

Subject: Shekel Mini Carousel

SYNOPSIS

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Product Overview

The Mini-Carousel can be configured as a single scale (bottom Carousel) or as a dual Scale.

As a dual scale design, the mini-carousel consists of the upper scale (Stationary) and bottom carousel scales. The top scale capacity is 75 pounds, and the bottom scale capacity is 150 pounds. However, the total top/bottom combined scale capacity of the mini-carousel is only 150 pounds. Any combinations of upper and lower scales cannot exceed 150 pounds without getting an over-capacity error.

The bottom carousel has 4 bag/scale locations. Although the total weight on the carousel cannot exceed 150 pounds, any individual scale cannot exceed 75 pounds. When possible, weight should be distributed evenly up to 40 pounds among all scales.

With the exception of the scale weighing components listed in the Shekel Released Products, the carousel parts are common with the previous Genesis Bag Scale/Carousel parts.

Reference Material

The following documents are located on the FTP site in the folder:

/pos/possustaining/Retail/U-ScanGenesis/MiniCarousel/

- Illustrated Parts Breakdown (IPB) documents MiniCarousel_IPB.zip
- D900000312 Genesis Mini Carousel Assembly Manual V01_MiniCarousel_Assembly.pdf
- D900000310 Genesis Site Preparation and Installation Manual V06_Genesis_SitePrep.pdf
- D900000311 Genesis Assembly Manual V06_Genesis_Assembly.pdf

The following documents are updated to include the Shekel Mini-Carousel and are located on the FTP site in the folder:

/pos/possustaining/Retail/U-ScanGenesis/Manuals/

- D900000432 (Shekel Controller)
- D900000452 (Shekel Production Test Procedure)
- D900000306 (Mini Carousel Specifications)
- D900000448 (Mini Carousel Assembly)

Dimensions and Weight Capacities

- Mini-Carousel overall dimensional: 37" x 37" x 52.80".
- Mini-Carousel with Primary and Secondary Scale, approx weight 150 lbs.

Power Ratings

The Shekel Mini-Carousel controller is rated as follows:

Standard 12VDC, .5A

Availability

The target release of the Shekel Mini Carousel is January 2012. Release will be through all current channels. The Shekel Mini Carousel is designed for the Tier 1 through Tier 4 retail marketplace. Its initial release is for the North American market. Other market geographies may follow with business justification.

Software

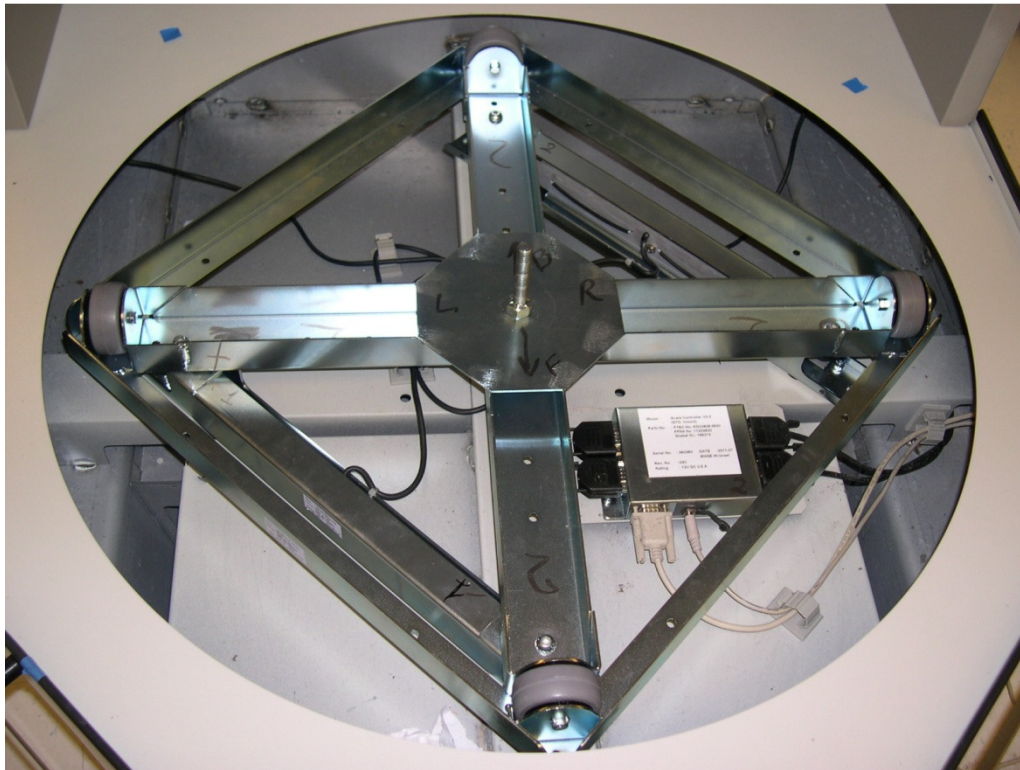
Other than the current application software, a Dorban utility for scale configuration and calibration will be required. This new utility is found on the desktop and not in the device tester.

Reliability/Environmental Specification

MTBF – Shekel Controller	Approx 50,000 Power on hours
- Component life	Approx 5 years
MTBF – 75lb & 150lb Scale Bars	166 million cycles of loading and unloading at 90% of max. capacity
Temperature	Operation 0°C ~ 40°C Non operation -25°C ~ 60°C Note: Definition of non-operation Equipment can be powered on with no damage. Performance is not guaranteed until returned to normal temperature.
Humidity	Operation 10% ~ 90% RH no condensation Non operation 10% ~ 95% RH no condensation

Cable Connections

There are four independent analog input ports (black connectors in picture below) for connecting load cell(s) configured as a Wheatstone bridge. Each input is terminated via a DB9 male connector. Cables connected to the load cells should be shielded as needed. The approved list of load cells can be found in the parts listing.





Shekel Controller

The controller V3.3 will operate only if all four input ports are connected to approved load cells. For configurations requiring less than four active load cells, an additional “dummy” load cell(s) as a fixed resistor packaged inside the DB9 connector was designed and documented by Shekel under P/N 11003924.

The dummy load cell (11003924) will be plugged into the controller DB9 input analog port not occupied by an active load cell to ensure all four input ports are connected to either active load cells or a dummy load.

There is a one year warranty from date of manufacturing. Defective units will be returned to the manufacturer for repair and/or replacement. Beyond the warranty, only the following items are spared:

Shekel Released Products

Part Number	Description	Comments
KD02909-3840	4-Port Controller, RS232, standard mount	Standard mounting to fit FFNA products
KD02909-3841	4-Port Controller, RS232, extended mount	Extended mounting to fit into FTEC products
11003918	Secondary Scale platter	
11003922	DEBB 188mm, includes cables	75lb scale bars (load cells)
11003923	DEBB 400mm, includes cables	150lb scale bars (load cells)
11003924	DB9 “Dummy” plug	
11003925	Frame, Mini Carousel Scale	
11004056	Kit, Mini Carousel Single Scale	Pre-calibrated by Shekel per Dorella procedure
11004057	Kit, Mini Carousel Dual Scale	Pre-calibrated by Shekel per Dorella procedure

Note: For a complete list of the Mini-Carousel parts see SPG 08-001 on the ftp site @/pos/possustaining/Retail/U-ScanGenesis/MiniCarousel