

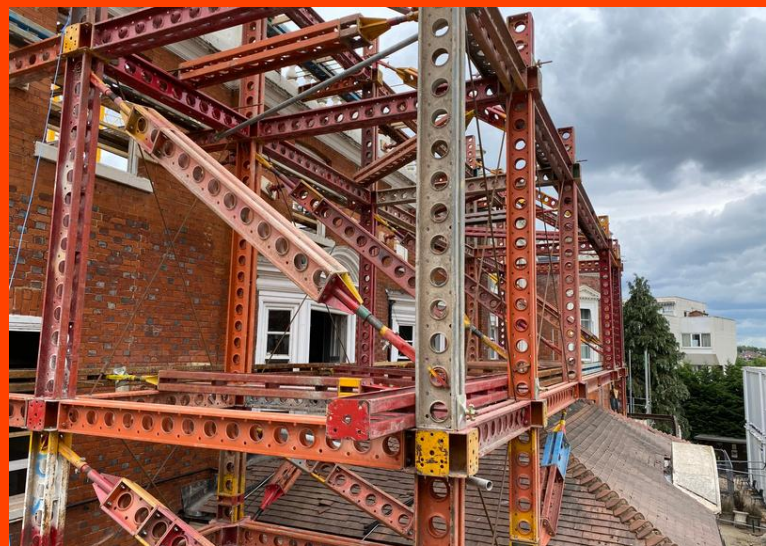
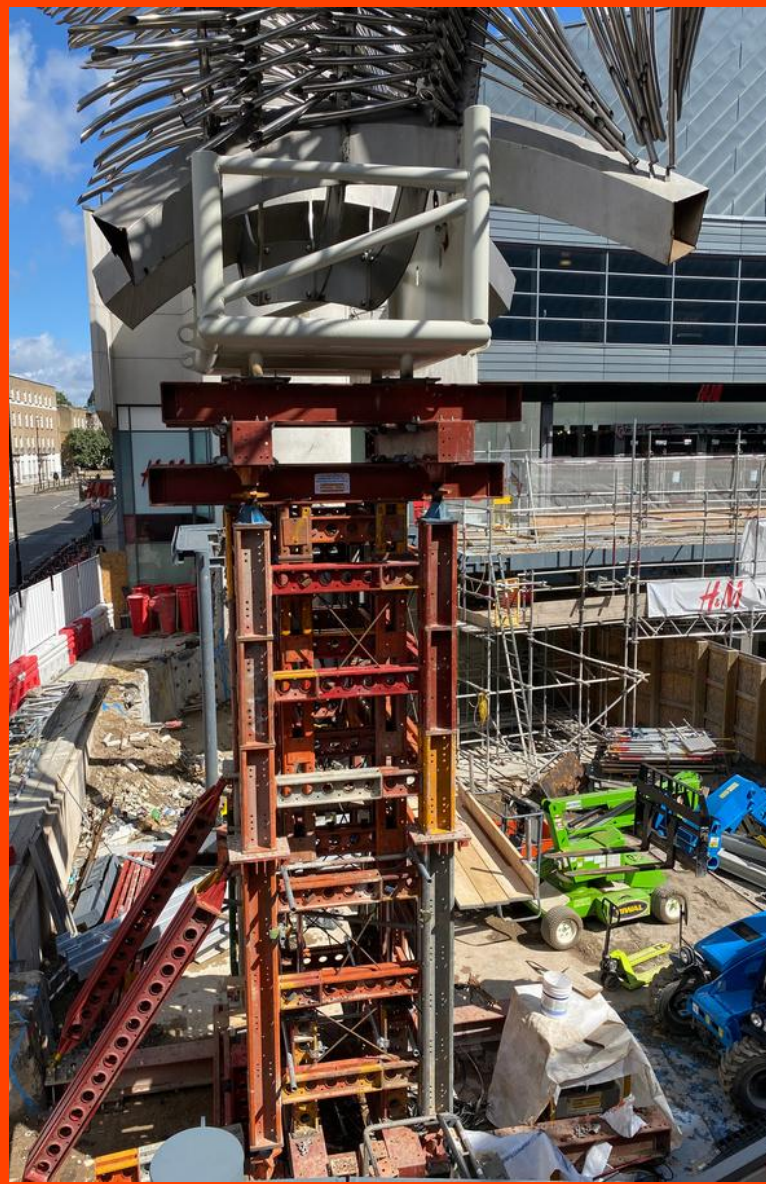


**HYDRA CAPSULE
LIMITED**

TEMPORARY PROPPING WORKS & SUPPORT SYSTEMS

OUR SERVICES

- Structural Back-Propping
- Temporary Propping & Jacking
- Facade Retention
- Propping and Needling Beams
- Diagonal + Raking Propping
- Aluminium Propping Supports



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HYDRA-CAPSULE LIMITED – GIVING CONSTRUCTION OUR SUPPORT

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01 INTRODUCTION TO TEMPORARY PROPPING



Temporary propping systems provide engineered structural support during construction, demolition, refurbishment, and load transfer stages. Hydra-Capsule has over 40 years of experience delivering temporary propping, jacking, facade retention, needling, and structural support systems for refurbishment, highways, Network Rail, commercial and infrastructure projects.

