

LIFTING BAGS

HLB & HSB Series





HIGH PRESSURE LIFTING BAGS

Air-powered lifting bags are used for lifting, moving, spreading and fixing loads. The use of high quality materials and stringent quality control ensures safe operation. Holmatro lifting bags are capable of lifting loads up to 106 tons with compressed air at a pressure of 174 psi. This brochure shows both the all around HLB series and the flat shaped HSB series, that can be stacked for increased height.

The choice is yours!

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HLB SERIES

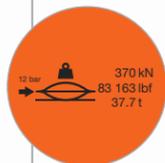
MAXIMUM SAFETY AND CONTROL

Holmatro HLB lifting bags have been designed for safe and controlled lifting of heavy objects. With a working pressure of 174 psi you can use a smaller and lighter bag to get the job done. The unique control unit allows you to operate the lifting bags with great precision. All developed with a strong focus on ease of use.

DESIGNED AROUND YOU

It's often the small details that make a difference. An integrated carrying handle to easily pick up your lifting bag. A simple arrow for a quick visual indication of the lifting height. An extra gauge on the control unit to keep an eye on the incoming air pressure. Discover all the smart features of the HLB lifting bags range!

- Optimized non-slip design
- Aramid-reinforced, 4:1 safety
- Reflective markings



IMPORTANT INFORMATION LABELS

Clear indication of safety warnings, technical specifications and lifting height. Data matrix for equipment management in the free Holmatro Service Portal.

CENTER MARKINGS AND INTERLOCKING PROFILE

To help you position a smaller bag onto a larger model. The interlocking profile maximizes the contact area and stability of inflated lifting bags.

STANDARD SLIDER PADS

For easy insertion underneath an object.

INTEGRATED CARRYING HANDLE

Makes it easier to pull your lifting bag from the truck and take it with you.

INSERTS FOR OPTIONAL LIFTING EYES

To attach a rope for easy maneuvering of your lifting bag.

Lifting Bag HLB 38



Model number imprinted

Air inlet at a right angle

Integrated dust cap

Lifting capacity indication

Chamfered edges



Control Unit HDC 12



LED-illuminated
Lightweight

AIR SOURCE PRESSURE GAUGE

Easy checking of incoming air pressure. Allows for timely air source replacement.

SAFETY COUPLER (ALSO ON HOSES)

Unlocks in two steps for improved safety: pressure release before hose disconnection.

CARRYING BAR

For easy carrying. Protects against damage and prevents accidental operation when the control is upside down.

INTUITIVE BUTTON OPERATION

Precise air flow regulation for controlled and safe lifting.

NON-RETURN VALVES

Independent controlled lifting: no risk of air pressure shifting from one bag to the other.



Full system compliant with all relevant safety standards, including EN 13731.

