



## BOLSHOI THEATER, MOSCOW, R.F.

**PROJECT.** From 2005 to 2011, the historic Bolshoi Theater in the heart of Moscow underwent an extensive renovation. Upon completion of the restoration, the auditorium seats an audience of approx. 1,700.

**ACOUSTICS.** The original sound of the Bolshoi had been lost throughout the centuries due to wear and tear, refurbishments and building alterations. In close cooperation with the restorers, it was possible not only to restore the once excellent acoustics in the auditorium, but even to improve it by, amongst other measures, the now steeper raking of the stalls and by enlarging the formerly confined orchestra pit. Furthermore, acoustically optimized surfaces - from wall claddings to seat upholstery - now guarantee the audience's envelopment.

Under the theater square, a new venue has been created which can be used for orchestra rehearsals, chamber music concerts or as a foyer for the historic theater. Mobile partition walls and retractable curtains optimize the venue's volume and surface properties and thus adjust the acoustics to the respective type of usage.

In the course of the restoration process, the building was not only equipped with state-of-the-art stage technology but also with ultra-modern audio and video technology. All productions, whether visual or acoustic, can be recorded and reproduced at any desired location at the touch of a button.



### CLIENT

Bosch Rexroth AG

### ARCHITECT

Kurortproject, Moscow, R.F.

### PROJECT DATA

Planning and construction period	2005 - 2011
Gross floor area	120,000 m <sup>2</sup>
Cost of construction	500 million euros

### SERVICES RENDERED

Room acoustics, electro acoustics, audio-visual media technology, building acoustics, measurements during construction, vibration control, protection against external noise  
Measurement-based status evaluation, overall consulting during all work phases, overall electro acoustics planning,

1 Exterior view  
2 Gallery  
3 Lateral balconies  
4 Tsar's box  
Pictures: Müller-BBM