



# PRODUCT DATASHEET



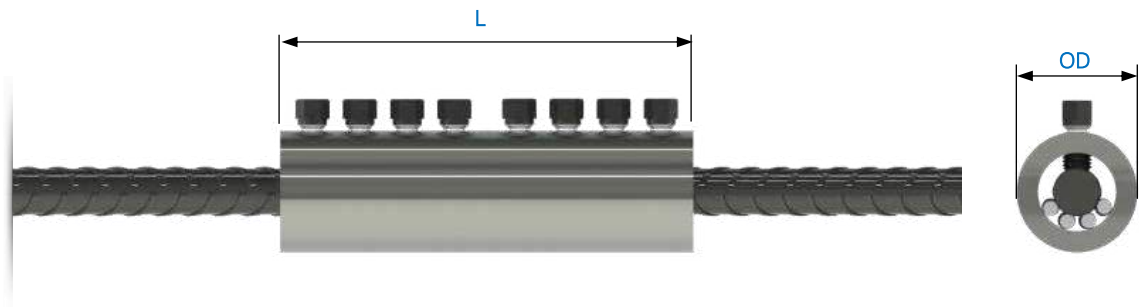
**Dextra**

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# Coupler Dimensions

Unitec is a shear-bolt coupling system for the connection of concrete reinforcement bars from Ø12 to 50 mm.



| Model      | Rebar Size |    |     |        | Product Code | Approximate dimension (mm) |     | Screw size | Total number of screws | Packing Qty. |
|------------|------------|----|-----|--------|--------------|----------------------------|-----|------------|------------------------|--------------|
|            | Metric     | UK | USA | Canada |              | OD                         | L   |            |                        |              |
| US#4-12    | 12,12.5    | 12 | #4  |        | FPUS0400002  | 48                         | 140 | M12        | 6                      | 200          |
| US#5-14-16 | 14,16      | 16 | #5  | 15M    | FPUS0500002  | 48                         | 140 | M12        | 6                      |              |
| US#6-20    | 18,20      |    | #6  | 20M    | FPUS0600002  | 52                         | 200 | M12        | 8                      | 100          |
| US20UK     |            | 20 |     |        | FPUS0700002  | 59                         | 180 | M16        | 6                      |              |
| US#7-22    | 22         |    | #7  |        | FPUS0700003  | 59                         | 240 | M16        | 8                      | 50           |
| US#8-25    | 24,25,26   | 25 | #8  | 25M    | FPUS0800002  | 62                         | 240 | M16        | 8                      |              |
| US#9-28    | 28         |    | #9  |        | FPUS0900002  | 76                         | 220 | M20        | 6                      |              |
| US#10-32   | 30,32      | 32 | #10 | 30M    | FPUS1000002  | 83                         | 280 | M20        | 8                      | 20           |
| US#11-36   | 34,36      |    | #11 | 35M    | FPUS1100002  | 89                         | 360 | M20        | 10                     |              |
| US#12-40   | 38,40      | 40 | #12 |        | FPUS1200002  | 95                         | 425 | M20        | 12                     |              |
| US#14-43   | 43         |    | #14 | 45M    | FPUS1400002  | 95                         | 555 | M20        | 16                     |              |
| US50       | 50         |    |     |        | FPUS5000002  | 107                        | 620 | M24        | 14                     | 10           |

Table 1: Dimensions of Unitec standard splices

# Transition splices

Transition splicing between two different rebar diameters is also possible using the following models:

| Model    | Large bar size |    |     |        | Small bar size |    |        |        | Product code | Packing Qty. |
|----------|----------------|----|-----|--------|----------------|----|--------|--------|--------------|--------------|
|          | Metric         | UK | USA | Canada | Metric         | UK | USA    | Canada |              |              |
| US#8-25  | 24,25,26       | 25 | #8  | 25M    | 22             | -  | #6, #7 | 20M    | FPUS0800002  | 50           |
| US#10-32 | 30,32          | 32 | #10 | 30M    | 24,25,26       | 25 | #8     | 25M    | FPUS1000002  | 50           |
|          |                |    |     |        | 28             | -  | #9     |        |              |              |

