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1038 Budapest / Hungary
Company reg. Nr.: 01-10-141954
VAT Nr.: HU32027561

Stonewool batch plant equipment – Annex 2

Manufacturer: Gambarotta
Production year: 2025
Technical parameters:

- For stonewool plant with capacity up to 45 kt/annum
- Handled materials
  - Raw material: basalt, slag, bauxite, dolomite / limestone with grain size 0 – 40 mm
  - Scraps (grinded): grain size 1 – 4 mm, humidity 4 – 15%, bulk density 700 – 1000 kg/m^3

Main equipment:

- Belt, screw and bucket conveyors
- Diverting gates
- Vibrating excavators
- Magnetic separators
- Bag filter
- Local control station (in container)

Other:

- Complete design for silos, hoppers, ducts, steel structure – available
- Flow chart
- Equipment list

Status:
- Ready to deliver
- Stored in Italy

Note: position number of the Equipment in the „Equipment list" correspond with the position number on the „Equipment flow chart"

TLP:CLEAR

SLABS PRE-CRUSHING

SLABS MUST BE PRE-CRUSHED BY PAY-LOADER AHEAD CRUSHER CHARGING

Forming filter panels scraps

Curing oven filter panels scraps

Production rejects

By client: LB italian machineries SUPPLIER

Curing oven filter panels
Forming filter panels scraps
Production rejects
scraps

LAVA PRE-CRUSHING

By client: LB italian machineries SUPPLIER

WASTE MELT PREPARATION

Frozen melt from hall

Pre-crushed melt

Grain size c 10mm

MIXED SCRAPS FINE MILLING

By client: LB italian machineries SUPPLIER

Mix, to be prepared by payloader

SCRAPS LOADING STATION TO MILLING

Forming chamber

WET SCRAPS (from SPC)

