



GrACQ Meeting – Teddy Capelli

01-11-2023

GrACQ Forum CAD

08-11-2023



<https://gracq-cern.web.cern.ch/fr>

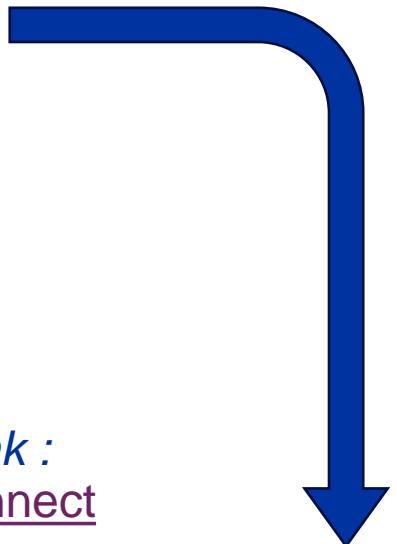
General updated / news from GrACQ

- Teddy Capelli appointed as chair of GrACQ by the CAEC on 19th of October 2023
- 18 members from various department / groups across CERN (BE, EN, EP, SY, TE)
- Summary of GrACQ mandate (under revision) :
 - Define practical rules and recommendations for the execution of TDP* (i.e. ISO GPS tolerancing on 2D drawings)
 - Define practical rules and recommendations for the control of TDP*
 - Follow the evolution of ISO GPS applicable standard and define their use at CERN
 - Define training needs and ensures the quality and consistency of the training given to the different departments
 - **Provide help and expertise for CERN community :**
 - *Produce or help produce drawings compliant with ISO GPS standard*
 - *Analyse and give guidance for specific use of ISO GPS tools*
 - *Communicate regularly with the different departments*
- Contact :
 - GRACQ.support@cern.ch
 - Teddy.Capelli@cern.ch
 - Website : gracq-cern.web.cern.ch



GrACQ Current Activities

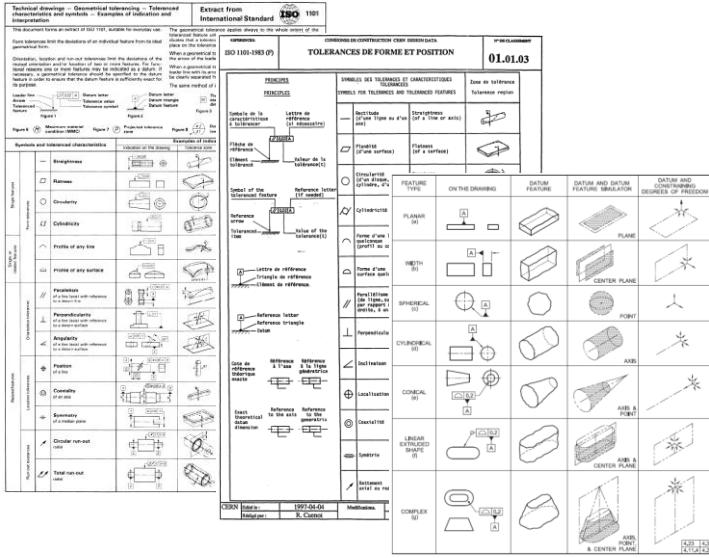
- Fiches GrACQ :
 - List of available technical sheets visible on GrACQ website
- Follow up of standards evolution and future use:
 - Check the availability of standard for CERN users
 - Follow new version of applicable standard
! Many standards not available anymore on CERN library, new link : <https://sis.web.cern.ch/search-and-read/online-resources/snvs-connect>
 - Analyse and follow new standard for possible future use :
 - ISO 22081
 - ISO 16792



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GrACQ Future Activities

- Provide a Livrets cotation ISO GPS «CERN» :
 - Basics of ISO GPS (reference, tolerances, dimensions..)
 - Simple use cases and other useful example everyday use (define useful examples)



Topics that could be interesting as an example

- Basic tolerances (position, orientation, form) (ISO 1101)
- Vocabulary (ref, spec. tolerance, associated element...)
- References, partial ref, multiple refs (ISO 5459)
- Holes tolerances
- Groups tolerances (ISO 5458)
- Use of general tolerances

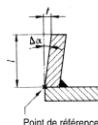


Figure 1

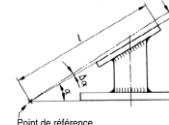


Figure 2

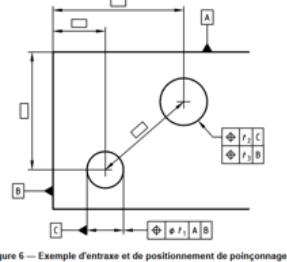


Figure 6 — Exemple d'entrée et de positionnement de poinçonnage

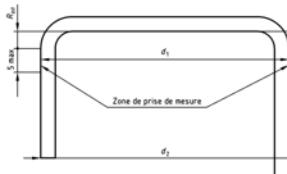


Figure 13 — Distance extérieure entre deux bords pliés

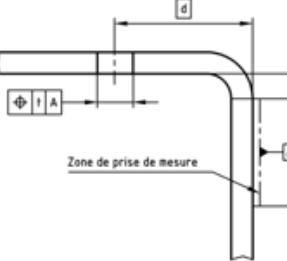


Figure 11

- Training:
 - Set up official trainings Geometrical Dimensioning and Tolerancing (Basics & Advanced)
 - Provide a light introduction through an e-learning module for newcomers



Contact : gracq.support@cern.ch