

VCX SERIES

Cold Mix & Stabilization Plants

200 – 600 t/h · Mobile and stationary · Cement, emulsion and foamed bitumen

200 – 600 t/h
capacity range

Mobile · Stationary
two plant types

Belt scale
mass measurement of aggregate

1997
experience since

Continuous twin-shaft pugmill plants for stabilized base, cement-treated base and cold mix — accurate dosing and fast installation.

VCX plants dose aggregate from the bins, weigh it on the collecting conveyor and mix it with water and binder in a twin-shaft pugmill. Mobile models (VCX-M) come as two towable units and work with cement, bitumen emulsion or foamed bitumen. Stationary models (VCX-S) stand on a foundation; VCX-600-S gives high output for mechanical stabilization. Vimpo engineers and manufactures every plant in Ankara.

- 200 and 400 t/h mobile or stationary, 600 t/h stationary
- Belt scale on the collecting conveyor
- Water dosing with magnetic flowmeter
- Twin-shaft pugmill with HARDOX wear plates
- Recipe control in an air-conditioned cabin
- IE3 energy-efficient motors

THE PROCESS

How a VCX plant works

Each bin has its own dosing belt. The collecting conveyor carries the blend over a belt scale to the pugmill. Water and binder go into the pugmill at the recipe rate, and the two shafts mix the material to a uniform product.

Aggregate bins — Dosing belt for each bin ▶ **Belt scale** — Aggregate flow in t/h ▶ **Twin-shaft pugmill** — Continuous mixing ▶ **Discharge conveyor** — To the loading bin ▶ **Truck loading bin** — Pneumatic gate

Water — Magnetic flowmeter

Binder — Cement · emulsion · foamed bitumen

KEY FEATURES

Built for accurate mixes

Mass measurement
A belt scale measures the aggregate flow; the binder and water follow the recipe.

Water control
Magnetic flowmeter and automatic water rate for the target moisture.

Strong pugmill
Twin shafts with synchronized drives and HARDOX wear plates.

Fast installation
Mobile models: two towable units, modular and foldable, minimum foundation.

Recipe control
Piano-type desk and screen; manual and automatic operation and recipe memory.

Safe operation
Empty-bin sensors and emergency stops.

Low operating cost
IE3 energy-efficient motors. One operator runs the plant.

Ready to expand
Cement silo, emulsion dosing and foamed bitumen injection as options.



THE HEART OF THE PLANT

Twin-shaft pugmill

Two counter-rotating shafts with paddles mix the aggregate, water and binder in one continuous pass. Synchronized geared motors drive the shafts. HARDOX wear plates protect the mixer body against abrasive aggregate.

Twin shaft — continuous mixing

HARDOX — wear plates

Synchronized — geared motor drive

THE RANGE

Choose your model

200 and 400 t/h for cold mix and stabilization, as mobile (M) or stationary (S) plants. VCX-600-S for high-output mechanical stabilization. All models use the same proven process.

VCX-200-M
200 t/h
MOBILE
Cold mix · stabilization
1 × 37 kW

VCX-200-S
200 t/h
STATIONARY
Cold mix · stabilization
1 × 37 kW

VCX-400-M
400 t/h
MOBILE
Cold mix · stabilization
2 × 37 kW

VCX-400-S
400 t/h
STATIONARY
Cold mix · stabilization
2 × 37 kW

VCX-600-S
600 t/h
STATIONARY
Mechanical stabilization
2 × 37 kW

	VCX-200-M	VCX-200-S	VCX-400-M	VCX-400-S	VCX-600-S
Capacity	200 t/h	200 t/h	400 t/h	400 t/h	600 t/h
Type	Mobile	Stationary	Mobile	Stationary	Stationary
Application	Cold mix, cement-treated base, cold recycling	Cold mix, cement-treated base, cold recycling	Cold mix, cement-treated base, cold recycling	Cold mix, cement-treated base, cold recycling	Mechanical stabilization, cement-treated base
Aggregate bins	3	3	4 × 12 m³	4 × 12 m³	5 × 15 m³
Pugmill drive	1 × 37 kW	1 × 37 kW	2 × 37 kW	2 × 37 kW	2 × 37 kW
Aggregate weighing	Belt scale	Belt scale	Belt scale	Belt scale	Belt scale
Water dosing	Magnetic flowmeter	Magnetic flowmeter	Magnetic flowmeter	Magnetic flowmeter	Flowmeter
Cement	Silo with screw dosing (option)	Silo with screw dosing (option)	Silo with screw dosing (option)	Silo with screw dosing (option)	Silo and dosing system (standard)
Emulsion / foamed bitumen	Option	Option	Option	Option	—
Installation	2 towable units	Stationary, on foundation	2 towable units	Stationary, on foundation	Stationary, on foundation

Capacity depends on the aggregate grading and moisture. Detailed technical data sheets are available for each model. The final product can change to the technical specification in the quotation.


VCX-400-M


VCX-400-M

READY TO EXPAND

Options

- **Cement / additive silo**
  50 – 100 m³ with screw dosing
- **Bitumen emulsion dosing**
  200 and 400 t/h models · cold mix and cold recycling
- **Foamed bitumen injection**
  200 and 400 t/h models · bitumen-stabilized material (BSM)
- **Additional aggregate bin**
  To the mix design

WHAT YOU CAN PRODUCE

Products

Granular base
Mechanical stabilization: base and sub-base

Cement-treated base
CTB, soil-cement, roller-compacted concrete

Cold mix and BSM
With bitumen emulsion or foamed bitumen (200 and 400 t/h models)

WHERE VCX MATERIAL GOES

Roads and highways
Base and sub-base layers

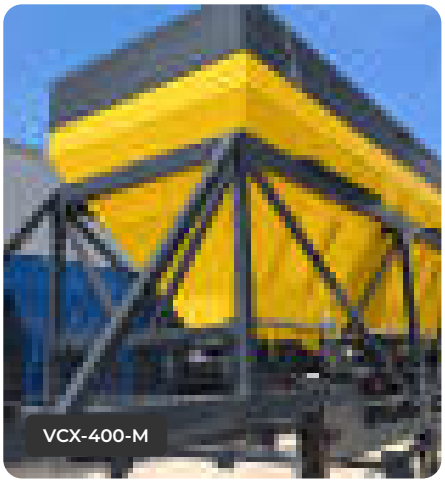
Cement-treated base
CTB and soil-cement

Cold recycling
RAP with emulsion or foamed bitumen

Ports and dams
Fill and base layers

Railways
Sub-ballast and formation layers

Airports
Runway and apron base


VCX-400-M

Let's size your plant

Tell us your capacity, material and binder — we will recommend the right VCX model and send the technical data sheet and quotation. Commissioning, operator training and spare parts from Ankara, Herford (Germany) and Pune (India).

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