

# Loading Dock Equipment

s p e c i f i c a t i o n s

# BLUE GIANT®

## 'XDS' SERIES DOCK SAFETY PACKAGE

### MODEL 'XDS3000' - HYDRAULIC

#### SPECIFICATIONS:

Dock Leveler, Safety Barrier and Vehicle Restraint shall be hydraulic **Model XDS3000** and come complete with hydraulic lip and deck cylinders and 4" (102mm) assured motion float (maintained deck tilt) on dock leveler, 7.5" (191mm) high hydraulic roll-off guard/barrier, TL85 or TL85A vehicle restraint, interior/exterior communications light package and driver warning signs as manufactured by BLUE GIANT.

MODEL	DECK WIDTH		DECK LENGTH w/ LIP		PIT DEPTH			
					Front 20" / 508mm and Rear 19 1/2" / 495mm			
	inches	mm	inches	mm	PIT WIDTH		PIT LENGTH	
				inches	mm	inches	mm	
XDS3066	72"	1829	75 1/2"	1918	74"	1878	61 1/4"	1556
XDS3068	72"	1829	99 1/2"	2527	74"	1878	85 1/4"	2165
XDS30610	72"	1829	123 1/2"	3137	74"	1878	109 1/4"	2775
XDS30612	72"	1829	147 1/2"	3747	74"	1878	133 1/4"	3385
XDS30666	78"	1981	75 1/2"	1918	80"	2032	61 1/4"	1556
XDS30668	78"	1981	99 1/2"	2527	80"	2032	85 1/4"	2165
XDS306610	78"	1981	123 1/2"	3137	80"	2032	109 1/4"	2775
XDS306612	78"	1981	147 1/2"	3747	80"	2032	133 1/4"	3385
XDS3076	83"	2108	75 1/2"	1918	85"	2159	61 1/4"	1556
XDS3078	83"	2108	99 1/2"	2527	85"	2159	85 1/4"	2165
XDS30710	83"	2108	123 1/2"	3137	85"	2159	109 1/4"	2775
XDS30712	83"	2108	147 1/2"	3747	85"	2159	133 1/4"	3385
<b>Capacities available:</b> 30,000 / 35,000 / 40,000 / 45,000 / 50,000 / 60,000 / 80,000 lbs 13,636 / 15,909 / 18,181 / 20,454 / 22,727 / 27,272 / 36,363 kgs								

#### TYPE:

**Dock Leveler:** Recessed, pit installed hinged dock leveler comes with automatically operated roll off guard/barrier. Electro-hydraulic operated with independent control of deck and lip.

**Door and Dock Guard:** Electro-hydraulic operated solid steel barrier incorporated into the deck. Designed to protect forklifts from accidental roll-off when the overhead door is open, and protects overhead door panels and tracks from impact damage when the door is closed. Overall dimension is 7.5" (191mm) high x full width of deck less 6" (152mm) per side x minimum 3/8" (10mm) thick high tensile steel checker plate.

**TL85 / TL85A Vehicle Restraint:** Electro-hydraulic operated non-impact design. Wall mounted. Overall body dimension 13"W x 27"L x 11"H (330 x 686 x 279mm) plus back mounting plate.

#### OPERATION:

**Dock Leveler:** Hydraulic Operating System. Easy to operate, quiet and smooth cycling. Electro-hydraulic raising and hydraulic lowering of the dock leveler controlled from a remote multi touch-button station. Includes means of lowering the dock leveler below platform level with lip retracted behind dock bumpers. The loaded ramp's free fall is limited to not over 3" (76mm) by a hydraulic velocity fuse. Unit shall come complete with a 1HP motor. Power pack mounted underneath the deck.

**Door and Dock Guard:** Hydraulic Operating System. Easy to operate, quiet, smooth and automatic cycling. Door and Dock Guard is kept in the upright position by upward biased spring tension and is retracted with power down hydraulics. Upon cycling of the dock leveler, the guard automatically retracts and lies flush with the deck, providing unobstructed flow of traffic. When the dock is cycled and returned to the stored position, the guard automatically returns to the upright position. Supervisor override keypad with indicator light is provided on the control station for end-loading and ground level hand bombing requirements.

**TL85 / TL85A Vehicle Restraint:** Operating system is 1/2 HP motor in remote location on 24' (7315mm) hydraulic hose, controlled from a NEMA4X rated remote touch-button control station.

**Control Station:** The Blue Genius™ Gold Series III is a multiple touch button control station with constant pressure "DECK", "LIP", "ENGAGE" and "RELEASE" touch buttons. It has a NEMA4X/IP65 (wet and corrosion resistant) rated polycarbonate enclosure. Overall dimensions 11 1/4"L x 7 1/2"W x 5 1/2"D (286 x 191 x 140mm) with programmable multi-instructional languages.

**Lights Communication System:** The lights communication system consists of LED red/yellow/green lights mounted on the control station and a set of exterior red/green traffic lights mounted on exterior wall, on the driver's side of the dock entrance. The lighting system alerts both dock attendant and vehicle driver to the status of the restraint. If vehicle has no restraining rear impact guard, the interior communication lights will flash yellow, warning the dock attendant that the vehicle is not secured. Interior override indicator light for door and dock guard to signal guard is temporarily down during unique loading/offloading applications.

