AMPCO

SAND MAKING SYSTEM

Sand Making System

AMPCO Sand Making System adopts international advanced artificial dry manufactured sand making technology, selects the process flow of the sand making machine combined with air screening machine process, and produces high quality manufactured sand required for the concrete used in engineering construction. It is the most stable raw material production equipment for concrete production enterprises, and at the same time, it can be used to realize the production concept of "comprehensive protection, green sand making and intelligent control" of the enterprises.

The main process flow is to achieve the manufactured sand standard required for the concrete used in the engineering construction by high-efficiency crushing and shaping of materials, aerodynamic screening and separation of powder, and particle grading adjustment. The premium manufactured sand produced by AMPCO sand making system features ideal particle shape, particle grading as well as controlled stone powder content. The concrete prepared by using the premium manufacturing sand as produced by AMPCO sand making system can improve the workability of concrete, enhance the strength of concrete and reduce the production cost.

System Feature

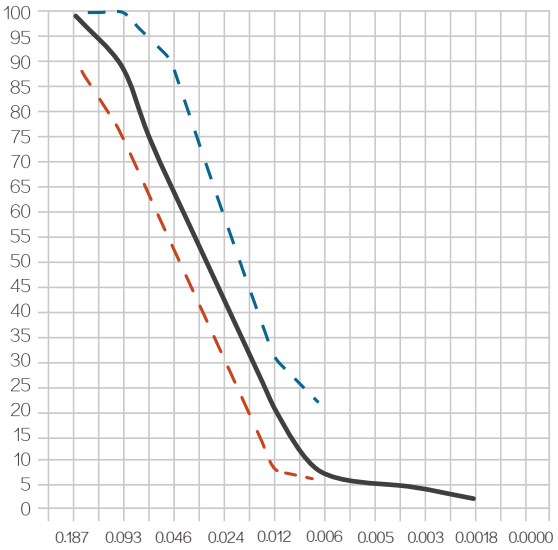
- With fully enclosed design, and intake negative pressure controlling dust overflow, it is in line with environmental standards. High rate of finished products, and the fineness of the powder to be removed and powder content are adjustable.
- Reasonable The process flow, excellent equipment performance is, high efficiency and energy-saving, and large processing capacity.
- Compact overall structure is, small footprint and high cost performance.
- Fully automatic control system, one-button start and stop, easy to operate. Central control system communication connection and remote computer and mobile phone monitoring are optional.
- Stable product quality, which is suitable for large-scale industrial production, safe to use and easy to maintain.
- The surface of steel structure is galvanized, with excellent corrosion resistance and extended service life.

Technical Parameters

Technical Parameters

Model	Sand making amount	Raw material granularity	Water content	Max.percentage clay		Installed power
Unit	st/h	Inch	%	%		Hp
				0 – 0.006	< 0.003 Inch	
AMS100	66–110	< 1.57"	<3	5%–10%	<5%	738–872
AMS200	132–220	< 1.57"	<3	5%–10%	<5%	1,421
AMS350	243–386	< 1.57"	<3	5%–10%	<5%	2,347

Characteristic Curve of AMPCO Sand

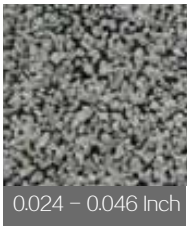


Grain	%Max	%Min	AMS
0.187	100	90	100
0.093	100	75	89.2
0.046	90	50	63.8
0.024	59	30	42.6
0.012	30	8	19.6
0.006	20	6	7.8
0.005	–	–	5.6
0.003	–	–	4.3
0.0018	–	–	2.2

