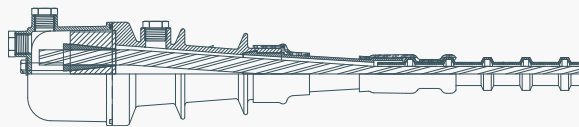

04

SYSTEM PROPERTIES AND DIMENSIONS

An overlook of all the properties
and dimensions
listed in tables for each system.



MAIN FEATURES OF MULTI STRAND TENDONS

Strand diameter 0.6''

Nominal cross section area 0.217 in.²

Nominal mass 740 lb/1000ft

Breaking strength 58.6 kips

| STRAND NO. | | 4 | 7 | 9 | 12 | 15 | 19 | 22 | 27 | 31 | 37 |
|-------------------------------------|---------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Nominal cross section area of steel | [in. ²] | 0.87 | 1.52 | 1.95 | 2.60 | 3.26 | 4.12 | 4.77 | 5.86 | 6.73 | 8.03 |
| | [mm ²] | 560 | 980 | 1260 | 1680 | 2100 | 2660 | 3080 | 3780 | 4340 | 5180 |
| Nominal mass of steel | [lb/1000ft] | 2960 | 5180 | 6660 | 8880 | 11100 | 14060 | 16280 | 19980 | 22940 | 27380 |
| | [Kg/m] | 4.4 | 7.7 | 9.9 | 13.2 | 16.5 | 20.9 | 24.2 | 29.7 | 34.1 | 40.7 |
| Minimum resisting force of tendom | [kips] | 234.4 | 410.2 | 527.4 | 703.2 | 879 | 1113.4 | 1289.2 | 1582.2 | 1816.6 | 2168.2 |
| | [kN] | 1044 | 1827 | 2349 | 3132 | 3915 | 4959 | 5742 | 7047 | 8091 | 9657 |

Strand diameter 0.62''

Nominal cross section area 0.231 in.²

Nominal mass 780 lb/1000ft

Breaking strength 62.8 kips

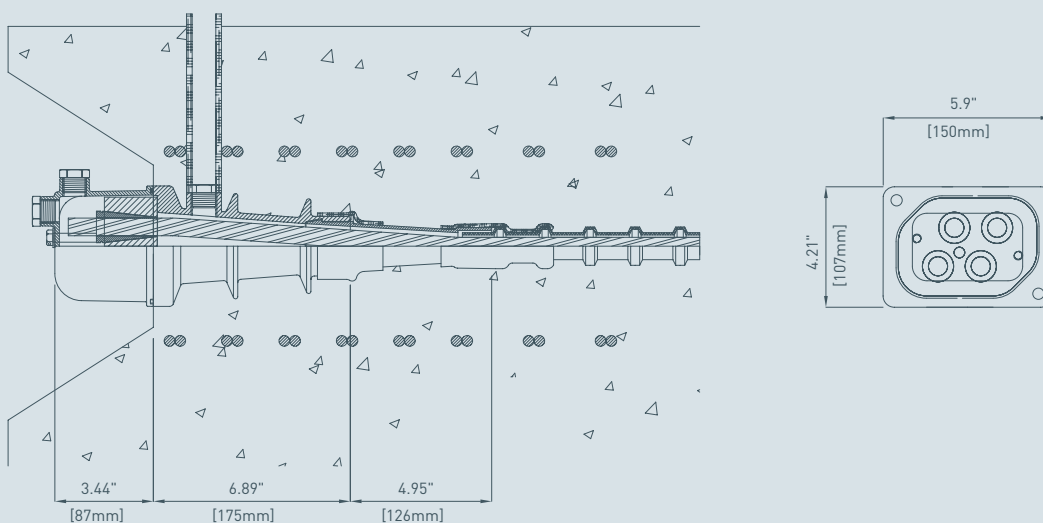
| STRAND NO. | | 4 | 7 | 9 | 12 | 15 | 19 | 22 | 27 | 31 | 37 |
|-------------------------------------|---------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Nominal cross section area of steel | [in. ²] | 0.92 | 1.62 | 2.08 | 2.77 | 3.47 | 4.39 | 5.08 | 6.24 | 7.16 | 8.55 |
| | [mm ²] | 600 | 1050 | 1350 | 1800 | 2250 | 2850 | 3300 | 4050 | 4650 | 5550 |
| Nominal mass of steel | [lb/1000ft] | 3120 | 5460 | 7020 | 9360 | 11700 | 14820 | 17160 | 21060 | 24180 | 28860 |
| | [Kg/m] | 4.8 | 8.4 | 10.8 | 14.4 | 18 | 22.8 | 26.4 | 32.4 | 37.2 | 44.4 |
| Minimum resisting force of tendom | [kips] | 251.2 | 439.6 | 565.2 | 753.6 | 942 | 1193.2 | 1381.6 | 1695.6 | 1946.8 | 2323.6 |
| | [kN] | 1116 | 1953 | 2511 | 3348 | 4185 | 5301 | 6138 | 7533 | 8649 | 10323 |

Steel strand properties according to ASTM A416.