HLB LIFTING BAGS RANGE

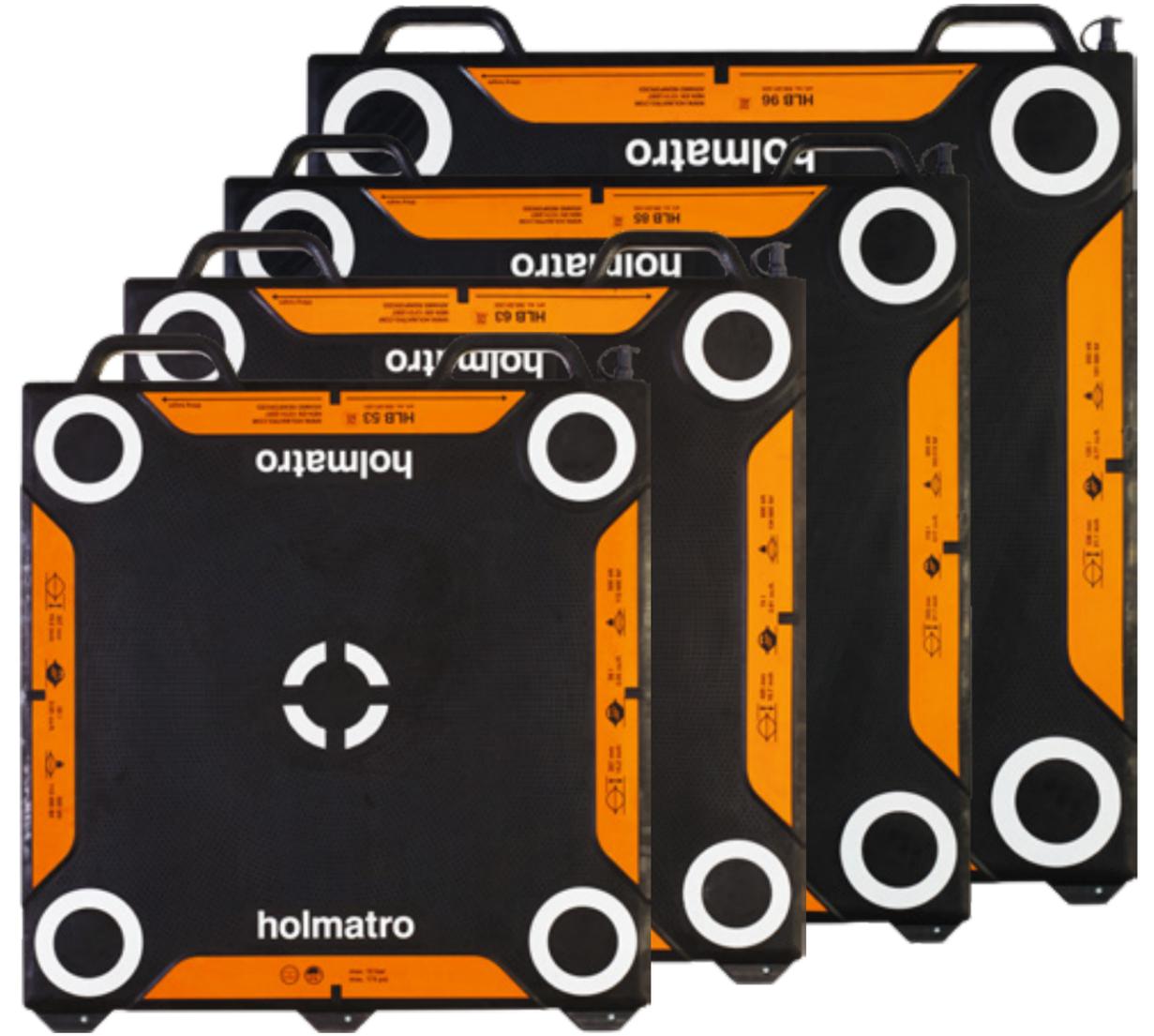
Choose your lifting bag: a full range range of allround lifting bags for a wide variety of situations.



SMALL HLB 2 HLB 6 HLB 8

MEDIUM HLB 11 HLB 16 HLB 21 HLB 31 HLB 38

One handle. Two slider pads.



LARGE HLB 53 HLB 63 HLB 85 HLB 96

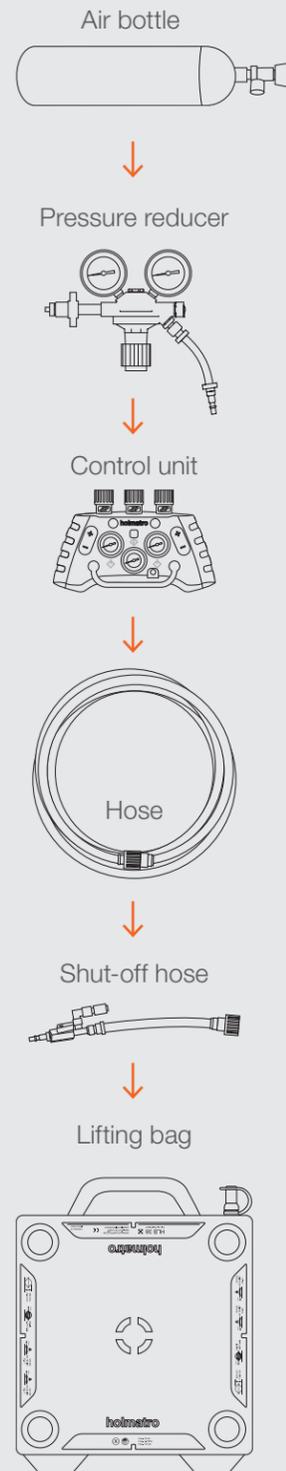
Two handles. Three slider pads.

| lifting bags - max. working pressure 12 bar | | | | | |
|---|-------------|-------------------------------------|-----------------------------|------------------------------|--------------|
| model | art. no. | max. effective lifting force (lbf.) | max. inflation height (in.) | dimensions (L x W x H) (in.) | weight (lb.) |
| HLB 2 | 350.321.021 | 4,721 | 3.7 | 7.9 x 6.3 x 0.9 | 1.5 |
| HLB 6 | 350.321.022 | 12,364 | 5.6 | 11.2 x 9.6 x 0.9 | 3.3 |
| HLB 8 | 350.321.023 | 18,434 | 7 | 13.2 x 11.6 x 0.9 | 4.6 |
| HLB 11 | 350.321.025 | 24,729 | 8.2 | 15.9 x 12.8 x 1 | 7.1 |
| HLB 16 | 350.321.026 | 34,845 | 9.3 | 18.4 x 15.4 x 1 | 9.9 |
| HLB 21 | 350.321.027 | 47,210 | 10.5 | 20.4 x 17.3 x 1 | 12.3 |
| HLB 31 | 350.321.028 | 68,792 | 12.6 | 23.9 x 20.9 x 1.1 | 18.3 |
| HLB 38 | 350.321.030 | 83,179 | 13.9 | 26.1 x 23 x 1.1 | 22 |

