

# New rules for the challenge – 4/23/18

- The fishhead is divided into four stage models – feature preparation, interior roughing, exterior roughing, finishing
- Everyone machines a stage chosen for them for that day (different each day)
- Everyone uses the same cutters
- Everyone generates their own tool paths
- Everyone verifies the machined stage has the correct dimensions
- Everyone generates MTConnect for the machining and the measurement
- The stage is setup before the start of the show
- Stages are not moved during the show because of foot traffic
- Everyone attends the preparation meeting in Beijing on May 25 to verify operational MTConnect, and to finalize the show rules and publicity plans

# China preparation – WG15 members

- STEP Tools make QIF example for DMG – 3/23/18
- Boeing make stage models and initial GD&T – 3/30/18
- Sandvik select and socialize the tools – 4/6/18
- Sandvik makes NC programs for the stages – 4/20/18
- Mitutoyo finalizes GD&T – 4/6/18
- Boeing make STEP-NC for the stages – 4/20/18
- STEP Tool add Sandvik tool paths to the STEP-NC – 4/27/18
- Sandvik send tooling to Boeing – 4/27/18
- Boeing machine the base-line solution on Northwood – 5/4/18
- Boeing machine the base-line solution on DMG – 5/11/18
- Boeing machine base-line solution at SC4 cavalcade on 5/23/18

# China preparation – Machine Tool Builders

Stage	Function	Deadline
Stage 1	Dry run any program and make MTConnect	May 10
Stage 2	Dry run the CATIA fishhead program and make MTConnect	May 17
Stage 3	Make digital twin for a fishhead program from a dry run by working with STEP to make and configure necessary machine tool model	May 25

# MTB's necessary equipment for shows

- Large screen TV with HDMI connection to
- High speed desktop e.g <https://www.cyberpowerpc.com/system/VR-Ready-Deal-Radeon-RX-580> (this is the base - add options for cooling and 5G+ speed)
- Basic connection to show network
  - Enable real time, but perhaps sporadic, display at the digital twin hub
  - Enable reliable previously recorded display at the digital twin hub
- Select machine tool large enough for the fishhead
- On machine probe with Renishaw Inspection Plus
- Microphone and headsets for commentary
- Fixtures suitable for the fishhead and your machine
- Aluminum 7075 for the stock