.

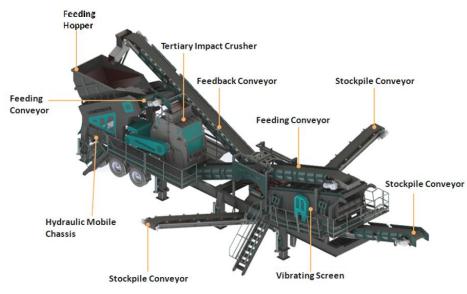
### V series Sand Making plants are a combination of:

Feeding Hopper
Feeding Conveyor between hopper and VSI Crusher
Vertical Shaft Impact Crusher
Conveyor between VSI crusher and vibrating screen
Vibrating Screen with 3 decks
Feedback Conveyor for oversize material



### T series Sand Making plants are a combination of:

Feeding Hopper
Feeding Conveyor between hopper and Tertiary Impact Crusher
Tertiary Impact Crushers
Conveyor between Tertiary crusher and vibrating screen
Vibrating Screen with 3 decks
Feedback Conveyor for oversize material



### V AND T SERIES SAND MAKING PLANTS TECHNICAL SPECIFICATIONS

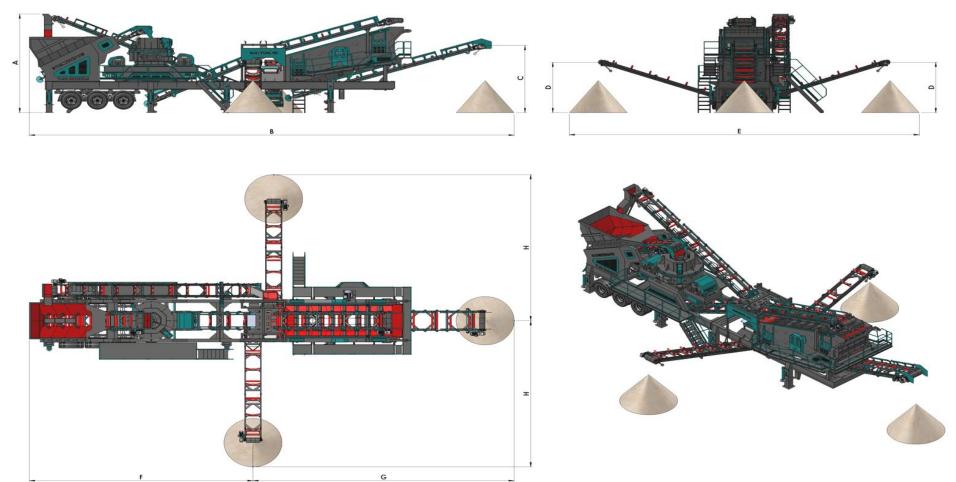
Model	V-70	V-80	V-90	T-75	T-100	T-120
Production Capacity (t/h)	100-150 t/h	150-200 t/h	200-250 t/h	60-80 t/h	80-135 t/h	120-170 t/h
Configuration of the Plant	10m³ Hopper VSI-700-CR CVS-1540-3 Vibrating Screen	10 m <sup>3</sup> Hopper VSI-800-CR CVS-1850-3 Vibrating Screen	10m³ Hopper VSI-900-CR CVS-2060-3 Vibrating Screen	10m³ Hopper CTC-1275 Tertiary Impact Crusher CVS-1540-3 Vibrating Screen	10m³ Hopper CTC-1210 Tertiary Impact Crusher CVS-1850-3 Vibrating Screen	15m³ Hopper CTC-1212 Tertiary Impact Crusher CVS-2060-3 Vibrating Screen
Maximum Feeding Size (mm)	35 mm	40 mm	45 mm	100 mm	120 mm	150 mm
Feeding Height (mm)	4.500 mm	4.500 mm	4.500 mm	4.500 mm	4.500 mm	4.500 mm
Main Configuration	Vertical Shaft	Impact Crusher + Vibr	ating Screen	Tertiary Im	pact Crusher + Vibrat	ing Screen
Total Motor Power (kW)	170 kW	390 kW	440 kW	220 kW	270 kW	320 kW
Plant Weight (ton)	32 ton	40 ton	45 ton	34 ton	43 ton	49 ton
Electric Generator Requirement (kVA)	400 kVA	700 kVA	850 KVA	500 kVA	600 kVA	750 kVA
Transport Dimensions (m)	17.8(L) x 3.35(W) x 4.3(H) meters	18.8(L) x 3.65(W) x 4.4(H) meters	20.8(L) x 3.85(W) x 4.5(H) meters	17.8(L) x 3.35(W) x 4.3(H) meters	18.8(L) x 3.65(W) x 4.4(H) meters	20.8(L) x 3.85(W) x 4.5(H) meters
Chassis Type	-0366		Single Chassis	on Wheels		

