

POLYMER MODIFIED BITUMEN PRODUCTION PLANT

20 m³/h



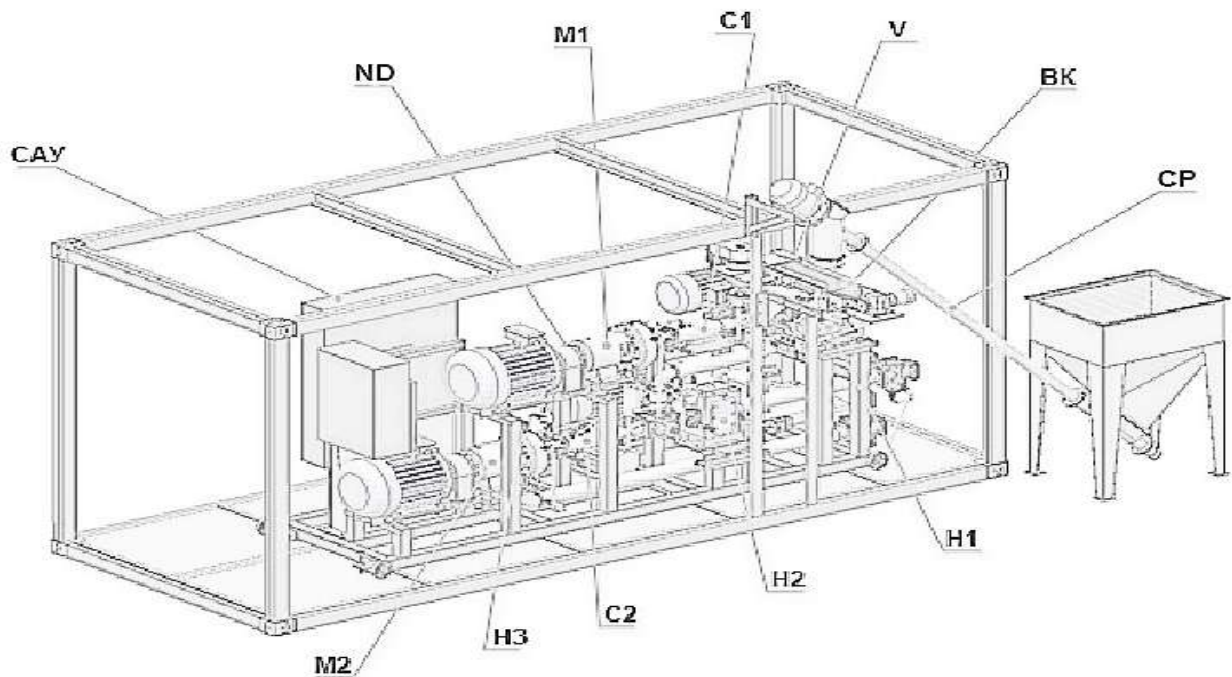
Up-to-date road construction industry impacts a demand for specific asphalt mixtures containing modified bitumen. To fit abovementioned demands, Globecore manufactures modified bitumen producing plants.

Globecore designs and performs plants to produce modified bitumen by supplying polymers, adhesive dopes and plasticizers into the viscous bitumen.

Technical parameters

Parameter		Value
1. Min. capacity, t/h		20
2. Polymer waste per 1m ³ of bitumen, kg		10...60
3. Plasticizer waste per 1m ³		10...100
4. Adhesive dope per 1m ³ of bitumen, l (max)		10
5. Steady operation is assumed		
6. Standard power consumption , kW		
	-mill	2x55=110
	-bitumen pumps	2x18=36
	-plasticizer supplying pump	1.1
	-adhesive dope supplying pump	0.25
	-screw hoist drive	3
	-screw hoist and batch transfer track drive	0.43
	-screw mixer drive	5.5
	-total	157
7. Current		
	- voltage, V	380
	- alternating current, Hz	50
8. Max. overall dimensions (exclude joints to be removed while transported), mm		
	- length	6050
	- height	2570
	- width	3360
8. Max. weight, kg		5860

Design and operating pattern



H1, H2 – High pressure bitumen pumps

C1, C2 – Hydrodynamic mixers for mixing:

C1 – bitumen with polymer

C2 – normal bitumen with polymerized one

M1, M2 - mills (dispensers)

V - screw conveyor's inlet polymer receiver

BK – batch transfer track

H3 – inlet plasticizer box

ND – inlet adhesive dope cell

CP – spiral hoist to manage inlet polymer batch

CAY – automatic control unit

Plant management

To manage a plant, use automatic control unit for in-line produced modified bitumen.

PLC: VIPA, vers.200V
Operation system: Windows® CE
Touch panel: 10" sensor TFT
display
Visualization system: Movicon®
11.1



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