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ZHONGYUDINGLI

1000 tph crusher plant

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

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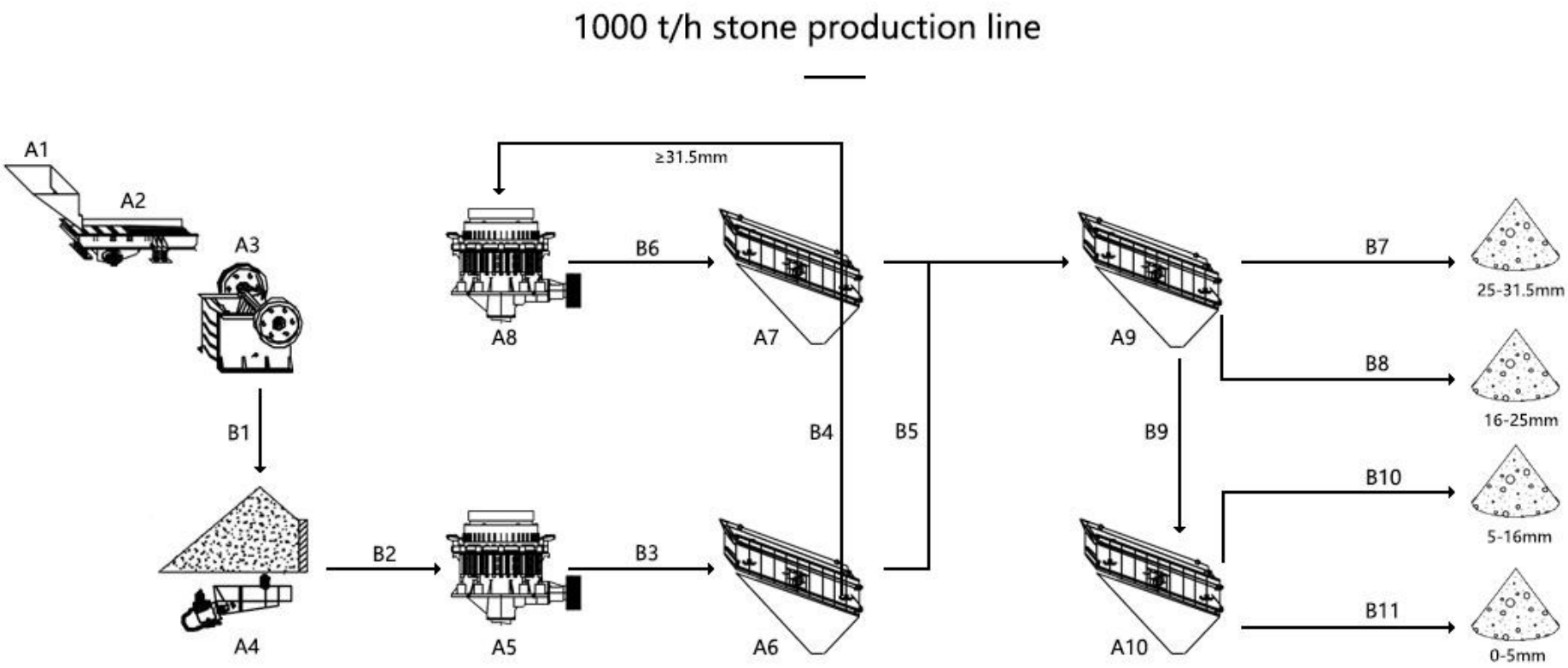

Main Equipment

NO.	Equipment	Model	Set
1	Silo	-	2
2	Vibrating Feeder	DLZGC2050	1
3	Jaw crusher	DLEV160	1
4	Vibrating Feeder	DLZGC1223	3
5	Cone crusher	DLDS660	1
6	Vibrating screen	DL2YKZ3680S	2
7	Cone crusher	DLHPT500	2
8	Vibrating screen	DL2YKZ3080S	4
9	Vibrating screen	DL2YKZ3680S	3
10	Vibrating screen	DL2YKZ3080S	2

Belt conveyor

NO.	Equipment	Model	Set
1	Belt conveyor	B1200	1

2	Belt conveyor	B1000	3
3	Belt conveyor	B1200	1
4	Belt conveyor	B1000	2
5	Belt conveyor	B1000	3
6	Belt conveyor	B800	2
7	Belt conveyor	B800	1
8	Belt conveyor	B800	1
9	Belt conveyor	B1000	1
10	Belt conveyor	B800	1
11	Belt conveyor	B800	1

Workflow

The large pieces of material in the silo are evenly fed into the A3 jaw crusher for coarse crushing and extrusion crushing through the A2 bar vibrating feeder. The crushed material is then sent to the transfer silo through the B1 belt conveyor, and evenly fed into the two A5 single bar cone crushers through the B2 belt conveyor below the transfer silo for intermediate and fine crushing. The intermediate and fine crushed material is then sent to the A6 vibrating screen for screening through the B3 belt conveyor. The same specifications of material are obtained from the A7 vibrating screen, which includes stones larger than 31.5mm and stones smaller than 31.5mm. Stones larger than 31.5mm are sent to the A8 cone crusher for fine crushing through the B4 belt conveyor, and the discharged material enters the A7 vibrating screen for screening and grading. 31.5mm stone material needs to be transported to A9 through B5 belt conveyor The circular vibrating screen is used for screening, which can separate 25-31.5mm stone materials, 16-25mm stone materials, and materials below 16mm. The 25-31.5mm stone materials and 16-25mm stone materials are sent to the material pile for storage through corresponding belt conveyors. Materials smaller than 16mm are sent to the A10 two-layer belt conveyor for screening through the B9 belt conveyor, which can separate 0-5mm stone materials and 5-16mm stone materials. These two types of stone materials will be evenly sent to the material pile for storage through the belt conveyor.

Features of This Production Line Design

This project uses a jaw crusher as the coarse crushing equipment, which can crush large stone blocks into sizes below 300mm. After intermediate crushing through a cone crusher, the material is further processed into finished product sizes below 31.5mm, forming an efficient two-stage crushing process with low failure rate and strong continuous operation capability; The use of laminated crushing method can effectively reduce the content of needle like materials in the finished product, make the grading more reasonable, and significantly improve the market price and competitiveness of the product; The key components are made of wear-resistant materials such as high chromium alloys, which prolong the service life of vulnerable parts, reduce replacement frequency, and lower long-term maintenance and spare parts costs; Wide applicability and flexible configuration, this solution is not only suitable for high hardness stone materials such as granite and basalt, but also widely used for processing medium hard materials such as hematite and limestone.

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