中誉鼎力®
ZHONGYUDINGLI

1200-1500 tph stone crusher plant

Fast, Intelligent and Operational,Create a new mine management model for the whole life cycle

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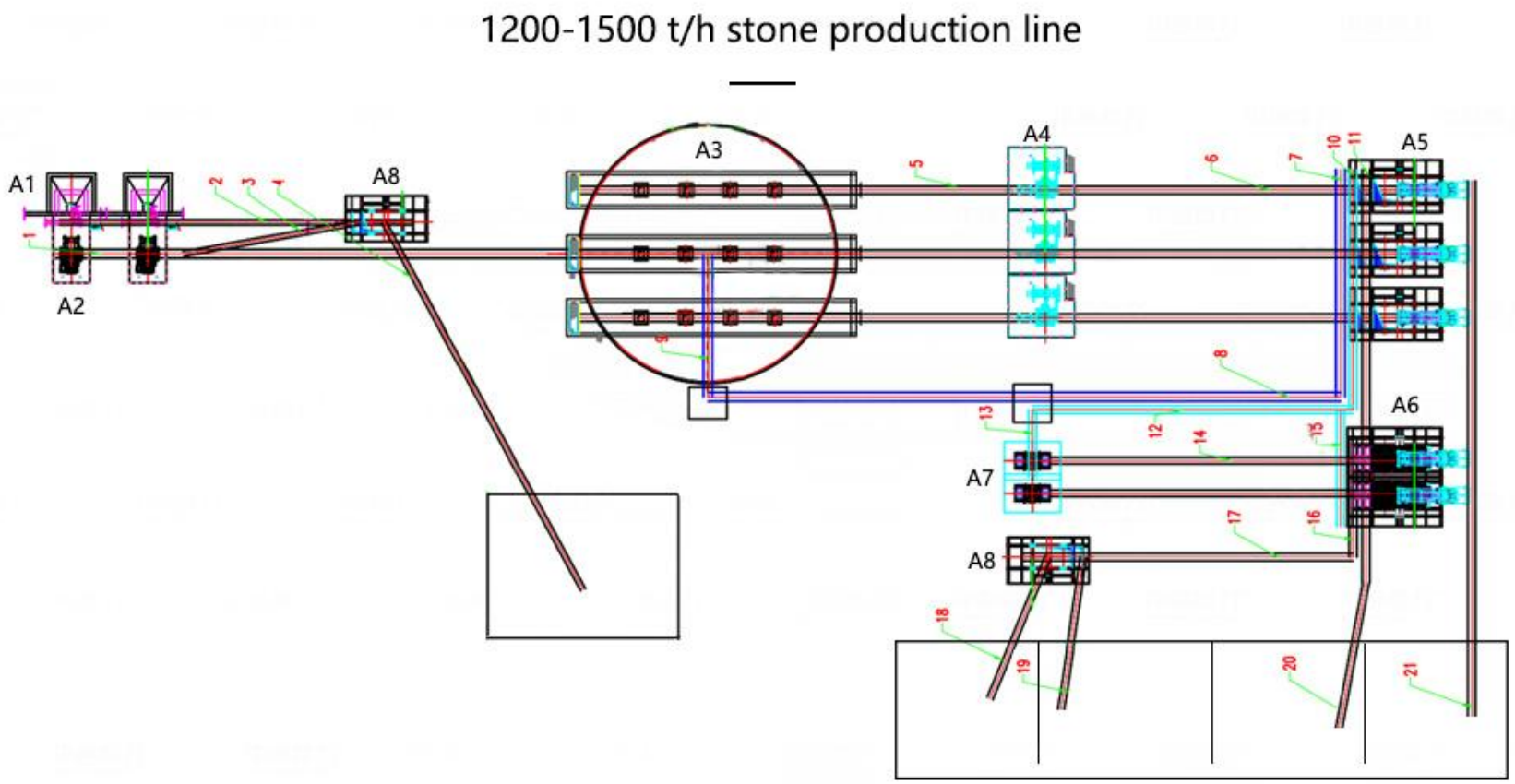

Main Equipment

NO.	Equipment	Model	Set
1	Vibrating Feeder	DLZGC1550P	2
2	Jaw Crusher	DLEV160	2
3	Under-bin Feeder	DLZGC1223	12
4	Impact Crusher	DLHCS1523	3
5	Vibrating Screen	DL3YKZ3080S	5
6	Impact Sand Making Machine	DLVSI1263	2
7	Vibrating Screen	DL2YKZ3080	2

Belt conveyor

NO.	Equipment	Model	Set
1	Belt Conveyor	B1600	1
2	Belt Conveyor	B1000	1
3	Belt Conveyor	B1000	1
4	Belt Conveyor	B1000	1

5	Belt Conveyor	B1200	3
6	Belt Conveyor	B1200	3
7	Belt Conveyor	B1200	1
8	Belt Conveyor	B1200	1
9	Belt Conveyor	B1200	1
10	Belt Conveyor	B1200	1
11	Belt Conveyor	B1000	1
12	Belt Conveyor	B1400	1
13	Belt Conveyor	B1400	1
14	Belt Conveyor	B1000	1
15	Belt Conveyor	B1000	2
16	Belt Conveyor	B1200	1
17	Belt Conveyor	B1200	1
18	Belt Conveyor	B1000	1
19	Belt Conveyor	B1000	1
20	Belt Conveyor	B1000	1
21	Belt Conveyor	B1000	1

Workflow

Raw materials are fed uniformly into the primary jaw crusher (A2) via the feeder (A1) for primary crushing. The crushed materials are conveyed by a belt conveyor to a transfer bin for storage.

Materials in the transfer bin are fed by the feeder (A3) onto a belt conveyor, which transports them to the impact crusher (A4) for secondary and fine crushing. The materials then pass through the vibrating screen (A5) for screening:

- Materials larger than 31.5 mm on the first layer are conveyed back to the transfer bin by belt conveyor for storage;
- Other materials meeting the finished product requirements are sent to the finished product stockpile.

Materials meeting the sand-making feed requirements enter the sand making machine (A7) for sand production, and then pass through the vibrating screen (A6) for classification. Stone materials of different specifications are separated and conveyed to the finished product stockpiles.

Features of This Production Line Design

The combination of a feeder and a soil-removal screen pre-screens out small-sized materials, which are then screened by the vibrating screen (A8) to remove soil, stone powder and part of the crushed stones. This reduces over-crushing and thus increases the capacity of the primary crusher.

With a parallel vibrating screen arrangement, the screening efficiency is 50% higher than that of the traditional two-stage screening system. It can produce finished aggregates of multiple specifications simultaneously (e.g., 0 – 5 mm, 5 – 16 mm, 16 – 26.5 mm, 26.5 – 31.5 mm) to meet different engineering requirements.

The production line adopts a dual-line parallel and high-efficiency collaborative process design as a whole. It is equipped with large intermediate storage bins to realize raw material buffering and uniform feeding, optimize material flow rhythm, reduce equipment start-stop frequency, lower energy consumption and wear, and further improve the operational efficiency of the whole line and the quality of finished aggregates.

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