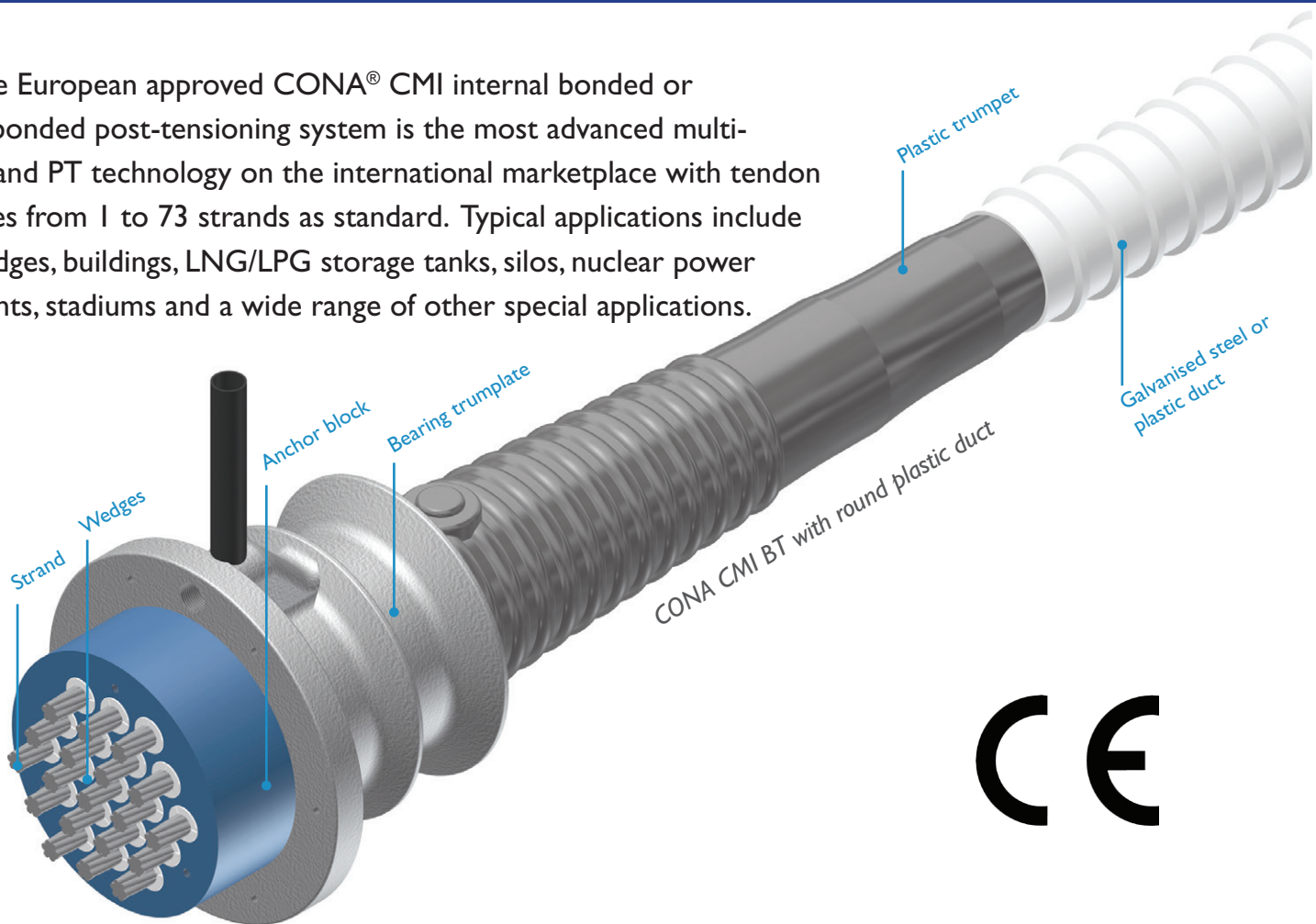


# BBR VT CONA CMI - Internal

Internal bonded or unbonded post-tensioning system



The European approved CONA® CMI internal bonded or unbonded post-tensioning system is the most advanced multi-strand PT technology on the international marketplace with tendon sizes from 1 to 73 strands as standard. Typical applications include bridges, buildings, LNG/LPG storage tanks, silos, nuclear power plants, stadiums and a wide range of other special applications.