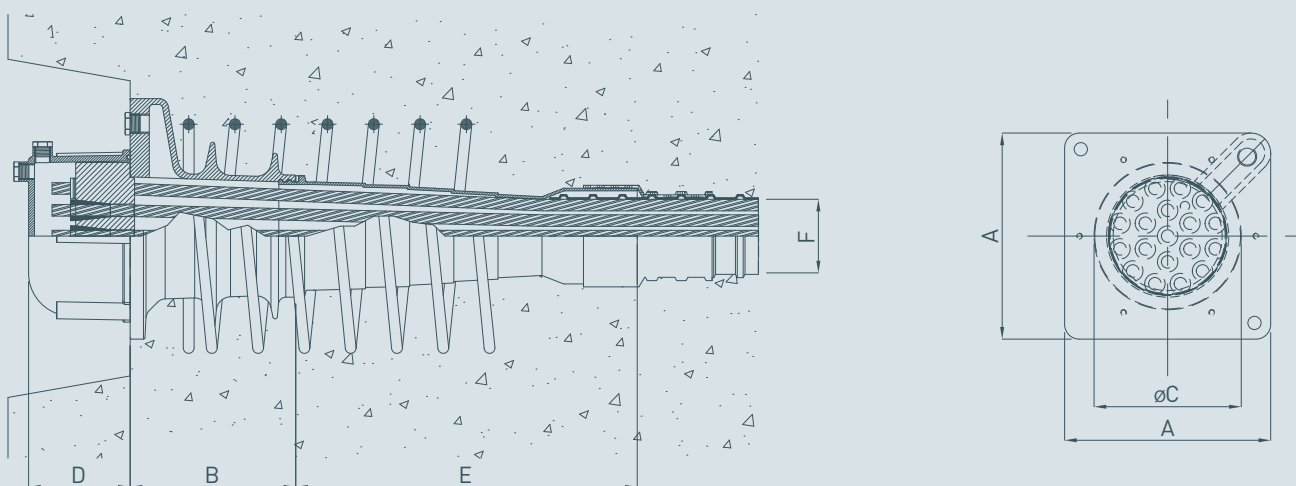
The maximum pre-stressing force to be applied on the tendon is specified in the national standards and regulations in force in the place of use.

MULTI STRAND POST TENSIONING SYSTEMS

APTS SYSTEM



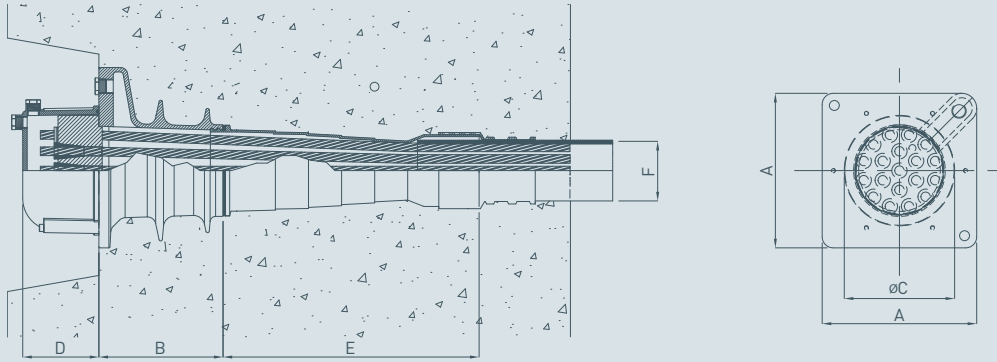
AMTS SYSTEM



| AMTS SYSTEM SIZE | | 7 | 12 | 15 | 19 | 27 | 31 | 37 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | [in.] | 7.09 | 8.66 | 9.84 | 11.02 | 12.80 | 13.78 | 15.75 |
| | [mm] | 180 | 220 | 250 | 280 | 325 | 350 | 400 |
| B | [in.] | 4.72 | 7.48 | 8.19 | 8.86 | 9.84 | 11.81 | 14.17 |
| | [mm] | 120 | 190 | 208 | 225 | 250 | 300 | 360 |
| C | [in.] | 4.92 | 6.30 | 6.93 | 7.87 | 9.84 | 10.63 | 11.02 |
| | [mm] | 125 | 160 | 176 | 200 | 250 | 270 | 280 |
| D | [in.] | 4.02 | 4.76 | 5.24 | 5.43 | 6.57 | 6.81 | 7.01 |
| | [mm] | 102 | 121 | 133 | 138 | 167 | 173 | 178 |
| E | [in.] | 15.75 | 16.73 | 17.32 | 18.27 | 20.94 | 28.15 | 29.29 |
| | [mm] | 400 | 425 | 440 | 464 | 532 | 715 | 744 |
| F (int) * | [in.] | 2.32 | 2.99 | 3.35 | 3.94 | 4.53 | 5.12 | 5.12 |
| | [mm] | 59 | 76 | 85 | 100 | 115 | 130 | 130 |

* dimensions referring to corrugated plastic ducts, to be used with protection level PL-2 and PL-3, as per PTI/ ASBI M50 spec. Dimensions given can be increased in case of need.