| lifting bags - max. working pressure 12 bar | | | | | |
|---|-------------|-------------------------------------|-----------------------------|------------------------------|--------------|
| model | art. no. | max. effective lifting force (lbf.) | max. inflation height (in.) | dimensions (L x W x H) (in.) | weight (lb.) |
| HLB 53 | 350.321.031 | 116,901 | 16.2 | 30.2 x 27.2 x 1.1 | 33.1 |
| HLB 63 | 350.321.032 | 139,382 | 18 | 32.6 x 29.5 x 1.1 | 37.5 |
| HLB 85 | 350.321.034 | 192,212 | 21.7 | 37.3 x 34.3 x 1.1 | 50.7 |
| HLB 96 | 350.321.033 | 211,320 | 22.2 | 38.9 x 35.8 x 1.1 | 55.1 |



HLB SYSTEM REQUIREMENTS



Accessories HLB and HSB see page 22.

ADVISORY HLB SETS

How to select the right lifting bags with twelve models to choose from? Pick one of our set examples or ask for an advice based on your specific needs.

HLB LIFTING BAG SET BASIC: HLBS-B

| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HLB 11 | 2 | 350.321.025 |
| HLB 21 | 2 | 350.321.027 |
| Pressure reducer PRV 12 HP CGA-347 | 1 | 358.182.001 |
| Air hose AH 16 R | 1 | 358.570.003 |
| Air hose AH 16 Y | 1 | 358.570.001 |
| Air hose AH 16 B | 1 | 358.570.002 |
| Control Unit HDC 12 | 1 | 350.182.095 |
| Shut-off hose SOH 174 | 2 | 358.570.007 |
| Air adapter set AAS 12 | 1 | 151.000.223 |



HLB LIFTING BAG SET INTERMEDIATE: HLBS-I

| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HLB 16 | 2 | 350.321.026 |
| HLB 31 | 2 | 350.321.028 |
| HLB 53 | 2 | 350.321.031 |
| Pressure reducer PRV 12 HP CGA-347 | 2 | 358.182.001 |
| Air hose AH 16 R | 2 | 358.570.003 |
| Air hose AH 16 Y | 2 | 358.570.001 |
| Air hose AH 16 B | 2 | 358.570.002 |
| Control Unit HDC 12 | 2 | 350.182.095 |
| Shut-off hose SOH 174 | 4 | 358.570.007 |
| Air adapter set AAS 12 | 2 | 151.000.223 |



HLB LIFTING BAG SET ADVANCED: HLBS-A

| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HLB 21 | 2 | 350.321.027 |
| HLB 38 | 2 | 350.321.030 |
| HLB 63 | 2 | 350.321.032 |
| HLB 96 | 2 | 350.321.033 |
| Pressure reducer PRV 12 HP CGA-347 | 2 | 358.182.001 |
| Air hose AH 16 R | 2 | 358.570.003 |
| Air hose AH 16 Y | 2 | 358.570.001 |
| Air hose AH 16 B | 2 | 358.570.002 |
| Control Unit HDC 12 | 2 | 350.182.095 |
| Shut-off hose SOH 174 | 4 | 358.570.007 |
| Air adapter set AAS 12 | 2 | 151.000.223 |



Remember to complete your HLB lifting bags set with air bottle(s). The proposed pressure reducer has a CGA-347 connection.