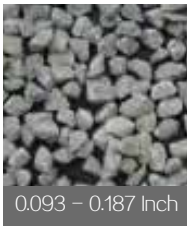

0 – 0.006 Inch


0.006–0.012 Inch


0.012–0.024 Inch

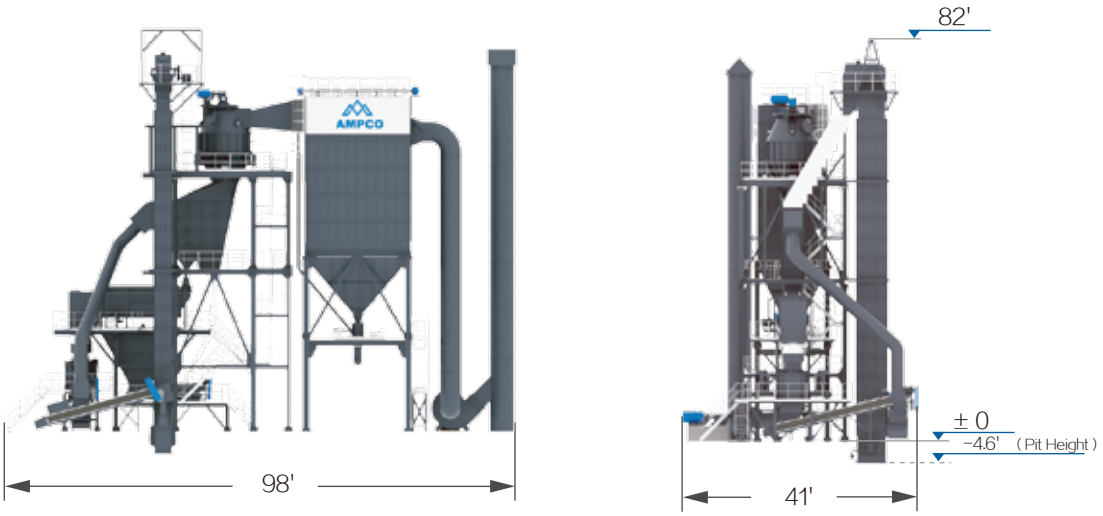

0.024 – 0.046 Inch


0.046 – 0.093Inch

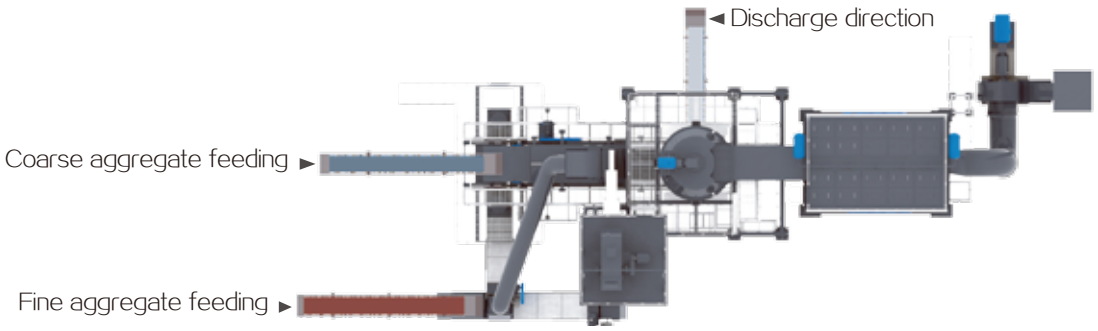

0.093 – 0.187 Inch

Dimensional Drawing

Unit: ft



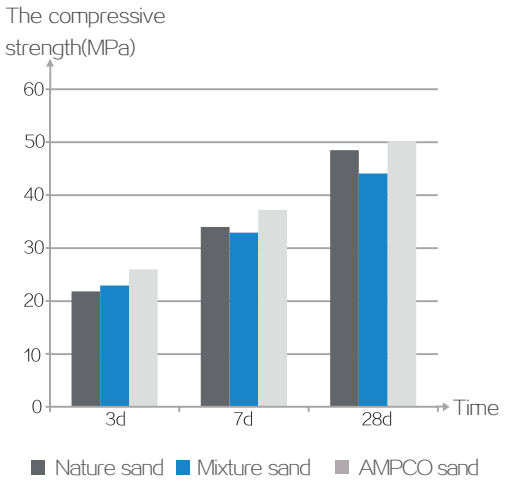
Layout Plan



AMPCO Superior Machine – made Sand Test and Experiment Data

Test Item

Mix proportion	Actual water use	Initial Slump	1h slump loss	Air content	Comprehensive strength MPa			28d splitting tensile strength	28d electric flux
	lbs/m3	Inch	Inch	%	3d	7d	28d	MPa	C
Nature sand	375	8.3"	0	1.7	21.8	34.0	48.5	3.67	2,048
Mixture sand	386	7.1"	0	1.8	22.9	32.9	44.3	3.74	1,810
Ampco sand	335	7.9"	-0.39"	2.7	26.0	37.2	50.2	3.81	1,510