**CONSTMACH V and T Series crushing and screening plants** are designed to efficiently process a wide range of materials, regardless of their **hardness or abrasiveness**. These plants can handle materials such as **granite**, **basalt**, **dolomite**, **gabbro**, **silica**, **limestone**, and more, ensuring **versatility** across various applications.

**CONSTMACH** manufactures **mobile sand making plants** in different types and sizes to meet specific production needs. While their overall configuration is similar to other **mobile crushing plants**, they are categorized as **"mobile sand making plants"** because they feature **vertical shaft impact (VSI) crushers** or **tertiary impact crushers** as the primary crushing units.

These plants are particularly beneficial when a high percentage of fine material is required. If more than 50% of the total production needs to be fine fractions (0-4 mm or similar sizes), CONSTMACH mobile sand making plants provide the ideal solution for high-efficiency, precision processing.

## V AND T SERIES SAND MAKING PLANTS MAIN DIMENSIONS



Model	Α	В	С	D	E	F	G	Н
V-70	6.031	25.037	1.233	1.390	11.235	11.547	9.390	5.617
V-80	6.068	25.037	2.924	2.265	14.655	11.547	11.440	7.327
V-90	6.105	25.037	4.157	3.122	18.075	11.547	13.490	9.037
T-75	6.031	25.037	1.233	1.390	11.235	11.547	9.390	5.617
T-100	6.068	25.037	2.924	2.265	14.655	11.547	11.440	7.327
T-120	6.105	25.037	4.157	3.122	18.075	11.547	13.490	9.037





### VIBRATING FEEDERS AND HOPPERS TECHNICAL SPECIFICATIONS

**CONSTMACH Vibrating Feeders & Hoppers** are used to efficiently feed crushers in our **stone crushing lines**. **Vibrating feeders** are placed before **primary impact crushers** or **jaw crushers** to achieve the **desired material size** and reduce the costs associated with **intermediary crushers**. They also help **increase facility capacity**, ensure **operational continuity**, and enhance a **homogeneous material distribution** throughout the plant.

#### Features of CONSTMACH VIBRATING FEEDERS & HOPPERS:

- Smooth vibrating
- Reliable operation
- Long service life
- Suitable for feeding

Model	Body Sizes (mm)	Grizzly Length (mm)	Motor Power (kW)	Hopper Volume (m³)	Capacity (ton/hour)	Weight (ton)
CPG-09	2.500 x 520 mm	820 mm	2 x 3 kW	8 – 10 – 15 m³	80 – 1 <mark>0</mark> 0 t/h	8 ton
CPG-10	3.000 x 850 mm	1.160 mm	2 x 4 kW	10 – 15 – 20 m³	150 – 2 <mark>0</mark> 0 t/h	12 ton
CPG-11	4.600 x 1.100 mm	1.400 mm	2 x 9.2 kW	15 – 20 – 30 m³	200 – 3 <mark>0</mark> 0 t/h	18 ton
CPG-13	4.880 x 1.370 mm	1.840 mm	2 x 11 kW	30 – 45 – 50 m <sup>3</sup>	350 – 5 <mark>00</mark> t/h	26 ton



# JAW CRUSHERS



### JAW CRUSHERS TECHNICAL SPECIFICATIONS

**CONSTMACH Jaw Crushers** are designed to handle the **initial crushing process** of any material, from the **softest limestone** to the **hardest granite**. They are used as **primary crushers** in both our **stationary** and **mobile crushing plants**.

Featuring high flywheel speeds, optimized jaw angles, safety plates, rear blocks, and special geometries, CONSTMACH Jaw Crushers deliver high performance, reliability, and durability. Their user-friendly setting mechanisms provide excellent operational advantages.

All our **jaw crushers** are equipped with a **hydraulic setting mechanism**, allowing precise adjustment of the **jaw gap** to achieve the desired **final product size** efficiently.

