

# Technical Rider for

*This document is a guide to help provide the best performance by Pust. Some of these requirements are negotiable but some are not, and some of these requirements are dependent on venue and stage size. Please contact soundtechnicians Espen Helgor (+47 95 07 45 59, email: [espen.helgor@mac.com](mailto:espen.helgor@mac.com)) or Håvard Hiller (+47 99 01 85 68, email: [havard@hillerlyd.no](mailto:havard@hillerlyd.no)) if there are any questions or concerns.*

*This raider contains 3 pages.*

## **General:**

All technical equipment must be rigged and tested prior to the Artistes arrival. Both sound and lights engineers with good knowledge of the systems in use must be present and available to the artists crew from their arrival to their departure. The house tech crew must speak and understand English. The Promoter and/or the Tech Supplier must contact the Artistes sound engineer prior to the show and provide the technical specs for the venue

## **PA:**

The PA system must be of high quality and from a well-known manufacturer. The system must have an even frequency response through the entire audible range, and we will require subs. The PA must be well adapted to the venue size and shape, in such a way that all seats must be covered in the entire frequency range. This means that under and over balcony fill speakers must be provided, as well as delays in case of long throw situations. Preferred brands are Meyer Sound, L-Acoustics, and D&B.

## **Stage Monitors:**

A minimum of four, preferably six 12" or 15" monitors of high quality must be provided. Quality amplifiers with appropriate crossovers or processing should amplify them on minimum two separate mixes. Preferred systems are Turbosound TFM420, L-Acoustics (all types), and D&B MAX.

## **FOH Console:**

All inputs must have 48V Phantom power, sweepable high pass filter, four band parametric equalizer, and minimum six auxiliary sends, two pre fader, and four post fader. The console must be in good condition, and lights must be provided. Preferred consoles are Midas Heritage series or PRO6, Soundcraft MH3/MH4, Soundcraft VI4/6, Yamaha PM1D/PM5D, Digico D1/D5. The systems Engineer must have good knowledge of all functions on the mixer.

**Outboard Effects:**

1/3 octave graphic equalizer for FOH system (KT DN360/370) and 1/3 octave graphic equalizer for all monitor sends must be provided. We further need 1 x TC D-Two or 2290 tap delay, and a minimum of two good reverbs, for instance Lexicon 300/480/960, PCM 91, TC electronics 3000/4000/5000/6000, Yamaha SPX 2000. Six channels of quality compressors of same brand and type must be provided. DBX 160A or 1066 and XTA C2 are good choices.

**Microphones:**

Six IDENTICAL microphones without stands, with windcaps must be provided. Acceptable microphones are:

- Audio Technica AE 5400
- Audio Technica AT 4054
- Neumann KMS 105
- EV RE-510
- Shure KSM9
- Shure Beta 87A can be accepted, but are not preferred.

Six microphone splitters are required, splitting all microphones into two separate channels. A passive Y-link on the back of the console is acceptable. In case of digital consoles, digital split may not be used. Separate preamp gain is needed.

The microphones should be labeled with numbers 1 to 6, and laid out from stage right to stage left.

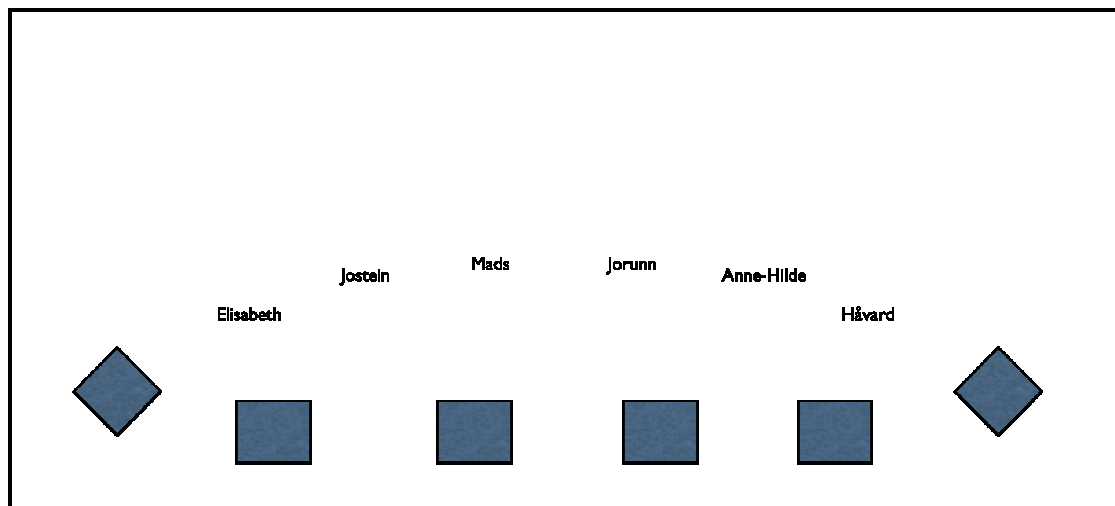
**Lights:**

Basic stage lightning is needed. A minimum of front profiles, and a cold and warm back-wash must be provided. The production does not bring their own lightning engineer. Therefore the Promoter must supply a skilled and polite lightning engineer who speaks and understands English. Please feel free to provide a more extensive lightning system, but if so please limit the use of smoke/cracker machines. If used a water based type which is gentle with the voice, like MDG, is preferred.

**Inputlist PUST:**

ch	Mic type	Artist name	Insert
1	Splitt from ch 7		
2	Splitt from ch 8		
3	Splitt from ch 9		
4	Splitt from ch 10		
5	Splitt from ch 11		
6	Splitt from ch 12		
7	AE-5400	Elisabeth	Compressor 1
8	AE-5400	Jostein	Compressor 2
9	AE-5400	Mads	Compressor 3
10	AE-5400	Jorunn Lovise	Compressor 4
11	AE-5400	Anne-Hilde	Compressor 5
12	AE-5400	Håvard	Compressor 6
13	Fx ret 1 L		
14	Fx ret 1 R		
15	Fx ret 2 L		
16	Fx ret 2 R		
17	Fx ret 3 L		
18	Fx ret 3 R		
19	Mac / CD ip L		
20	Mac / CD ip R		

**Stageplott:**



STAGEFRONT