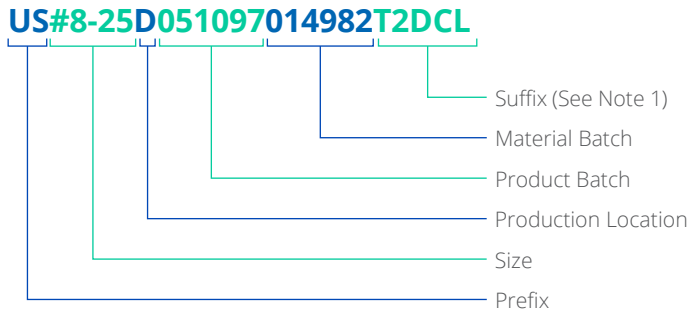
Table 2: Unitec transition splice options

# Identification & Traceability

## Coupler Identification

All sleeves are marked with the following symbols that guarantee to fully trace back each of the production batches and raw material lots. Sleeve studs are marked on their face, either outside or inside the sleeve.

### Marking on coupler circumference:



*Note 1: Suffix availability can vary depending on the sleeve model and size.*

Full traceability of the production batches and raw materials is guaranteed for all load bearing components. The retention period of our quality records is 12 years.

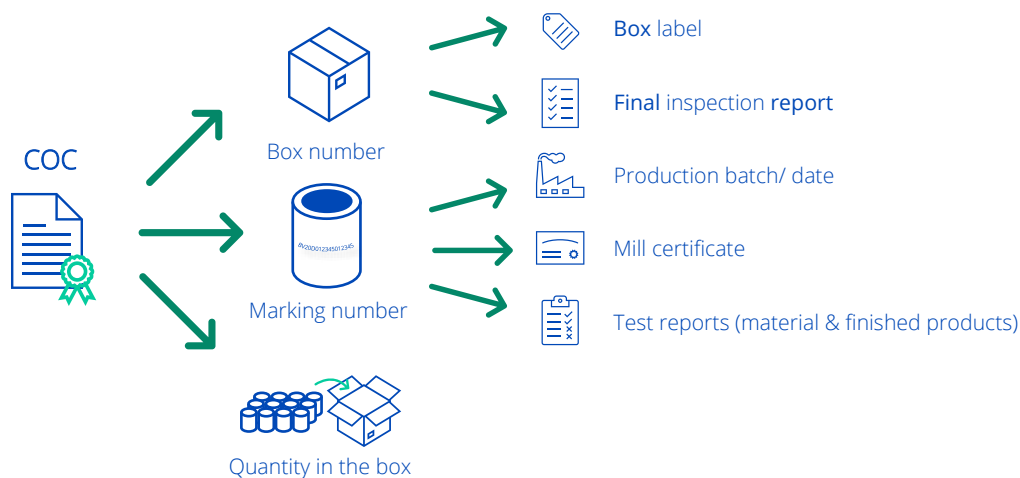


## Certificate of Compliance

Each box of Unitec couplers delivered to our customers comes with a type 3.1 certificate of compliance (COC) as per EN 10204 allowing full traceability of the product.

Each COC indicates the following information:

- **Product Identification** → Product code and product description
- **Box number** → Traceability of the COC to the corresponding box label and the final inspection report of the coupler
- **Marking number** → Identifying the coupler model, production batch and material batch for traceability of the production date, material test reports and mill certificates.
- **Quantity per box** → Showing the quantity per coupler marking inside the box.



## How to order

For assistance in ordering the appropriate Dextra sleeve for your construction needs, please reach out to your local Dextra sales representative or office. You can find the contact details and addresses of our offices on the back cover of this document.

When placing your orders, kindly provide the relevant product code along with the desired quantity. Please note that the minimum order quantities follow the packing quantity indicated in the product data tables and can only be ordered in multiples of the indicated quantity.

