



**JITAMITRA ELECTRO
ENGG PVT LTD.**

Case Study

Fume extraction Blower

RAIN CEMENTS LTD.
(through MAZDA)

Segment

Cement Industry

Challenge

Power saving
Capital Cost Saving

Solution

JEEPL designed blower of 7.5HP instead of 10HP using Aluminium impeller and thus saving power & initial cost

Results

Saved operating costs
Efficient extraction of non-toxic gases
Corrosion free impeller due to aluminium

TITLE

JEEPL supplied Aluminium Impeller blower for Rain Cements Ltd. To extract non-toxic fumes in cement manufacturing in WHS (Waste Heat Recovery System)

CLIENT INFO

Rain Cements Ltd. is an established player in cement industry. The company approached MAZDA Ltd. For efficient blower system and in that system the specific blower regarding the above mentioned purpose was provided by JEEPL.

THE CHALLENGE

Rain Cements Ltd. wanted to save capital costs while purchasing the blower and reduce operating costs as well

The cement industry being very price sensitive it is a prime necessity that the running cost should be lowest.

THE SOLUTION

Previously the client was using 10 HP blower and JEEPL provided the blower with 7.5 HP thus reducing the power consumption and hence running costs

The initial operating current was 7.5Amp and by using JEEPL blower it dropped down to 5Amp thus saving power consumption

This was possible due to aluminium impeller being lighter in weight than MS the added advantage is that Aluminium is non rusty

RESULT

Attribute	Initial	After
Power	10HP	7.5HP
Current	7.5A	5A

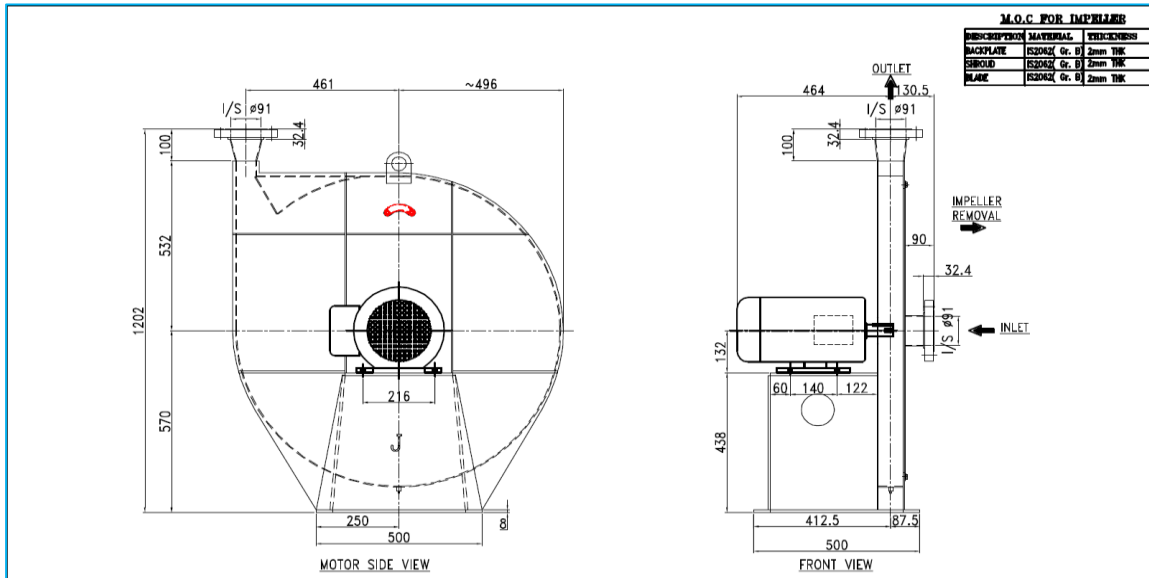
Technical specifications of device

Pressure	900mmwC
Motor HP	7.5HP
Volume	300cmh
Density	.936 kg/cm ²

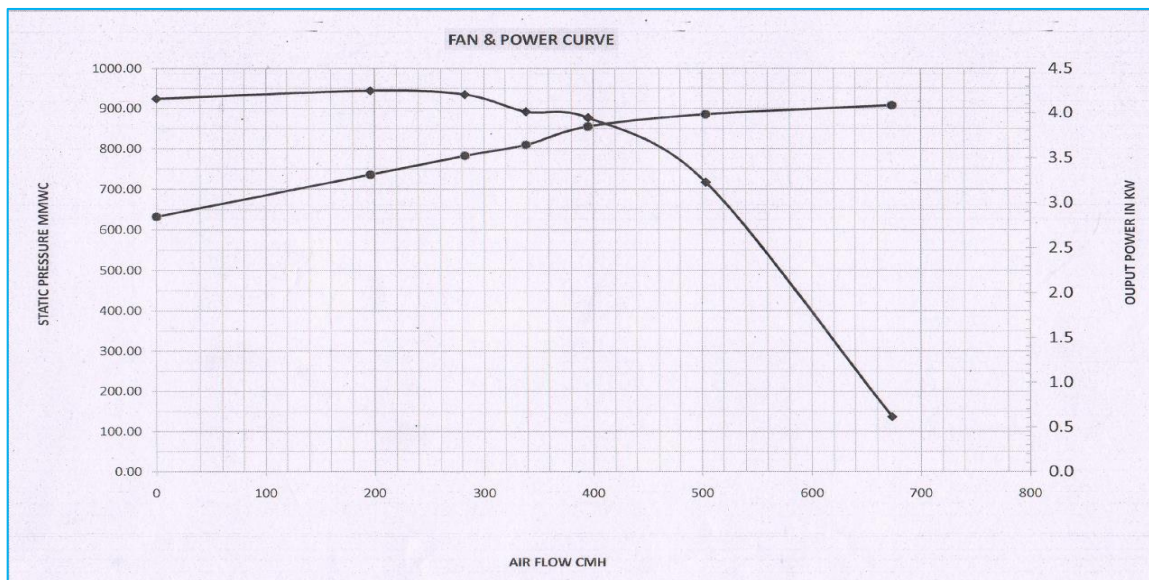
Remarks/ Special Info

N/A

GA Drawing



Fan and Power Curve



JEEPL can engineer customized solutions for the same application in any Cement or Related industries.

Inlet damper, metallic bellows can be provided as per customer requirements



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