Milled waste mix

BASALT 3 ∅25 h D=1.3÷1.4 ton/m³ Dim: ∅max8mm÷3m

BASALT 2 ∅25 h D=1.3÷1.4 ton/m³ Dim: ∅max8mm÷3m

BASALT 1 ∅25 h D=1.3÷1.4 ton/m³ Dim: ∅max8mm÷3m

LIMESTONE/DOLOMITE ∅60 h D=1.1÷1.2 ton/m³ Dim: ∅max8mm÷3m

BAUXITE ∅60 h D=1.1÷1.2 ton/m³ Dim: ∅max8mm÷3m

SLAG ∅80 h D=1.1÷1.2 ton/m³ Dim: ∅max12mm÷3m

ROCKS CHARGING STATION

By client 50 Dust suction

50b 35t/h 70m3/h Watt 300 n°2 M.V

52 By client Watt 300 n°2 M.V

51 35t/h 70m3/h kW 2x1,6

Oversize+40

n°2 M.V

n°2 M.AS S.M FMS

SCRAPS MIX CHARGING STATION

12a Iron separator kW. 3 M.N

By client 55 Dust suction Watt 300

56 35t/h 28m3/h 4 kW

28

55b n°2 M.V Watt 300 n°2 M.AS S.M FMS

kW. 22 SELF-BRAKING MOTOR N°2 M.F M.AS S.M

Dust suction

57 35t/h 28m3/h

kW. 37 SELF-BRAKING MOTOR N°2 M.F M.AS

Dust suction

53 35t/h 70m3/h

54 35t/h 28m3/h REVERSIBLE SHUTTLE CONVEYOR FMS M.AS S.M

Kw. 5,5 M.F

Kw.1.5 self-braking

F.C.E M.S F.C

By client BAUXITE N-0 28m3 - 22t

By client LIMESTONE/DOLOMITE N-1 28m3 - 20t

By client SLAG N-2 28m3 - 20t

By client SLAG N-3 28m3 - 20t

By client BASALT N-4 28m3 - 26t

By client BASALT N-5 28m3 - 26t

By client BASALT N-6 28m3 - 26t

By client SCRAPS MIX N-7 28m3 - 14÷20t

Suction from all hoppers

WEIGHING HOPPER N°1 1.5 t/m³ 1.5 m³ By client

WEIGHING HOPPER N°2 1.5 t/m³ 1.5 m³ By client

WEIGHING HOPPER N°3 1.5 t/m³ 1.5 m³ By client

WEIGHING HOPPER N°4 1.5 t/m³ 1.5 m³ By client

WEIGHING HOPPER N°5 1.5 t/m³ 1.5 m³ By client

WEIGHING HOPPER N°6 1.5 t/m³ 1.5 m³ By client

WEIGHING HOPPER N°7 1.5 t/m³ 1.5 m³ By client

35t/h 35÷4,5m3/h

Bath 30 t/h 35÷4,5m3/h 3 kW Iron separator

BELT CONVEYOR

Moisture measurement

12t/h Dryed material 17m3/h

BUILDING ROOF LEVEL ▼ m.+29,0

BUCKET ELEVATOR BE-1 19 kW+M.F.+5.5K ▼ m.+26,50

BUCKET ELEVATOR BE-2 for BANDBOARD CONV.1 ▼ m.+15,00

BUCKET ELEVATOR BE-3 ▼ m.+27,50

REVERSIBLE CONVEYOR

ROTATING DIVERTER 1-1 0,75 kW

ROTATING DIVERTER 1-2 0,75 kW

BUFFER SILO 3m3

BA-300

M.F. 2x0,3 kW

M.V. 2x0,5 kW

35t/h 6m3/h

35t/h 35m3/h

35t/h 35÷4,5m3/h

35t/h 7,5m3/h

35t/h 35÷4,5m3/h

35t/h 35÷4,5m3/h

35t/h 35÷4

Position on Flowsheet	Item	Description
18	Bottom silo extraction devices | Bauxite	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
18	Bottom silo extraction devices | Limestone	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
18	Bottom silo extraction devices | Slag	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
18	Bottom silo extraction devices | Slag	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
18	Bottom silo extraction devices | Basalt	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
18	Bottom silo extraction devices | Basalt	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
18	Bottom silo extraction devices | Basalt	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
19	Bottom silo extraction devices | Scrap	pneumatic bridgebreaking cannons, percussion hammers, radar sensor
20	Electromagnetic vibrating extractor | Silo | Bauxit	VE 470X1600
20	Electromagnetic vibrating extractor | Silo | Limestone	VE 470X1600
20	Electromagnetic vibrating extractor | Silo | Slag	VE 470X1600
20	Electromagnetic vibrating extractor | Silo | Slag	VE 470X1600
20	Electromagnetic vibrating extractor | Silo | Basalt	VE 470X1600
20	Electromagnetic vibrating extractor | Silo | Basalt	VE 470X1600
20	Electromagnetic vibrating extractor | Silo | Basalt	VE 470X1600
21	Belt conveyor | Silo | Scrap	TN 500-2500
23a	Bottom silo extraction device | Weighting hopper | Scrap	Percussion hammers on rotating shaft
24	Electromagnetic vibrating extractor | Weighting hopper | Bauxit	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Limestone	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Slag	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Slag	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Basalt	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Basalt	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Basalt	VE 470X1600
24	Electromagnetic vibrating extractor | Weighting hopper | Basalt	VE 470X1600
25	Belt conveyor | Weighting hopper | Scrap	TN 500-2500
26	Belt conveyor reversible | Batch preparation under silos	TN 500-34000
27	Magnetic separator | Conveyor	2.2kW
29	Round chains bucket elevator | to dryer	EVD 315X200-630-16500
30	Belt conveyor reversible | to devide to dryer or rejected/scrap silo	TNR 500-4000
31	Belt conveyor reversible | to devide to scrap silo or rejected	TNR 500-2000
32a	Belt conveyor reversible | transport conveyor only	TNR 500-10000
32b	Belt conveyor reversible | to devide to scrap buffer silo or to mix buffer silo	TNR 500-2000
33b	Bottom silo extraction devices | Buffer silo | Scrap	pneumatic bridgebreaking cannons, percussion hammers
34b	Bottom silo extraction devices | Buffer silo | Mixed material	pneumatic bridgebreaking cannons, percussion hammers
35	Electromagnetic vibrating extractor | Buffer silo | Mixed material	VE 470X1600
36	Belt conveyor | from buffer silo mixed material to dryer	TN 400-2000
37	Belt conveyor | from buffer silo scrap to dryer	TN 400-2000
39	Belt conveyor | from dryer to conveyor	TN 400-6500
40	Belt conveyor | to devide between two bucket elevators	TNR 500-2700
41	Round link chains bucket elevator | to melter	EVD 315X200-630-28000
42	Belt conveyor | transport conveyor only	TN 500-21000
43	Belt conveyor | to devide between rotating diverter gates	TN 500-3500
44	Rotating diverter gate | 4 outlets	DV-R
44	Rotating diverter gate | 3 outlets	DV-R
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
45b	Bottom silo extraction devices | Silo	pneumatic bridgebreaking cannons, percussion hammers
46	Electromagnetic vibrating extractor | Silo	VE 300X1400
46	Electromagnetic vibrating extractor | Silo	VE 300X1400
46	Electromagnetic vibrating extractor | Silo	VE 300X1400
46	Electromagnetic vibrating extractor | Silo	VE 300X1400
46a	Electromagnetic vibrating extractor | Silo	VE 300X1400
46	Electromagnetic vibrating extractor | Silo	VE 300X1400
46	Electromagnetic vibrating extractor | Silo	VE 300X1400
47a	Screw conveyor | Silo	CO 315X250-5m capacity 7.5 ton/h - 7.5 m3/h
47	Screw conveyor | Silo	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo| After screw conveyor	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo | After screw conveyor	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
47	Screw conveyor | Silo	CO 315X250- 3m,5m,3,7m,3m capacity 3.0 ton/h - 3.0 m3/h
48	Bag filter	
48	Bag filter | Fan	
50b	Motovibrator | Loading hopper	0,3kW
50b	Motovibrator | Loading hopper	0,3kW
53	Belt conveyor | from rocks charging station to the top of silos	TN 650-42500
54	Shuttle belt conveyor | on top of silos	TNS 500-13000
55b	Motovibrator | Loading hopper	0,3kW
55b	Motovibrator | Loading hopper	0,3kW
56	Screw conveyor | Loading hopper	CO 630X200-2000
57	Belt conveyor | from scraps mix charging station to scrap silo	TN 500-27000
12a	Magnetic separator | Conveyor	MS-B 1000
62	Weighting system | Weighting hopper	
62	Weighting system | Weighting hopper	
62	Weighting system | Weighting hopper	
62	Weighting system | Weighting hopper	
62	Weighting system | Weighting hopper	
62	Weighting system | Weighting hopper	
62	Weighting system | Weighting hopper	
63	Weighting system | Weighting hopper	
64	Weighting system | Buffer silo	
65	Weighting system | Buffer silo	
66	Weighting system | Silo for finished product	
66	Weighting system | Silo for finished product	
66	Weighting system | Silo for finished product	
66	Weighting system | Silo for finished product	
66	Weighting system | Silo for finished product	
66	Weighting system | Silo for finished product	
66	Weighting system | Silo for finished product	
51	Hopper vibrating extractor	VL 850X2100