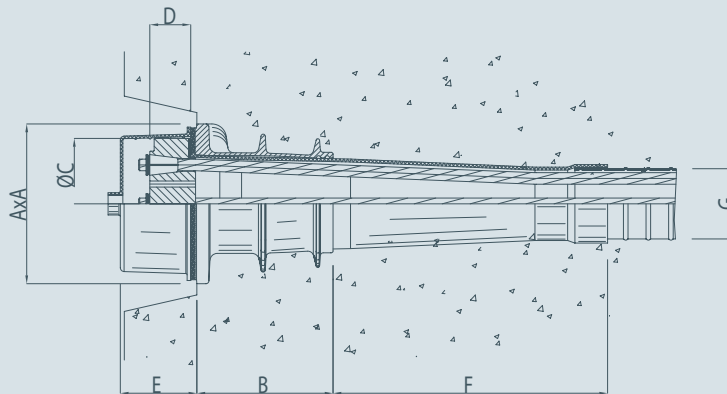
AMTS EXTERNAL SYSTEM



| AMTS SYSTEM SIZE | | 7 | 12 | 15 | 19 | 27 | 31 | 37 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | [in.] | 7.09 | 8.66 | 9.84 | 11.02 | 12.80 | 13.78 | 15.75 |
| | [mm] | 180 | 220 | 250 | 280 | 325 | 350 | 400 |
| B | [in.] | 4.72 | 7.48 | 8.19 | 8.86 | 9.84 | 11.81 | 14.17 |
| | [mm] | 120 | 190 | 208 | 225 | 250 | 300 | 360 |
| C | [in.] | 4.92 | 6.30 | 6.93 | 7.87 | 9.84 | 10.63 | 11.02 |
| | [mm] | 125 | 160 | 176 | 200 | 250 | 270 | 280 |
| D | [in.] | 4.02 | 4.76 | 5.24 | 5.43 | 6.57 | 6.81 | 7.01 |
| | [mm] | 102 | 121 | 133 | 138 | 167 | 173 | 178 |
| E | [in.] | 15.75 | 16.73 | 17.32 | 18.27 | 20.94 | 28.15 | 29.29 |
| | [mm] | 400 | 425 | 440 | 464 | 532 | 715 | 744 |
| F (ext) * | [in.] | 3.0 | 3.5 | 4.3 | 4.3 | 4.9 | 5.5 | 6.3 |
| | [mm] | 75 | 90 | 110 | 110 | 125 | 140 | 160 |

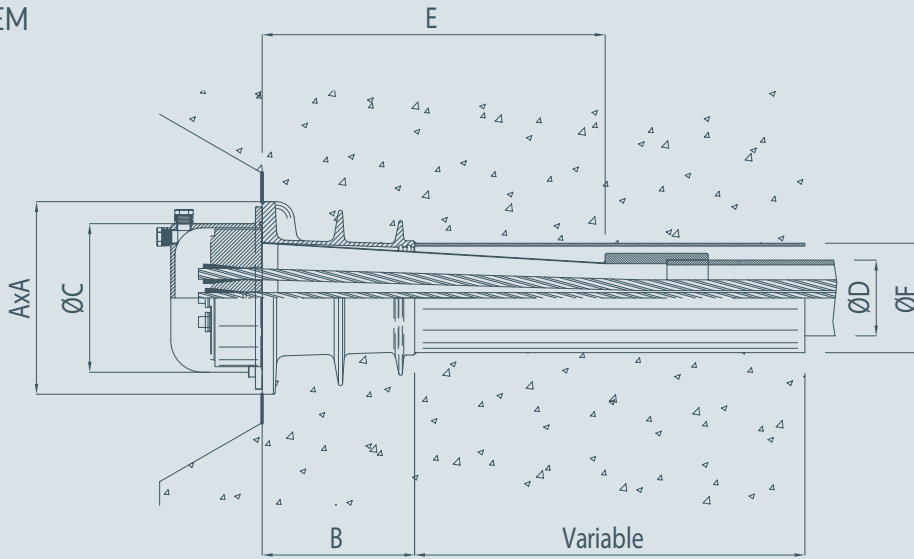
* dimensions referring to smooth plastic ducts. Dimensions given can be increased in case of need.

MTAID SYSTEM



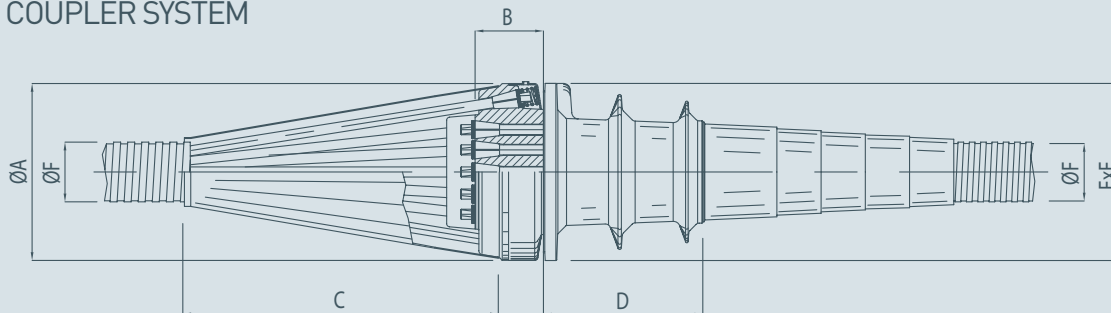
| MTAID SYSTEM SIZE | | 4 | 7 | 9 | 12 | 15 | 19 | 22 | 27 | 31 | 37 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | [in.] | 5.91 | 7.09 | 7.87 | 8.66 | 9.84 | 11.02 | 11.81 | 12.80 | 13.78 | 15.75 |
| | [mm] | 150 | 180 | 200 | 220 | 250 | 280 | 300 | 325 | 350 | 400 |
| B | [in.] | 3.94 | 4.72 | 7.09 | 7.48 | 8.19 | 8.86 | 9.45 | 9.84 | 11.81 | 14.17 |
| | [mm] | 100 | 120 | 180 | 190 | 208 | 225 | 240 | 250 | 300 | 360 |
| C | [in.] | 4.33 | 5.31 | 6.30 | 7.09 | 7.87 | 8.66 | 9.84 | 10.63 | 11.22 | 12.01 |
| | [mm] | 110 | 135 | 160 | 180 | 200 | 220 | 250 | 270 | 285 | 305 |
| D | [in.] | 1.77 | 1.93 | 2.05 | 2.44 | 2.72 | 2.91 | 3.15 | 3.43 | 3.58 | 3.78 |
| | [mm] | 45 | 49 | 52 | 62 | 69 | 74 | 80 | 87 | 91 | 96 |
| E | [in.] | 3.54 | 3.54 | 3.54 | 3.54 | 3.74 | 3.94 | 4.33 | 4.53 | 4.92 | 5.31 |
| | [mm] | 90 | 90 | 90 | 90 | 95 | 100 | 110 | 115 | 125 | 135 |
| F | [in.] | 15.35 | 22.24 | 19.69 | 19.88 | 15.04 | 22.05 | 19.29 | 24.21 | 24.02 | 31.30 |
| | [mm] | 390 | 565 | 500 | 505 | 382 | 560 | 490 | 615 | 610 | 795 |
| G | [in.] | 1.89 | 2.32 | 2.99 | 3.35 | 3.94 | 3.94 | 4.53 | 4.53 | 5.12 | 5.12 |
| | [mm] | 48 | 59 | 76 | 85 | 100 | 100 | 115 | 115 | 130 | 130 |