HSB SERIES

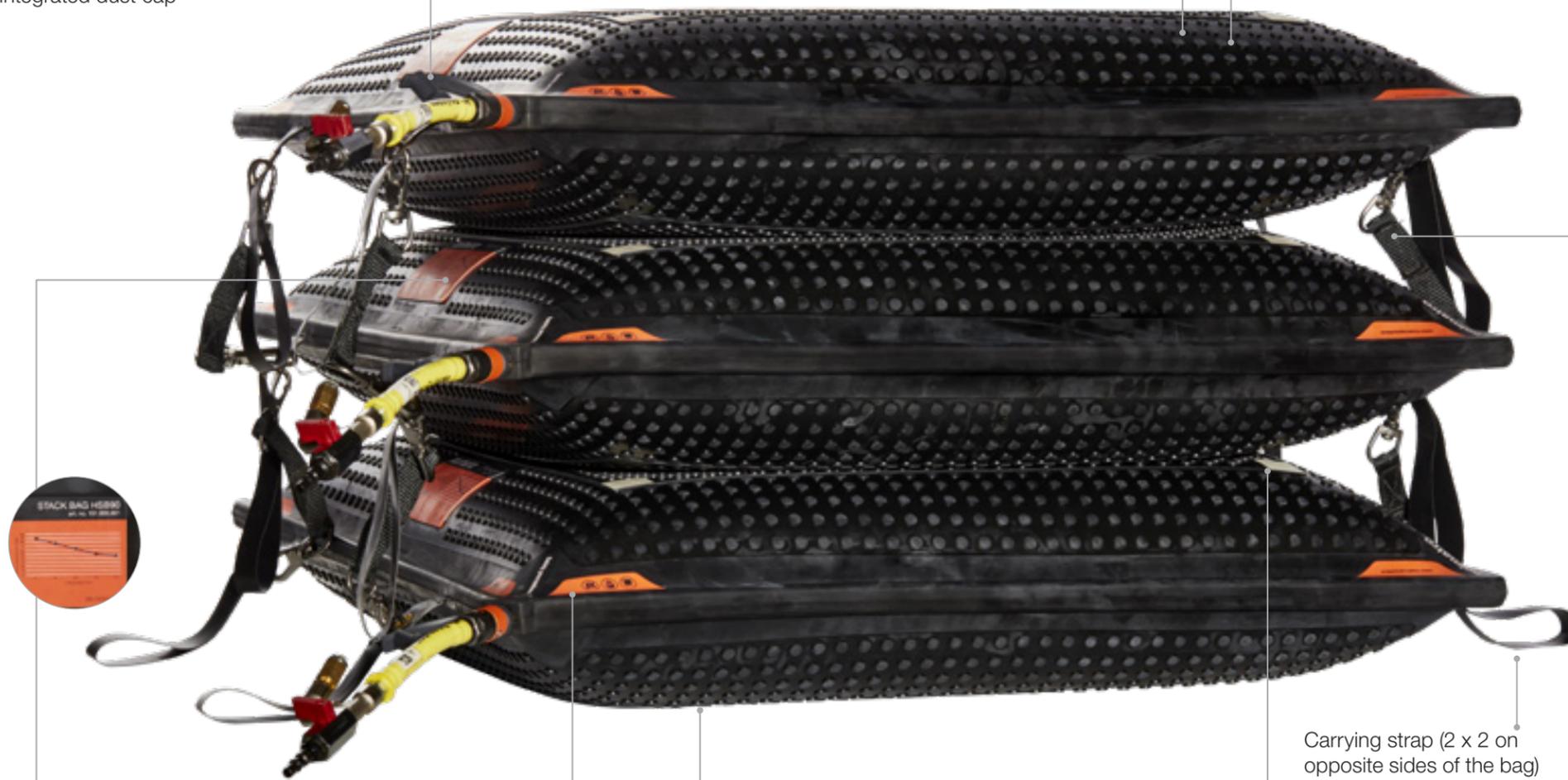
GREAT LIFTING HEIGHT AND OPTIMUM STABILITY

When inflating the new 174 psi. Holmatro Stack Bags the contact surface will stay flat. This allows you to easily stack up to three bags, for safe and stable lifting over a greater height. The compact HSB stack bags all have the same lifting height, so even in small spaces you can raise heavy loads up to 20 in.

DESIGNED AROUND YOU

The new Holmatro Stack Bags offer multiple options: you can use a single bag or stack two or three for a greater lifting height. Using a smaller set of bags will still get you the same lifting distance. The inflated stack bag becomes a sturdy flat object with a greater contact surface, for optimum stability and less risk of load shifting. The system is easy to handle, so get your lifting operation first time right with the new HSB stack bags!

Integrated dust cap



Aramid-reinforced, 4:1 safety

Optimized non-slip design



Carrying strap (2 x 2 on opposite sides of the bag)

GRAPH OF LIFTING CAPACITY & LIFTING HEIGHT

Graph showing the maximum lifting capacity of a single stack bag at the start and when it is fully inflated.

IMPORTANT INFORMATION LABELS

Clear indication of safety warnings and technical specifications. Data matrix for equipment management in the free Holmatro Service Portal.

FLAT SURFACE

Contact surface remains flat when bag is pressurized. Stack up to three bags for stable, higher lifting. Maximum lifting height with three stacked bags is 20 in., even with a set of the smallest bags.