#### **Features of CONSTMACH JAW CRUSHERS:**

- Heavy-duty base frame is submerged, arc-welded, then thermally stress relieved.
- Oversized, heavy-duty spherical, self-aligning roller bearings.
- Pitmans of our Jaw Crushers are able to absorbe the heaviest loads thanks to its drop-forged chrome-nickel steel casting material.
- In case of need, **CONSTMACH Jaw Crushers** are equipped with automatic lubrication systems.
- Large flywheels to ensure the inertia is maintained to crush even the hardest materials.

Model	CJC-60	CJC-90	CJC-110	CJC-130	CJC-140
Jaw Opening Size (mm)	600 x 380 mm	900 x 650 mm	1.100 x 850 mm	1.300 x 1.000 mm	1.400 x 1.100 mm
Machine Weight (ton)	6 ton	11.4 ton	33 ton	42.5 ton	52 ton
Required Power (kW)	30 kW	75 kW	132 kW	160 kW	200 kW
Flywheel Speed (rpm)	330 rpm	277 rpm	230 rpm	220 rpm	220 rpm
CSS min./max. Value (mm)	30 – 100 mm	50 – 150 mm	60 – 200 mm	100 – 280 mm	120 – 280 mm
Production Capacity (t/h)	60 – 110 t/h	90 – 270 t/h	150 – 420 t/h	275 – 790 t/h	420 – 850 t/h





### PRIMARY IMPACT CRUSHER TECHNICAL SPECIFICATIONS

CONSTMACH Primary Impact Crushers provide an excellent solution for crushing soft to medium-hard materials, delivering high production capacity and cubical-shaped products.

With a **high reduction ratio**, these crushers minimize the need for secondary crushing, helping to **maximize plant capacity**. Additionally, the **hydraulic setting mechanism** ensures **easy adjustments and maintenance**, enhancing overall efficiency and ease of operation.

#### **Features of CONSTMACH PRIMARY IMPACT CRUSHERS:**

- Thick side sheets, with manganese liners in wear areas
- Large spherical self-aligning roller bearings
- Rotor is arc-welded, then thermally stress relieved.
- Manganese steel impeller bars
- Large inlet feed opening with chain curtains to protect against rebounding
- High reduction ratio
- Unobstructed discharge openings

Model	CPI-1412	CPI-1415	CPI-1620
Max Feed Size (mm)	900 x 900 mm	1.000 x 1.000 mm	1.300 x 1.300 mm
Weight (ton)	23 ton	28 ton	52 ton
Motor Power (kW)	250 kW	315 kW	2 x 250 kW
Rotor Sizes (mm)	1.400 x 1.250 mm	1.400 x 1.540 mm	1.600 x 2.000 mm
Production Capacity (t/h)	200 – 250 t/h	350 – 400 t/h	400 – 600 t/h





## SECONDARY IMPACT CRUSHERS TECHNICAL SPECIFICATIONS

CONSTMACH Secondary Impact Crushers offer high capacity, cubic shape, and reduced wear costs. Besides having exceptional durability, their ease of maintenance results in less total downtime. Thanks to their three-step pendulums, CONSTMACH Secondary Impact Crushers can perform primary, secondary, and tertiary crushing operations.

### **Features of CONSTMACH SECONDARY IMPACT CRUSHERS**

- High strength, open disc, stress-relieved rotor
- Large spherical roller bearings
- High chrome or manganes alloy breaker bars
- Rear doors allow access to the breaker plate liner bolts
- Two hydraulic cylinders for opening the body
- High reduction ratio
- · Large discharge opening
- Hydraulic adjustment system allows breaker plate opening changes while crushing

Model	CSI-1210	CSI-1212	CSI-1215
Max Feeding Size (mm)	200 mm	250 mm	350 mm
Weight (ton)	17.5 ton	21.5 ton	26 ton
Motor Power (kW)	160 kW	200 kW	250 kW
Rotor Sizes (mm)	1.100 x 1.100 mm	1.100 x 1.250 mm	1.100 x 1.500 mm
Production Capacity (t/h)	60 – 100 t/h	120 – 150 t/h	200 – 250 t/h

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### TERTIARY IMPACT CRUSHERS TECHNICAL SPECIFICATIONS

The CONSTMACH Tertiary Impact Crusher is ideally suited for crushing medium-hard, non-abrasive materials into a cubical, well-graded product size of 0–5 mm (60% passing) in a single pass. Due to its enhanced control over upper product sizes and high reduction ratios, it can efficiently operate in a closed circuit on smaller product fractions. The hydraulic opening mechanism allows users to perform maintenance and adjustment operations easily.

