

The "feed indexer": lesson learnt and facilities for testing and commissioning

The feed indexer was designed and manufactured in Italy for both dish prototypes installed in China (SKA-P) and South Africa (SKA-MPI). A third prototype was developed and verified at the SAM plants in order to improve their electromechanical performances and to speed the mass production. Tools for rapid-testing and a rotation and elevation control system based on open source real-time technologies (TANGO-Linux-Ethercat) have been developed. The software architecture created for the test facility demonstrates the feasibility of an antenna control based on TANGO and therefore, completely aligned with the other SW components of SKA.

Suggested duration

25'

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