Performance ratio of concrete made of AMPCO sand, Nature sand and Mixture sand

Nuclear Power Project site – China Liaoning

AMPCO Project case

CASE 01

Project nature: Nuclear power

System model: AMS 200

Sand making material: granite

Launch date: September 2019

CASE 02

Project nature: High-speed railway, high-speed railway

System model: AMS 200

Sand making raw material: limestone

Launch date: March 2019

CASE 03

Project nature: Cofferdam

System model: AMS 200

Sand making raw material: limestone

Production date: June 2019

CASE 04

Project nature: Commodity sand
System model: AMS 200
Sand making raw material: limestone
Production date: April 2020

CASE 05

Project nature: Commodity sand
System model: AMS 200
Sand making raw material: limestone
Production date: May 2020

CASE 06

Project nature: Nuclear power

System model: AMS 200

Sand making material: granite

Launch date: September 2020

CASE 07

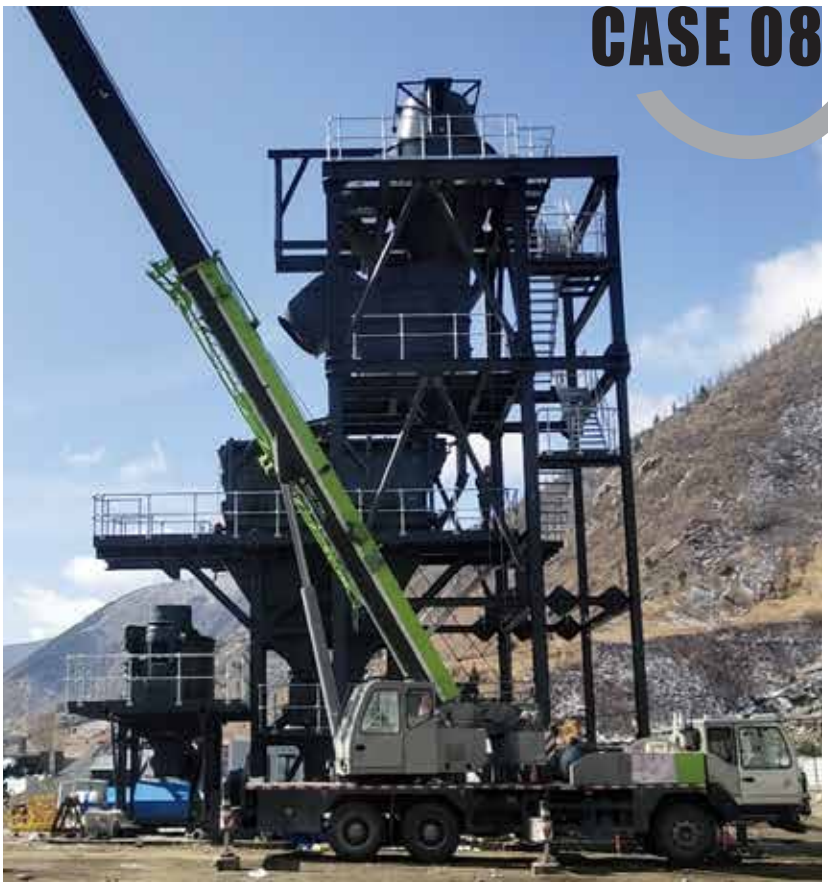
Project nature: structural prefab

System model: AMS 100

Sand making raw material: limestone

Launch date: June 2021

CASE 08



Project Nature: High-speed rail (altitude 3,800 meters)
System model: AMS 200
Sand making material: granite
Commissioning date: June 2022

CASE 09

Project nature: Cement
System model: AMS 200
Sand making raw material: limestone
Launch date: March 2022

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