

LSC-50/75/100

RACK TRANSPORTER SYSTEMS



The LSC-50/75/100 systems will keep pace with the fastest concrete products machines. The systems are fully automatic but can be controlled manually if desired. Programmable electronic controls and diagnostics maximize uptime and performance. Fully automatic kiln sequencing and mapping are also provided.

Quality is the hallmark of Besser machinery. Highly skilled professionals design, manufacture, assemble and test the equipment. All Besser equipment is manufactured with precision machinery, insuring consistent quality every time.

The speed of the LSC-50/75/100 systems can be easily adjusted when producing different types of concrete masonry units. System speeds can be programmed to move slowly while handling green concrete masonry units and sped up while transporting a return load of cured units. This makes it possible to reduce delivery speed while maintaining a high production rate.

Axle/Wheel Design

The car and crawler each feature a heavy-duty axle/wheel design for durability. A hydraulic flow divider ensures equal torque at each wheel.

These rack transporter systems utilize infinitely adjustable hydraulic proportional control. A manual back-up valve facilitates troubleshooting.

A radio frequency modem allows for crawler manual control, speed adjustments and diagnostics from the car panel.

The cable reel is spring-driven, making it virtually trouble-free when correct spring tension is maintained.

All hydraulic components utilize leak-free O-ring face seal technology.

Many of the operating functions of the LSC system can be easily adjusted by accessing the SLC 5/05™ through the 12" touchscreen color graphics display unit. This control panel provides: 1) diagnostics for the car and crawler which automatically pinpoint problems and display information for making corrections quickly, 2) a kiln map, showing what is in the kiln and the locations, and 3) push-button command of the sequencing, on/off, interlocking and status monitoring functions.



A maintenance free "festoon" system provides electrical power and control wiring to the LSC system and kiln door.

Cover photo: The LSC-50 replaces lift trucks and automatic kiln cars, while using existing racks, loaders/unloaders and kiln rails.

Specifications for LSC-50, 75 and 100

Capacity

- Up to eleven pallets high and six pallets deep

Payload

- 50,000 lbs (22,680 kg) for LSC-50
- 75,000 lbs (34,000 kg) for LSC-75
- 100,000 lbs (45,250 kg) for LSC-100

Pallet Size

LSC-50

- 26" (660 mm) wide
- 18-1/2" (470 mm) to 26" (660 mm) deep

LSC-75

- 37" (940 mm) to 39 3/8" (1000 mm) wide
- 18-1/2" (470 mm) to 26" (660 mm) deep

LSC-100

- 42" (1067 mm) to 55" (1397 mm) wide
- 18-1/2" (470 mm) to 26" (660 mm) deep

Dimensions

LSC-50

- Width: 11' 4-3/4" (3474 mm)
- Length: 12' 11-1/2" (3950 mm)

LSC-75

- Width: 14' 8" (4470 mm)
- Length: 14' 2" (4318 mm)

LSC-100

- Width: 18' 8-1/2" (5702 mm)
- Length: 12' -1/4" (3663 mm)

Weight

LSC-50

- Crawler: 3500 lbs (1588 kg)
- Transfer Car: 5200 lbs (2359 kg)
- Rackveyor: 8100 lbs (3700 kg)

LSC-75

- Crawler: 8000 lbs (3629 kg)
- Transfer Car: 9500 lbs (4309 kg)
- Rackveyor: 14,200 lbs (2359 kg)

LSC-100

- Crawler: 10,650 lbs (4793 kg)
- Transfer Car: 12,200 lbs (5490 kg)
- Rackveyor: 15,860 lbs (7209 kg)

Total Motor Capacity

- 10 hp (7.5 kW): Transfer Car, Crawler and Rackveyor for LSC-50
- 15 hp (11.1 kW): Transfer Car, Crawler and Rackveyor for LSC-75
- 20 hp (14.9 kW): Transfer Car, Crawler and Rackveyor for LSC-100

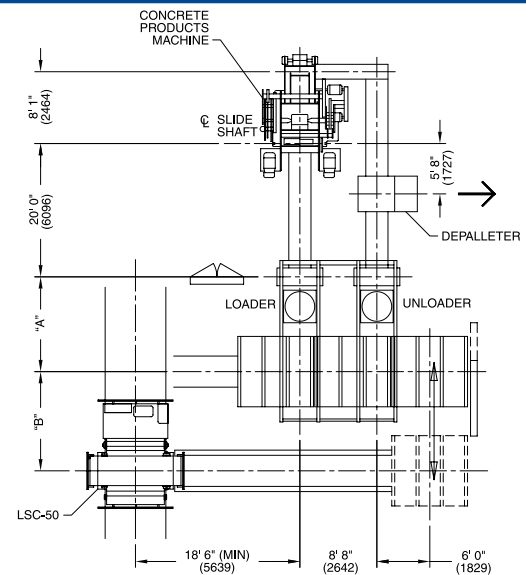
Speed Parameters

- Transfer Car and Crawler: Variable up to 90 FPM
- Hydraulic proportional control with accel/decel ramps

