

Drum Weigher & Mixing System

Drum Weigher & Mixing System for 600 Litre Drums WML/100/350-1310/M

Drum Weigher & Mixing System Description

This drum weighing and mixing system was designed for a pharmaceutical processing company. The drum weighing and mixing system was fitted with a manually operated hydraulic lifting arm to raise and lower the Ytron mixer into a drum with a Safe Working Load of 100 Kgs. The whole drum weighing and mixing system was mobile on castors and the base of the system incorporated a Stainless Steel Weighing Platform onto which empty drums were loaded for filling and mixing. The weighing facility was designed to accommodate a load of 1000kgs with a weighing accuracy of + 1.0kgs.

The whole drum weighing and mixing system was manufactured from Grade 304 Stainless Steel and was able to pass through an 800mm wide x 2650mm high doorway. The electrical control system incorporated an inverter to provide adjustment of the mixer speed, together with a safety system that would only permit the mixer to be operated if a drum was loaded to the machine and the lift was in its full down position. All of the electrical equipment was mounted in enclosures rated to IP65.



Drum Weigher & Mixing System for 600 Litre Drums

Call now on **01495 312 172**

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Drum Weigher & Mixing System Specification

DESCRIPTION	DRUM WEIGHER & MIXING SYSTEM
MODEL No.	WML/100/350-1310/M
MANUAL LIFT CAPACITY	100 Kgs
MIXER LOWERED HEIGHT	350mm
MIXER RAISED HEIGHT	1310mm
EXTENDED OVERALL HEIGHT	2510mm
RETRACTED OVERALL HEIGHT	1900mm
BASE ARRANGEMENT	MOBILE ON CASTORS

The following weigh system was incorporated within the base frame.

