

MEC



THERMAL SPRAY FACILITIES

AUXILIARIES FOR THERMAL SPRAY SYSTEMS

MEC THERMAL SPRAY ACOUSTIC CHAMBER



www.mecpl.com



ACOUSTIC CHAMBER IN MODULAR DESIGN

Thermal spraying process inherently generates noise level above threshold limits; some processes produce following noise levels :-

Arc	116 dbA
Plasma	134 dbA
HVOF	140 dbA
Wire Combustion	125 dbA
Powder Combustion	111 dbA

* These noise levels are at a distance of 1 meter.

* Noise reduction level - 125 → 80 dBA

Therefore, it is necessary to bring down noise level to reasonable limit, apart from collecting over sprayed dust & fumes. Acoustic cells are designed for both purposes: for reducing noise level as well to arrest extra sprayed dust & fumes thus to keep clean condition of operation. They meet international safety regulations.

MEC has designed modular series of Acoustic chambers with several options.

MODEL	ACOUSTIC CHAMBER SIZE L x W x H (in mm)	FRONT MAIN DOOR & MAN DOOR SIZE, W x H, (in mm)	ILLUMINATIONS METAL HALIDE LAMPS	SUCTION HOOD SIZE W x H (in mm)	VISION WINDOW SIZE in mm	
					ON CHAMBER	ON DOOR
AC - 252525	2500 x 2500 x 2500	1500 x 2000 & 800 x 2000	150W x 1 No.	1000 x 750 # 1	500 x 750 # 1	350 x 350
AC - 303025	3000 x 3000 x 2500	1500 x 2000 & 800 x 2000	150W x 1 No.	1000 x 750 # 1	500 x 750 # 1	350 x 350
AC - 303030	3000 x 3000 x 3000	1500 x 2000 & 800 x 2000	150W x 1 No.	1000 x 750 # 1	500 x 750 # 1	350 x 350
AC - 404030	4000 x 4000 x 3000	2000 x 2000 & 800 x 2000	150W x 2 No.	1250 x 750 # 2	500 x 750 # 2	350 x 350
AC - 504030	5000 x 4000 x 3000	2000 x 2000 & 800 x 2000	150W x 3 No.	1250 x 750 # 3	500 x 750 # 2	350 x 350
AC - 504035	5000 x 4000 x 3500	2000 x 2000 & 800 x 2000	150W x 3 No.	1250 x 750 # 3	500 x 750 # 2	350 x 350
AC - 604035	6000 x 4000 x 3500	2000 x 2000 & 800 x 2000	150W x 3 No.	1250 x 750 # 4	500 x 750 # 3	350 x 350
AC - 605035	6000 x 5000 x 3500	2000 x 2000 & 800 x 2000	150W x 3 No.	1250 x 750 # 4	500 x 750 # 3	350 x 350
AC - 754035	7500 x 4000 x 3500	2000 x 2000 & 800 x 2000	150W x 4 No.	1250 x 750 # 5	500 x 750 # 4	350 x 350
AC - 755035	7500 x 5000 x 3500	2000 x 2000 & 800 x 2000	150W x 4 No.	1250 x 750 # 5	500 x 750 # 4	350 x 350



TYPICAL INSTALLATION OF ACOUSTIC CHAMBER



FOLLOWING SAFETY FEATURES ARE PROVIDED WITHIN THE SYSTEM TO CHECK FOR ANY FAULT & INTIMATE ABOUT THE SAME :-

- Spray operations can not be started until the door is not closed.
- The system should immediately shut down in case of unusual opening of door during the spray.
- Spray system will not start if the dust collector is off.
- Optional emergency pull cord wiring is provided inside the acoustic chamber.

DOOR OPTIONS AVAILABLE



L-shape sliding door

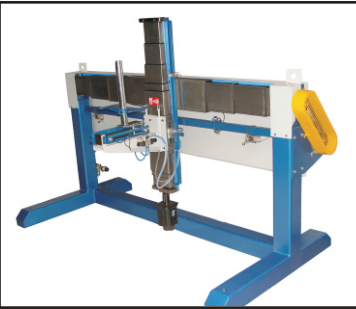


Roof sliding door



OPTIONAL ACCESSORIES FOR ACOUSTIC CHAMBER

Gun Manipulators



X-Y Manipulator



Robot



X-Y-Z-R Manipulator

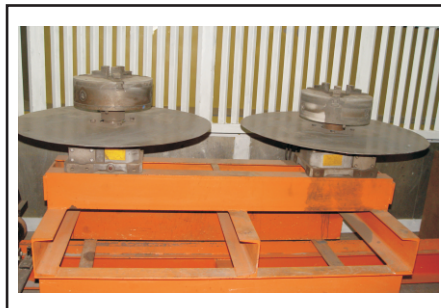


7th Axis robot

Job Manipulators



Tilting turn-table



Horizontal job rotator



Cruisal

Dust Collection Systems



Wet scrubber type



Dry cartridge type



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