BraunAbility

Application Guide

Millennium Series™ Lifts

NL

8-24-26



BUILT to TRUST

Millennium Series™ Features

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- **New, refreshed design**
- **Auto-Tite feature to prevent pressure loss and rattling during periods of inactivity**
- Fully automatic FMVSS 403 compliant lift, operated by an attendant
- Accommodates inboard and outboard facing wheelchair and ambulatory passengers
- Interfaces with OEM and aftermarket interlocks
- Lift integrated FMVSS 404 lighting - platform illuminated at and below floor level
- Locking mechanical Inboard Barrier (IB), powder coated yellow for safety and high visibility, prevents movement if occupied
- Pump design prevents platform folding when occupied, quiet operation and low current draw
- Durable baseplate reduces lift weight and allows for quicker and easier service of hose/wiring
- Easily installed, step-by-step installation instructions
- Visual and audible warning provides notification of unsafe conditions
- Hydraulic outer barrier that will be in the fully up position before the platform leaves the ground, has durable rubber nose guard and is powder coated yellow for safety and high visibility
- Parallel arms lift with hydraulic cylinders
- Side or rear door application
- Several platform widths and lengths
- Dual handrails for security and convenience
- Bridging feature permits the wheelchair user to board the lift from sidewalks or inclines
- Maximum floor to ground travel is 48”
- Lifting capacity is 800 lbs
- Integrated back-up pump
- Equipped with an adjustable anti-rattle feature to avoid unpleasant noise in the vehicle during transit
- Durable high-gloss powder coated finish
- Lift-Tite system stows the lift platform securely while the vehicle is in transit
- Pump module with removable cover offers easy access to all components



Updated ergonomic hand control with illuminated functions and magnetic storage



Operator assist LEDs to help diagnose interrupted operation



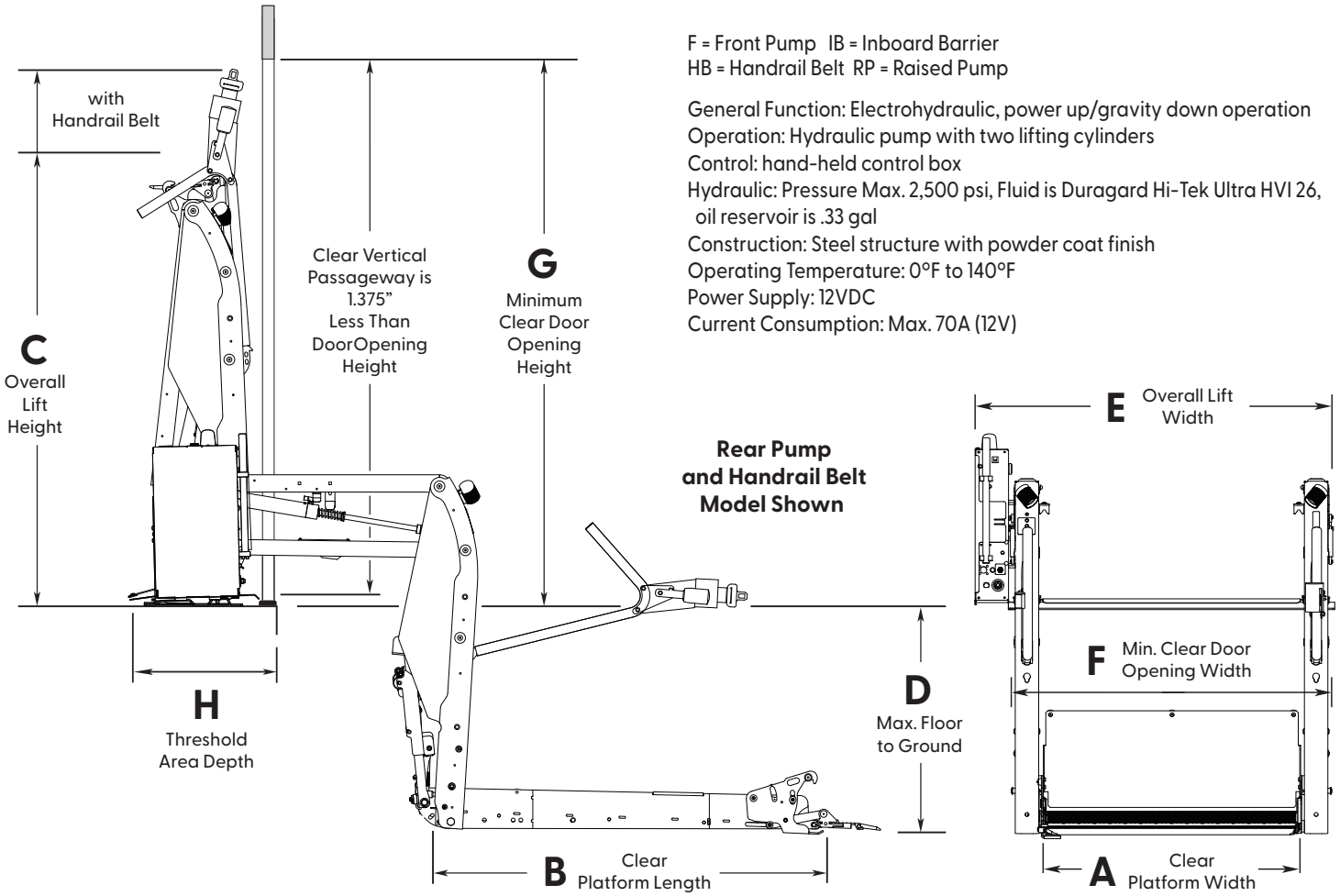
Curved vertical channels and top parellel arms for upgraded appearance



