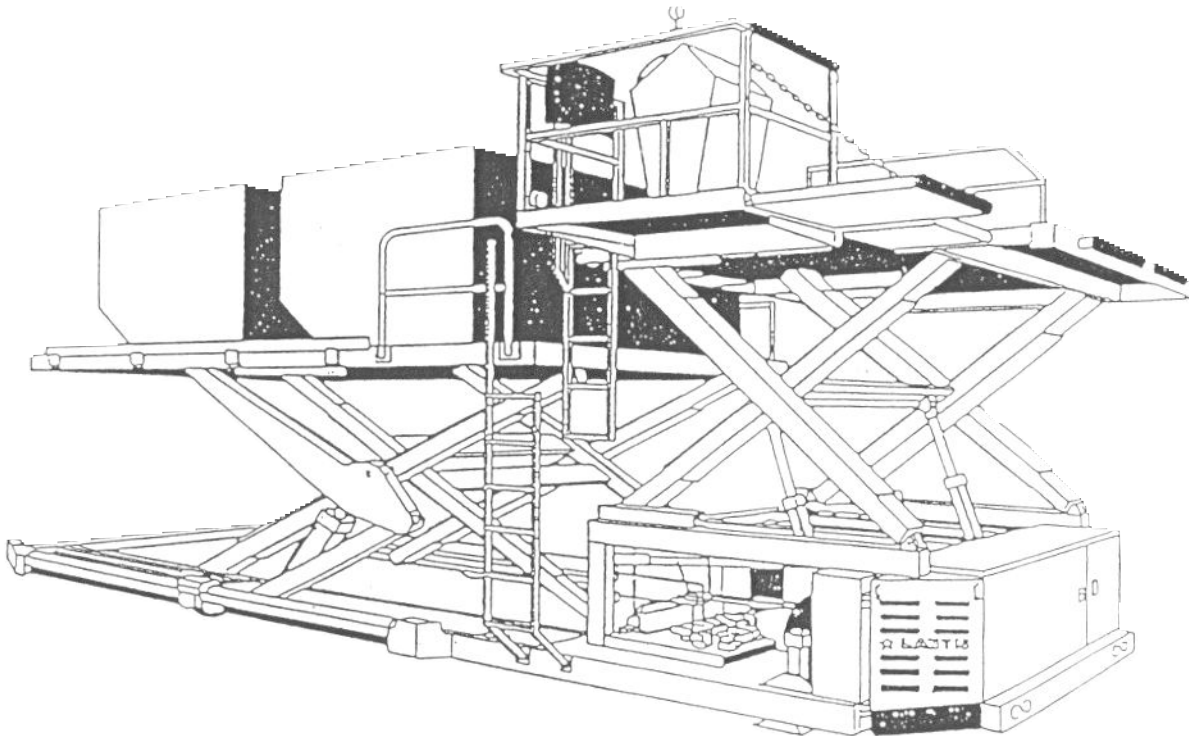




Lantis Corporation

818 Container/Pallet Loader

Detailed Specifications





MODEL TLC 818-144 CONTAINER PALLET LOADER

The TLC 818 is a dual platform, self-propelled, gasoline or diesel powered lift incorporating a powered pallet drive to receive unit load devices from trailers, and will service the following aircraft:

Services:

<u>Model</u>	<u>Versions</u>
DC-8	All, main deck only
DC-9	All, main deck only
707	All, main deck only
727	All, main deck only
737	All, main deck only
747	All, lower lobe only **
757	All, lower lobe only
767	All, lower lobe only **
DC-10	All, lower lobe only *
L-1011	All (including "500") *
A-300	All, lower lobe only †
A-310	All, lower lobe only †

* Main deck also with 118" option
** 125" wide option is available for main deck

Standard Features for the Model 818-144

Gasoline Engine
15,000 pound capacity on either elevator or bridge platform
Hydrostatic drive
Powered rear loading elevator
Pallet handling capability
Hydraulically actuated rear pallet stop on elevator
Hydraulically adjustable elevator transfer height-18" to 22"
Removable container guides on bridge, 60" to 90"
Wall to wall turning radius-25'; SAE turning radius-18'
Bridge tilt
Flat top chain container/pallet drive system
Joystick operation
Keyless ignition
Protector seal fuel cap



Standard Features for the Model 818-144 (continued)

Automatic engine shutdown system
Independent staging of containers
Powered retractable guides on elevator, 98"
Swing out engine package
Hydraulic system diagnostic system
Polyurethane paint
"D" ring front towing
Sealed proximity switches
Emergency shut down system (low water/high water temp/low oil)
Ground level emergency shut down system
Electronic joystick control system
Hydraulic service diagram placard
Heavy duty batteries
Engine hourmeter
Backup lights
Turn indicators
Headlights
Dual flood lights
Permanently attached safety supports
144" maximum lift height
Return side hydraulic filter
Nylon wheel, sealed bearing casters
Powered side loading elevator--both sides
Powered elevator guides at 62"
Powered bridge lateral guides, 62"
Powered container rotation
Dual hydraulic filters, high pressure side (Fairy)

3.0 REQUIREMENTS

3.1 General Requirements

3.1.1 General

The unit is a two-platform, self-propelled, gasoline, diesel or powered lift incorporating a powered pallet drive to receive unit load devices from trailers at a nominal 20 inch height on either wide or from the end, lift them to aircraft door or from the end, lift them to aircraft door sill level and discharge them into the aircraft. The reverse of this process is provided. The forward platform will provide a constant interface at the aircraft door. Aircraft serviced will include but not be limited to the following: L-1011, DC-10, B747/747SP, A300/A310/A320, B757, B767, and DC-8F.