### **Features of CONSTMACH TERTIARY IMPACT CRUSHERS:**

- High reduction ratio
- Cubical product with high crush count
- Selective crushing by speed and breaker plate adjustment
- Interchangeable wear parts
- Hydraulic adjustment and opening mechanism

Model	CTC-1275	CTC-1210	CTC-1212	CTC-1215
Max feed Size (mm)	100 mm	120 mm	150 mm	150 mm
Crusher Weight (kg)	9.500 kg	12.500 kg	15.500 kg	18.500 kg
Motor Power (kW)	110 kW	160 kW	200 kW	250 kW
Rotor Sizes (mm)	1.100 x 750 mm	1.100 x 1.000 mm	1.100 x 1.200 mm	1.100 x 1.500 mm
Rotor Speed (rpm)	800 – 900 rpm	800 – 900 rpm	800 – 900 rpm	800 – 900 rpm
Production Capacity (t/h)	60 – 80 t/h	80 – 135 t/h	120 – 170 t/h	230 – 250 t/h





# **VSI CRUSHERS**

**CONSTMACH Vertical Shaft Impact Crushers** are known as also SAND MAKING MACHINES and used as a tertiary stage crusher to get high ratio of fine material and to give cubical shape to the products that are coming through the secondary crushers. Any type of materials, especially the hard stones such as basalt and granite with maximum 45 mm size which are crushed by secondary crushers are fed to **Vertical Shaft Impact Crushers**.





### VERTICAL SHAFT IMPACT CRUSHER TECHNICAL SPECIFICATIONS

### **Features of CONSTMACH VSI CRUSHERS:**

- Four interchangeable crushing chambers allow for changes in material type, feeding size and tonnage requirements
- Variable speed impeller or rotor allows for changes in material type and product specifications
- High reduction ratio
- Large symmetrical feed box
- Heavy-duty bearings
- Automatic lubrication system
- Vibration Sensor

Model	VSI-700-CR	VSI-800-CR	VSI-900-CR	VSI-1000-OR
Max Feeding Size (mm)	35 mm	40 mm	45 mm	90 mm
Machine Weight (ton)	6.5 ton	12 ton	14.5 ton	15 ton
Motor Power (kW)	110 kW	2 x 160 kW	2 x 185 kW	2 x 200 kW
Rotor Size (mm)	Ø700 mm	Ø800 mm	Ø900 mm	Ø975 mm
Rotor Speed (m/s)	60 – 70 m/s	45 – 60 m/s	50 – 60 m/s	50 – 60 m/s
Production Capacity (t/h)	60 – 100 t/h	150 – 200 t/h	200 – 250 t/h	250 – 300 t/h





# VIBRATING SCREENS

**CONSTMACH Vibrating Screens** are highly preferred screening equipment for screening all types of materials due to their **durable and simple design**. The **modular structure** allows users to easily replace spare parts and perform maintenance activities. **CONSTMACH Vibrating Screens** can be produced in "driven from top" or "driven from center" versions. The screen mesh material can be made of steel or polyurethane, depending on the hardness level of the material to be screened.



### Main features of CONSTMACH VIBRATING SCREENS:

- Single, double, triple, quad deck configurations available
- Crowned or flat deck support frames (stress relieved)
- Precision machined and ground forged steel eccentric shaft/s
- · Superior bearing fit and shaft strength
- Maximum bearing performance with branded grease or oil
- Bearings from SKF, FAG, Timken
- Huck bolt fastener construction provides exceptional reliability
- Replaceable bolted and welded, abrasion resistant, steel lined feedbox and discharge lips