#### DOCK LEVELER FUNCTION:

**Vertical Travel:** Working range of 12" (305mm) above and 12" (305mm) below dock level.

**Automatic Vertical Compensation:** Unit provides float of 12" (305mm) above and 12" (305mm) below dock level.

**Automatic Lateral Compensation:** Provides 4" (102mm) assured motion float to compensate for canted vehicle beds.

**Lip Operation:** Hydraulically powered lip, controlled independently of main deck cylinder. Lip will yield under impact of incoming vehicle and will automatically drop pendant upon vehicle's departure. The length of the lip extension shall not be less than 16" (406mm) from the ramp edge.

**Stop Button Function:** For added safety, the control station has a 'STOP' touch button that will cause the deck and lip to stop in mid-travel when touched. The 'ESC' touch button activates the release function.

#### VEHICLE RESTRAINT FUNCTION:

**Vertical Restraining Range:** From 12" to 29" (305 to 737mm) above grade.

**Horizontal Restraining Range:** From 0" to 12" (0 to 305mm) beyond the face of the dock.

**Mounting System:** Dock face mounting using 6 wedge anchor bolts 5/8" dia. x 6" long (16 x 152mm). Transfer of pulling force to driveway improves restraining strength by equalizing forces on anchors. Trailer rear impact guard during backing in does not impact restraint's body.

## **RATED CAPACITIES / DESIGN:**

Welding procedure compliant with ANSI AWS D1.1 (2008) specifications. All units rated in compliance with ANSI MH30.1 (2007). ANSI/NFPA70 approved electrical components. Dock Leveler capacities available from 30,000lb to 80,000lb (13,636kg to 36,363kg). Structural deck support to include minimum six each high-tensile solid steel I-beam members. Restraint rated at 35,000 lb (15,909kg) pull-out force and 100,000lb (45,454kg) mounting force. The Door and Dock Guard is rated to stop 10,000lb (4,545kg) rolling loads at 4 MPH (6 KMH).

## **VOLTAGE SELECTIONS:**

- 115V / 1PH Range: 110-130 / 50-60Hz
- 230V / 1PH Range: 208-240 / 50-60Hz
- 230V / 3PH Range: 208-240 / 50-60Hz
- 460V / 3PH Range: 380-480 / 50-60Hz
- 575V / 3PH Range: 575-600/ 60Hz

## **SAFETY DEVICES:**

- Supervisor keypad override
- Dock leveler and restraint interlocks to prevent cycle of dock until restraint engaged and to prevent release of dock until restraint returned to stored position
- Full operating range metal toe guard protection painted in high visibility colours.
- Hydraulic velocity fuse "fall safe" to limit free fall up to 3" (76mm)
- Cross traffic support - lip engaged in saddles
- Corner safety stops
- Telescopic v-grooved maintenance strut, integral to unit
- Beveled lip
- Blue Genius™ advanced communication package (includes LED interior red/yellow/green and exterior red/green traffic lights and driver warning signs)
- Door interlock terminals, 24VDC provided

## **FINISH AND COLOR:**

**Dock Leveler:** Toe guards painted safety yellow as specified by ANSI Z535.1. Remainder of unit painted blue. High visibility OSHA safety striping on stationary side toe guards. **Door & Dock Guard:** Painted high visibility safety yellow. **Vehicle Restraint:** Welded structural steel housing. Restraint arm is constructed of 1½" (38mm) thick solid steel. The housing protects all components from damage from weather, dirt and debris. Remote power pack location and cylinder vented to power pack reservoir protects from water damage. To resist corrosion and reduce maintenance, housing is zinc plated, main hinge pin is made of stainless steel and cylinder rod has nitride coating. **LED Traffic Lights:** The housing shall be one-piece, weatherproof constructed and made of ultra high molecular weight plastic. The lights shall be 4" (102mm) diameter and red and green in colour. Overall body 5"W x 11½"L x ½"D (127 x 292 x 13mm).

## **WARRANTY:**

Warranties are subject to standard limitations on liability. Please consult Blue Giant warranties at <http://www.BlueGiant.com> for full details on warranty information and product registration.

## **STANDARD ACCESSORIES:**

- Night Locks
- Two model DB411 laminated bumpers 14"W x 10"H x 4.5"D (356 x 254 x 114mm)
- Keypad override
- Wall bracket for restraint power pack and 24' (7315mm) hydraulic hose
- Manual override (to lower the restraining arm in event of power failure)
- Six mounting bolts for vehicle restraint
- Communications package; lights and signs

## **OPTIONAL ACCESSORIES:**

- Foam insulation underside of deck - dock
- Side and rear rubber style weather seals – dock
- Side and rear nylon brush style weather seals – dock
- 18" (457mm) long lip
- 20" (508mm) long lip
- 24" (610mm) long lip
- Remote mounted power pack on 24' (7315mm) hydraulic hose - dock
- Pour-in pan (dock leveler welded to a steel pan, allowing it to be "poured in place" after concrete slab is poured)
- Clean pit frame - dock
- Extension plates to suit extended dock leveler pits - restraint
- Overhead door interlock photo sensor (24 VDC)
- Standard oil (temperature range of -41 to 200°C / -42°F to 392 °F)
- Arctic oil (temperature range of -57 to 150°C / 71 to 302 °F)-recommended for temperatures below minus 7°C / 18°F
- Biodegradable oil (temperature range of -36 to 230°C / 33 to 446 °F)in lieu of standard hydraulic oil –environmentally friendly