



## European B7 | L7 Bolting Blanks

### European Material, Extensive UK Stockholding and In-House Manufacturing

Victory Fasteners supplies a comprehensive range of **European manufactured Grade B7 | L7 bolting**, supported by extensive UK stockholding, full material traceability, EN 10204 3.1 certification and Mill Test Certificates.

Our substantial inventory includes:

- Hexagon Head Bolt Blanks
- Hexagon Head Flange Bolt Blanks
- Socket Head Cap Screw Blanks
- Socket Head Countersunk Screw Blanks

Available across a diverse range of diameters and lengths, our bolt blank stock enables us to accommodate standard production requirements, larger-volume orders and highly specialised engineering projects.

Customers can purchase blanks for further machining within their own facility or ask Victory Fasteners to manufacture fully finished industrial fasteners and bespoke components in our in-house engineering shop.

By combining substantial stock availability with comprehensive machining capability, we can support planned production, maintenance programmes and urgent shutdown requirements with dependable quality and fast turnaround.

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# Why Buy B7|L7 Bolt Blanks from Victory Fasteners?

When sourcing bolt blanks for demanding industrial applications, material integrity, traceability and availability are essential.

Victory Fasteners provides a complete supply and manufacturing solution built around:

## **European Material**

Bolt blanks sourced from established European material supply routes, providing controlled material quality, detailed certification and dependable traceability.

## **Extensive UK Stockholding**

A comprehensive inventory of bolt blank styles, diameters and lengths helps reduce reliance on extended mill lead times.

## **32 HRC Maximum**

Material supplied to a maximum hardness of 32 HRC, supporting customer and project specifications where a controlled hardness limit is required.

## **EN 10204 3.1 Certification**

Inspection documentation confirms the reported chemical and mechanical test results associated with the supplied material batch.

## **Mill Test Certificates**

Mill documentation provides material grade, heat or cast identification, chemical composition and relevant mechanical test information.

## **In-House Engineering**

Stocked blanks can be supplied as they are or machined into bespoke industrial fasteners and engineered components.

## **Fast Turnaround**

Stock on the shelf, combined with in-house manufacturing, enables Victory Fasteners to respond quickly to planned and urgent requirements.

## **Complete Traceability**

Material identification and certification can be maintained from the original bolt blank through machining and final inspection.

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# Comprehensive Range of Industrial Fastener Blanks

Victory Fasteners maintains a broad range of bolting blanks designed to support different head styles, machining processes and finished fastener configurations.

## Hexagon Head Bolt Blanks

Hexagon Head Bolt Blanks provide a versatile starting point for manufacturing standard, modified and drawing-specific hexagon bolts.

They are suitable for further operations including:

- Thread rolling
- Single-point threading
- Turning
- Drilling
- Milling
- Shank modification
- Special end preparation
- Machining to customer drawings

Their familiar hexagon head configuration makes them suitable for a wide variety of industrial bolting applications.

## Hexagon Head Flange Bolt Blanks

Hexagon Head Flange Bolt Blanks incorporate a flange beneath the head, providing a larger bearing surface within the finished component.

They can be further engineered to produce bespoke flange bolts for applications requiring secure clamping, controlled load distribution or a drawing-specific head and shank arrangement.

## Socket Head Cap Screw Blanks

Socket Head Cap Screw Blanks provide the foundation for manufacturing high-strength socket products where a compact head profile and internal drive are required.

Victory Fasteners can supply these blanks for customers to complete within their own machine shops or undertake the required turning, threading and finishing processes in-house.

## Socket Head Countersunk Screw Blanks

Socket Head Countersunk Screw Blanks are intended for the manufacture of finished fasteners that sit flush with, or below, the surface of the assembled component.

They are suitable for drawing-specific engineering applications where head geometry, overall length, shank dimensions and thread specification must be closely controlled.

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# A Wide Range of Diameters & Lengths

Our bolt blank range is available in a diverse selection of sizes and lengths, enabling Victory Fasteners to support varied project and production requirements.

This flexibility is particularly valuable where customers require:

- Non-standard overall lengths
- Part-threaded fasteners
- Reduced shanks
- Special thread lengths
- Fine or coarse threads
- Modified head forms
- Drawing-specific dimensions
- Small batches
- High-volume requirements
- Urgent replacement components

Maintaining an extensive stock range allows suitable blanks to be selected close to the required finished dimensions. This can help reduce raw material waste, machining time and overall lead time.

Please contact our team with the required grade, blank type, diameter, length, quantity and certification requirements so that current stock availability can be confirmed.

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## European B7 | L7 Material

Victory Fasteners sources B7 | L7 bolting blanks produced from European material for customers who require dependable material provenance, documented test results and controlled traceability.