CLEAR MARKINGS OF CONTACT AREA

For quick and easy stacking of up to three bags. The optimized non-slip profile maximizes the stability of inflated Stack Bags.

OPTIONAL RETAINING STRAPS

Easy carabiner style straps to help prevent stacked bags from shifting.

Control Unit HTC12



LED-illuminated Lightweight

AIR SOURCE PRESSURE GAUGE

Easy checking of incoming air pressure. Allows for timely air source replacement.

SAFETY COUPLER (ALSO ON HOSES)

Unlocks in two steps for improved safety: pressure release before hose disconnection.

CARRYING BAR

For easy carrying. Protects against damage and prevents accidental operation when the control is upside down.

INTUITIVE BUTTON OPERATION

Precise air flow regulation for controlled and safe lifting.

NON-RETURN VALVES

Independent controlled lifting: no risk of air pressure shifting from one bag to the other.

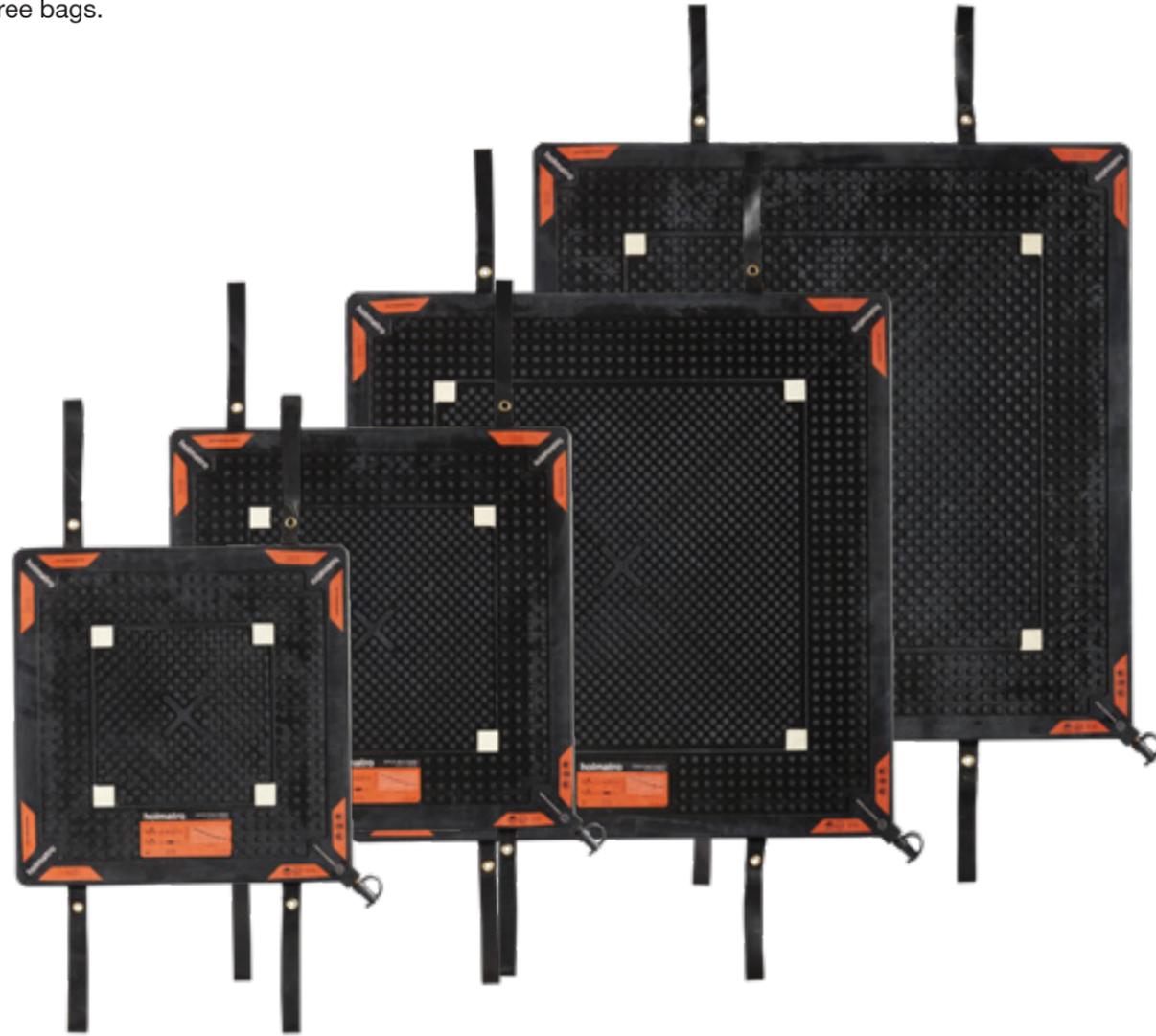
3 WAY CONTROLLER

Allows you to operate three Stack Bags with a single control unit. The HDC 12 (see page 7) is also compatible with the Stack Bags system, but can operate only two bags.



