

DISPOSABLE PLASTIC ITEMS

S. No	Description	Qty. Required (No.)
1	Air Gauging System for I.D Measurement	
	a) E4N Microprocessor Column Converter with AIR (pneumatic to electronic convertor) with 1 input and digital Display.	2
	b) Air Plug Gauges for I.D measurement of tubes (sizes of jobs to measured are specified at Sr i to xi)	As per Sr. #2(i) to 2(xi)
	Make: Marposs, Italy or equivalent (excluding Chinese origin)	
2	Technical Details:	
a)	Work piece to be measured: feature Form: Bore (Tube)	
	I D measurement of Tube (Length) = 4 meter	
	Dimension:	
i	Nominal I.D size (mm): Φ 11.9, Tol: \pm 0.05	2
ii	Nominal I.D size (mm). Φ 10.38 , Tol; \pm 0.03	2
iii	Nominal I.D size (mm): Φ 10,35 , Tol: + 0,03	2
iv	Nominal I.D size (mm): Φ 10.34, Tol: \pm 0.03	2
V	Nominal I.D size (mm): Φ 10.30, Tol: (+ 0.04, - 0.02)	2
vi	Nominal I.D size (mm): Φ 9, Tol: (+0.15, - 0,07)	2
vii	Nominal I.D size (mm): Φ 9, Tol: \pm 0.04	2
viii	Nominal I.D size (mm). Φ 9. Tol. (+0.07, - 0.15)	2
ix	Nominal I.D size (mm): Φ 8.6, Tol: \pm 0.03	2
X	Nominal I.D size (mm): Φ 7, Tol. (+ 0.4 , - 0.20)	2
xi	Nominal I.D size (mm): Φ 5.34, Tol; .!: 0.05	2
	* Surface Roughness of Tubes I.D (Ra): 1.5 μ m	
b)	Air Plug Gage:	
	Material: Tungsten Carbide	
	* Type / location of Jet: Thru Hole	
	* Dia. of Jets: 2 mm	
	* Air plug with 02 nos jets : For quality measurement	01/ Each I.D Size
	* Air plug with 03 nos jets : For Avg. I.D measurement	01/ Each I.D Size
	* Marking of air plugs for size (marking & kit bundling may be	
	* Handles and Extra 1 cooling hose may be offered fur deep bore	
c)	Master Calibration Rings for Max. & Min. size ranges with calibration certificates (Class XX)	01 set / Each Size
d)	Essential Features of Air Gaging System:	
	* Measuring Range: \pm 50 μ m	
	* Repeatability: 0,7 μ m	
	* Accuracy: 1.5 μ m	
	* Amplifier: Digital Air- electronic column with back pressure system	

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	* Air Supply Pressure: 1,5 - 4.0 bar	
	* Arm Ratio and Sensitivity Adjustment = ± 4 with 0.001 step	
	* Working Temperature: 0 - +50nC	
	* Measuring Unit: mm, inches	
	* Type of Measurement: static or dynamic (Max+Min)/2, (Max-	
	* Scale: upto 10 programmable range manageable transducer; 1-8	
	* Transducer Programming Standard Measuring Range: upto ± 1 mm	
	Transducer Programming Wide Measuring Range: upto ± 5 mm	
	* Dot matrix display. Differential, absolute measurements (8 digits)	
e)	Filter and pressure regulator	2
f)	Hand switch	2
3	Power Supply:	
	Fuse: 2A delayed	
4	Limit of Supply:	
	Must ho supplied with standard accessories including setting masters	
5	Manuals	
	* Operation, maintenance Manuals and electrical circuit drawings in	
	* Calibration certificates	
	* Air plugs inspection certificate	
6	5 Years Essential Spares	
	05 years essential spares may be quoted.	