European material supply can provide:

- Documented steelmaking origin
- Controlled chemical composition
- Consistent mechanical properties
- Heat and cast identification
- Verified inspection documentation
- Material test certification
- Traceability through the supply chain
- Confidence before machining begins

Where pressure equipment or other regulated applications are involved, the appropriate material documentation can support the manufacturer's technical file, material assessment and conformity process. The suitability of the completed fastener must always be determined against the applicable drawing, standard, equipment category and service conditions. The European Pressure Equipment Directive places importance on conformity assessment and traceability throughout the relevant supply chain.

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## 32 HRC Maximum Hardness

Victory Fasteners can supply B7 | L7 material controlled to a maximum hardness of **32 HRC**, where required by the customer or project specification.

HRC refers to the Rockwell C hardness scale, commonly used for hardened steels. The test measures the material's resistance to indentation.

In general:

### Higher hardness can indicate:

- Greater resistance to indentation
- Increased wear resistance
- Higher strength within the appropriate material condition

### Lower hardness can contribute to:

- Greater ductility
- Improved toughness
- Better impact resistance
- Reduced susceptibility to certain cracking mechanisms

A 32 HRC maximum is often requested for projects where hardness control forms part of the material or environmental-service specification. However, hardness alone does not establish suitability for sour service, hydrogen exposure or any other specific environment.

The completed component must be evaluated against the relevant material standard, environmental standard, heat treatment, coating, stress level and customer specification.

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# EN 10204 3.1 Inspection Certification

EN 10204 3.1 certification provides specific inspection results associated with the supplied material.

Depending upon the material and mill documentation, the certificate may include:

- Material grade
- Heat or cast number
- Chemical analysis
- Tensile strength
- Yield strength
- Elongation
- Hardness
- Heat-treatment condition
- Impact-test results where applicable
- Product dimensions
- Standard or specification reference

The heat or cast number shown on the documentation provides the link between the physical material and the recorded test results.

This traceability is particularly important for:

- Pressure-related applications
- Oil and gas projects
- Petrochemical plant
- Power generation equipment
- Offshore engineering
- Safety-critical assemblies
- Customer quality audits
- Regulated supply chains

Certification requirements should be confirmed at the enquiry stage so that the correct documentation can be supplied with the material or finished component.

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# Mill Test Certificates

Mill Test Certificates provide evidence of the material characteristics reported by the producing mill.

They are used to verify that the material supplied corresponds with the specified grade and heat or cast.

Typical information can include:

- Producing mill
- Steel grade
- Heat or cast number
- Chemical composition
- Mechanical test results
- Heat-treatment details
- Material dimensions
- Applicable specification
- Inspection authorisation

For customers carrying out their own machining, Mill Test Certificates provide important material information before production begins.

For finished fasteners manufactured by Victory Fasteners, the material identification can be carried through the production process to support final certification and inspection records.

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# Supplied as Blanks or Fully Machined Components

Customers can purchase Victory Fasteners' bolt blanks in the form supplied, ready for further adaptation within their own engineering facility.

This provides flexibility for machine shops, fastener manufacturers, subcontract engineers and OEMs that require certified starting material but wish to control the final machining process themselves.

Alternatively, Victory Fasteners can engineer the blanks into complete components using its in-house manufacturing capabilities.

Processes can include:

- CNC turning
- Single-point threading
- Thread rolling
- Milling
- Drilling
- Broaching
- Shank reduction
- Length modification
- End preparation
- Component marking
- Inspection, Certification collation

This single-source approach reduces the need to coordinate separate material suppliers, machine shops and inspection providers.

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## Bespoke Fasteners Manufactured In-House

Victory Fasteners specialises in manufacturing non-standard and bespoke industrial fasteners to customer drawings and specifications.

Stocked B7 | L7 bolt blanks can be adapted to manufacture:

- Hexagon bolts
- Flange bolts
- Socket head cap screws
- Socket countersunk screws
- Stud bolts
- Double-ended studs
- Part-threaded bolts
- Reduced-shank fasteners
- Special threaded components
- Drawing-specific engineered parts

Our engineering team can work from customer drawings, dimensional specifications or clearly defined finished-component requirements. Manufacturing from stocked blanks can offer a considerable advantage where the finished fastener is non-standard but required more quickly than a completely new forging or raw-material production route would allow.

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# Fast Support for Shutdown & Maintenance

Unexpected plant downtime can place significant pressure on maintenance, procurement and engineering teams.

A machine, valve, flange or critical assembly may require replacement fasteners quickly, particularly during:

- Planned shutdowns
- Emergency shutdowns
- Plant maintenance
- Equipment failure
- Turnaround projects
- Repair programmes
- Production interruptions
- Urgent site requirements

Victory Fasteners combines stock availability with in-house machining to provide a responsive route from certified bolt blank to finished component.

Where suitable stock is available and the required manufacturing operations can be scheduled, this can significantly reduce the delay associated with sourcing material and machining through separate suppliers.