3.1.2 Reliability

The unit is designed and constructed to operate satisfactorily between preventive maintenance period of 16 weeks or 300 operating hours, whichever ever occurs first.

3.1.3 Service Life

The minimum service life of the unit is ten (10) years assuming the unit is properly maintained and operated.

3.1.4 Environmental

3.1.4.1 The entire unit performance will not be adversely affected by wind, sand, grit, salt air, precipitation, ice, deicing fluids, or other normally encountered airport environmental conditions. The unit shall operate satisfactorily under temperature conditions ranging from -20 degrees F to +125 degrees F.

3.1.4.2 The unit is capable of withstanding storage temperatures ranging from -40 degrees F to +140 degrees F without damage or deterioration.

3.1.4.3 The unit is capable of satisfactory airport operation in three inches of snow.

3.1.4.4 The unit will operate satisfactorily on any slope up to a 5% grade from horizontal in any direction.

3.1.5 Safety

- 3.1.5.1 The Lantis Corporation ensures that the equipment contains all the safety features required to protect the equipment, the operator(s), the load and the aircraft serviced, in accordance with all generally accepted good design practices and applicable documents listed in paragraph 2.0, above.

3.2 Dimensions and Capacity

3.2.1 General Data:

Wheel Base	187"	Track Width	77"
Length	361"	Overall Height	94"
Elevator Platform	20" to 144"		
Bridge Platform	70" to 144"		

* See Options Para 5.0

- 3.2.2 The loader will lift, convey, and rotate on the elevator any of the following load devices or pairs as shown:

Unit Load Device	Qty	Base Size	Max Loaded Wt
Container/LD-3	1	60.4"x62"	3,500#
Paired LD-3's	2	60.4"x124"	7,000#
Container/LD-4	1	60.4"x96"	5,400#
Igloo/LD-5	1	60.4"x125"	7,000#
Igloo/Pallet	1	88"x125"	13,300#
(LD-7/LD-9)			
Igloo	1	60.4"x125"	7,000#
Pallet	1	88"x125"	15,000#

- 3.2.3 The basic shipping width is 96 inches maximum.

- 3.2.4 The basic shipping length for the 818-144 is 361". The shipping height is 102 inches.

- 3.2.5 Ground clearance is 4.25" measured at the lift mechanism arms to ground.

3.3 Main Lift (Elevator) Platform

A main lift (elevator) platform is provided aft of and interfacing with the forward (bridge) platform. It will incorporate features and meet requirements as follows:

3.3.1 Capacity

Live-load capacity of 15,000 pounds. This load is assumed to be evenly distributed on an 88 inch x 125 inch pallet.

3.3.2 Lift Range

The elevator will receive and/or discharge loads at transfer heights ranging from 20" (nominal), (elevator is hydraulically adjustable from 18" to 22") at the low position to 144" at the high position with the unit fully stabilized.

3.3.3 Operation

3.3.3.1 On the up cycle, the elevator automatically decelerates and automatically stops at, and aligns with, the bridge.

3.3.3.2 On the down cycle, the elevator will automatically decelerate on approaching the 20" (nominal) level as appropriate to avoid shock to both payload and lift mechanism and will automatically stop at the proportional 20" (nominal) level.

3.3.4 Lift Speed

3.3.4.1 Elevator lift speed at no load and at loads up to and including 10,000 pounds, is 40 feet per minute.

3.3.4.2 Elevator lift speed at 15,000 pound loads is 30 feet per minute.

3.3.4.3 Lower speeds are within +/- 15% of lift speeds.

* See Option, Para 5.0

3.3.5 Elevator Dimensions and Configuration

3.3.5.1 The elevator basic frame width is a maximum of 120" to correspond to the recommended vehicle chassis width.

3.3.5.2 A pallet conveying system per Para 3.3.6 netting a nominal 100" wide between pallet side guides is centered on the elevator and bridge platform. The guides are hydraulically operated and are not capable of being lowered once the elevator is raised above its resting position of 20" above ground level. Container rotation is done at ground level for safety reasons. Truck bed loading is normally done at the rear of the unit.



Prices include units finish painted with polyurethane paint in a SINGLE COLOR as specified by the customer.

FIELD COMMISSIONING AND ON-SITE TRAINING - Available for \$904 plus airfare anywhere in the world. This includes set-up, initial lubrication and pressure settings, 4 hours of maintenance training and 4 hours of operator's training.

Manuals - One manual containing operating instructions, maintenance procedures and spare parts list constructed to The Lantis Corporation's interpretation of the intent of ATA Spec 101 is furnished free of charge with each unit. Additional copies of the manual can be supplied at a cost of \$125 each.

All prices will be FOB SALINAS, CALIFORNIA, plus applicable sales tax. All prices are effective for thirty (30) days from date of quotation, unless otherwise stated in offer letter.

The Lantis Corporation's standard terms and conditions, which will apply to this quotation, can be found on the reverse side of the first page of this letter, except for warranty, which is extended to one (1) year.
