

# Piraeus station, metro line 3

Piräus



Piräus Bahnhof, Bau der U-Bahn-Linie 3

© www.maxfrank.com

**In Piraeus, work is being carried out on the extension of metro line 3. MAX FRANK supplies the MAX FRANK Coupler threaded connection for the tunnel section.**

The city of Piraeus is located approximately 9 km southwest of the Greek capital Athens and has been struggling with acute traffic problems for years. Since 2014, work has been underway to extend metro line 3 to Piraeus to improve the accessibility of the city and the surrounding municipalities by public transport.

A tunnel measuring 7.6 km in length, as well as six new, modern stations, are currently in an advanced construction stage. Three new train stations were completed in 2020 and are now operational. The entire extension of line 3 is planned to be in service during summer 2022.

## Threaded connection MAX FRANK Coupler

MAX FRANK Couplers, mechanical connection and anchoring of reinforcement steel bars by means of threaded couplers for static and dynamic loads, are being installed in the tunnel section.

## Advantages of using MAX FRANK Couplers:

- Easy and quick installation
- Available for all common rebar diameters (12 - 40 mm)
- 100 % force transmission - "bar break"
- No reduction in the rebar cross-section
- No positioning couplers required

## Cost and time savings on site

On the construction site in Piraeus, mobile threading machines were set up. To produce the threaded connections, the reinforcement

### Type of building:

### Clients and Developers:

ATTIKO METRO S.A.

### Architect:

JV J&P AVAX SA - GHELLA SPA -  
ALSTOM TRANSPORT SA

### Engineers/ Specialist Planners:

DIAMANTAKOS APOSTOLOS,  
KONSTANTINOS GOURDOMICHALIS

### Building contractor:

J&P AVAX, GHELLA SPA and ALSTOM  
TRANSPORT

### Distributor:

Muehlhan Cyprus LTD, Greek branch

### Completion:

2022

### Project link:

[https://www.ametro.gr/?page\\_id=4099&lang=en](https://www.ametro.gr/?page_id=4099&lang=en)

# Piraeus station, metro line 3

## Piräus



steel was used directly from the construction site. Thus, no separate transport of reinforcement steel was necessary and recognizable cost and time savings, as well as the positive environmental aspect, can be achieved. MAX FRANK engineers were on site for training and setting up of the machines.

For the MAX FRANK Coupler threaded connection, a [European Technical Assessment \(ETA 20-/0387\)](#) is available.

# Piraeus station, metro line 3

Piräus



## Products used:



Threaded connection MAX  
FRANK Coupler



Piraeus Station  
© www.maxfrank.com



MAX FRANK Couplers installed before first pour  
© www.maxfrank.com



View from Station into Metro tunnel  
© www.maxfrank.com



View over construction site towards Piraeus port  
© www.maxfrank.com



# Piraeus station, metro line 3

Piräus



Piraeus Station, MAX FRANK Coupler  
© www.maxfrank.com



Piraeus Station, MAX FRANK Coupler  
© www.maxfrank.com



Piraeus Station, MAX FRANK Coupler  
© www.maxfrank.com