# VIBRATING SCREENS TECHNICAL SPECIFICATIONS

Model Number of Decks		Layer Dimensions (mm)		Production Capacity (t/h)	Motor (kW)	Weight (ton)	
2		and State of		7.5 kW	7.4 ton		
CVS-1240	3	4,8 m <sup>2</sup>	1.200 x 4.000 mm	70 – 95 t/h	11 kW	7.7 ton	
	4		The state of the s		11 kW	8 ton	
	2				11 kW	13.5 ton	
CVS-1640	3	6,4 m <sup>2</sup>	1.600 x 4.000 mm	100 – 130 t/h	15 kW	14 ton	
	4	AND THE RESERVE			15 kW	14 ton	
	2				11 kW	14 ton	
CVS-1650	3	8 m <sup>2</sup>	1.600 x 5.000 mm	1.600 x 5.000 mm 130 – 160 t/h	130 – 160 t/h	15 kW	15 ton
	4				18.5 kW	15.5 ton	
	2	1.00			11 kW	16 ton	
CVS-1850	3	9 m <sup>2</sup>	1.800 x 5.000 mm	140 – 180 t/h	15 kW	17 ton	
A 200	4				18,5 kW	17.5 ton	
	2				15 kW	16.5 ton	
CVS-2050	3	10 m <sup>2</sup>	2.000 x 5.000 mm	170 – 220 t/h	18.5 kW	17.4 ton	
	4				22 kW	18.2 ton	
	2		PANY STATE		15 kW	17.5 ton	
CVS-2060	3	12 m <sup>2</sup>	2.000 x 6.000 mm	192 – 240 t/h	18.5 kW	19 ton	
	4	The state of			22 kW	20.5 ton	
	2	1/2			2 x 15 kW	20.5 ton	
CVS-2470	3	16,8 m <sup>2</sup>	2.400 x 7.000 mm	268,8 – 336 t/h	2 x 18.5 kW	22 ton	
	4		137		2 x 22 kW	24 ton	





CONSTMACH designs and manufactures its screening and washing plants with different configurations and production capacities, tailored to the specific needs and preferences of each client.

The **production capacity** of our screening and washing plants varies between **50 t/h** and **500 t/h**.

The **configurations and distributions** of our screening and washing plants are designed according to **key criteria**, such as:

- Required production capacity
- •Type and abrasiveness of the material to be treated
- Maximum size of the feeding material
- Type of washing required
- ·Sizes of the final fractions required

Our design team configures projects using a variety of feeders, crushers, screens, hoppers, washing equipment, and conveyors.

The main objective of our company is to help customers choose the most suitable products for their real needs, ensuring they avoid wrong investments that could lead to financial losses and high operating costs.



# STATIONARY SCREENING & WASHING PLANTS

# MOBILE SCREENING & WASHING PLANT

CONSTMACH SW Series Mobile Screening & Washing Plants are used for natural screening and washing of sands and gravels. The biggest advantage of our mobile screening and washing plants is their easy mobility, quick installation, and relatively smaller land requirement. All necessary equipment for the screening and washing process is combined on a single wheeled chassis. If needed, an electric generator can be adapted to the chassis, and the washer can also be removed to use the plant exclusively for screening purposes.

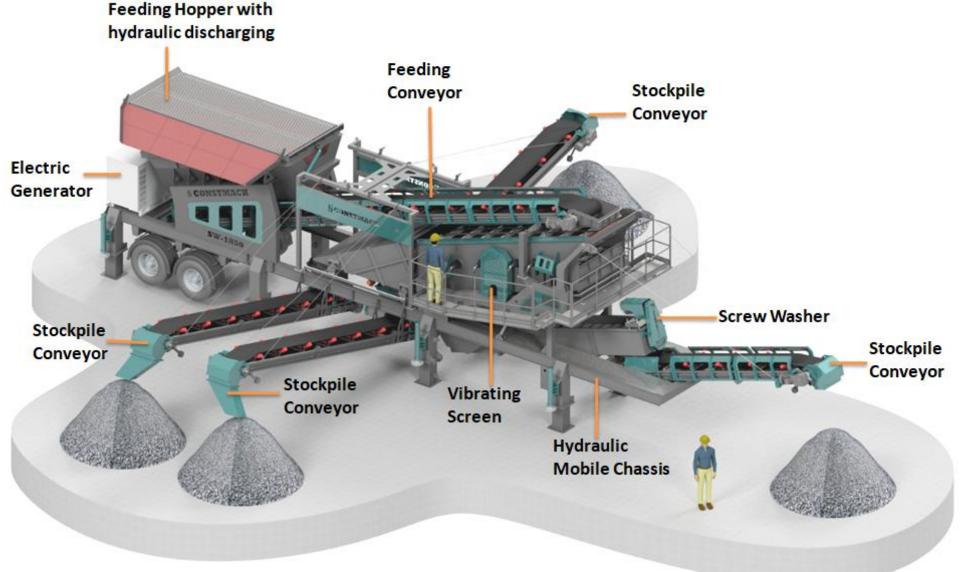


### MOBILE SCREENING & WASHING PLANT TECHNICAL SPECIFICATIONS

**CONSTMACH SW Series Mobile Screening & Washing plants** is combination of:

- Feeding Hopper with hydraulic discharging
- Feedback Conveyor between feeding hopper and vibrating screen
- Vibrating Screen with washing system
- Screw Washer