HSB STACK BAGS RANGE

Choose your Stack Bag: all models offer the same lifting height, so even with the smaller bags that occupy less ground space (small footprint) you will be able to reach a greater height when stacking three bags.



HSB27

HSB40

HSB74

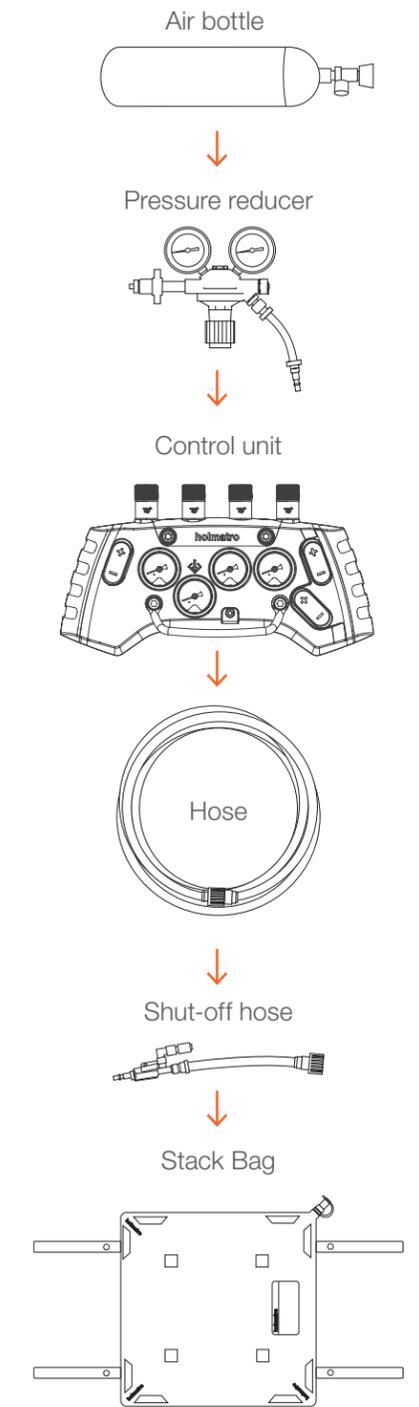
HSB92

stack bags - max. working pressure 12 bar

| model | art. no. | max. effective lifting force (lbf.) | max. inflation height (in.) | dimensions (L x W x H) (in.) | weight (lb.) |
|-------|-------------|-------------------------------------|-----------------------------|------------------------------|--------------|
| HSB27 | 151.000.948 | 59,574 | 6.7 | 20.5 x 20.5 x 1.1 | 20.3 |
| HSB40 | 151.000.949 | 75,985 | 6.7 | 24.4 x 24.4 x 1.1 | 28.7 |
| HSB74 | 151.000.950 | 147,924 | 6.7 | 33.1 x 33.1 x 1.1 | 52.5 |
| HSB92 | 151.000.951 | 185,467 | 6.7 | 36.2 x 36.2 x 1.1 | 61.7 |



HSB SYSTEM REQUIREMENTS



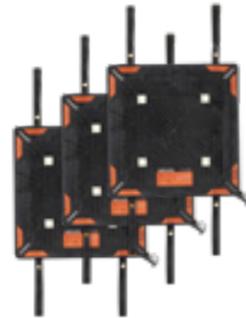
Accessories HLB and HSB see page 22.

ADVISORY HSB SETS

You will make the most of the benefits from the HSB series when stacking three bags. Pick your set: they will all reach the same lifting height but have different footprints and lifting forces.

HSB STACK BAG SET BASIC: HSBS-B

| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HSB27 | 3 | 151.000.948 |
| Pressure reducer PRV 12 HP CGA-347 | 1 | 358.182.001 |
| Air hose AH 16 R | 1 | 358.570.003 |
| Air hose AH 16 B | 1 | 358.570.002 |
| Air hose AH 16 Y | 2 | 358.570.001 |
| Control Unit HTC12 | 1 | 151.002.137 |
| Shut-off hose SOH 174 | 3 | 358.570.007 |
| Air adapter set AAS 12 | 1 | 151.000.223 |
| Retaining strap set | 1 | 151.001.194 |