MTAIE SYSTEM



| MTAIE SYSTEM SIZE | | 4 | 7 | 9 | 12 | 15 | 19 | 22 | 27 | 31 | 37 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | [in.] | 5.91 | 7.09 | 7.87 | 8.66 | 9.84 | 11.02 | 11.81 | 12.80 | 13.78 | 15.75 |
| | [mm] | 150 | 180 | 200 | 220 | 250 | 280 | 300 | 325 | 350 | 400 |
| B | [in.] | 3.94 | 4.72 | 7.09 | 7.48 | 8.19 | 8.86 | 9.45 | 9.84 | 11.81 | 14.96 |
| | [mm] | 100 | 120 | 180 | 190 | 208 | 225 | 240 | 250 | 300 | 380 |
| C | [in.] | 5.31 | 6.30 | 6.97 | 7.68 | 8.27 | 9.65 | 10.43 | 11.61 | 12.99 | 12.99 |
| | [mm] | 135 | 160 | 177 | 195 | 210 | 245 | 265 | 295 | 330 | 330 |
| D | [in.] | 2.48 | 2.95 | 3.54 | 4.33 | 4.33 | 4.92 | 4.92 | 5.51 | 6.30 | 6.30 |
| | [mm] | 63 | 75 | 90 | 110 | 110 | 125 | 125 | 140 | 160 | 160 |
| E | [in.] | 12.20 | 14.17 | 16.93 | 17.72 | 20.47 | 23.62 | 25.98 | 27.56 | 29.53 | 31.50 |
| | [mm] | 310 | 360 | 430 | 450 | 520 | 600 | 660 | 700 | 750 | 800 |
| F | [in.] | 3.15 | 4.02 | 4.72 | 5.51 | 5.71 | 6.26 | 7.63 | 7.63 | 8.62 | 9.02 |
| | [mm] | 80 | 102 | 120 | 140 | 145 | 159 | 193.7 | 193.7 | 219 | 229 |