- Fold-up type Stockpile Conveyors
- Wheeled mobile chassis with hydraulic legs
- Automation System with PLC and remote controller
- Diesel Electric Generator Set (Optional Application)



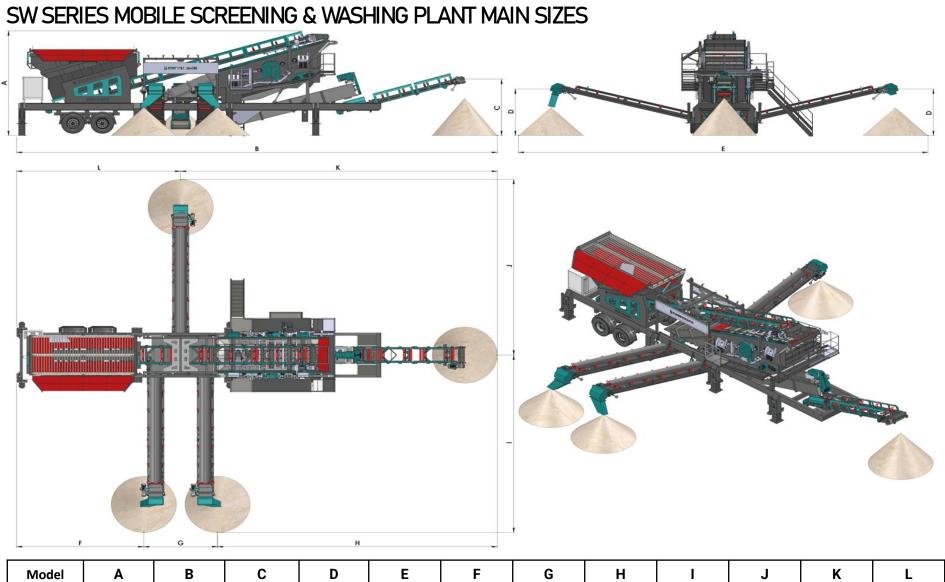
### MUDILE SCREENING & WASHING PLAINT TECHNICAL SPECIFICATIONS

**CONSTMACH SW Series Mobile Screening & Washing plants** are classified according to production capacity of the models:

Model	SW-1240	SW-1640	SW-1850	SW-2060				
Production capacity (t/h)	60 t/h	80 t/h	150 t/h	200 t/h				
Plant Weight (ton)	20 ton	24 ton	32 ton	37 ton				
Vibrating Screen	CVS-1240	CVS-1640	CVS-1850	CVS-2060				
Sand Washing Screw	CSW-40	CSW-50	CSW-60	CSW-70				
Feeding Height (mm)	4.600 mm	4.650 mm	4.700 mm	4.750 mm				
Transport dimensions (m)	15(L) x 2.8(W) x 4.2(H) meters	15.5(L) x 3.25(W) x 4.3(H) meters	16(L) x 3.65(W) x 4.4(H) meters	17(L) x 3.85(W) x 4.5(H) meters				
Total Motor Power (kW)	37 kW	41 kW	50 kW	55 kW				
Electric Generator Requirement (kVA)	75 kVA	85 kVA	100 kVA	120 kVA				
Chassis Type	Single Chassis on Wheels							

CONSTMACH Mobile Screening & Washing Plants are equipped with a high-tech automation system, featuring top-class SIEMENS – SCHNEIDER brand electronic components and PLC. The plant is operated with just a tablet controller.

The overall dimensions of CONSTMACH Mobile Screening & Washing Plants comply with international road transport regulations, ensuring easy transportation between jobsites.



Model	Α	В	C	D	E	F	G	Н	I	J	K	L
SW-1240	4.700	18.171	2.390	1.868	9.968	5.399	1.500	10.503	9.168	8.856	11.659	5.180
SW-1640	4.515	19.196	2.697	2.175	14.386	5.619	2.094	11.675	9.310	9.104	13.100	5.964
SW-1850	5.580	22.073	3.004	2.482	18.804	5.839	3.387	12.847	9.452	9.352	14.541	6.748
SW-2060	6.263	22. 332	3.331	2.640	19.200	4.794	3.913	14.019	9.600	9.600	15.979	7.532





# SAND WASHING SCREWS



### SAND WASHING SCREWS TECHNICAL SPECIFICATIONS

**CONSTMACH Screw Washers** are used for washing fine materials, offering high capacity, easy maintenance, easily replaceable spare parts, convenient assembly, and high performance.

