



INFLATABLE LIFTING BAG

DATA SHEET

High-pressure pneumatic lifting bag for controlled lifting, spreading and positioning of heavy loads.



**UP TO 115
TONNES**

MAX. LIFTING
CAPACITY



**-20°C TO
+80°C**

OPERATING
TEMPERATURE



**75 MM TO
550 MM**

LIFTING
HEIGHT RANGE



**8 OR
12 BAR**

MAX. WORKING
PRESSURE



**HIGH LIFTING
CAPACITY**



**LOW INSERTION
HEIGHT**



CUSTOMIZABLE



LOW INSERTION HEIGHT. CONTROLLED HEAVY LIFTING.

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INFLATABLE LIFTING BAG

LOW INSERTION HEIGHT. CONTROLLED HEAVY LIFTING.

The Plugline Inflatable Lifting Bag is a high-pressure pneumatic lifting device designed for lifting, spreading, levelling and positioning heavy loads where conventional lifting equipment cannot be installed easily.

Its thin deflated profile allows insertion beneath loads with limited ground clearance. When supplied with regulated compressed air, the reinforced elastomeric body expands vertically and transfers lifting force over a broad contact area.

The product range is available in 8-bar and 12-bar working-pressure classes, with maximum lifting capacities from 1.15 tonnes to 115 tonnes, depending on the selected model.



FEATURES

LOW INSERTION HEIGHT

Deflated thicknesses of approximately 23–25 mm allow placement beneath loads with restricted clearance.

HIGH FORCE-TO-WEIGHT RATIO

The compact bag generates substantial lifting force while remaining lightweight and portable.

CONTROLLED PNEUMATIC LIFTING

Gradual inflation through a compatible controller permits precise lifting and lowering.

REINFORCED ELASTOMERIC CONSTRUCTION

Single or dual bypass configurations from 1/16" to 4".

TEXTURED CONTACT SURFACE

The moulded surface improves grip between the bag, load and supporting surface.

INTEGRATED HANDLES

Most models include four carrying and positioning handles for controlled placement.

APPLICATIONS

- Vehicle and rail accident recovery
- Emergency rescue and extrication
- Heavy-equipment maintenance
- Machinery alignment and positioning
- Concrete slab and structural lifting
- Pipeline installation and maintenance
- Stone-block separation
- Load levelling and spreading
- Industrial shutdown and recovery operations

TECHNICAL SPECIFICATIONS

Working-Pressure Classes	8 bar and 12 bar
Maximum Lifting Capacity	1.15–76.8 t at 8 bar; 1.7–115 t at 12 bar
Lifting Height Range	25–550 mm, depending on model and load
Deflated Thickness	23–25 mm
Product Dimensions	140 × 140 mm to 1000 × 1000 mm
Air Requirement	2.9–1580 litres
Product Weight Range	0.4–24.5 kg
Handle Configuration	No handles on the smallest models; four handles on larger models
Maximum Stacking	Two lifting bags
Operating Temperature	–20°C to +80°C
Inflation Medium	Regulated compressed air
Construction	Reinforced high-pressure elastomeric lifting bag

PRODUCT RANGE

INFLATABLE LIFTING BAGS (8 bar/116.03 psi)

