TRAINING ON ANTAM STANDARD CODE
For TESTING OF KNAPSACK MISTERS CUM DUSTERS

PART - 6 : MEASURING INSTRUMENTS, TOLERANCES AND TEST RIGS

16 - 28 October2016, Nanjing China

2nd Training of Trainers on ANTAM Codes
Organized by ANTAM and CAMTC

MEASURING INSTRUMENTS, TOLERANCES AND TEST RIGS
BY
XC ZHANG and J.P. DOUZALS Trainers

No	Test items	Measuring device (example)	Accuracy	Notes
1	Rotational speed, rev/min		$\pm\, 0.5$	Tachometer
2	Anemometer		± 0.1	Portable anemometer or Pitot sensor

3	Time variation, s		±1	Digital stopwatch
4	Noise variation, dB (A)		±0.5	Sound level meter

5	Vibration, %		$\pm$ 10	Accelerometer
6	Weight variation, kg		± 0.05	Weighing balance of sufficient accuracy
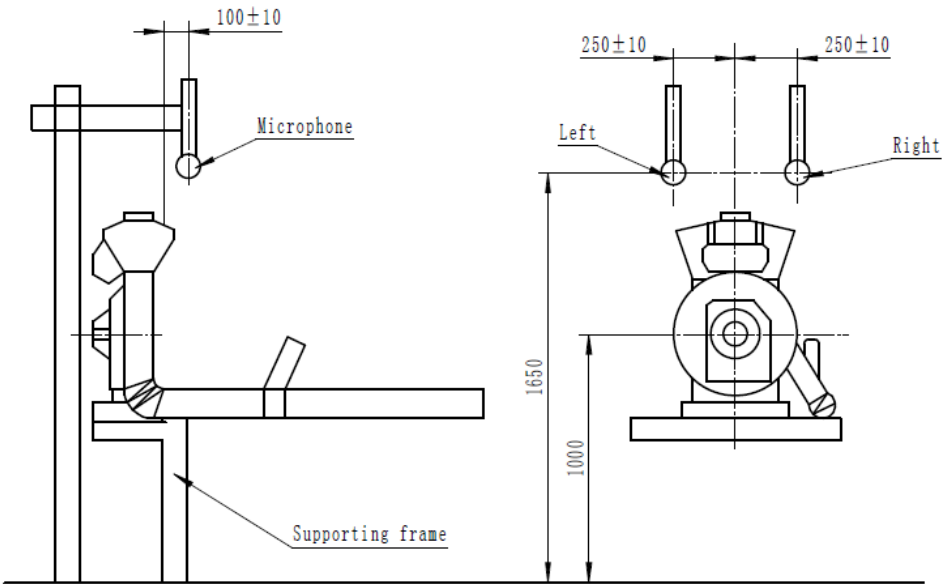
7	Weight variation, g		± 0.05	Weighing balance of sufficient accuracy
8	Pressure, % FS		+ 1 (< 10 kPa)	Pressure, % FS

9	Wind speed, m s^{-1}		$\pm$ 5% FS	Anemometer
10	Temperature, ^{0} C		$\pm$ 1 ^{0}C	Thermometer

11	Relative Humidity, % FS		± 1%	Hygrometer
12	Paint layer thickness		2 μm ±3%	Digital coating thickness gauge

13	Distance, mm		0.1 mm	Vernier caliper,
14	Distance, m		0.01m	Mesuring tape, 0.01m

| 15 | Strength of material testing (N) | | | 1N | |
| 16 | Test rig used to fix the mister cum duster for blower test, misting or dusting range and noise test | | | | |

Dimensions in mm

100±10

Microphone

250±10   250±10

Left   Right

1650

1000

Supporting frame

| 17 | Test rig used for the strap test |
a) Release position   b) Impact position |
| | Test rig for fan overspeed test |
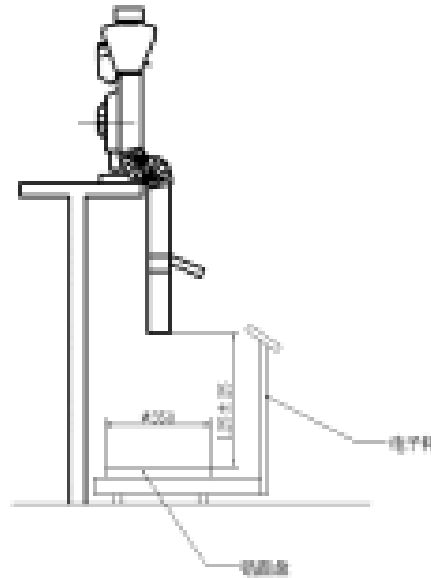Figure Test rig for over-speed mister-cum-duster test |
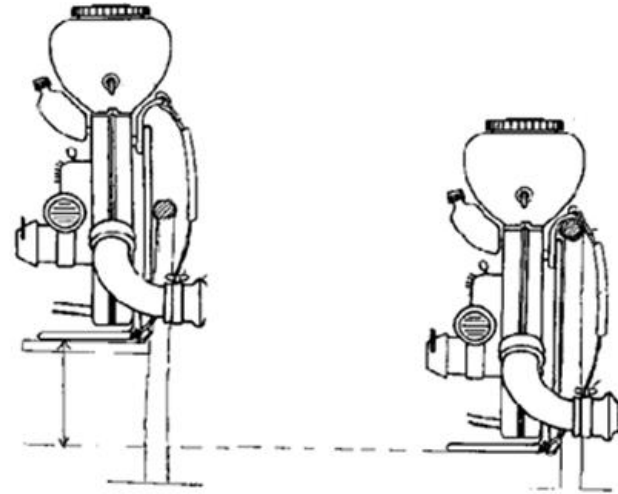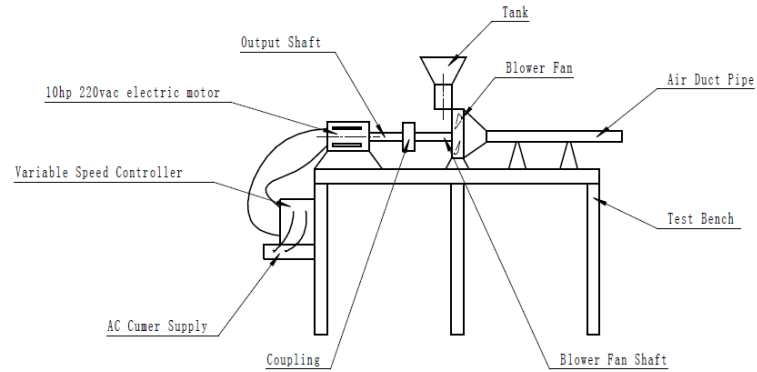
	Aging box		±1 ℃	Stove
	Test rig for blower test acc. ANSI 172.5 Balance 5kg range		+/-10g	