

## *The Fastest Baggage Sortation Device in the World*

*Two Models Give Added Flexibility in System Design and Throughput*



Airports around the world have been relying on **BAE Super-Pushers**® to sort and redirect baggage for nearly two decades. The 80 bag-per-minute **SP800**™ provides the highest throughput in the industry, while the **SP600**™ offers the same features and flexibility, but at a 60 bag-per-minute rate.

Both models employ the unique twin-paddle design that allows tighter bag spacing and greater efficiency than any other baggage sortation device available.

### **High-Speed Sortation**

Both the **SP800** and **SP600** utilize a patented\* 180-degree arm rotation and an instantaneous start/stop activation to apply the minimum force required for positive baggage transfer.

When a bag is identified for sorting, the integrated controller activates the clutch/brake and initiates a sort cycle. As the pusher arms extend, the cushioned paddle travels at the same real-time speed and direction as the conveyor belt, quickly shifting the bag laterally to the receiving belt.

This unique triangular path produces the lowest impact in the industry while maintaining the highest throughput rates required in baggage systems today.

For precise paddle positioning, **BAE Super-Pushers** are available with either cam-operated

limit switches or an electronic controller. The limit switches sense “pre-home” position for braking and home position for a complete stop. The electronic controller is used with higher cycle rates and utilizes a shaft-end encoder and proximity detector.

### **Flexibility**

One reason for the overwhelming success of the **BAE Super-Pusher** is its inherent flexibility. There is no single point of failure to disable an entire system; space requirements are minimal; and systems can be reconfigured as needs change.

When today’s requirements call for 60 bags per minute, systems can utilize the **SP600**, ensuring a migration path to the 80-bag-per-minute **SP800** in the future.

Additional sort piers, security devices, early bag storage, and transfer systems can be integrated into existing systems with minimal re-engineering and capital outlay.

With their speed, flexibility, and durability, it is no wonder there are more than 2,500 **BAE Super-Pushers** installed worldwide, keeping bags moving to the right place at the right time.

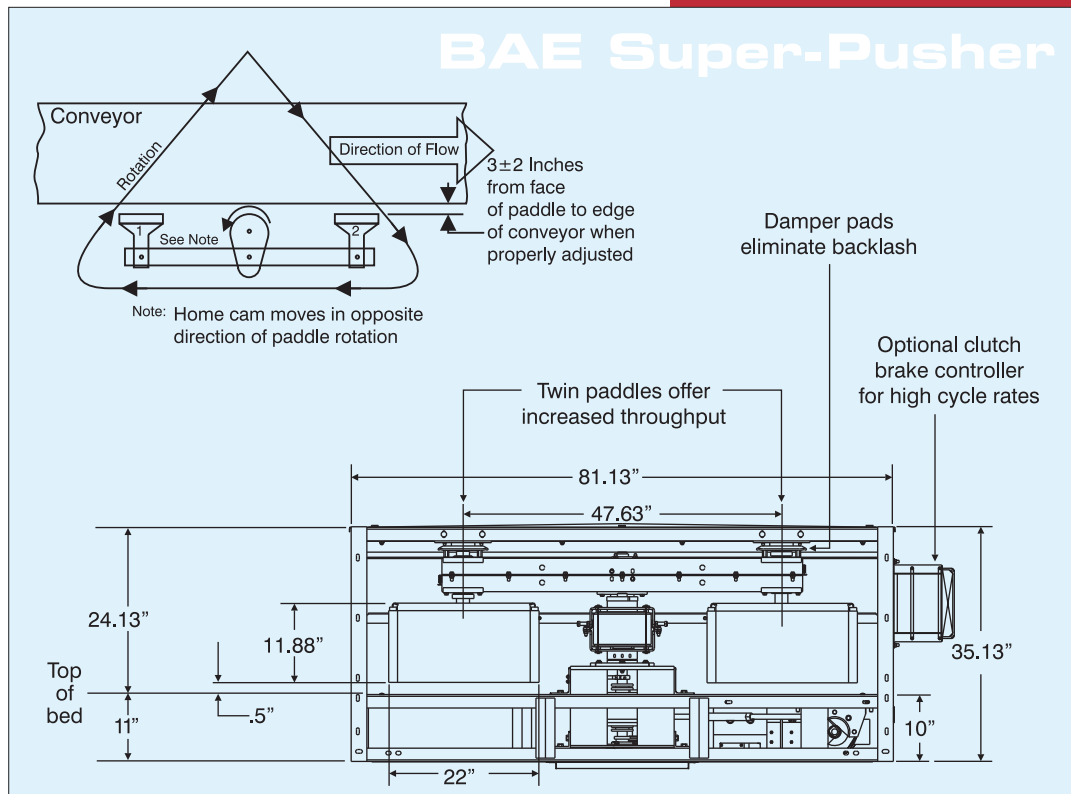
 **BAE**  
BAE Automated Systems, Inc.

