



Peass Industrial Engineers Ltd.

# DMS



## DENSITY MEASUREMENT SYSTEM

Precise, Reliable & Efficient Package Density Measurement

The innovation in digital technology has made it possible to offer this highly accurate, simple to operate and most reliable density measurement system.

The volume of the package measured by a high resolution camera and the weight measured by an accurate load cell results in an accurate measurement of package density. The integration with the computer has made it possible to record each package Batch-wise.

The system offers complete statistical data acquisition and analysis. The master gauge offers quick and accurate calibration of the system in a few minutes. The measurement of density is as simple as putting the package in an easy locator and clicking a button. The measurement rate is almost 300 packages per hour. The system gives immediate results of package quality, within range, above specified limit or under the specified results.

The batch results can be printed out or stored as a soft copy with details of results of each sample or summary of the specified batch backed by the print preview facility.

The system can be installed on any PC with Windows'XP operating system.



## Batch Information

Date	02/11/2009
Batch No.	1
Shift No.	1
Time	8
Count	20
Empty Tube Id (MM)	55
Empty Tube Od (MM)	65
Empty Tube weight (GMS)	182
Std density (GPL)	300
Max density (GPL)	350
Min density (GPL)	250

## Summary Report

Maximum Weight (gms)	621
Minimum Weight (gms)	350
Average Weight (gms)	609
Maximum Density (GPL)	401.33
Minimum Density (GPL)	127.37
Average Density (GPL)	275.89
CV % of Density Variation	33.77
CV % of Weight Variation	43.58
No. of package (s) under MIN acceptable level	5, PER 15 33.33%
No. of package (s) under MAX acceptable level	4, PER 15 26.67%

## Detail Package Report

No	O.D.	Traverse	Volume	Weight	Density	Remark
1	133	168	1767	737	314.18	Pass
2	133	167	1757	737	315.89	Pass
3	133	167	1766	737	314.18	Pass
4	132	167	1742	821	366.84	Above
5	133	166	1744	820	365.78	Above
6	130	162	1592	821	401.28	Above
7	129	161	1590	820	401.33	Above
8	129	162	1588	737	349.47	Pass
9	120	137	1084	405	205.74	Below
10	120	140	1123	463	250.31	Pass
11	120	139	1110	379	177.47	Below
12	120	140	1123	474	259.97	Pass
13	120	140	1123	350	149.57	Below
14	133	168	1767	407	127.31	Below
15	133	168	1764	427	139.91	Below



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