

Installation, Commissioning and SAT

Romaco standard procedure

Your operating time is valuable. Therefore Romaco's goal is to interrupt your business as little as possible. Romaco has developed a standard procedure for equipment installation, commissioning and SAT, which will provide you installed and tested equipment with minimum interruption and disturbance of your operations and a clear time line provided in a project plan. The project plan details, when Romaco and your staff will perform what type of work. Only a professional cooperation between your team and the Romaco team will lead to a timely and successful SAT. Therefore it is also necessary that you provide at your responsibility the necessary auxiliary workers and technical means and that you prepare every-thing necessary to guarantee that the installation and related works can start immediately upon arrival of Romaco's staff and continue without interruption until completion.

Romaco will send its trained technicians to start up the equipment. In order to guarantee the installation time you want the line installed, we require your planned installation date 2 months prior to the installation or during the FAT in order to have the right quality and quantity of our resources available. The number of technicians and the number of days of the intervention will be within the time line as quoted. These resources are adequate to perform the installation, commissioning and SAT for the respective equipment as long as:

- The equipment passed the FAT tests without deviations which were agreed upon to be fixed on-site
- No new and additional features have to be installed on-site
- The site, the machines and test materials are prepared as described below:
 - all work necessary before the beginning of the Romaco technician's activities is completed.
(like unloading, unpacking, machines in production hall etc).
 - SAT material in the quantity and quality necessary for the commissioning and final acceptance run of the equipment is available.
 - all required connections (lighting, power, water etc) are available and ready.
 - required tools and equipment, including lifting and handling equipment are ready.
 - rooms which can be locked for the safekeeping of tools belonging to Romaco's staff are available.
 - measurements to take care of and apply all safety measures to prevent any accidents at work and to protect personnel at work for the installation

Additional days or resources required not due to any issues under responsibility of Romaco will be invoiced according to the current service rates.

The final acceptance test, SAT, will be performed according to Romaco SAT standard protocols in line with DIN 8743. The final test duration is 2 hours unless differently stated in the standard equipment test documentation. The equipment will be tested with one set of formats, unless otherwise stated in the order acknowledgement, selected by the customer, in order to verify the machine functionality and performance. In case the final acceptance failed, Romaco will conduct a new test after the equipment has been prepared accordingly. Equipment which hasn't passed the final acceptance test is not allowed to be used for production purposes. Any further tests with possible additional formats are not part of the machine SAT and have to be ordered separately with the formats itself.

During machine installation and acceptance run, Romaco technicians will introduce the machine and its functionality to your team. This is an introductory training only and limited to the overall time span of the installation and commissioning available as quoted. Romaco highly recommends additional operator and maintenance technician training in order to ensure an effective use and sustainable performance of the equipment.

Romaco will make available to the customer the Romaco standard FAT and SAT protocol 4 weeks prior to the FAT date. If Customer wants to use any approach different to the Romaco standard SAT protocol, this has to be made known to Romaco at least 2 weeks before FAT and may require Romaco to requote in case the requests will require additional preparation time or longer SAT testing time.