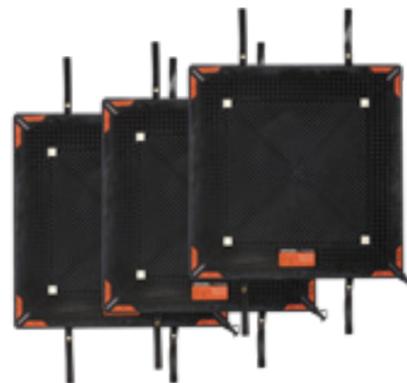
HSB STACK BAG SET INTERMEDIATE: HSBS-I

| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HSB40 | 3 | 151.000.949 |
| Pressure reducer PRV 12 HP CGA-347 | 1 | 358.182.001 |
| Air hose AH 16 R | 1 | 358.570.003 |
| Air hose AH 16 B | 1 | 358.570.002 |
| Air hose AH 16 Y | 2 | 358.570.001 |
| Control Unit HTC12 | 1 | 151.002.137 |
| Shut-off hose SOH 174 | 3 | 358.570.007 |
| Air adapter set AAS 12 | 1 | 151.000.223 |
| Retaining strap set | 1 | 151.001.194 |



HSB STACK BAG SET ADVANCED: HSBS-A

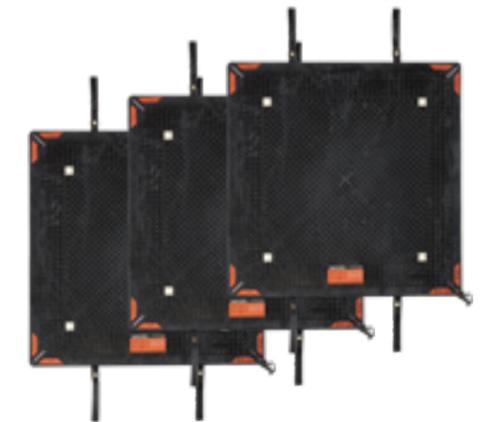
| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HSB74 | 3 | 151.000.950 |
| Pressure reducer PRV 12 HP CGA-347 | 1 | 358.182.001 |
| Air hose AH 16 R | 1 | 358.570.003 |
| Air hose AH 16 B | 1 | 358.570.002 |
| Air hose AH 16 Y | 2 | 358.570.001 |
| Control Unit HTC12 | 1 | 151.002.137 |
| Shut-off hose SOH 174 | 3 | 358.570.007 |
| Air adapter set AAS 12 | 1 | 151.000.223 |
| Retaining strap set | 1 | 151.001.194 |



ADVISORY HSB SETS

HSB STACK BAG SET EXPERT: HSBS-E

| | quantity | art. no. |
|------------------------------------|----------|-------------|
| HSB92 | 3 | 151.000.951 |
| Pressure reducer PRV 12 HP CGA-347 | 1 | 358.182.001 |
| Air hose AH 16 R | 1 | 358.570.003 |
| Air hose AH 16 B | 1 | 358.570.002 |
| Air hose AH 16 Y | 2 | 358.570.001 |
| Control Unit HTC12 | 1 | 151.002.137 |
| Shut-off hose SOH 174 | 3 | 358.570.007 |
| Air adapter set AAS 12 | 1 | 151.000.223 |
| Retaining strap set | 1 | 151.001.194 |



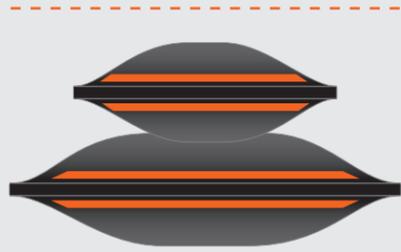
Remember to complete your HSB Stack Bags set with air bottle(s). The proposed pressure reducer has a CGA-347 connection.



THE CHOICE IS YOURS

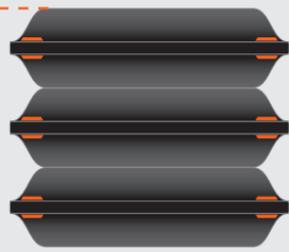
Lifting height

HLB LIFTING BAGS STACK 2 X HLB



A maximum of two bags can be stacked, using a smaller bag on top of a larger one.

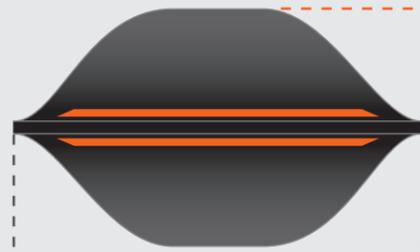
HSB STACK BAGS STACK 3 X HSB



Three bags can be stacked with great stability and increased height.