KEY CAPABILITIES

- ✓ Propping and hydraulic jacking systems up to 1000+ tonne capacity
- ✓ Full design, installation, monitoring, and controlled removal packages
- ✓ Range covers lightweight acrows, superslim soldiers, aluminium props, heavy-duty 75-400 tonne systems, and facade retention frames
- ✓ UK-wide coverage for refurbishment, highways, Network Rail, commercial and infrastructure projects

OUR PROCESS >>>



BENEFITS OF TEMPORARY PROPPING

- ✓ Ensures structural stability during demolition and construction phases
- ✓ Maintains public and worker safety
- ✓ Allows controlled load transfer and structural modifications
- ✓ Reduces risk of collapse during temporary unsupported states
- ✓ Lightweight systems improve efficiency and reduce labour
- ✓ Heavy-duty systems allow major infrastructure works
- ✓ Adaptable systems for diverse construction environments



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

02 TEMPORARY PROPPING OVERVIEW



Hydra-Capsule Limited provides a full range of temporary propping, monitoring and installation of propping systems, specialising in Refurbishment, Highways, Network Rail, Steelwork Install, Commercial & Infrastructure projects with over 40 years experience.

KEY CAPABILITIES

0-1,000

TONNE CAPACITY
PROPPING SYSTEMS

OVER 40+

YEARS EXPERIENCE
IN THE INDUSTRY

80% CLIENT

REPEAT
RETENTION RATE



ADVANTAGES



Full UK Coverage

Nationwide service with rapid mobilisation to any site



BS 5975 Compliant

Full compliance with temporary works standards and procedures



4 to 1000+ Tonnes

Wide range of capacities for any project scale



Real-Time Monitoring

Live load monitoring and data logging systems



Bespoke Solutions

Custom engineering for complex configurations



40+ Years Experience

Proven track record across all sectors

OTHER SERVICES

- Facade Retention • Needling • Structural Propping • Propping & Jacking
- Heavy-Duty Trusses + Towers • Raking Propping • Aluminium Propping

03 APPLICATIONS



Our temporary propping systems are deployed across a wide range of construction, refurbishment and infrastructure applications.

Refurbishment & Conversion



Supporting structures during renovation, extension and change-of-use projects

Multi-Storey Construction



Back-propping and slab support during concrete frame construction

Highway & Bridges



Propping bridge decks, abutments and highway structures during maintenance

Network Rail



Temporary support for rail infrastructure, platforms and overbridges

Commercial Buildings



Structural support for offices, retail and mixed-use developments

Demolition & Dismantling



Controlled support during partial or full demolition works

Emergency Works



Rapid deployment for structural failures and dangerous buildings

Heritage & Listed Buildings



Sensitive propping solutions for protected structures

04 BACK-PROPPING



Back-propping provides temporary vertical support to recently cast concrete slabs during multi-storey construction. Our systems ensure structural integrity while concrete gains strength, allowing safe continuation of works on floors above.