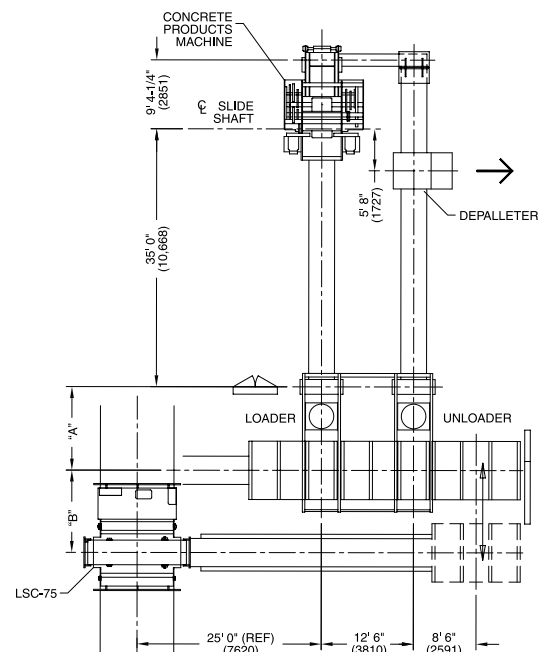
Voltages

- Control Circuit: 120 V.
- Sensors: 24 V DC
- Motors: 230*/460 V., 3 phase, 60 Hertz (other voltages available)
- *230 VAC requires a transformer

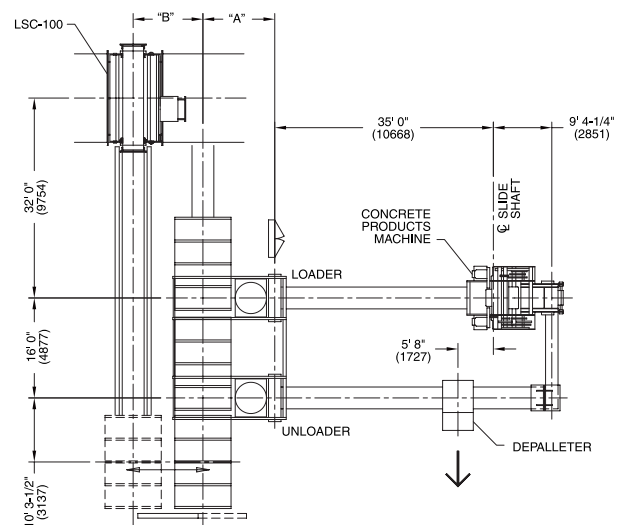
LSC-50/75/100		
Rack Size	Dimension "A"	Dimension "B"
4 Deep	11' 4" (3454 mm)	11' 2" (3404 mm)
5 Deep	11' 4" (3454 mm)	11' 2" (3404 mm)
6 Deep	12' 9" (3886 mm)	11' 2" (3404 mm)



LSC-50 with Side Shifter



LSC-75 with Side Shifter



LSC-100 with Side Shifter

Optional Enhancements

Automatic Kiln Door

The kiln door is constructed with lightweight aluminum. The drive mechanism features a positive rack and pinion controlled by an Allen-Bradley PowerFlex frequency drive, which provides smooth operation. The drive is located at floor level outside the curing chamber for easy maintenance. Interface to the car control system eliminates the need for an expensive control panel. Two limit switches are located at each end: one for deceleration and one for stopping.

Hydraulic Oil Cooler

For geographic regions with high ambient temperatures an oil cooler is available to improve system performance.



Automatic Kiln Door

Designed for Safety

Each LSC-50/75/100 system is outfitted with warning and protective devices. Pictorial warning decals on the equipment identify potential hazards. An automated beacon and horn indicate movement of the car and/or crawler. Kickbars located at each end of the car and crawler will shut down the system when tripped. A remote radio transmitter can also stop the unit at any location.

The LSC-100 (left) has a payload capacity of 100,000 lbs (45,250 kg) and the LSC-75 (below) has a payload capacity of 75,000 lbs (34,000 kg).



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