

FIP MEC srl

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Fittings and gaskets for
CONCRETE TUNNEL SEGMENTS

40 YEARS
of history and innovation
for tunnel lining accessories

SINCE 1945

a reference in civil engineering works

FIP MEC designs, produces and supplies gaskets, dowels and other fittings for tunnel lining segments.

We gained extensive experience and more than 140 references. Continuous research and innovation in partnership with specialized universities, companies and third laboratories allows the constant development of new products and technical assistance. Founded in 1945, the company is a reliable partner also for design, production, testing and supply of anti-seismic devices and bridge bearings.

REFERENCES

our works

We made tunnelling products in several countries around the world.

Albania, Algeria, Argentina, Australia, Austria, Brazil, Bulgaria, Canada, China, Costa Rica, Denmark, Egypt, Ethiopia, Greece, Iceland, India, Iran, Italy, Laos, Mexico, Morocco, New Zealand, Norway, Portugal, Qatar, Romania, Russia, Spain, Scotland, Switzerland, Turkey, Ukraine, UAE, USA, Venezuela

SEALING GASKETS

The water tightness of the tunnel lining is ensured by compressible rubber sealing gaskets. FIP MEC has developed a wide range of glued and anchored profiles suitable for every kind of tunnel segments. The frame corners are tailor-made designed to meet the highest standard requirements. Mixed EPDM and hydrophilic rubber gaskets are also available.

DOWEL SYSTEMS

This ring to ring longitudinal connection enables a quick and safe installation of segments. The dowel system of FIP MEC is named Biblock since 1998. Both sockets work through helicoidal connections. Several types of Biblocks are available in geometry and performances, customized to suit each lining project. FIP MEC supplies also centering shear dowels of biconical shape.

BOLT ANCHORING SYSTEMS

The connections between segments and other fixing applications, such as hanging services and provisional railway, require the use of different types of bolt anchoring systems. Steel bolts, washers, grommets, suitable plastic sockets and stainless steel ferrules are available.

GUIDANCE RODS

The guidance rods allow the correct positioning and the longitudinal alignment of segments. They increase also the shear resistance between segments of the same ring. This product is supplied customized in length and diameter. Anchoring clips are available.

GROUT AND LIFTING SOCKETS

Grout sockets for secondary grouting and lifting sockets for segment handling are available in different dimensions to meet the specifications of each tunnel lining. Our sockets can be equipped with suitable hydroswelling o-rings, threaded caps and non return valves.

MISCELLANEOUS

FIP MEC develops and supply also other useful fittings and accessories for the tunnel lining. Packers to spread the load of pushing rams, foamy strips to prevent leakages, adhesives and mould socket fixing solutions.