CONSTMACH sand washing screws efficiently process gravel, sand, or crushed 0–5 mm stone containing excessive clay/dirt.

### **Features of CONSTMACH SCREW WASHERS**

- Heavy duty steel construction
- Durable body and long life
- Heavy duty gear box
- Large operating service factor resulting in long life cycle
- Replaceable bolted rubble paddles
- Single or twin screw options

Model	CSW-50	CSW-60	CSW-75	CSW-80
Screw Sizes (mm)	Ø500 x 5.000 mm	Ø600 x 6.000 mm	Ø750 x 7.500 mm	Ø800 x 8.000 mm
Machine Weight (ton)	2.8 ton	5.2 ton	5.8 ton	6.25 ton
Required Power (kW)	5.5 kW	2 x 7.5 kW	2 x 7.5 kW	2 x 11 kW
Spinning speed (rpm)	24 rpm	20 rpm	20 rpm	20 rpm
Production capacity (t/h)	25 – 45 t/h	40 – 75 t/h	45 – 80 t/h	50 – 90 t/h
Required water (m³/h)	25 – 45 m³/h	35 – 55 m³/h	40 – 60 m³/h	45 – 65 m³/h





**CONSTMACH Wheel Washers** are designed for washing out the clay in the sand for the purpose of increasing the sand quality. Thanks to their simple design they have an ease in assembly process. These bucket wheels provide advantages to the users with low power consumption and water saving.

### Features of CONSTMACH Wheel Washers

- Simple structure;
- · Water saving;
- Low power consumption;
- Ease of installation.

# WHEEL(BUCKET) WASHER TECHNICAL SPECIFICATIONS





Model	Required Power (kW)	Spinning Speed (rpm)	Production Capacity (t/h)	Wheel Diameter (mm)	Bucket Sizes (mm)	No. of Buckets
CBW-80	5.5 kW	2.5 rpm	80 – 90 t/h	Ø 3.000 mm	800 x 550 mm	40
CBW-100	7.5 kW	2.5 rpm	110 – 120 t/h	Ø 3.000 mm	1.000 x 550 mm	40





### DEWATERING SCREENS & HYDROCYCLONES TECHNICAL SPECIFICATIONS

**CONSTMACH Dewatering Screens & Hydrocyclones** are excellent solutions for washing the fine materials with up to 7 mm size. The biggest advantage of choosing **Dewatering Screens & Hydrocyclones** in fine material washing applications is to save the particuls in sand even with 90 microns size. This helps to user to do production according to any type of project requirements since to keep the micronized material inside the sand after washing is so difficult result with classical washing systems such as screw, wheel etc.

### Features of CONSTMACH Dewatering Screens & Hydrocyclones.

- · Micronized material saving,
- · Water saving,
- Low power & water consumption;
- Ease of maintenance.
- · Long life PU screen meshes
- Dry final material which is easy to stock

Model	CDS-1225	CDS-1635	CDS-2040
Dewatering Screen Sizes (mm)	1.200 x 2.500 mm	1.600 x 3.500 mm	2.000 x 4.000 mm
Production Capacity (t/h)	60 – 80 t/h	100 – 150 t/h	150 – 200 t/h
Hydrocyclone Diameter	20" ( Ø500 mm )	26" ( Ø660 mm )	2 x 26" ( Ø660 mm )
Slurry Pump Motor Power (kW)	37 kW	55 kW	75 kW
Vibrator Motor Power (kW)	2 x 4.5 kW	2 x 4.5 kW	2 x 11 kW











# BELT CONVEYORS



### BELT CONVEYOR TECHNICAL SPECIFICATIONS

**CONSTMACH Belt Conveyors** are used in our concrete batching and stone crushing & screening plants to weigh, feed, transfer and stock the materials.

**CONSTMACH Belt Conveyors** are equipped with high quality and heavy duty electric motors and gearboxes. In addition, 4 layers high quality belt rubbers, long life rollers, rubber coated drums, walking platforms, durable & strong steel chassis, emergency stop buttons are other elements of our belt conveyors. As an optional application, our conveyors can be covered to reduce dust extraction to the environment. In addition to the conveyors which are part of our complete lines, our company manufactures also conveyors for our clients' existing plants with the requested sizes.

