

Linear Scale

series

Net Weigh Filling Machines

Parsons-Eagle's Linear Weighers are designed to be simple, rugged, and reliable. Each machine combines state-of-the-art technology with user-friendly operation to provide superior performance with minimal maintenance.

This series of weighers encompasses two base models; one for product weightments of up to 2 lbs. per lane, and another for product weightments of up to 5 lbs. per lane. Either model can be configured from one to four lanes with a variety of options.

Principles of Operation

Product is fed to the infeed hopper either manually or automatically. A main vibrator feed tray draws product from the infeed hopper providing a uniform flow to the bulk/precision tray. The bulk/precision feed tray delivers product to the bucket at the bulk rate until a predetermined weight is reached. A bulk cut-off gate then stops the bulk flow and the vibrator reduces its rate to a precision flow. The precision flow then brings the weight in the weigh bucket to the final cut-off valve. The weight in the bucket is then verified to a specified minimum standard, and if needed, the precision flow is restarted to guarantee no underweights. Once the target weight is achieved, product is discharged from the weigh bucket.



LS42 Linear Scale with product



Parsons-EAGLE
PACKAGING SYSTEMS

A Division of Campbell Wrapper Corporation



*fresh
pasta*



*pet
food*



*frozen
products*

Linear Scale Net Weigh Filling Machines

The Linear Scale series of net weighers come in a variety of models with two weight ranges to meet your specific application requirements.

Parsons-Eagle's Linear Scales are highly versatile. Not only does the Linear Scale perform net weighing operations, but it can do weigh counting for any item that has a discrete count. The versatility allows a two-lane machine to perform net weighing on one lane and weigh count on the other lane and is ideal for blending product.

This versatile mode of operation is setup through a menu on the intuitive touchscreen operated by PLC.

Integration

The Linear Scale can be integrated with other equipment, such as Parsons-Eagle's Phaser XP Vertical Form Fill and Seal Machine, pre-made bag hangers or cup fillers. In manual mode, either a hand operated switch or a foot pedal can be used to actuate dumping upon proper weight level prior to vacuum sealing or batch conveying.

Some of the net weighing applications that have been run on the Linear Scales include:

- IQF Products
- Pasta
- Coffee
- Candy
- Confectionary
- Pet Foods
- Dairy
- Produce
- Nuts
- Snack Foods
- Pot Stickers
- Hardware
- Cookies
- Catnip



*Phaser XP
V/F/F/S Machine*



*high-moisture
cheese*



*soup
mix*



*Variety of discharge hoppers
available*



*Intuitive touchscreen with
PLC controls*

Parsons-Eagle also produces specialty net weighing equipment for the Blue Cheese and Feta Cheese markets. This equipment provides a custom crumble vibratory three-tier system.

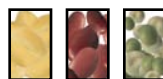
Parsons-Eagle allows you to choose the number of lanes you need to meet your specific application requirements.



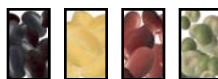
one-lane



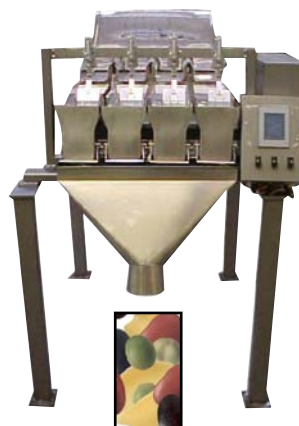
two-lane



three-lane



four-lane



Cut-off gates guarantee fill accuracy



*LS42 Linear Scale with
custom modifications*

Linear Scale Series Specifications

Specifications*

Weight Range:**	Up to either 2 lbs. or 5 lbs. (depending on model) per single discharge with multiple dump capability for larger weighments
Load Cell Resolution:	Up to 2 lbs. triple beam strain gauge load cell resolution to .01 oz. Up to 5 lbs. triple beam strain gauge load cell resolution to .005 lbs.
Maximum speed:	Up to 15 weighments per minute per lane (product dependent)
Bucket Volume: (working)	2 lb.: 175 cu. in. 5 lb.: 400 cu. in.
Power Requirements:	120V/1PH/60Hz @ 6 amps Control Voltage is 24 VDC
Air Requirements:	From 2 to 4 SCFM @ 80 PSI Depending on model
Control System:	Industrial PLC with touchscreen Operator Interface Terminal mounted in a NEMA 12 control enclosure (standard)

Standard Features

- All stainless steel
- One to four lanes
- Infeed hopper with level control
- Two-stage vibrator pan sensors with
bulk and fine feed control
- Bulk cut-off gates
- Sealed triple beam strain gauge load cells
- Pneumatically actuated weigh buckets
- PLC system controls with
operator-friendly touchscreen
- Transfer funnel with single discharge
point into pre-made bag, carton,
V/F/F/S machine, etc.
- Imperial and metric units of
measures and piece count
- Storage for up to 25 setups in memory
- Security access
- Automatic tare and check weigh with
refill (no underweights)

Options

- Adjustable infeed chute
- Support legs with leveling pads
or locking casters
- Dimpled product contact parts
- Sift proof discharge weigh hoppers
- Custom discharge hopper
- Remote Operator Interface
- Foot switch for operator control
of scale discharge
- IQF (washdown) version, NEMA 4X
- UL listed control panel (UL 508)
- Fragile handling options

* In its pursuit of continuous product improvement, Parsons-Eagle may change product specifications without advance notification.

** Specifications are dependent upon characteristics of customers' products. The machinery shown herein may have had guards removed for illustrative purposes.

Never operate this machinery without all guards in place and all safety features in original working condition. Always refer to the operators manual, or contact Parsons-Eagle for additional information.



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A Division of Campbell Wrapper Corporation

1415 Fortune Avenue, De Pere, WI 54115
Phone: (920) 983-7100, Fax: (920) 983-7300

2100 Dennison Street, Oakland, CA 94606
Phone: (510) 533-3000, Fax: (510) 534-3000

Web: www.parsons-eagle.com
E-mail: pesales@parsons-eagle.com