# Paint Booth Design Education (Property in the Copyright Design Education)

## CHECKLIST FOR DESIGNING THE PERFECT PAINT BOOTH

Atul Prabhu Director, Autocoat Engineering (I)Pvt. Ltd. Over 35 Years Designing & Engineering Spray Booths Phone: 9322508192 Direct Email: autocoatbom7@gmail.com

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## Top 5 Design Parameters for Your Perfect Paint Booth Design...

1. Correct size of paint booth. 2. Production Quantity. 3. Enhance your Spray Quality. 4. Safety & Paint Booth Norms. 5. Proven Supprinter (Who will provide overlapping Drawing with your Layout)

## Correct size of paint booth

Size must consider Painter & biggest component inside cabin

Painting take place inside cabin (open or closed) & and the overspray's are effectively exhausted out of building to meet as per state pollution law.

Component Size & weight will decide to go for "Side Draft or Down Draft"

Material Handling<sup>ener</sup>During Painting & After Painting<sup>\*\*</sup>Heavy weight Component will require lifting devise<sup>\*\*</sup>& Bigger Paint Booth

## **Production Quantity**

Quantity per/shift will decide type of Paint Booth, "Batch or conveyorised" paint Booth

Production quantity/Paint consumption will decide "Dry Type Paint Booth or Water Wash Paint Booth"

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## Enhances your Spray Quality

Velocity of air draft at 0.3 m/sec as per OSHA Standards for operator comfort.

Correct ventilation design will ensure effective Exhaust of air (Autocoat Speciality)

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Solver & "Proven & documented pressure & capacity" for efficient Exhaust of overspray will "Enhances your spray quality" (Autocoat Speciality) Never Buy Paint Booth with self manufactured blower

## Proven Supplier

Compare List Painting Before(Without Autocoat know how) & Painting After (With Paint booth & Autocoat know how).

AutoCAD GA Drawing matching your building, Plant Layout, Handling System with your product Geometry, Achieving Production/Quality Requirement (Autocoat Speciality)

Experience & Expertise supplier must be minimum 15 years experience since paint booth life expectations 10 years

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Proven Manufacturing Practice like Assembly/Trial before Dispatch & Training. (Autocoat Speciality)

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Company :- SEW Chakan, Property Autocoat Engineering (I) Py Lu Copyright Infrime Product :- Gear Boxt (Medium) 20 Nos./Shift

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Company :- BLUESTAR WADA

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# Side Draft Paint Booth Vs. Down Draft Paint Booth

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Company :- Emerson Banglore 1 Product :- Wind mill Alternator 2-5 Nos.

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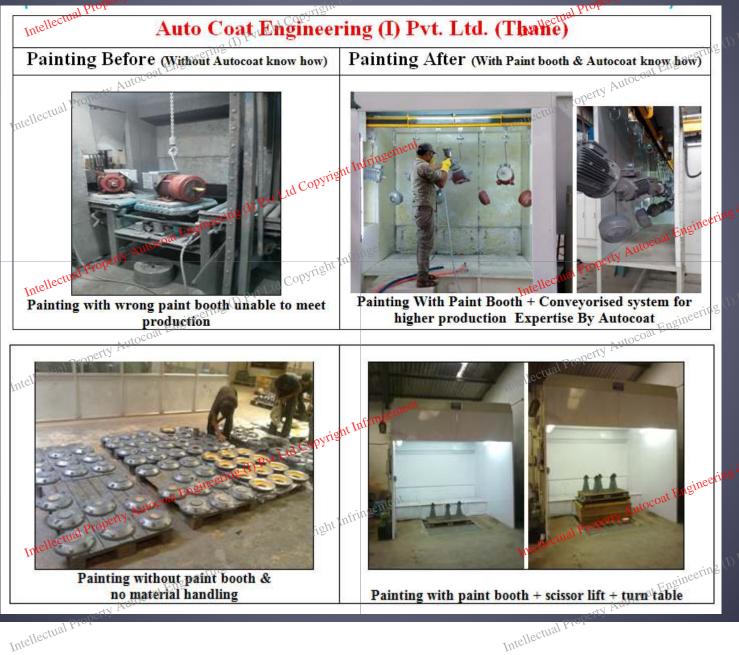


Company :- Kirloskar Pneumatics - Hadpsar Product :- Pipe Spool 100 Nos./Shift

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#### Compare List Painting Before (Without Autocoat know how) & Painting After (With Paint booth & Autocoat know how). Pvt Ltd Copyright Infrint

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## Primary Paint Booth Types... What are they and when best To consider them...