## Delivery & Storage

Typically, our products are packaged in sturdy wooden crates that can be easily lifted using a forklift. For accessories, they are packed in carton boxes.

The usual international customs code for mechanical couplers and anchor plates is 73.08.90.90.00-7 ("Parts of structures, of iron or steel"). However, national preferences may be followed.

To ensure the safety and integrity of the products, it is important to store them under a roof and protect them from exposure to the elements.

For safety reasons the wooden boxes should not be stacked higher than 2 meters, which is equivalent to 2 to 4 boxes depending on the box type. In case more stringent national regulations apply, they shall be always followed.

## Equipment & Assembly

Reinforcing bars are connected through the Unitec sleeve by usage of either pneumatic impact wrench or electric impact wrench in accordance with the technical requirements for the tightening of the shear bolts specified in the Unitec assembly instructions. The impact wrench can be used at installation site.

For further information related to the recommended impact wrench models and technical requirements please contact your local Dextra sales representative or office.

Assembly instructions provided by Dextra must be followed.

## Installation

Dextra products shall be install and used only as indicated in Dextra's documentation and training materials. A forementioned documents are

service representative. Improper installation, misuse, misapplication, or other failure to completely follow Dextra's instructions and warnings may cause product malfunction, property damage, serious bodily injury, and death. Dextra cannot accept any liability in respect thereof.

## Product Approvals

| Country                                                                            | Agency                                                                                                                                                           | Certificate N°   |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|    | <br>IAPMO UES ER-702                                                            | IAPMO UES ER-702 |
|    | <br>UKAS                                                                        | TA1-A&B 5046     |
|    | <br>UKAS                                                                        | TA1-C 5080       |
|   | <br>AFCAB<br>DISPOSITIFS DE RABOITAGE<br>OU D'ANCRAGE D'ARMATURES<br>DU BÉTON | N° M10/013       |
|  | <br>DCL<br>PRODUCT CONFORMITY                                                 | CL17020493       |
|  |                                                                               | 003-01/176-2023  |
|  | <br>NSW<br>Transport<br>Roads & Maritime<br>Services                          | N° SF2016/201988 |
|  | <br>Deutsches<br>Institut<br>für<br>Bautechnik                                | N° Z-1.5-288     |

Table 3: Product approval certificates

Note: Not all coupler types and sizes are applicable to the national approvals shown. For details, please refer to the specific national

## Quality Assurance

Unitec® couplers are manufactured according to strict technical specifications and under a production process that has been certified in accordance with ISO 9001 quality management system standard and the ASME Boiler and Pressure Vessel Code.

They are warranted to be free from manufacturing defects and to perform in accordance with the manufacturer's specifications providing that they are installed in accordance with the manufacturer's instructions.

| Agency                                                                                                                                      | Certificate N°                         |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <br>The American<br>Society of<br>Mechanical<br>Engineers | QSC-706                                |
| <br>CERTIFIED<br>ISO 9001<br>ISO 19443                    | Bureau Veritas<br>TH021366<br>FR093198 |
| <br>UKAS<br>1086                                          | UK CARES 1086<br>UK CARES<br>1086      |

Table 4: Quality Assurance

## Sustainability

Dextra acknowledges the significance of offering environmentally sustainable products to the market, our commitment spans from responsibly sourcing of raw materials to the manufacturing process and onward to the delivery to our customers. In alignment with our commitment to sustainability, our environmental management system holds certification in accordance with ISO 14001:2015.

