

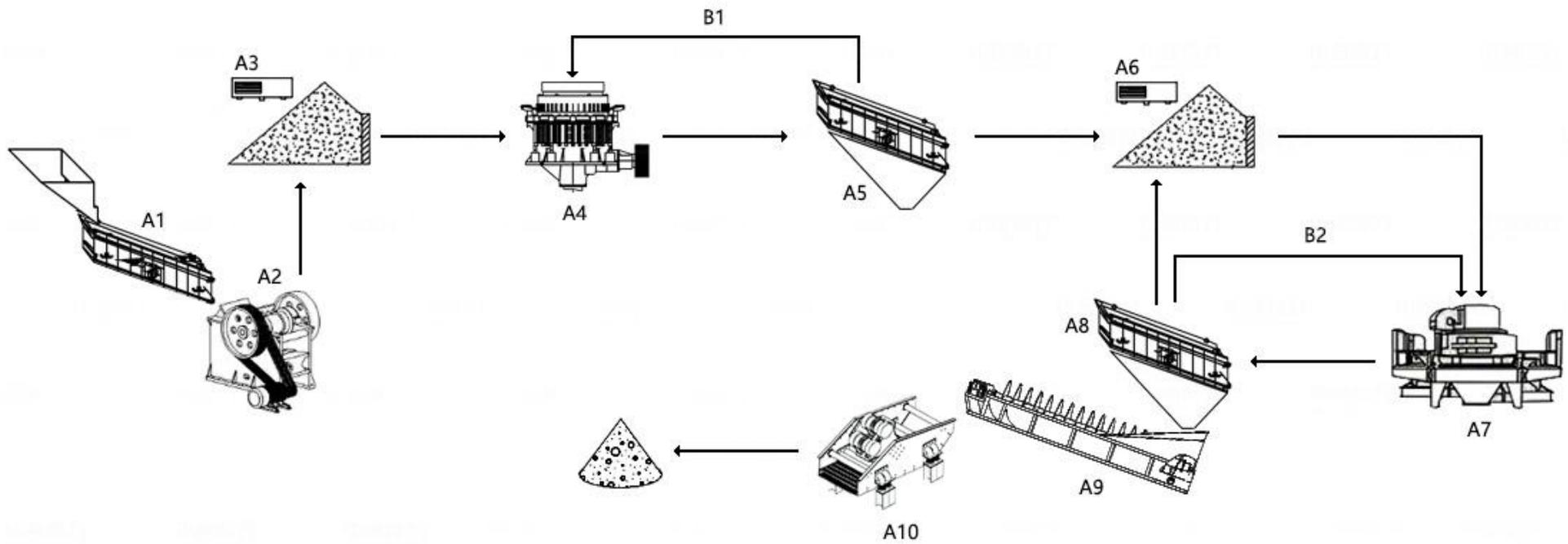
50 tph stone crusher plant

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

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50 tph stone crusher plant

50-60 t/h stone production line



Main Equipment

NO.	Equipment	Model	Set
1	Vibrating screen	YA1860	1
2	Jaw crusher	PE400×600	1
3	Intermediate Bin Feeder	GZD1200×1800	1
4	Cone crusher	S155D	1
5	Vibrating screen	2YA2160	1
6	Intermediate Bin Feeder	GZD1200×1800	1
7	Impact crusher	VSI1146	1
8	Vibrating screen	YJ2-2160XY	1
9	Sand Washer	2XL915	1
10	Dehydration Screen	/	1

Workflow

Raw Material Feeding and Primary Crushing: Raw materials are uniformly fed into the jaw crusher (A2) by the vibrating feeder (A1) for primary crushing.

- The crushed materials are conveyed to the intermediate bin (A3) for temporary storage by a belt conveyor.

Secondary Crushing: Semi-finished materials are fed into the cone crusher (A4) by a belt conveyor for secondary crushing, so as to meet the particle size required for sand making.

Screening: The crushed materials enter the vibrating screen (A5) for pre-screening.

- Oversized materials on the screen are returned to the cone crusher (A4) for re-crushing via belt conveyor (B1).

- Qualified undersize materials are sent to the intermediate bin (A6) for temporary storage.

Sand Making: Materials from the semi-finished bin are fed into the sand making machine (A7) by the intermediate bin feeder (A6) via a belt conveyor.

Finished Product Screening and Washing: Materials after sand making enter the vibrating screen (A8) for classification to separate the finished sand.

- Oversized materials are divided into two streams:

one is conveyed back to the intermediate bin (A6),

the other is sent to the sand making machine (A7) for re-crushing via belt conveyor (B2).

- The finished sand enters the sand washer (A9) for cleaning and is then conveyed to the finished product stockpile.

- Waste sand and slurry discharged from the sand washer are sent to the dehydration screen (A10) for recovery, so as to reduce material waste.

Features of This Production Line Design

Pre-cleaning: Suitable for raw materials with high mud and impurity content, allowing pre-screening and classification.

Complete Process: Adopts a full process flow: primary crushing – secondary crushing – pre-screening – sand making – screening & washing, enabling direct production of high-quality manufactured sand that meets engineering gradation requirements.

Excellent Particle Shape: With the combination of cone crusher and sand making machine, the finished product features rounded grains, low flaky particle content, complying with high-quality building material standards.

Eco-friendly & Energy Saving: Equipped with sand washer and fine sand recovery unit, it effectively recovers fine sand, reduces discharge, and minimizes environmental impact from dust and wastewater.

Flexible Adaptation: Designed with a capacity of 50 – 60 t/h, it is ideal for small and medium-sized sand and aggregate projects or as a supporting sand-making unit for large production lines. It has a compact layout and controllable investment.

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