



**HYDRA CAPSULE
LIMITED**

GROUT BAGS & GROUT PUMPS PRODUCT CATALOGUE

OUR SERVICES

- Grout Bags (Beam & Rectangle)
- Grout Pumps & Accessories
- Underpinning Systems
- Grout, Rein and Injection Systems
- Void-Filling and In-Fill Solutions



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HYDRA-CAPSULE LIMITED - GIVING CONSTRUCTION OUR SUPPORT

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01 GROUT BAGS



PRODUCT OVERVIEW & HOW THEY WORK

Hydra-Capsule grout bags are manufactured from specially woven fabric capable of withstanding high pressures when filled with grout. They provide a quick, adaptable solution where conventional shutters cannot be fitted, forming a perfect bearing area regardless of surface irregularity.

HOW THEY WORK

- 01 POSITION**
Place the grout bag into the void or beneath the structure that requires supporting and filling
- 02 CONNECT**
Attach the flexible hose from the hand pump or grout pump to the bag input tube.
- 03 INFLATE**
Pump grout into the bag at controlled pressure (max 4 bar) until it fills the cavity.
- 04 CURE**
Once cured, the bag forms a solid, permanent bearing surface with full load capacity.

KEY ADVANTAGES

- ✓ High-pressure woven fabric construction
- ✓ Forms perfect bearing on irregular surfaces
- ✓ Quick installation in restricted access
- ✓ Lightweight and compact for transport
- ✓ No formwork or shuttering required
- ✓ Suitable for submerged environments
- ✓ Available in rectangular and beam types
- ✓ Cured capacity equals lifting capacity

PERFORMANCE AT A GLANCE

4 BAR

Max Pressure

0.7 - 26.7T

Capacity Range

25 Models

Full Range

Ancillary

Equipment available

TYPICAL APPLICATIONS

Underpinning

Existing foundations

Dry-Packing

Alternative method

Beam Pre-Loading

Steel beam support

Void Filling

Restricted access

Wedge / Packing

Grout encased

Temporary Support

Construction phases

02 GROUT BAG & PUMP SOLUTIONS

TYPICAL USES & APPLICATION SUMMARY



◆ UNDERPINNING FOUNDATIONS

Used where conventional shutters cannot be fitted. Forms perfect bearing area under existing foundations.

◆ DRY-PACKING ALTERNATIVE

Replaces traditional dry-packing methods with a pressurised grout solution for superior contact.

◆ BEAM PRE-LOADING

Beam-type bags used to pre-load steel beams before permanent connections are made.

◆ TEMPORARY SUPPORT

Provides temporary support packings during construction phases before permanent works.

◆ MARINE & CAISSON WORKS

Operates in submerged or underwater environments where formwork is impractical. (DGB Model Type)

◆ VOID FILLING

Fills voids in restricted access areas including marine, caisson, and underground environments.



03 RECTANGLE TYPE GROUT BAG



SPECIFICATIONS & TECHNICAL DATA

Model	Lift Cap (tons)	Max Pressure	Volume (Litres)	Weight Fill (Kgs)	Depth (mm)	Length (mm)	Max Ht (mm)	Cured Cap(tons)
GB-101	0.7	4 bar	1.9	4.0	150	250	50	30
GB-102	1.1	4 bar	3.0	8.0	200	300	50	40
GB-103	1.6	4 bar	6.6	9.0	250	350	75	50
GB-104	2.2	4 bar	9.0	10.0	300	400	75	75
GB-105	2.7	4 bar	15.8	16.0	350	450	100	100
GB-106	3.6	4 bar	20.0	19.8	400	500	100	125
GB-107	4.5	4 bar	30.9	20.0	450	550	125	150
GB-108	5.4	4 bar	37.5	26.0	500	600	125	200
GB-109	6.5	4 bar	53.6	31.0	550	650	150	250
GB-110	7.2	4 bar	63.0	36.0	600	700	150	300

All rectangular grout bags operate at 4 bar maximum pressure. Bags are manufactured from specially woven fabric capable of withstanding high pressures when filled with grout. Cured capacity equals lifting capacity for all rectangular models.