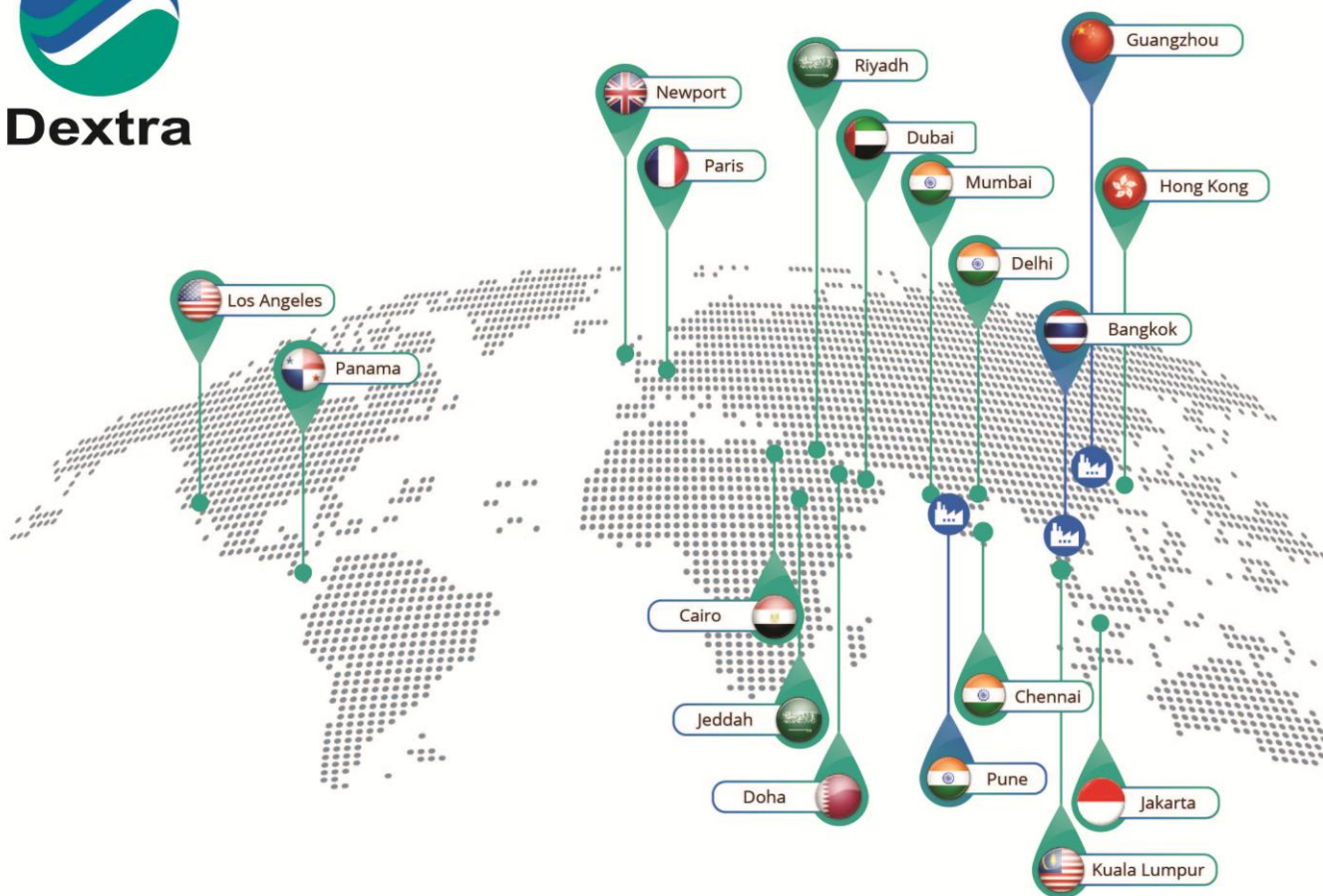
| Agency                                                                                                         | Certificate N°             | Plant (Location)                      |
|----------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <br>CERTIFIED<br>ISO 14001 | Bureau Veritas<br>TH020984 | Dextra<br>Manufacturing<br>(Thailand) |

Table 5: Environmental certifications

## Disclaimer

Products described in this document are warranted to be free from manufacturing defects and to perform in accordance with the manufacturer's specifications providing that they are installed in accordance with our written instructions.

As a result of our continuous thrive for technological improvement, Dextra reserves its right to modify the contents of this specification sheet at any time without prior notice. In particular, various sources of raw materials may lead to variations in outside diameters. The information provided on this document, and any outside information linked to, is for guidance only.



Commercial presence  
in more than **55 countries**



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reliable  
connections



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