Center yellow stripe to aid platform loading

Millennium Series™ Models/Dimensions

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F = Front Pump IB = Inboard Barrier
HB = Handrail Belt RP = Raised Pump

General Function: Electrohydraulic, power up/gravity down operation
Operation: Hydraulic pump with two lifting cylinders
Control: hand-held control box
Hydraulic: Pressure Max. 2,500 psi, Fluid is Duragard Hi-Tek Ultra HVI 26, oil reservoir is .33 gal
Construction: Steel structure with powder coat finish
Operating Temperature: 0°F to 140°F
Power Supply: 12VDC
Current Consumption: Max. 70A (12V)

All dimensions are for reference only.

NL Millennium Series™				A	B	C	D	E	F	G	H
Lift Model Number	**Pump** Front or Rear	**Lift Weight lbs**	**Lifting Capacity lbs**	**Clear Platform Width**	**Clear Platform Length**	**Overall Lift Height**	**Max. Floor to Ground**	**Overall Lift Width**	**Min. Clear Door Opening Width**	**Min. Clear Door Opening Height**	**Threshold Area Depth**
NL917IB-2	R	363	800	33”	51”	57.45”	48”	46.96”	41.85”	57.75”	18”
NL917FIB-2	F	363	800	33”	51”	57.45”	48”	46.96”	41.85”	57.75”	18”
NL917FIBHB-2	F	367	800	33”	51”	62.06”	48”	46.96”	41.85”	63”	18”
NL917IB3454-2	R	379	800	34”	54”	58.91”	48”	47.96”	42.85”	59.5”	18”
NL917FIB3454HB-2	F	383	800	34”	54”	66.06”	48”	47.96”	42.85”	67”	18”
NL917IB3751-2	R	381	800	37”	51”	57.45”	48”	50.96”	45.85”	57.75”	18”
NL917FIB3751-2	F	381	800	37”	51”	57.45”	48”	50.96”	45.85”	57.75”	18”
NL917FIB3751HB-2	F	385	800	37”	51”	62.06”	48”	50.96”	45.85”	63”	18”
NL919IB-2	R	374	800	34”	51”	57.45”	48”	47.96”	42.85”	57.75”	18”
NL919FIB-2	F	374	800	34”	51”	57.45”	48”	47.96”	42.85”	57.75”	18”
NL919IBHB-2	R	379	800	34”	51”	62.06”	48”	47.96”	42.85”	63”	18”
NL919FIBHB-2	F	379	800	34”	51”	62.06”	48”	47.96”	42.85”	63”	18”
NL919FIBRP-2	F	381	800	34”	51”	57.45”	48”	47.96”	42.85”	57.75”	18”

Millennium Series™ Installation Kits

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	Side Door	Side Door with Slde Curtain Air Bags	Std. Length Rear Door	Ext. Length Rear Door
Dodge Ram Promaster (2014 & up)	405002KS		38674KS	38674KS
Ford E-Series	30956KKS		30957KKS	30970KKS
Ford Transit	400775KS	400534KS	400774KS	400773KS
Ford E-Transit with Omni floor	406911KS		406910KS	406910KS
GM	30958KKS		30959KKS	30981KKS
Sprinter	610893KS		34120KS	401174KS

30955K (Standard Mounting Kit - Ships with all DPA lifts) - Van Mounting Kits contain floor reinforcements for 403/404 compliance.