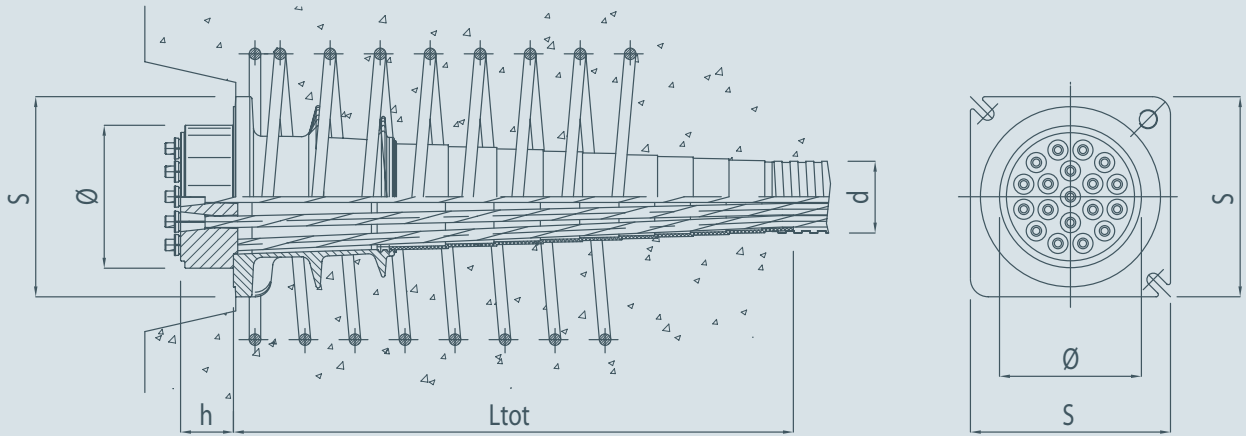
MTG COUPLER SYSTEM



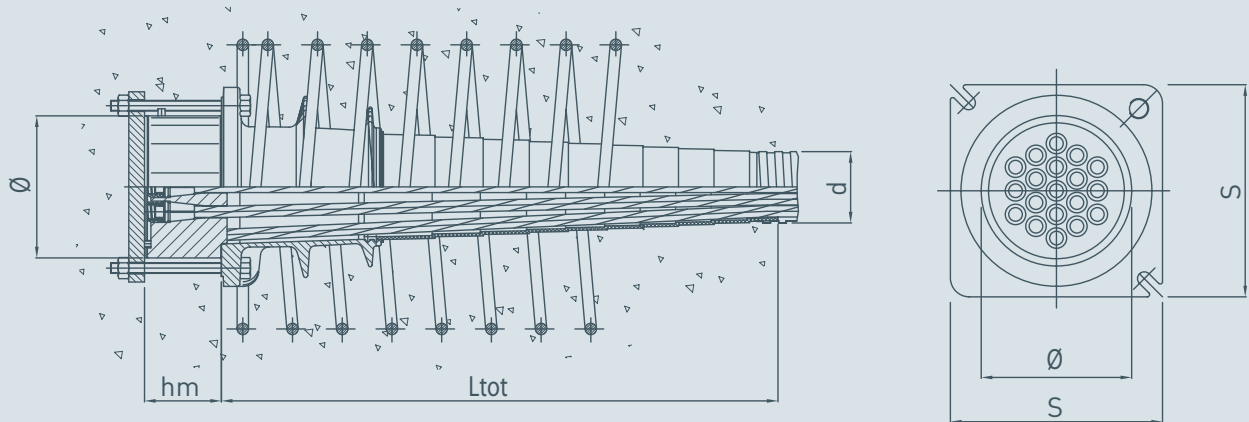
| MTG SYSTEM SIZE | | 4 | 7 | 9 | 12 | 15 | 19 | 22 | 27 | 31 | 37 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | [in.] | 7.28 | 8.46 | 9.06 | 9.76 | 10.43 | 11.02 | 13.39 | 13.39 | 15.35 | 16.93 |
| | [mm] | 185 | 215 | 230 | 248 | 265 | 280 | 340 | 340 | 390 | 430 |
| B | [in.] | 4.33 | 4.33 | 4.33 | 4.33 | 4.53 | 4.92 | 5.12 | 5.51 | 5.51 | 5.91 |
| | [mm] | 110 | 110 | 110 | 110 | 115 | 125 | 130 | 140 | 140 | 150 |
| C | [in.] | 12.99 | 14.96 | 15.75 | 16.93 | 18.11 | 18.11 | 23.62 | 23.62 | 28.74 | 32.09 |
| | [mm] | 330 | 380 | 400 | 430 | 460 | 460 | 600 | 600 | 730 | 815 |
| D | [in.] | 3.94 | 4.72 | 7.09 | 7.48 | 8.19 | 8.86 | 9.45 | 9.84 | 11.81 | 14.17 |
| | [mm] | 100 | 120 | 180 | 190 | 208 | 225 | 240 | 250 | 300 | 360 |
| E | [in.] | 5.91 | 7.09 | 7.87 | 8.66 | 9.84 | 11.02 | 11.81 | 12.80 | 14.57 | 15.75 |
| | [mm] | 150 | 180 | 200 | 220 | 250 | 280 | 300 | 325 | 370 | 400 |
| F (int)* | [in.] | 1.77 | 2.44 | 2.83 | 3.15 | 3.35 | 3.74 | 3.94 | 4.33 | 4.53 | 5.12 |
| | [mm] | 45 | 62 | 72 | 80 | 85 | 95 | 100 | 110 | 115 | 130 |

* dimensions referring to metal sheath ducts. Corrugated plastic ducts can also be used.

MTAI SYSTEM



MTAIM SYSTEM



| MTAI/MTAIM SYSTEM SIZE | | 4 | 7 | 9 | 12 | 15 | 19 | 22 | 27 | 31 | 37 | 42 | 55 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Ltot | [in.] | 18.70 | 20.91 | 27.09 | 27.87 | 28.98 | 30.83 | 32.40 | 33.39 | 39.72 | 43.58 | 52.56 | 54.53 |
| | [mm] | 475 | 531 | 688 | 708 | 736 | 783 | 823 | 848 | 1009 | 1107 | 1335 | 1385 |
| S | [in.] | 5.91 | 7.09 | 7.87 | 8.66 | 9.84 | 11.02 | 11.81 | 12.80 | 13.78 | 15.75 | 18.70 | 18.70 |
| | [mm] | 150 | 180 | 200 | 220 | 250 | 280 | 300 | 325 | 350 | 400 | 475 | 475 |
| Ø | [in.] | 4.13 | 4.92 | 5.75 | 6.30 | 6.93 | 7.87 | 9.06 | 9.84 | 10.63 | 11.02 | 13.39 | 13.39 |
| | [mm] | 105 | 125 | 146 | 160 | 176 | 200 | 230 | 250 | 270 | 280 | 340 | 340 |
| h | [in.] | 1.77 | 1.93 | 2.05 | 2.44 | 2.72 | 2.91 | 3.15 | 3.43 | 3.58 | 3.78 | 5.12 | 5.35 |
| | [mm] | 45 | 49 | 52 | 62 | 69 | 74 | 80 | 87 | 91 | 96 | 130 | 136 |
| hm | [in.] | 3.03 | 3.31 | 3.31 | 3.62 | 3.86 | 4.17 | 4.33 | 4.53 | 4.80 | 5.16 | 6.30 | 6.57 |
| | [mm] | 77 | 84 | 84 | 92 | 98 | 106 | 110 | 115 | 122 | 131 | 160 | 167 |
| d (int)* | [in.] | 1.77 | 2.44 | 2.83 | 3.15 | 3.35 | 3.74 | 3.94 | 4.33 | 4.53 | 5.12 | 5.51 | 6.30 |
| | [mm] | 45 | 62 | 72 | 80 | 85 | 95 | 100 | 110 | 115 | 130 | 140 | 160 |

* dimensions referring to metal sheath ducts. Corrugated plastic ducts can also be used.