Every urgent requirement remains subject to technical review, stock confirmation, manufacturing capacity and the required inspection or certification process.

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## Supporting Oil & Gas Applications

Oil and gas projects often require fasteners manufactured from defined materials with controlled hardness, traceability and specific inspection documentation.

Victory Fasteners can support manufacturers, contractors and maintenance teams requiring B7| L7 bolting blanks for applications involving:

- Valves
- Flanges
- Pressure equipment
- Pipeline components
- Offshore assemblies
- Processing equipment
- Maintenance and shutdown work
- Bespoke bolting requirements

Material grade, coating, hardness, impact performance and certification must be specified according to the particular operating conditions and project requirements.

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# Supporting Petrochemical & Process Industries

Petrochemical and process plants rely on dependable, bolted connections across equipment operating under varied pressure, temperature and environmental conditions.

European B7 | L7 bolt blanks provide a traceable starting point for manufacturing fasteners used within:

- Refineries
- Chemical plants
- Process pipework
- Pressure vessels
- Heat exchangers
- Pumps
- Valves
- Flanged connections
- Maintenance assemblies

Victory Fasteners can supply blanks for customer machining or manufacture completed components to the required drawing and specification.

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## Supporting Power Generation

Power generation applications frequently demand high-strength fasteners supported by material certification and reliable dimensional control.

Victory Fasteners can support requirements relating to:

- Conventional power generation
- Energy infrastructure
- Turbine-related equipment
- Valves and pressure systems
- Heat exchangers
- Pipework assemblies
- Planned outages
- Maintenance projects
- Replacement fasteners
- Bespoke engineered components

Our stockholding and machining facilities provide a responsive solution for both scheduled projects and urgent maintenance requirements.

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# Quality, Inspection & Traceability

Traceability is maintained by linking the raw material documentation to the relevant heat or cast identification.

For finished components, appropriate production and inspection controls can be applied according to the order requirements.

Documentation may include, where specified and applicable:

- EN 10204 3.1 material certification
- Mill Test Certificates
- Certificates of Conformity
- Dimensional inspection records
- Material identification
- Heat or cast traceability
- Mechanical test information
- Impact-test information
- Customer-specific documentation

All required inspection and certification documents should be agreed before manufacture.

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# Technical Overview

| Specification    | Details                                                                              |
|------------------|--------------------------------------------------------------------------------------|
| Principal grades | Grade B7   L7                                                                        |
| Material family  | Chromium-molybdenum alloy steel                                                      |
| Material source  | European material                                                                    |
| Blank types      | Hexagon Head, Hexagon Head Flange, Socket Head Cap Screw and Socket Head Countersunk |
| Range            | Diverse selection of diameters and lengths                                           |
| Hardness         | 32 HRC maximum where specified                                                       |
| Certification    | EN 10204 3.1 available                                                               |
| Documentation    | Mill Test Certificates available                                                     |
| Traceability     | Heat and cast identification                                                         |
| Supply options   | Bolt blanks or fully machined components                                             |
| Manufacturing    | In-house precision engineering                                                       |
| Key sectors      | Oil and gas, petrochemical, power generation, offshore and process engineering       |
| Urgent support   | Planned maintenance and shutdown requirements                                        |

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## Why Choose Victory Fasteners?

Victory Fasteners offers more than access to certified bolt blanks.

Customers benefit from:

- **Comprehensive B7| L7 stockholding**
- **European sourced material**
- **Four principal bolt blank head styles**
- **Diverse choice of diameters and lengths**
- **32 HRC maximum material where specified**
- **EN 10204 3.1 certification**
- **Mill Test Certificates**
- **Heat and cast traceability**
- **Blanks supplied for customer machining**
- **In-house CNC machining**
- **Bespoke manufacturing to drawings**
- **Small and large batch capability**
- **Support for urgent shutdown requirements**
- **Experienced engineering and technical support**
- **Single-source supply from blank to completed fastener**

Whether the requirement is for certified bolt blanks, a modified component or a fully finished bespoke fastener, Victory Fasteners provides a dependable combination of stock, engineering capability and traceability.

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# Discuss Your B7|L7 Bolt Blank Requirements

Victory Fasteners supplies European B7| L7 bolt blanks to engineering companies, fastener manufacturers, OEMs, contractors and industrial operators throughout the UK and international markets.

Contact our team to discuss:

- Required material grade
- Blank head type
- Diameter and length
- Quantity
- Hardness requirements
- Certification
- Impact testing
- Machining operations
- Finished dimensions
- Delivery timescale

**Contact Victory Fasteners today to request stock availability, technical support or a quotation for European B7| L7 bolt blanks and bespoke industrial fasteners.**

**Contact Number: 01902 544480**

**Email Address: [sales@victoryfasteners.com](mailto:sales@victoryfasteners.com)**