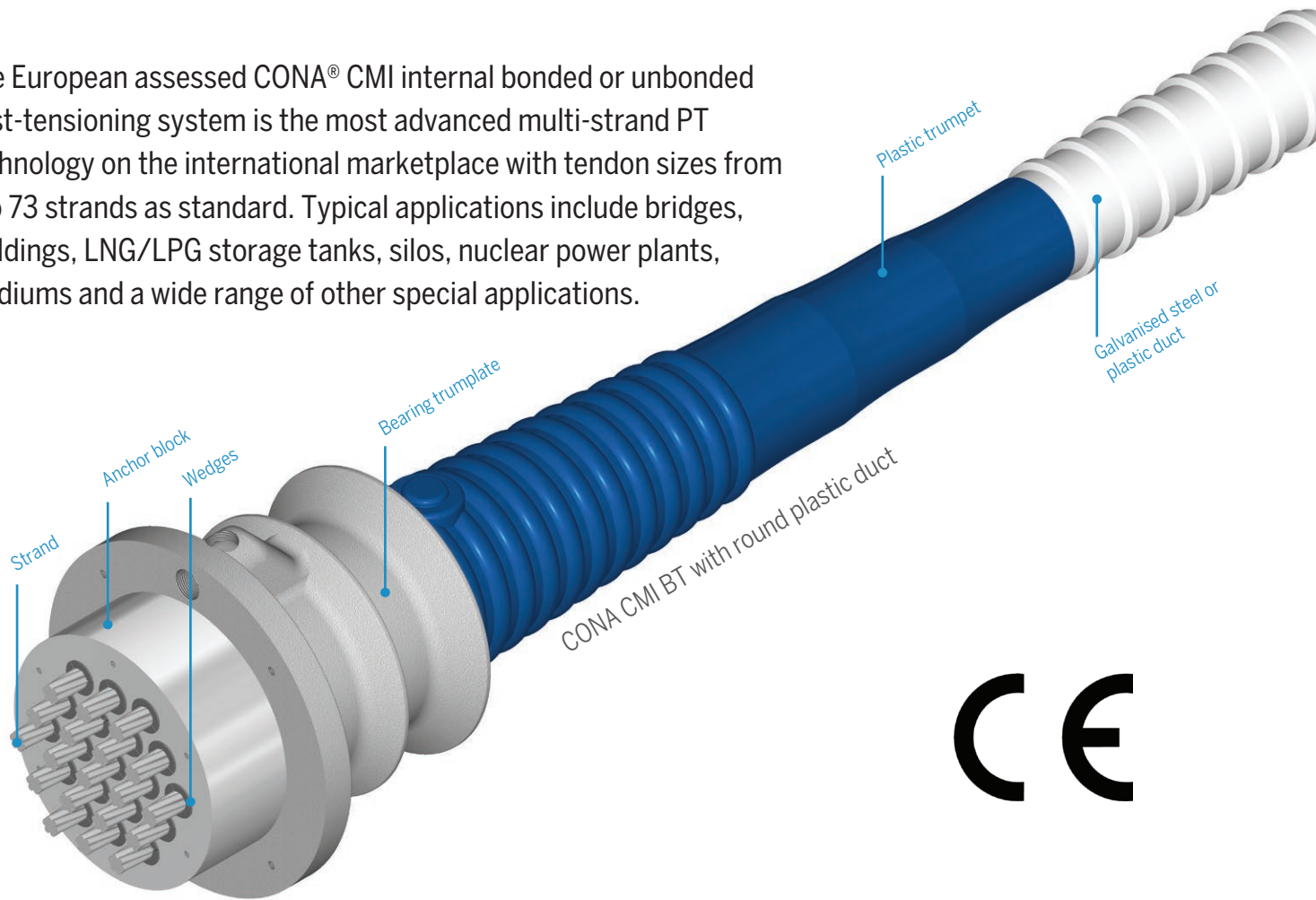


BBR VT CONA CMI - Internal

Internal bonded or unbonded post-tensioning system



The European assessed 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.



CE



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 15.7 mm 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 Assessment and CE marking

Available tendon sizes

Type of strands*

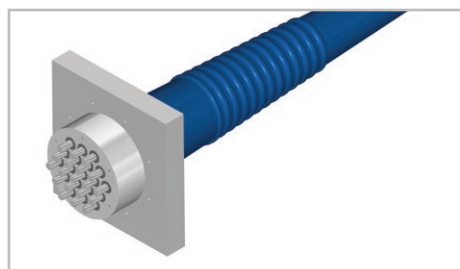
in	05	06
mm	12.9	15.7
mm ²	100	150
MPa	1,860	1,860

Tendon sizes

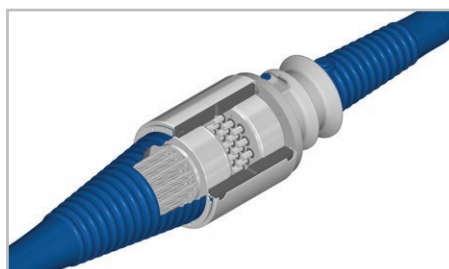
Strands	Characteristic ultimate resistance of tendon [kN]	
01	186	279
02	372	558
03	558	837
04	744	1,116
05	930	1,395
06	1,116	1,674
07	1,302	1,953
08	1,488	2,232
09	1,674	2,511
12	2,232	3,348
13	2,418	3,627
15	2,790	4,185
16	2,976	4,464
19	3,534	5,301
22	4,092	6,138
24	4,464	6,696
25	4,650	6,975
27	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

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

Compatible technologies



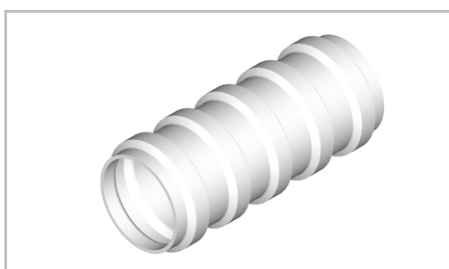
CONA CMI SP



Coupler H (fixed & movable)



Coupler K (fixed & movable)



Plastic Duct (round)