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<u>Dry Back Paint Booth</u>: Autocoat Specialty 4 level filtration. Suitable for low paint consumption & for PU & Air Drying paint (Non sticky paint). Autocoat Specialty Metal Baffle design insures filter replacement cost at amazingly low. Meets pollution norms of less than 150 mg/Nm3 Particulate Matter. No ETP Required (Used filters to be given to ETP Agents) Capital cost less than water wash booth

<u>Water Wash Paint Booth</u>: Autocoat Specialty Pump less(No Pump Design)Suitable for higher paint consumption more than 20 ltrs per shift & all type of baking paint (sticky paint) & Air Drying paint. Requires water tank & Washing Chamber for pain free exhaust. No filter replacement cost. Meets pollution norms of less than 150mg/Nm3 Particulate Matter.ETP Required for Water Disposal (Used water can be given to ETP Agents)Capital cost more than Dry paint booth.

Top 5 Costly Mistakes....

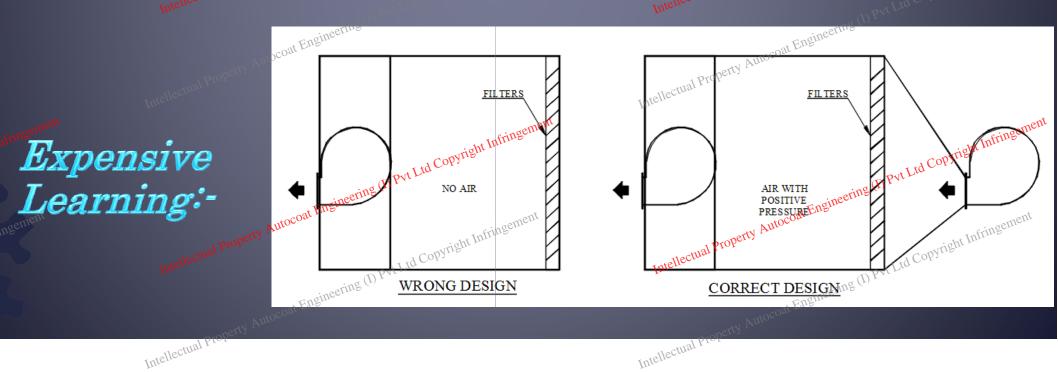
Heard from customers.... Due to lack of knowledge even by Supplier results expensive costly mistakes or customer...

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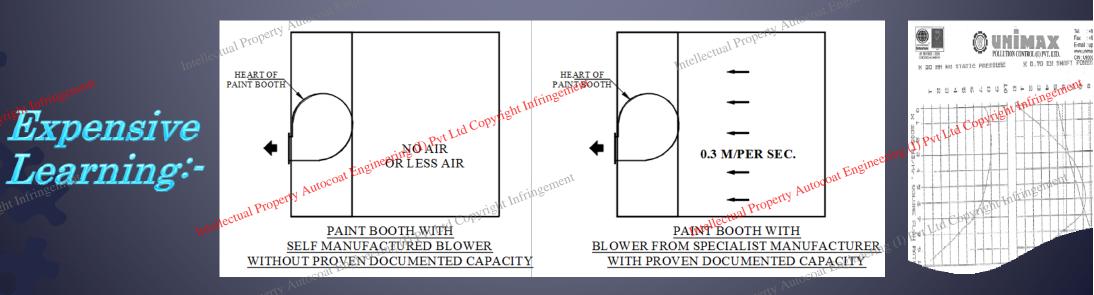
No Problem,"I got a quote for paint booth with filters on "open" side of Paint Booth for better paint finish

So...Customer finalizes....Paint booth is erected & Discovers during painting no air inside paint booth & there is -ve ...Resulting painter sufficiention...Painter Keeps Door open or removes the filter since paint booth can not be Scraped.



No Problem ... I got a quote with the 'less' Price & your price is higher

So ... Customer finalizes... Paint booth is erected & discovers air flow not sufficient (Self made blower Capacity can not be until checked) painter cannot spray for longer time. Loss of production, more rework & Loss of Money till Paint booth life.



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No Problem...I got a quote with the "Paint Booth" for my product. Supplier has given guaranty & has supplied many paint booth

Source: Customer finalizes.....Paint booth is erected & discovers "Handling" of Heavy component is difficult & painter is unhappy." Bottom painting cannot be done. Component cannot be rotated for all sides painting & dikewise "many Paint Booth Shortfalls".

Loss of production, more rework & Loss of Money till Paint booth life.



No Problem....I got a quote for "Smaller Paint Booth" & Stoccheaper then pain booth quoted by you. Supplier has given guaranty.

So....Customer finalizes.....Paint booth is erected & discovers painter is standing outside the paint booth & all overspray's outside cabin. Inside cabin gets dirty in no time. Painting in such dirty environment results rejection & loss of customer confidence means in such and such dirty environment results rejection &

Veither pollution norms are fulfilled

Loss of Production & Loss of Money During life of the naint booth

*Expensive Learning* :-



# Do Contact Autocoat Engg. for correct Paint Booth

## Avoid Costly Errors till life of the

Paint Booth .....

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