KEY CAPABILITIES

0-1,000

TONNE
CAPACITY

50+

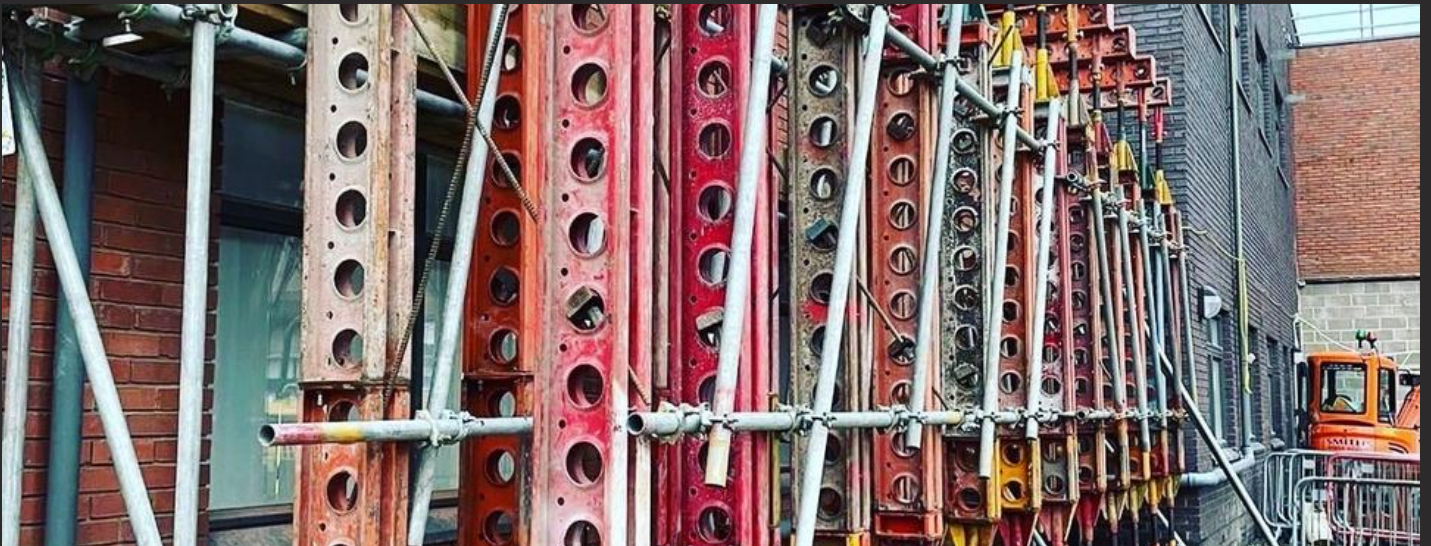
YEARS
EXPERIENCE

BS 5975

FULLY
COMPLIANT

24/7

RAPID INSTALL
RESPONSE



ADVANTAGES

- ✓ Supports multiple floors simultaneously during concrete curing
- ✓ Adjustable steel props for precise load distribution
- ✓ Full design calculations to BS 5975 and Eurocode standards
- ✓ Real-time load monitoring and data logging available
- ✓ Rapid installation and removal to maintain programme
- ✓ Suitable for all concrete frame types and slab thicknesses



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

05 FACADE RETENTION

HYDRA-CAPSULE

Facade retention systems provide temporary structural support to building facades during demolition and reconstruction of the structure behind. Our engineered solutions maintain the integrity of retained elevations while enabling full internal works.

KEY CAPABILITIES

500+

TONNE
CAPACITY

30m

FACADE
HEIGHT

BS 5975

FULLY
COMPLIANT

24/7

RAPID
RESPONSE



ADVANTAGES

- ✓ Supports retained facades up to 30m height
- ✓ Engineered steel frames with full design calculations
- ✓ Allows complete demolition and rebuild behind facade
- ✓ Integrated tie-back systems for wind loading
- ✓ Rapid installation with minimal disruption
- ✓ Full compliance with BS 5975 and CDM regulations



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

06 TEMPORARY PROPPING & NEEDLING



Needling involves inserting steel beams (needles) through load-bearing walls to transfer structural loads during underpinning, demolition or alteration works. Combined with propping, this provides controlled temporary support for complex structural modifications.

KEY CAPABILITIES

12m

MAXIMUM
SPAN

UC/UB

VAST STOCK OF
STEEL NEEDLES

CDM

FULLY
MANAGED

EXPERIENCE

ALL TYPES OF
LISTED BUILDINGS



ADVANTAGES

- ✓ Precise load transfer through masonry and concrete walls
- ✓ Enables underpinning without full structural demolition
- ✓ Suitable for listed buildings and sensitive structures
- ✓ Full temporary works design and monitoring included
- ✓ Rapid mobilisation with experienced installation teams
- ✓ Combined propping and needling for complex configurations



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

07 STRUCTURAL PROPPING



Heavy-duty vertical propping systems for supporting beams, walls, floors and structural elements during construction, demolition or remedial works. Designed for high-capacity load transfer with full temporary works design.

KEY CAPABILITIES

0-1,000

TONNE
CAPACITY

+6m

MAX PROP
HEIGHT

BS 5975

FULLY
COMPLIANT

LIVE

LOAD
MONITORING



ADVANTAGES

- ✓ Supports beams, lintels, walls and floor slabs during alterations
- ✓ Adjustable steel props for precise height and load control
- ✓ Full temporary works design to BS 5975 and Eurocode standards
- ✓ Real-time load monitoring and data logging available
- ✓ Rapid mobilisation with experienced installation teams
- ✓ Suitable for confined spaces and restricted access sites



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

08 PROPPING & HYDRAULIC JACKING



Hydraulic jacking systems for precision levelling, lifting and controlled load transfer during construction, remedial and infrastructure works.

