

# Loading Dock Equipment

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

# BLUE GIANT®

## VEHICLE RESTRAINT

### MODEL 'TL85' - HYDRAULIC

#### SPECIFICATIONS:

Vehicle restraint shall be **Model TL85** as manufactured by BLUE GIANT and come complete with interior/exterior communications light package and driver warning signs.

#### TYPE:

Electro-hydraulic operated non-impact design. Wall or ground mounted. Overall body dimension 13"W x 28"L x 11 ¾"H (330 x 711 x 298mm) plus back mounting plate.

#### FUNCTION:

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

**Horizontal Restraining Range:** From 0" to 12" (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 (ICC bar) during backing in does not impact restraint's body.

#### OPERATION:

**Operating System:** 1/2 HP motor in remote location on 24' (7315mm) hydraulic hose. 24V control, NEMA4X/IP65 (Wet and corrosion resistant) rated control station with touch buttons for engage or disengage or reset of restraint. Onboard diagnostics and communications feature a user-friendly, multi-language LCD intelligent display and keypad with supervisory override features. Stop button provides complete motion freeze of restraint and interlocked components.

**Control Station:** The Blue Genius™ II is a multiple touch button control station with constant pressure "ENGAGE", and "RELEASE" buttons. NEMA4X/IP65 (wet and corrosion resistant) rated polycarbonate enclosure. Overall dimensions 11¼"L x 7½"W x 5½"D (287 x 190 x 140mm) with programmable multi-instructional languages.

**Lights Communication System:** Interior red, yellow, and green indicator lights mounted on the control station. Exterior LED red and green high visibility traffic style lights and direct mirror image driver's warning signs. The lighting system alerts both dock attendant and truck driver to the status of the restraint. If vehicle has no restraining ICC bar, the control station light will flash yellow and the LCD message screen will advise dock attendant that the vehicle is not secured and wheel chocks are required.

#### RATED CAPACITY / DESIGN:

Welding procedure compliant with ANSI AWS D1.1 (2008) specifications. Unit provides restraining strength 35,000lb (15,909kg) and mounting force of 100,000lb (45,454kg).

#### 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

#### CONSTRUCTION AND FINISH:

**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. NEMA4 weather rated wand sensors, remote power pack location and cylinder vented to power pack reservoir protects from water damage. To resist corrosion and reduce maintenance, the unit is zinc plated, main hinge pin is made of stainless steel and cylinder rod has nitride coating.

**Exterior LED Traffic Lights:** Housing shall be one-piece, weatherproof constructed and made of ultra high molecular weight plastic. The lights shall be 4" (102mm) diameter of red and green color. Overall body 5"W x 11½"L x ½"D (127 x 292 x 13mm) in size.

#### 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:

- Six mounting bolts
- Wall bracket for power pack and 20' (6096mm) hydraulic hose
- Manual override (to lower the restraining arm in the event of a power failure)
- Blue Genius™ advanced communication package (includes LED interior red/yellow/green and exterior red/green traffic lights and driver warning signs)
- Interlock control station with interlock sensor to advise when dock is parked
- Fifty (50) degree actuated arm lock, which increases service range
- STOP button that permits the operator to halt the restraint in mid-travel should an unsafe condition arise

#### OPTIONAL ACCESSORIES:

- Audible alarm helps warn the dock attendant when the trailers rear impact guard does not engage the restraint.
- Extension plates to suit extended dock leveler pits and edge of dock levelers
- Pit-mounted hydraulic power pack with 14' (4267mm) of hydraulic hose
- Base mount holes
- 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
- Blue Genius™ Gold Series III Control Panel to interlock dock leveler and restraint functions.
- Overhead door interlock photo sensor (24VDC). For dock-restraint combos.