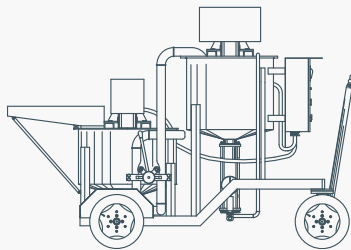
Red Line North Elevated viaducts, Doha (Qatar)



05

INSTALLATION

Our teams take care of all installation phases, thanks to a decades-long experience in the field and dedicated working procedures.



INSTALLATION PHASES

Installation of TENSA AMERICA's post-tensioning systems consists of the following phases:

PLACING OF THE DUCTS AND ANCHORAGE BODY

For internal post-tensioning, ducts are placed before concreting, fixed to the reinforcing steel of the structure to avoid that their position changes during the pouring phase.

For longitudinal post-tensioning they are usually placed following a parabolic layout.

Anchorage bodies are securely fastened to the formwork.

THREADING OF STRANDS

Strands are threaded one by one inside the placed duct, using special strand pushing machines.

Threading operations are carried out with care to avoid any damage to the strand or to the duct.

If required in special cases, it is also possible to have strands pulled together through ducts.

TENSIONING

Stressing is carried out using multi-strand or mono-strand jacks, depending on the system used and local jobsite conditions, all provided with automatic hydraulic lock-off system.

GROUTING

Grouting of tendon ducts is performed to protect strands from corrosion and can be performed either with cement grout or soft anti-corrosion compounds.

Tendon ducts are provided with air vent pipes at the highest points to ensure absence of vacuum pockets and must be completely tight.

In case of complex tendon layout or special applications, vacuum injection may be performed through the use of dedicated equipment.

In case of use of flexible filler, both for internal and external tendons, injection may be carried out with use of vacuum pumps.

TENSA AMERICA technicians are regularly trained and provided with PTI Level 1 and 2 Bonded Field Technician Certification and with ASBI grouting certification.

Together with its post-tensioning system TENSA AMERICA has developed a range of dedicated installation equipment, including multi and mono stressing jacks, hydraulic pumps, grouting pumps and load cells.

Nowadays TENSA AMERICA is proudly involved in design and production of new stressing jacks, applying technology and experience to achieve even more performing equipment.

Sa Carneiro Airport, Porto



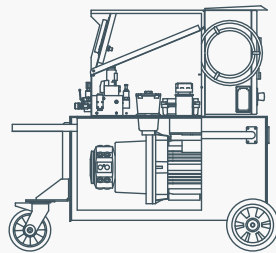




06

INSTALLATION EQUIPMENT

A wide range of equipment for tendons installation
that ensures a complete and safe work.



MULTI-STRAND AND MONO-STRAND JACKS

TENSA manufactures several types of multi-strand stressing jacks (mono-group), ranging from 1000 up to 10000 kN.

They have been designed and built considering the following stressing needs: minimum strand waste (300 mm to 500 mm), automatic lock-off, easy removal and control of the wedges, jack rotation around its own axis.

MTP SERIES

MTP series jacks are the latest evolution of TENSA's stressing equipment. This series has been designed bearing in mind all the lessons learnt from many years of experience on project sites all around the world, and is designed to guarantee top performance during installation.



MTA SERIES

MTA series jacks are the latest development of TENSA's multi-strand jacks, designed with front end master wedges gripping and short strands overlength needed. Sizes and weights are combined to provide a good balance between performance and site needs. Jacks are completed as usual with automatic lock-off system and easy transport and movement connections.



PT SERIES (MONO-STRAND)

TENSA manufactures four types of mono-strand "PT" series jacks, which differ in terms of tensioning section, weight and dimensions. All jacks of the "PT" series are equipped with the automatic lock-off system.



STRESSING PUMP

TENSA offers a wide range of hydraulic pumps, which differ in terms of performance ratings, dimensions and weight. The "PT" series jacks require stressing pumps with power ratings ranging between 2.2 and 10 kW.

The MT, MTX and MTP series jacks require stressing pumps with power ratings ranging between 7.5 and 30 kW.

All TENSA pumps are equipped with an automatic lock-off circuit.



STRAND PUSHING MACHINE

This equipment, designed to insert strands into the ducts, consists of a hydraulic pump and a unit able to push strands for long distances inside the conduits.

The two units can be installed at a remote location.

TENSA offers various models to meet all construction site requirements.



GROUTING PUMP

The "GP" pump is available in various models, which differ in terms of performance ratings. The grouting pump consists of an eccentric screw pump, a mixer and a turbomixer.

All the machines are equipped with a push-button control panel.



VACUUM PUMP

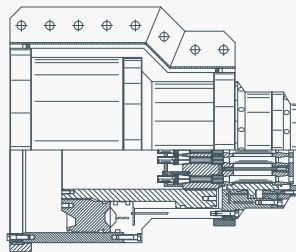
TENSA offers vacuum pumps with power ratings ranging from 4 kW to 7.5 kW. This pump is used to inject grout under a vacuum, thus guaranteeing perfect grouting without any immission of air.



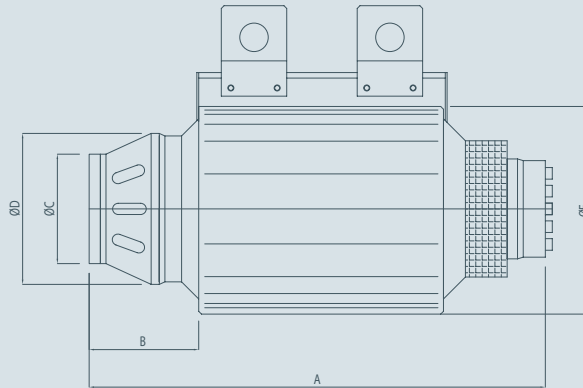
07

EQUIPMENT PROPERTIES AND DIMENSIONS

An overlook of all the properties and dimensions
listed for each equipment.

