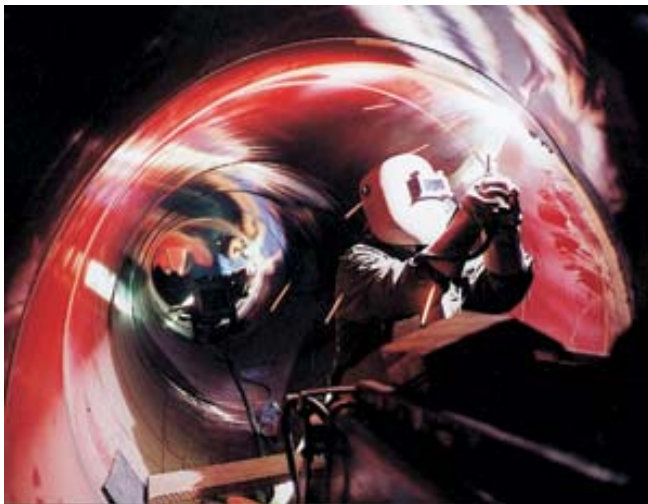




ASSOCIATED SKILLS CSM Bessac

The experience acquired by CSM BESSAC over a period of more than thirty years has enabled us to develop specialist, and often complex appurtenant techniques, which benefit the whole range of CSM BESSAC technological innovations and our engineers' skills.



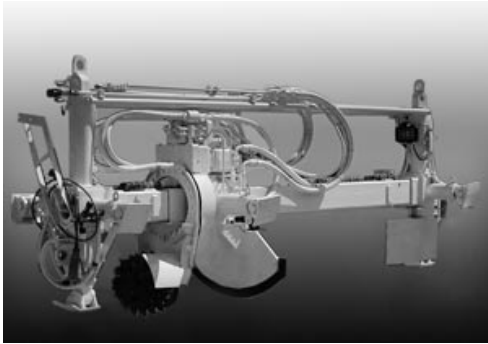
▪ Pipe installation in tunnel



This work makes use of special handling and transporting machinery and great knowledge of the underground environment.

1400mm pipe in 1800mm tunnel, Paris.

- **Rehabilitation**

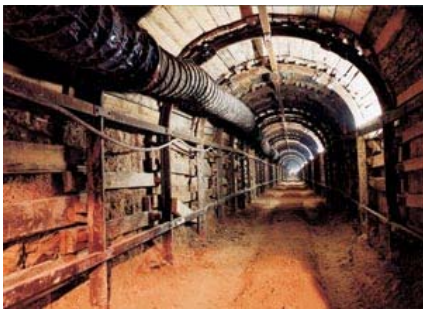


Techniques suited to type of damage and geometry of man-accessible structures to be rehabilitated.

Rehabilitation of egg-shaped concrete drinking water aqueduct by reaming and installation of a 900mm steel pipe.

Nancy, France.

- **Conventional excavation tunnels**



This technique is used to excavate tunnels in dry ground.

It is also used where tunnel length and geological conditions make machine tunnelling unnecessary.

Service tunnels for 500mm steel steam feeder in sub-gypsous marl and limestone, Paris.

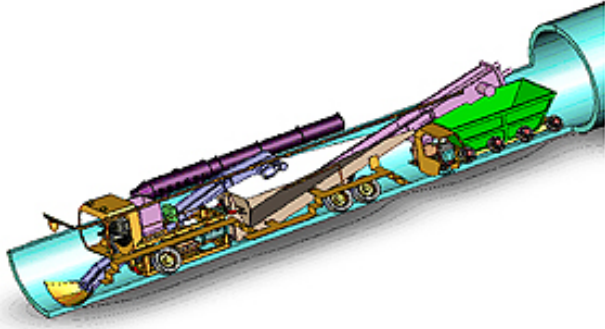
Three high voltage cable tunnels, Paris region.

- **Shaft sinking**



CSM BESSAC uses techniques that have proved their worth: steel sheet piling, timbering, Berlin walls.
9m diameter timbered shaft, depth 30m.

- **Sewer cleaning**



Equipment development for, and cleaning of visitable sewers.