Millennium Series™ Accessories

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◀ **605258A LiftSentinel**

The LiftSentinel from BraunAbility is an advanced lift barrier system designed for Millennium Series wheelchair lifts (2005+ models). It automatically deploys on the inboard side of the lift platform, within the interior of the vehicle, creating a secure barrier that helps prevent accidental vehicle exit during loading and unloading. LiftSentinel delivers confidence and compliance without increasing the lift footprint.



◀ **31579KS**
Handrail Restraint Retractable - for 51" Platforms

35533KS
Handrail Restraint Retractable - for 54" Platforms

35331KS
Handrail Restraint Non-Retractable



◀ **35295KKS**
Upper Tower Support Kit



◀ **407609AKS**
Replacement Hand-Held Control



◀ **610920KS Padding Kit**

404168 Full Cover - DPA Lift

Millennium Series™ Specifications

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Commercial Wheelchair Lift Specifications - In Compliance With
United States Department of Transportation Rules and Regulations 49CFR, Part 38
from The Americans With Disabilities Act of 1990 and NHTSA Rule 403 (2004)
"Provided to make your spec writing easier."

The wheelchair lift is compliant with Federal Motor Vehicle Safety Standard 403 for platform lift systems for motor vehicles. The lift shall have been tested to a minimum static load of 2400#. The lift shall have 800# rated lifting capacity. The base plate shall be a corrugated designed member to provide rigidity to minimize lift deflection when placed under load.

The power supply shall be a 12 volt electro-hydraulic system operating two single-acting cylinders. The hydraulic power pack system shall be of modular design allowing for easy removal and field replacement, if needed. The operation of the unit shall provide a smooth ride in both up and down directions. The power operation of the hydraulic cylinders shall be of a pull-type design for smooth lifting operation and improved synchronous arm movement. The pivot pins in the trunnion (knuckle) of the pivot arms shall be of stationary design. The hydraulic system shall be regulated by two separate relief valves, one of which is designed to prevent accidental stowing when occupied.

The lift shall incorporate an automatic stow pressure verification system that, upon vehicle ignition and with required interlock conditions satisfied, activates the hydraulic pump as needed to achieve a fully stowed condition and minimize in-transit movement and noise.

The hand control for lift operation shall be of a one-hand operation design made of durable plastic. The hand control will provide user with illuminated functions. The hand control cable shall be coiled with quick-change connections for ease of maintenance or field change. The hand control shall include an internal magnet for magnetic attraction to ferrous metal surfaces.

A manual back-up system shall be provided to ensure operation of the lift in case of electrical failure. The backup system shall provide a reliable means of manually raising and lowering the lift while occupied. The back-up system shall fold and unfold the platform. The back-up pump shall be integrated with the hydraulic power pack system such that no hydraulic lines or fittings are required.

The platform shall be of steel construction and the surface shall be of see-through grating allowing for improved visibility and safer use in inclement weather. The platform shall have a minimum usable wheelchair passageway width of 33 inches and a minimum usable length of 51 inches requiring a 57 inch vertical clear door opening. The sides of the platform shall be a minimum of 2.5 inches high. The platform shall be equipped with one or more yellow lines centered laterally and partially extending the length of the platform to provide visual assistance during passenger loading and unloading.

The platform shall be automatically folded and unfolded and fully automatic in operation. The platform shall allow both inboard and outboard facing of wheelchair and mobility aid users. The platform entrance ramp shall be extruded aluminum for weight savings, have a rubber leading edge and raised ribs for traction. The outer barrier shall be hydraulically activated, and must be in the vertical (deployed) position prior to platform movement. The outer barrier must not raise if occupied with 25 lbs. The outer barrier shall be the sole outboard wheelchair retention device and shall be interlocked and comply with the FMVSS 403 requirements. Dual handrails shall be provided to add security and convenience. These handrails shall be 1.25 inch minimum diameter, minimum 30 inches in height, minimum of 8 inches in length, and withstand a 100# force in any direction (including vertical) without permanent deformation. The lift must have a fail safe system to prevent stowing if solenoid welds. The platform shall have "built in" lighting to meet 404 platform lighting requirements with no auxiliary lighting. The platform lighting shall dim during the fold/unfold sequence and maintain full brightness to meet 404 platform lighting requirements when the platform is at or below floor level.

Obstruction indicator lights shall be present on a wheelchair lift vertical channel to indicate obstructions in the following areas: Outboard Barrier, Inboard Barrier, and Threshold Plate. The obstruction indicators shall only be active when the platform is at or below floor level.

All lift components shall be finished with a baked-on powder coating, which will meet a salt spray test of 1000 hours, to provide corrosion resistance and a long service life.

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