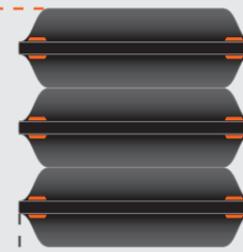
Footprint

HLB LIFTING BAGS 1 X HLB



Great lifting capacity and height of individual bags: use only a single bag. A large HLB lifting bag requires more ground space (footprint).

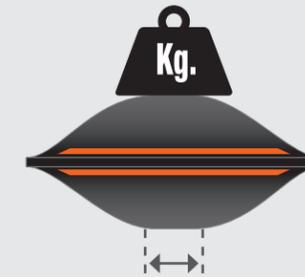
HSB STACK BAGS 3 X HSB



Stack Bags occupy less ground space: they have a smaller footprint with a greater lifting height when stacked.

Stability

HLB LIFTING BAGS BALLOON SHAPE



Smaller contact area as the bag inflates.

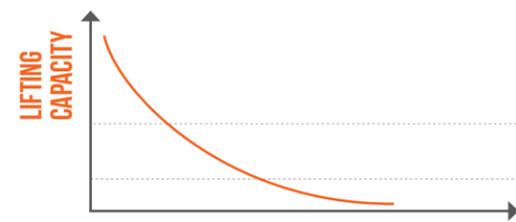
HSB STACK BAGS FLAT SHAPE



Greater contact surface and stability.

CAPACITY VERSUS HEIGHT

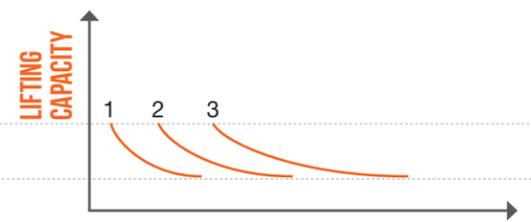
HLB LIFTING BAGS POWER CURVE DROPS TO NEAR 0



LIFTING HEIGHT

Large initial lifting capacity, drops to near zero at maximum lifting height. Because of the ballooning effect the lifting capacity diminishes when the bag is inflated.

HSB STACK BAGS DROP IN POWER CURVE STOPS



LIFTING HEIGHT

Smaller initial lifting capacity, drop in lifting capacity stops when bag reaches maximum height (6.7 in. for one bag, 20 in. for three stacked bags).

The HLB lifting bags and the HSB Stack Bags have been designed to lift heavy objects in vehicle rescue and disaster response situations. Check out which system suits your needs best!

**HLB LIFTING BAGS
ALL AROUND LIFTING BAGS**

**HSB STACK BAGS
STABLE STACKING AT
GREATER HEIGHT**

LIFTING BAGS - ACCESSORIES

| air hoses | | | | | |
|-----------|------------------|--------------|-------------|-----|-----|
| item | description | length (ft.) | art. no. | HLB | HSB |
| 1 | Air hose AH 16 Y | 16 | 358.570.001 | √ | √ |
| 2 | Air hose AH 16 B | 16 | 358.570.002 | √ | √ |
| 3 | Air hose AH 16 O | 16 | 358.570.003 | √ | √ |
| 4 | Air hose AH 32 Y | 32 | 358.570.006 | √ | √ |
| 5 | Air hose AH 32 B | 32 | 358.570.005 | √ | √ |
| 6 | Air hose AH 32 O | 32 | 358.570.004 | √ | √ |

Y= Yellow, B =Blue, R=Red

| accessories | | | | | |
|-------------|--------------------------------------|-------------|-----|-----|--|
| item | description | art. no. | HLB | HSB | |
| 7 | Control unit HDC 12 | 350.182.095 | √ | √ | |
| 8 | Control unit HTC12 | 151.002.137 | √ | √ | |
| 9a | Pressure Reducer PRV 12 LP - CGA-346 | 358.182.000 | √ | √ | |
| 9b | Pressure Reducer PRV12U | 159.002.074 | | | |
| 10 | Connection piece | 350.582.430 | √ | √ | |
| 11 | Shut-off hose SOH 12 | 358.570.007 | √ | √ | |
| 12 | Lifting eyes set (2 pieces) ** | 350.182.129 | √ | -- | |
| 13 | Air adapter set AAS 12 | 151.000.223 | √ | √ | |
| 14 | Slider pads set (3 pieces) * | 151.000.180 | √ | -- | |
| 15 | T-splitter TS12 | 151.004.864 | √ | √ | |

* Standard for models HLB 11 and up | ** Optional for models HLB 31 and up



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Thanks to our worldwide sales and service network there's always a Holmatro representative nearby, ready to assist you!

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Holmatro Rescue Equipment



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