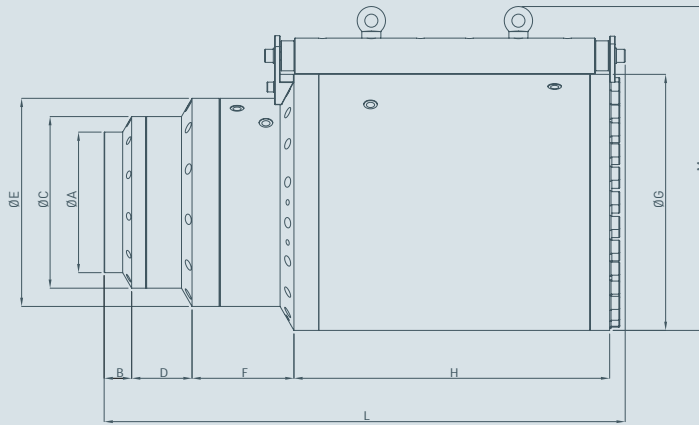


MTP SERIES



| TYPE OF JACK | | MTP (MS) 850kN | MTP (MS) 2600kN | MTP (MS) 4800kN | MTP (MS) 6800kN | MTP (MS) 7000kN | MTP (MS) 9750kN |
|---|---------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity | [kips] | 191.09 | 584.51 | 1079.09 | 1528.71 | 1573.67 | 2191.90 |
| | [kN] | 850 | 2600 | 4800 | 6800 | 7000 | 9750 |
| Stroke | [in.] | 5.91 | 9.84 | 11.81 | 11.81 | 11.61 | 11.81 |
| | [mm] | 150 | 250 | 300 | 300 | 295 | 300 |
| Weight | [lb] | 233.69 | 639.33 | 1543.21 | 1929.01 | 2645.50 | 3902.12 |
| | [kg] | 106 | 290 | 700 | 875 | 1200 | 1770 |
| Tensioning section | [in. ²] | 30.19 | 85.22 | 135.86 | 191.74 | 194.99 | 274.73 |
| | [cm ²] | 194.78 | 549.78 | 876.51 | 1237.01 | 1258 | 1772.45 |
| Max. tensioning pressure | [bar] | 500 | 550 | 550 | 550 | 550 | 550 |
| Tensioning over length with lock-off | [in.] | 3.35 | 3.15 | 4.53 | 4.53 | 4.53 | 4.53 |
| | [cm] | 85 | 80 | 115 | 115 | 115 | 115 |
| A | [in.] | 19.41 | 34.65 | 47.24 | 47.24 | 50.20 | 47.24 |
| | [mm] | 493 | 880 | 1200 | 1200 | 1275 | 1200 |
| B | [in.] | 8.54 | 7.68 | 8.54 | 8.54 | 12.60 | 7.68 |
| | [mm] | 217 | 195 | 217 | 217 | 320 | 195 |
| C | [in.] | 5.35 | 8.94 | 10.08 | 10.08 | 12.60 | 14.57 |
| | [mm] | 136 | 227 | 256 | 256 | 320 | 370 |
| D | [in.] | 5.75 | 10.63 | 13.23 | 13.23 | 15.59 | 18.50 |
| | [mm] | 146 | 270 | 336 | 336 | 396 | 470 |
| E | [in.] | 9.06 | 14.76 | 22.05 | 22.05 | 22.05 | 26.77 |
| | [mm] | 230 | 375 | 560 | 560 | 560 | 680 |