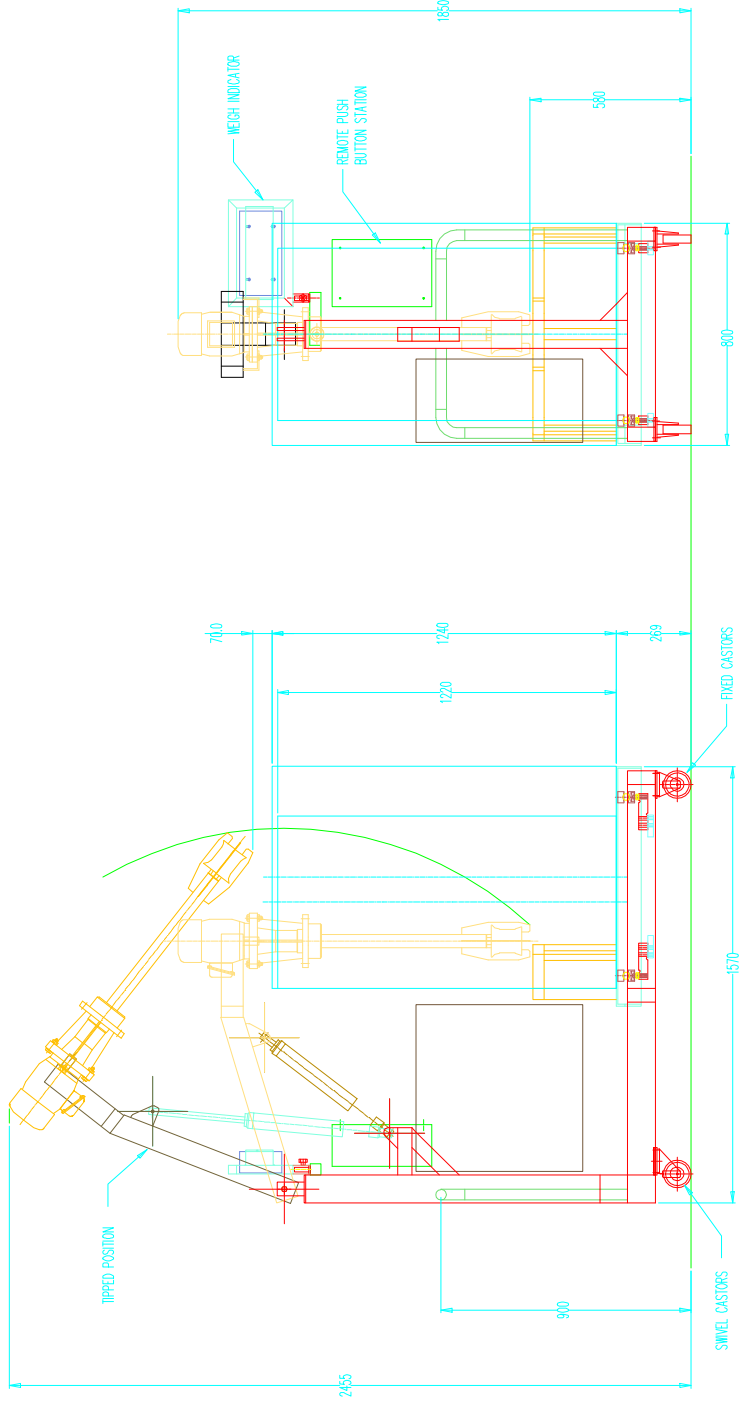
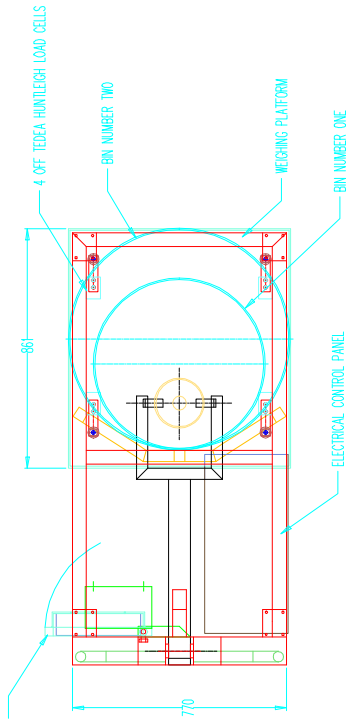
WEIGHING CAPACITY	1000Kgs
WEIGHING ACCURACY	0.5 Kgs
LOAD CELL	TEDIA 3510-C3-1000 Kgs
WEIGHING DISPLAY	IAN FELLOWS LUCID INDICATOR
ELECTRICAL RATING	IP65

Drum Weigher & Mixing System Application Story

The application for this drum weighing and mixing system was to mix various powders and/or liquids into a specified volume of water. The water was added to the drum first and because the drum was placed onto the weighing scale, the amount of water could be measured accurately. Various other items were also added using the weigh scale or where a particularly accurate requirement existed, the ingredient was weighed on a bench mounted scale and then added to the mix. The Ytron Mixer was then lowered into the mixture and mixing commenced until a thorough mix was achieved.

The fact that the weighing and mixing were incorporated into this one drum weighing and mixing system meant that the full drums which could weigh as much as 600 Kgs did not have to be moved from one position to another for the water and various other ingredients to be added. This drum weighing and mixing system also negated the requirement for a floor mounted scale with a pit and drainage in a clean room environment. Once the mix was complete the whole drum weighing and mixing system could be wheeled to a discharge position for the drum to be emptied by a pump.

WEIGH INDICATOR CAN BE SWIVELED BACK TO ALLOW MACHINE TO BE WHEELED THROUGH DOORWAY



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REVISION NUMBER
CUSTOMER

DRAWING TITLE

DRUM WEIGHER AND MIXING SYSTEM, MOBILE.

DRAWING NUMBER

BP3019-1

REMOVE ALL BURRS AND SHARP EDGES
TOLERANCES : UNLESS OTHERWISE STATED
FABRICATIONS : +/- 2.0mm
MACHINING : +/- 0.2mm
SHEET METAL WORK : +/- 1.0mm AND +/- 1.0 DEG

DRAWN JPW
CHECKED
DATE 24-08-05