Product Code	Dimension			Max. Lifting Capacity (t)	Working Pressure (bar/psi)	Handles	Air Requirement (lt)	Weight (kg/lbs)	Lifting Capacity	
	Length (mm/inch)	Width (mm/inch)	Thickness (mm/inch)						Height (mm/inch)	Capacity (ton)
ILB115	140mm/5.51"	140mm/5.51"	23mm/0.91"	1.15t	8bar/116.03psi	X	2.9	0.4kg/0.88lbs	25mm/0.98"	0.8t
									50mm/1.96"	0.5t
									75mm/2.95"	0.14t
ILB350	200mm/7.87"	260mm/10.23"	23mm/0.91"	3.5t	8bar/116.03psi	X	15.5	1.0kg/2.2lbs	25mm/0.98"	3.2t
									50mm/1.97"	2.2t
									75mm/2.95"	1.2t
									100mm/3.94"	0.65t
									125mm/4.92"	0.3t
ILB620	300mm/11.81"	300mm/11.81"	23mm/0.91"	6.2t	8bar/116.03psi	4	40	2.0kg/4.4lbs	25mm/0.98"	6t
									50mm/1.97"	4t
									100mm/3.94"	1.5t
									150mm/5.91"	0.45t
ILB1030	380mm/14.96"	380mm/14.96"	23mm/0.91"	10.3t	8bar/116.03psi	4	85	3.8kg/8.37lbs	50mm/1.97"	7.8t
									100mm/3.94"	4.5t
									150mm/5.91"	2t
									215mm/8.46"	0.4t
ILB1300	300mm/11.81"	600mm/23.62"	25mm/0.98"	13t	8bar/116.03psi	4	115	4.0kg/8.82lbs	50mm/1.97"	7.02t
									100mm/3.94"	4.05t
									150mm/5.91"	1.8t
									215mm/8.46"	0.36t
									50mm/1.97"	18t
ILB1840	500mm/19.68"	500mm/19.68"	25mm/0.98"	18.4t	8bar/116.03psi	4	198	6.4kg/14.1lbs	100mm/3.94"	12t
									150mm/5.91"	8t
									200mm/7.87"	5t
									250mm/9.84"	3.5t
									290mm/11.42"	2t
									50mm/1.97"	22.56t
ILB2430	1000mm/39.37"	330mm/12.99"	25mm/0.98"	24.3t	8bar/116.03psi	4	215	9.1kg/20.05lbs	100mm/3.94"	17.86t
									200mm/7.87"	9.4t
									300mm/11.81"	2.44t
									350mm/13.78"	1.69t
									50mm/1.97"	24t
ILB2700	600mm/23.62"	600mm/23.62"	25mm/0.98"	27t	8bar/116.03psi	4	380	9.8kg/21.59lbs	100mm/3.94"	19t
									200mm/7.87"	10t
									300mm/11.81"	2.6t
									350mm/13.78"	1.8t
									50mm/1.97"	40t
ILB3700	700mm/27.56"	700mm/27.56"	25mm/0.98"	37t	8bar/116.03psi	4	630	13.5kg/29.75lbs	100mm/3.94"	27t
									200mm/7.87"	14t
									300mm/11.81"	5t
									350mm/13.78"	2t
									50mm/1.97"	45t
ILB4870	800mm/35.43"	800mm/35.43"	25mm/0.98"	48.7t	8bar/116.03psi	4	945	17.8kg/39.23lbs	100mm/3.94"	36t
									200mm/7.87"	22.5t
									300mm/11.81"	11.5t
									400mm/15.75"	5t
									450mm/17.72"	2t
ILB6200	900mm/35.43"	900mm/35.43"	25mm/0.98"	62t	8bar/116.03psi	4	1450	21.0kg/46.28lbs	50mm/1.97"	60t
									100mm/3.94"	48t
									200mm/7.87"	30t
									300mm/11.81"	15t
									400mm/15.75"	6t
ILB7680	1000mm/39.37"	1000mm/39.37"	25mm/0.98"	76.8t	8bar/116.03psi	4	1580	24.5kg/53.99lbs	500mm/19.69"	2t
									50mm/1.97"	73t
									100mm/3.94"	58t
									200mm/7.87"	36t
									300mm/11.81"	18t
									400mm/15.75"	7.2t
									500mm/19.69"	2.5t
									550mm/21.65"	1t

*Other sizes and custom pressure ratings available upon request.