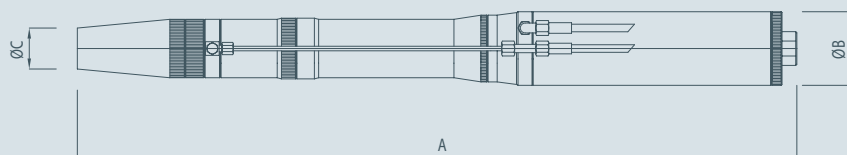
MTA SERIES



| TYPE OF JACK | | MTA 950kN | MTA 1700kN | MTA 2200kN | MTA 2900kN | MTA 3600kN | MTA 4600kN | MTA 5300kN | MTA 6500kN | MTA 7400kN | MTA 8800kN | MTA 10000kN |
|--------------------------------------|---------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Capacity | [kips] | 213.57 | 382.18 | 494.58 | 651.95 | 809.32 | 1034.13 | 1191.49 | 1461.27 | 1663.59 | 1978.33 | 2248.10 |
| | [kN] | 950 | 1700 | 2200 | 2900 | 3600 | 4600 | 5300 | 6500 | 7400 | 8800 | 10000 |
| Stroke | [in.] | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 11.81 | 11.81 | 11.81 | 11.81 | 11.81 |
| | [mm] | 250 | 250 | 250 | 250 | 250 | 250 | 300 | 300 | 300 | 300 | 300 |
| Weight | [lb] | 330.69 | 551.15 | 992.06 | 1201.50 | 1344.80 | 1477.07 | 2160.49 | 2325.84 | 2755.73 | 3086.42 | 3417.11 |
| | [kg] | 150 | 250 | 450 | 545 | 610 | 670 | 980 | 1055 | 1250 | 1400 | 1550 |
| Tensioning section | [in. ²] | 26.93 | 49.20 | 62.63 | 80.71 | 109.08 | 130.38 | 153.39 | 185.04 | 209.74 | 254.68 | 284.68 |
| | [cm ²] | 173.72 | 317.42 | 404.06 | 520.72 | 703.72 | 841.16 | 989.6 | 1193.8 | 1353.17 | 1643.11 | 1836.62 |
| Max. tensioning pressure | [bar] | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 |
| Max. return pressure | [bar] | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Max. locking pressure | [bar] | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 |
| Tensioning over length with lock-off | [in.] | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 |
| | [cm] | 70 | 70 | 70 | 70 | 70 | 70 | 75 | 75 | 75 | 75 | 75 |
| A | [in.] | 5.39 | 6.61 | 7.44 | 7.99 | 8.86 | 10.16 | 10.87 | 11.54 | 13.11 | 14.29 | 15.75 |
| | [mm] | 137 | 168 | 189 | 203 | 225 | 258 | 276 | 293 | 333 | 363 | 400 |
| B | [in.] | 1.30 | 1.42 | 1.54 | 1.65 | 1.77 | 1.97 | 2.17 | 2.56 | 2.76 | 2.95 | 3.23 |
| | [mm] | 33 | 36 | 39 | 42 | 45 | 50 | 55 | 65 | 70 | 75 | 82 |
| C | [in.] | 7.68 | 9.06 | 9.84 | 10.63 | 11.22 | 12.40 | 13.58 | 14.17 | 16.14 | 17.72 | 19.29 |
| | [mm] | 195 | 230 | 250 | 270 | 285 | 315 | 345 | 360 | 410 | 450 | 490 |
| D | [in.] | 3.54 | 3.54 | 3.94 | 4.25 | 4.33 | 4.37 | 6.42 | 4.25 | 4.33 | 4.53 | 4.72 |
| | [mm] | 90 | 90 | 100 | 108 | 110 | 111 | 163 | 108 | 110 | 115 | 120 |
| E | [in.] | 10.63 | 11.81 | 12.60 | 13.27 | 13.86 | 15.04 | 16.22 | 16.81 | 18.50 | 19.69 | 21.26 |
| | [mm] | 270 | 300 | 320 | 337 | 352 | 382 | 412 | 427 | 470 | 500 | 540 |
| F | [in.] | 6.30 | 6.50 | 6.69 | 6.93 | 7.13 | 7.36 | 7.36 | 8.66 | 9.25 | 9.84 | 10.63 |
| | [mm] | 160 | 165 | 170 | 176 | 181 | 187 | 187 | 220 | 235 | 250 | 270 |
| G | [in.] | 12.60 | 13.39 | 14.17 | 15.16 | 16.54 | 18.50 | 20.47 | 21.46 | 22.24 | 23.43 | 24.80 |
| | [mm] | 320 | 340 | 360 | 385 | 420 | 470 | 520 | 545 | 565 | 595 | 630 |
| H | [in.] | 20.35 | 22.01 | 23.27 | 23.27 | 23.03 | 22.83 | 25.16 | 25.43 | 26.18 | 27.95 | 28.66 |
| | [mm] | 517 | 559 | 591 | 591 | 585 | 580 | 639 | 646 | 665 | 710 | 728 |
| L | [in.] | 31.50 | 33.46 | 35.43 | 37.20 | 37.40 | 37.68 | 42.20 | 42.20 | 42.52 | 45.28 | 47.24 |
| | [mm] | 800 | 850 | 900 | 945 | 950 | 957 | 1072 | 1072 | 1080 | 1150 | 1200 |
| M | [in.] | 17.72 | 18.50 | 19.29 | 20.16 | 21.46 | 23.43 | 25.98 | 26.69 | 27.76 | 28.94 | 30.31 |
| | [mm] | 450 | 470 | 490 | 512 | 545 | 595 | 660 | 678 | 705 | 735 | 770 |

MONO-STRAND STRESSING JACKS

PT SERIES



| TYPE OF JACK | | PT 150 kN | PT 200 kN | PT 250 kN | PT 300 kN |
|--------------------------|---------------------|-----------|-----------|-----------|-----------|
| Capacity | [kips] | 33.72 | 44.96 | 56.20 | 67.44 |
| | [kN] | 150 | 200 | 250 | 300 |
| Stroke | [in.] | 3.94 | 7.87 | 7.87 | 7.87 |
| | [mm] | 100 | 200 | 200 | 200 |
| Weight | [lb] | 35.27 | 50.71 | 50.71 | 61.73 |
| | [kg] | 16 | 23 | 23 | 28 |
| Tensioning section | [in. ²] | 5.08 | 7.32 | 7.32 | 9.04 |
| | [cm ²] | 32.8 | 47.2 | 47.2 | 58.32 |
| Max. tensioning pressure | [bar] | 550 | 450 | 550 | 550 |
| Max. return pressure | [bar] | 180 | 180 | 180 | 180 |
| Max. locking pressure | [bar] | 165 | 165 | 165 | 165 |
| A | [in.] | 26.97 | 37.68 | 36.61 | 34.41 |
| | [mm] | 685 | 957 | 930 | 874 |
| B | [in.] | 4.53 | 3.82 | 3.82 | 4.21 |
| | [mm] | 115 | 97 | 97 | 107 |
| C | [in.] | 1.50 | 2.09 | 2.13 | 51.00 |
| | [mm] | 38 | 53 | 54 | 57 |

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