Our systems deliver accurate force application up to 2,000 tonnes with real-time monitoring.

KEY CAPABILITIES

0-2,000

TONNE
CAPACITY

UPTO 1600

BAR PRESSURE
CAPACITY

±0.5mm

LEVELLING
ACCURACY

REAL-TIME

LOAD
MONITORING



ADVANTAGES

- ✓ Precision levelling and lifting to sub-millimetre accuracy
- ✓ Controlled load transfer between temporary and permanent structures
- ✓ Real-time hydraulic pressure monitoring and data logging
- ✓ Combined propping and jacking in a single system
- ✓ Rapid mobilisation with experienced installation teams
- ✓ Suitable for bridges, buildings and heavy infrastructure



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

09 RAKING PROPPING

HYDRA-CAPSULE

Angled propping systems that resist lateral forces on walls and structures during demolition, excavation or remedial works.

Raking props transfer horizontal loads safely to ground-level foundations.

KEY CAPABILITIES

0-1000kN

LATERAL
LOAD

15m

MAX
DEPTH

EMERGENCY

RESPONSE
TEAM SUPPORT

MODULAR

RAPID
INSTALL



ADVANTAGES

- ✓ Resists lateral thrust from unstable walls and facades
- ✓ Adjustable angle and height for site-specific configurations
- ✓ Full temporary works design to BS 5975 and Eurocode standards
- ✓ Rapid installation with experienced crews
- ✓ Suitable for demolition, excavation and remedial works
- ✓ Combined with facade retention for comprehensive support



Up to 1600 Bar



Largest Range in UK



40+ Years Operating



Install Services

10 ALUMINIUM PROPPING SUPPORTS



Lightweight aluminium propping systems for rapid deployment where weight restrictions or manual handling limits apply.

Ideal for internal works, heritage buildings and access-restricted sites where steel alternatives are impractical.

KEY CAPABILITIES

SUPERPROP

TITAN
SYSTEM

ALSHOR

PLUS
RANGE

60%

LIGHTER THAN
STEEL

NO CRANE

MANUAL
HANDLING



ADVANTAGES

- ✓ Up to 60% lighter than equivalent steel props
- ✓ No crane or heavy lifting equipment required
- ✓ Ideal for heritage and listed building works
- ✓ Corrosion-resistant for long-term installations
- ✓ Rapid assembly and disassembly by hand
- ✓ Full temporary works design to BS 5975 standards



Addition Hydraulic
Jacking/Preloading



Install
Services



40+ Years
Operating



Largest Range
in UK

11 COMPARISON TABLE OF PROPPING SYSTEMS



PROPPING TYPE	CAPACITY	PRIMARY USES	KEY ADVANTAGES
Acrow Props	10 – 35 kNs	Slab support, under pinning, & temporary walls	Low cost, widely available, quick to install
Facade Retention	Project-specific	Listed buildings, demolition behind facades	Preserves streetscape, modular design
Bridge Propping	Up to 1350 kNs	Bridge propping, facade, heavy-duty supports	Adjustable mechanical & hydraulics & heavy loads
Ground Excavation Propping	Up to 1350 kNs	Deep basements, retaining wall support	High capacity, hydraulic jacking adjustment options
Megashor Plus Towers	Up to 5000 kNs	Heavy structural loads, bridge works	Modular stacking, extreme load capacity
Alshor Propping	100–120 kNs	Internal works, heritage buildings	60% lighter than steel, no crane needed
Back-Propping Slimshor	Up to 150 kNs	Back-propping, needling systems & supports	Versatile, ligh-duty handling and modular design
Raking Supports	Project-specific	Push/pull lateral bracing	Bi-directional load resistance
Push / Pull Props	Up to 50 kNs	Push/pull bracing Temporary lateral restraint	Dual-action, rapid deployment
Superprop Titan	Up to 120 kNs	Heavy structural propping	High capacity, compact footprint and lightweight
Megashor Props	300 – 1000 kNs	Heavy Duty Propping, Push/pull lateral bracing and facade retention	High-load resistance, modular & hydraulic jacking adjustment

12 CONTACT US



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OUR SERVICES

- ✓ Temporary Bridge Propping, Lifting & Pre-loading
- ✓ Synchronised Lifting Systems ($\pm 1\text{mm}$ accuracy)
- ✓ Temporary Propping for all Supporting Applications
- ✓ Integrated Propping for Hydraulic Sliding, Skidding & Skating Systems
- ✓ Acrow, Aluminium, Superslim to Heavy Duty Megashor Plus Props
- ✓ Contractual Service + Equipment Hire & Sales