INFLATABLE LIFTING BAGS (12 bar/174.04 psi)

Product Code	Dimension			Max. Lifting Capacity (t)	Working Pressure (bar/psi)	Handles	Air Requirement (lt)	Weight (kg/lbs)	Lifting Capacity	
	Length (mm/inch)	Width (mm/inch)	Thickness (mm/inch)						Height (mm/inch)	Capacity (ton)
ILB170	140mm/5.51"	140mm/5.51"	23mm/0.91"	1.7t	12bar/174.04psi	X	2.9	0.4kg/0.88lbs	25mm/0.98"	1.2t
									50mm/1.96"	0.75t
									75mm/2.95"	0.21t
ILB520	200mm/7.87"	260mm/10.23"	23mm/0.91"	5.2t	12bar/174.04psi	X	15.5	1.0kg/2.2lbs	25mm/0.98"	4.8t
									50mm/1.97"	3.3t
									75mm/2.95"	1.8t
									100mm/3.94"	0.975t
									125mm/4.92"	0.45t
ILB940	300mm/11.81"	300mm/11.81"	23mm/0.91"	9.4t	12bar/174.04psi	4	40	2.0kg/4.4lbs	25mm/0.98"	9t
									50mm/1.97"	6t
									100mm/3.94"	2.25t
									150mm/5.91"	0.675t
									50mm/1.97"	11.7t
ILB1550	380mm/14.96"	380mm/14.96"	23mm/0.91"	15.5t	12bar/174.04psi	4	85	3.8kg/8.37lbs	100mm/3.94"	6.75t
									150mm/5.91"	3t
									215mm/8.46"	0.6t
									50mm/1.97"	10.53t
									100mm/3.94"	6.75t
ILB1940	300mm/11.81"	600mm/23.62"	25mm/0.98"	19.4t	12bar/174.04psi	4	115	4.0kg/8.82lbs	150mm/5.91"	2.7t
									215mm/8.46"	0.54t
									50mm/1.97"	27t
									100mm/3.94"	18t
									150mm/5.91"	12t
ILB2760	500mm/19.68"	500mm/19.68"	25mm/0.98"	27.6t	12bar/174.04psi	4	198	6.4kg/14.1lbs	200mm/7.87"	7.5t
									250mm/9.84"	5.25t
									290mm/11.42"	3t
									50mm/1.97"	33.84t
									100mm/3.94"	26.79t
ILB3640	1000mm/39.37"	330mm/12.99"	25mm/0.98"	36.4t	12bar/174.04psi	4	215	9.1kg/20.05lbs	200mm/7.87"	14.1t
									300mm/11.81"	3.66t
									350mm/13.78"	2.53t
									50mm/1.97"	36t
									100mm/3.94"	28.5t
ILB4030	600mm/23.62"	600mm/23.62"	25mm/0.98"	40.3t	12bar/174.04psi	4	380	9.8kg/21.59lbs	200mm/7.87"	15t
									300mm/11.81"	3.9t
									350mm/13.78"	2.7t
									50mm/1.97"	60t
									100mm/3.94"	40.5t
ILB5540	700mm/27.56"	700mm/27.56"	25mm/0.98"	55.4t	12bar/174.04psi	4	630	13.5kg/29.75lbs	200mm/7.87"	21t
									300mm/11.81"	7.5t
									350mm/13.78"	3t
									50mm/1.97"	67.5t
									100mm/3.94"	54t
ILB7300	800mm/35.43"	800mm/35.43"	25mm/0.98"	73t	12bar/174.04psi	4	945	17.8kg/39.23lbs	200mm/7.87"	33.75t
									300mm/11.81"	17.25t
									400mm/15.75"	7.5t
									450mm/17.72"	3t
									50mm/1.97"	90t
ILB9300	900mm/35.43"	900mm/35.43"	25mm/0.98"	93t	12bar/174.04psi	4	1450	21.0kg/46.28lbs	100mm/3.94"	72t
									200mm/7.87"	45t
									300mm/11.81"	22.5t
									400mm/15.75"	9t
									500mm/19.69"	3t
ILB11500	1000mm/39.37"	1000mm/39.37"	25mm/0.98"	115t	12bar/174.04psi	4	1580	24.5kg/53.99lbs	50mm/1.97"	109.5t
									100mm/3.94"	87t
									200mm/7.87"	54t
									300mm/11.81"	27t
									400mm/15.75"	10.8t
									500mm/19.69"	3.75t
									550mm/21.65"	1.5t

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