

AMOREF

SIMPLIFYING SMALL SCALE GOLD MINING

AMOREF STAMP MILL (ASM-01)



Stamp mills were used by miners in Samarkand as early as 973. They were used in medieval Persia to crush mineral ores. By the 11th century, stamp mills were in widespread use throughout the medieval Islamic world, from Islamic Spain and North Africa in the west to Central Asia in the east.

The basic design has not changed by much other than the drive mechanisms. In today's industrial world one would imagine the stamp mill obsolete, but it remains the only trusted ore crushing machine trusted by artisanal miners.

Amoref has redesigned this bastion of the gold mining sector in Africa to come in-line with modern advancements in materials.

TECHNICAL SPECIFICATIONS

Model No.	ASM-01
Height	7,097 mm
Length	21,300 mm
With	3,036 mm
Number of stamp-shafts	3 off
Jaw crusher opening	150 mm x 300 mm
Max feed size	125 mm
Conveyor	300 mm Wide x 11 m Long
Centrifugal	750 mm bowl to slant type
Shaft slide sleeves	Vesconite
Impact boots and bowl	Steel, chrome and manganese mixture
Power requirements running	29.5 KW
Power requirements on start-up	37 KW
Fabrication time from order	8 to 10 weeks

ADVANCES

1.	Wooden beam construction is Plastic Timber profiles that are manufactured from a blend of 100% Post-Industrial and Post Consumer recyclable plastics.
a.	Durability – product has a much longer lifespan with little wear.
b.	Load Capacity – exceeds that of its wooden counterpart.
c.	Cost Saving – significant cost savings in labour and materials due to reduced maintenance and replacement requirements.
d.	No painting or treatment required.
e.	Rot and Algae proof – does not absorb moisture.
f.	Less flammable – most recycled plastic products are difficult to ignite and fire does not spread readily.
g.	Insect Resistance.
h.	Splinter Free.
i.	Vandal Resistant – product cannot be used as firewood.
2.	All joints are steel reinforcer with 10mm mild steel galvanised steel plates and joined with course treaded 16mm screws. This makes assembly and part replacement easier
3.	Impact parts are manufactured from a combination of steel, chrome and manganese to reduce wear.
4.	Slide bearings are lined with vesconite to ensure a smooth operation.
5.	The structure is underpinned using I-beam structural steel with jacking pins to align your stamper slides even if you have ground movement.
6.	All material is pre-crushed to a maximum output of – 25mm thus increasing throughput, with a maximum input size of – 125mm.
7.	Concentration of the free-milled gold is done in an Amoref centrifugal concentrator.
8.	Pass-out screens are interchangeable and wedge wire panelling is allowed for from 300 micron to 750-micron panels.

The complete unit is manufactured in our factory and erected on-site, the client is responsible to provide the concrete structure.

OUR EQUIPMENT IS ALWAYS BUILT ACCORDING TO EACH CLIENT'S UNIQUE STYLE AND REQUIREMENTS. THE RENDER PROVIDED IS ONLY AN EXAMPLE OF THE EQUIPMENT WITHOUT CUSTOM DETAIL.

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