

Intralox S400 Singulator

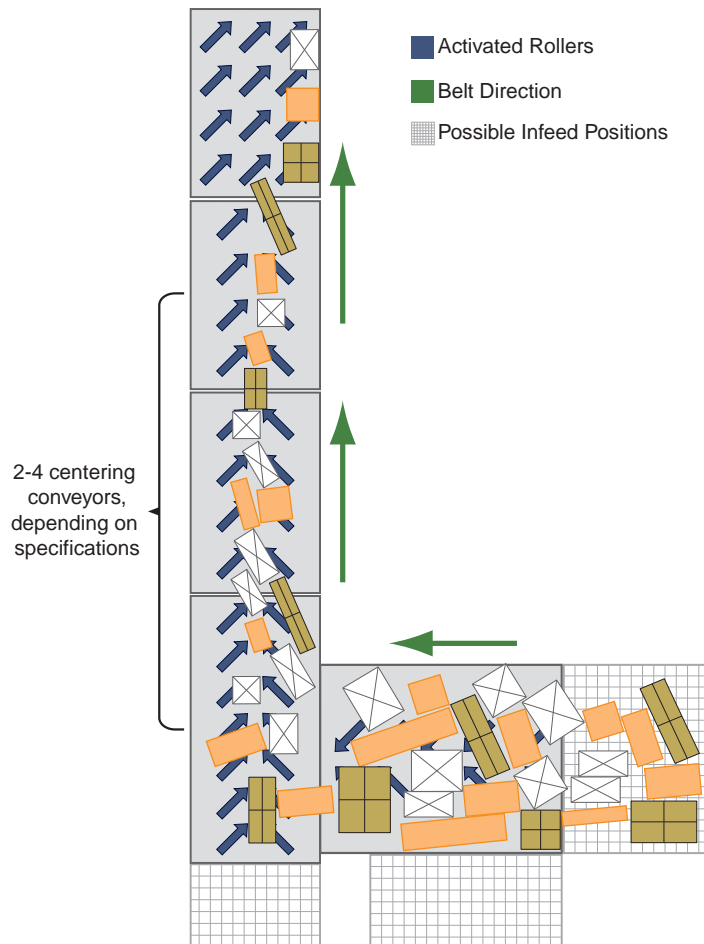
The Intralox S400 Singulator unscrambles and singulates the widest range of products available at a continuous throughput rate of up to 5,000 products per hour. Employing Intralox's award-winning Activated Roller Belt™ (ARB™) technology, it efficiently moves a stream of products into single file within a short footprint (18 ft.–36 ft. / 5.5 m–11 m) using no controls or human intervention.

Where it applies

Able to function at a continuous rate of up to 5,000 pph, the Intralox S400 Singulator is especially effective when installed prior to sorters, scanners, and labelers. It can singulate side-by-side cartons from accumulation areas, a bulk of products coming from a receiving area or side-by-sides from uncontrolled merges.

The Intralox S400 Singulator is particularly relevant when

- Floor space is limited
- There is a large range of products
- High accuracy rates are required
- Side-by-side products require dedicated labor to correct
- There is a high rate of mis-sorts or recirculation due to side-by-side products



Benefits

Handles a large product range

- As small as 4 in. x 4 in. (100 mm x 100 mm)
- No maximum size
- Corrugated, shrink-wrapped, litho-packs, flats, and more

Small footprint

Uses only 18 ft.–36 ft. (5.5 m–11 m) of floor space for continuous singulation up to 5,000 pph

High singulation performance

Singulation accuracy is typically around 99% depending on customer requirements and system configuration

Reduced parcel damage

- No guard rails or plows to trap parcels
- The complete singulation system is on one plane, so there is no product tumbling

Simple system with high reliability

- Continuously running conveyors, without frequent starts/stops
- No controls, guard rails or plows



System Design

The base singulation system is a series of ARB Centering Conveyors to rotate side-by-side packages, and to singulate at increasing speeds so that one package leads the other. Next, an alignment conveyor justifies the singulated packages against a rail to prevent the reoccurrence of side-by-sides downstream.

The number and length of conveyors, as well as their ARB roller patterns, are dependent on throughput, number of incoming side-by-sides, and product mix. There are multiple standard configurations possible (inline, L-shape, S-shape, or U-shape) to achieve throughputs of up to 5,000 products per hour. For throughputs exceeding 5,000 pph, please ask about our high-throughput singulator with recirculation.

STANDARD OPERATIONAL SPECIFICATIONS	
Product bottom surface	Product should have a flat, smooth bottom surface. Odd-shaped products should be tested first.
Product size	Minimum: 4 in. x 4 in. (100 mm x 100 mm) Maximum: No restrictions (designed according to customer specifications)
Throughput	Up to 5,000 products per hour
SYSTEM INFORMATION	
Layout & dimensions	<ul style="list-style-type: none"> • Length: 18 ft.–36 ft. (5.5 m–11 m), depending on number and configuration of conveyors • Width: Depends on the application and the product dimensions <ul style="list-style-type: none"> – For a typical bulk S400 Singulator with a maximum parcel size of 31 in. x 55 in. (800 mm x 1400 mm), the width is approximately 55 in. (1400 mm).
Construction & Components	<ul style="list-style-type: none"> • Frame – painted carbon steel or stainless steel. Color as specified by customer. • Conveyor belts – Intralox modular plastic belting and Activated Roller Belt™ technology. • SEW (or equivalent) motor. • Adjustable supports +/- 1.97 in. (50 mm)
Environment	Dry and clean environment. Temperature range, 32°F–122°F (0°C–50°C)
Equipment sold in Europe is built according to European directive 2006/42/EC for machinery.	

If you require a solution that is not covered by the options listed in this table, please contact us to discuss a customized solution.

For more details about the Intralox S400 Singulator, please call customer service or visit www.intralox.com. Our customer service teams are trained in your industry and speak your native language.

Additional country- and industry-specific free phone numbers available at intralox.com

INTRALOX, L.L.C. USA
New Orleans, LA
1-888-427-2358
+504-733-0463

INTRALOX, L.L.C. EUROPE
Amsterdam, The Netherlands
+800-5544-4455
+31-(0)20-540 36 00

INTRALOX SHANGHAI LTD.
Shanghai, China
Northern: 10800-711-0100
Southern: 10800-110-0100

INTRALOX, L.L.C. JAPAN
0120-779-040

INTRALOX LTD. (UK)
0800-894392

INTRALOX AUSTRALIA PTY. LTD.
1800-128742

INTRALOX BRASIL LTDA.
0800-771-4325