# Super-Pusher Technical Summary

Available in both SAE and metric configurations, the Super-Pusher comes in two models: the **SP600**, an energy efficient version that sorts 60 bpm, and the **SP800**, a high-speed, high-throughput sorter at 80 bpm.

## Benefits

- Twin paddle design and 180-degree rotation offer increased throughput.
- Paddles travel at the same real-time speed as the conveyor for minimal impact and positive transfer.
- Limit switches, or an optional electronic controller, determines the exact positioning of paddles for greater sortation accuracy.
- Clutch/brake allows rapid start/stop, higher cycle rate, and greater throughput.
- Foam-padded paddles limit impact on baggage.
- Damper pads eliminate backlash for quieter operation.
- Heavy-duty helical reducer synchronizes motor speed to belt speed for efficient operation.
- Dual switch disconnects for added safety.
- Hot-rolled steel cabinet for durability. Powder-coated finish resists rust and corrosion and maintains its appearance longer.
- Run cycle switch for automatic or manual control.



- Built-in system redundancy reduces downtime.
- Structural tubing frame provides greater strength yet is lightweight.
- Components are easily accessible for routine maintenance and adjustment.
- Clockwise or counter-clockwise long-arm movement provides greater flexibility in installation.
- Optional encoder feedback for greater accuracy in paddle positioning.
- Interlock on access door provides greater safety.
- CE mark for European installations.

## Super-Pusher Features

<b>Width</b>	81.13 in.
<b>Depth</b>	29.25 in.
<b>Height</b>	35 in.
<b>Paddle Width</b>	22 in.
<b>Paddle Height</b>	12 in.
<b>Reach Over Belt</b>	37 in.
<b>Paddle Height Off Belt</b>	.5 in.
<b>Paddles</b>	Aluminum with 1 in. foam padding and rubber covering
<b>Damper Pads</b>	Urethane
<b>Sort Rate (SP800)</b>	80 bags per min.
<b>Sort Rate (SP600)</b>	60 bags per min.
<b>Drive Unit Motor</b>	2 hp, 240/480 v., 60 hz, 3 ph., TEFC
<b>Clutch/Brake</b>	Warner UM180
<b>Reducer (SP800)</b>	Dodge WSCXT, 15:1 ratio
<b>Reducer (SP600)</b>	Dodge WSCXT, 25:1 ratio
<b>Paddle Rotation</b>	Clockwise or Counter-clockwise
<b>End Panels</b>	Hot-rolled 10 ga. powder-coated steel
<b>Cover Panels</b>	Hot-rolled 16 ga. powder-coated steel
<b>Rear Cover</b>	Flexible polyester
<b>Sorting Capacity</b>	Up to 120 lb. bag
<b>Weight</b>	1000 lbs.
<b>Encoder (opt. on SP800)</b>	600 pulses per revolution

Other sizes and configurations are available on special request. Metric versions also available. Specifications for international installation may differ, and are adapted to local requirements. Contact your BAE representative for availability.



*in North America*  
2525 Carter Drive • Carrollton, Texas 75006 • USA  
VOICE (972) 245-9411 • FAX (972) 389-6490

*in Europe*  
3-5 Camgate Center • Stanwell, Middlesex TW19 7AX • UK  
VOICE +44 (0)1784 425205 • FAX +44 (0)1784 241740