Model	CBC-500	CBC-650	CBC-800	CBC-1.000	CBC-1.200			
Band Width (mm)	500 mm	650 mm	800 mm	1.000 mm	1.200 mm			
Power Equipment		Reducer motor, o	or Motor and Reducer w	vith V-belt transmission				
Rubber Band	Smooth or ribbe	Smooth or ribbed rubber band depending on application, 4 tarpaulin quality band is applied as standard						
Bearings	Spherical roller double row spherical roller bearings, SN type split housings							
Inner Scraper	RV-shaped rubber scraper next to transfer drum							
Driving Drum	Rubberized and vulcanized with diamond grooves for greater grip on the band, with tightening rings on the axis							
Transfer Drum	Rubberized and vulcanized with diamond grooves for greater grip on the band, with tightening rings on the axis							
Support Rollers	Heavy series support rollers for mining, measures according to belt width and application							











FIX PI - 2 / STATIONARY CRUSHING AND SCREENING PLANT

## CONSTIMACI





FIX JCV-3 / STATIONARY CRUSHING AND SCREENING PLANT







FIX JCV - 3 / STATIONARY CRUSHING AND SCREENING PLANT





FIX JCC - 3 / STATIONARY CRUSHING AND SCREENING PLANT



FIX JC - 3 / STATIONARY CRUSHING AND SCREENING PLANT



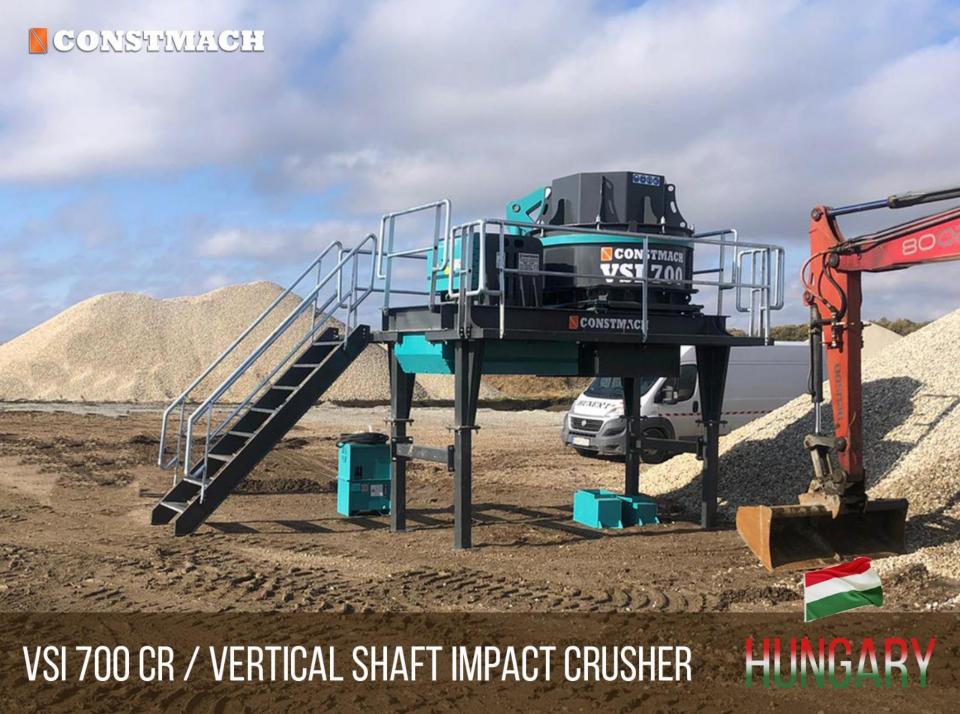














VSI 1000 / OPEN ROTOR VERTICAL SHAFT IMPACT CRUSHER



JS - 2 / MOBILE CRUSHING AND SCREENING PLANT















C-2 / MOBILE CRUSHING AND SCREENING PLANT

PARAGUAY

## CONSTINECT





JS-2 / MOBILE CRUSHING AND SCREENING PLANT

## CONSTIMIACE









JCV-2 / MOBILE CRUSHING AND SCREENING PLANT CAMEROON





V-70 / MOBILE CRUSHING AND SCREENING PLANT













STATIONARY CRUSHING & SCREENING & WASHING PLANT







## CONSTMACH











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SW -1640 / MOBILE SCREENING AND WASHING PLANT SER











SAND WASHING SCREW WITH HYDROCYCLONE

BAHRAIN













## **CRUSHING & SCREENING PLANTS**

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