LRT Extension (Malaysia)

# BBR VT CONA CMI - Internal

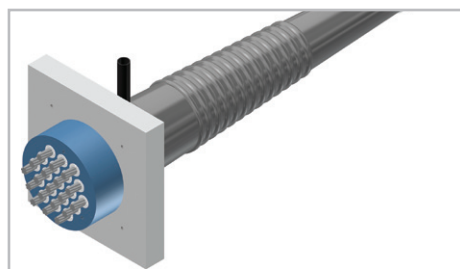
Internal bonded or unbonded post-tensioning system



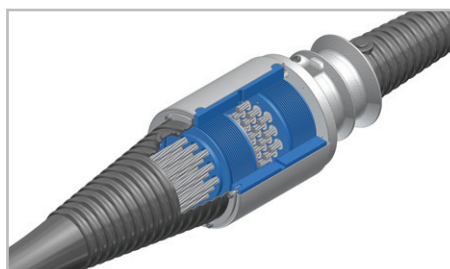
## Features

- Standard tendon sizes from 1 to 73 strands, larger sizes on request
- Widest range of tendon sizes with the largest tendon forces available on the international marketplace
- Optimised for 15.7mm diameter, 1,860 MPa strand
- The most compact & light-weight system available utilizing an advanced proprietary load transfer element for very small tendon centre spacings and concrete edge distances at the anchorages
- Application of full post-tensioning force at very low concrete strengths ( $f_{cm,0} = 19/23$  MPa)
- Fixed and movable couplers for joining tendons
- Corrugated or smooth round tendon duct utilizing either galvanized steel or plastic material
- For bonded applications the ducts are filled with BBR grout
- For unbonded applications the ducts can be injected with grease/wax or circulating dry air. Greased and HDPE sheathed monostrands in grout filled ducts are also possible
- Superior cryogenic performance ideal for LNG tank applications
- Restressable & exchangeable tendons perfectly suited for long-term inspection and maintenance
- Fully encapsulated and electrically isolated tendons offer the highest level of corrosion protection possible
- European Technical Approval and CE marking

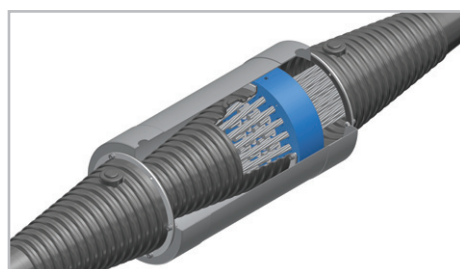
## Compatible technologies



CONA CMI SP



Coupler H (fixed & movable)



Coupler K (fixed & movable)



Plastic Duct (round)

## Available tendon sizes

Type of strands\*

| in              | 05    | 06    |
|-----------------|-------|-------|
| mm              | 12.9  | 15.7  |
| mm <sup>2</sup> | 100   | 150   |
| MPa             | 1,860 | 1,860 |

Tendon sizes

| Strands | Characteristic ultimate resistance of tendon [kN] |        |
|---------|---|--------|
| 01      | 186   | 279    |
| 02      | 372   | 558    |
| 03      | 558   | 837    |
| 04      | 744   | 1,116  |
| 05      | 930   | 1,395  |
| 06      | 1,116   | 1,674  |
| 07      | 1,302   | 1,953  |
| 08      | 1,488   | 2,232  |
| 09      | 1,674   | 2,511  |
| 12      | 2,232   | 3,348  |
| 13      | 2,418   | 3,627  |
| 15      | 2,790   | 4,185  |
| 16      | 2,976   | 4,464  |
| 19      | 3,534   | 5,301  |
| 22      | 4,092   | 6,138  |
| 24      | 4,464   | 6,696  |
| 25      | 4,650   | 6,975  |
| 27      | 5,022   | 7,533  |
| 31      | 5,766   | 8,649  |
| 37      | 6,882   | 10,323 |
| 42      | 7,812   | 11,718 |
| 43      | 7,998   | 11,997 |
| 48      | 8,928   | 13,392 |
| 55      | 10,230  | 15,345 |
| 61      | 11,346  | 17,019 |
| 69      | 12,834  | 19,251 |
| 73      | 13,578  | 20,367 |

\* 12.5mm and 15.3mm diameter strand, and 1,770 MPa tensile strength strand is also available