PERFORMANCE AT A GLANCE

4 BAR

Max Pressure

0.7 - 7.2T

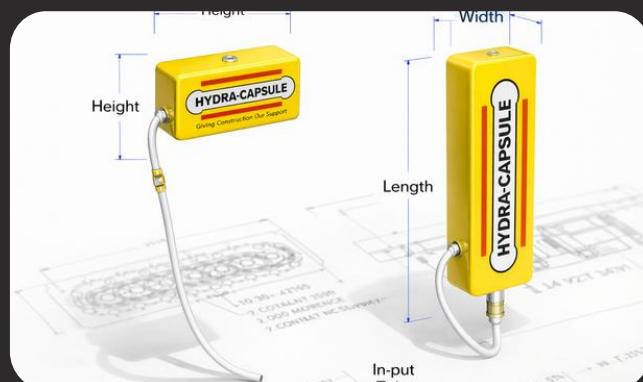
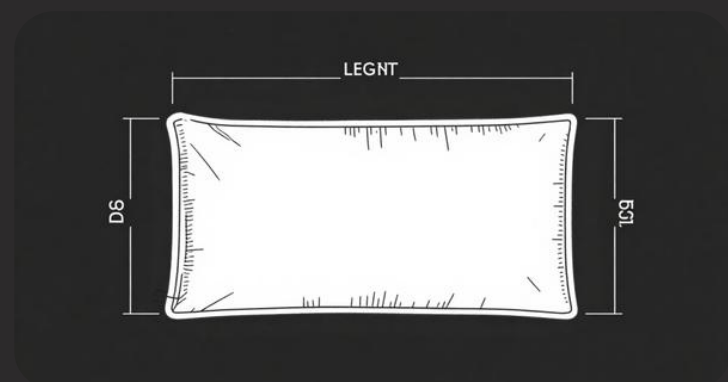
Capacity Range

10 Models

Grout Bag Range

150 - 700mm

Length Range



KEY FEATURES

- ✓ Specially woven high-pressure fabric
- ✓ Quick installation in restricted access
- ✓ Forms perfect bearing on irregular surfaces
- ✓ Lightweight and compact for transport
- ✓ Suitable for underpinning & void filling
- ✓ Cured capacity equals lifting capacity

04 BEAM TYPE GROUT BAG



BEAM TYPE – TECHNICAL DATA

Model	Lift (T)	Cured (T)	Width	Length	Height	Vol (L)	Wt (kg)
GB-201	0.8	25	100	500	50	2.5	7
GB-202	1.7	50	100	1000	50	5.0	12
GB-203	2.6	75	100	1500	50	7.5	16
GB-204	3.5	100	100	2000	50	10	21
GB-205	4.4	125	100	2500	50	12.5	25
GB-206	7.8	160	150	3000	75	33.8	64
GB-207	9.2	250	150	3500	75	39.4	75
GB-208	10.5	300	150	4000	75	45	86
GB-209	11.2	350	150	4500	75	50.6	95
GB-210	13.1	400	150	5000	75	56.6	106
GB-211	19.3	500	200	5500	100	110.2	204
GB-212	21.1	600	200	6000	100	120.1	223
GB-213	22.7	700	200	6500	100	130.2	241
GB-214	25.0	800	200	7000	100	140.1	259
GB-215	26.7	900	200	7500	100	150.3	277

All dimensions in mm. Pressure: 4 bar for all models.

Lifting capacity measured at maximum inflation pressure.

PERFORMANCE AT A GLANCE

4 BAR

Max Pressure

0.8 - 26.7T

Capacity Range

15 Models

Beam Range

500-7500mm

Length Range



KEY FEATURES

- ✓ Designed for beam pre-loading & long-spans
- ✓ Available in lengths up to 7500mm
- ✓ All models rated at 4 bar max pressure
- ✓ Lightweight fabric for easy handling
- ✓ Ideal for restricted access
- ✓ Capacities from 0.8T to 26.7T

05 GROUT PUMPS

BEAM TYPE – TECHNICAL DATA



Grout pumps inject cementitious or chemical grout into foundations, soils, voids, and structural cavities. They are essential for underpinning, ground improvement, void filling, and marine foundation works.

PUMP TYPES

Type	Best For	Pressure
Piston	Structural grouting, underpinning	High (up to 10 Bar)
Progressive Cavity	Soil injection, duct grouting	Medium
Peristaltic	Compaction grouting, micropiles	Medium-High
Centrifugal	Jet grouting, soil mixing	Low-Medium

APPLICATIONS

- ◆ Underpinning foundations
- ◆ Compaction grouting
- ◆ Micropile installation
- ◆ Soil stabilisation
- ◆ Void filling beneath slabs
- ◆ Grout bag filling

PERFORMANCE AT A GLANCE

4 Bar
Max Pressure

4 Types
Pump Range

Bespoke
UK Manufactured

40+ Years
Experience

BENEFITS

- ◆ Controlled grout volumes & pressures
- ◆ Suitable in confined access sites
- ◆ High accuracy metering
- ◆ Essential for large foundations
- ◆ Soil stabilisation & waterproofing
- ◆ Reduces installation errors



06 CONTACT US



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OUR SERVICES

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- ✓ Bespoke Sizes and Design Available
- ✓ Grout Pumps & Accessories
- ✓ Underpinning, Post-Tensioning and Grout Injection Systems
- ✓ Temporary Bridge Propping, Lifting & Pre-loading Operations
- ✓ Contractual Service + Equipment Hire & Sales

