

Teacher
London Penland

Subject
Metric Fastener
Standards Comparison

Date
09/25/19

DIN 961/960 to ISO 8676/8675 Comparisons

Objectives:

- Viewers will compare the specific dimensional similarities and differences for DIN 961 to ISO 8676
- Viewers will compare the specific dimensional similarities and differences for DIN 960 to ISO 8675

Essential Questions:

- What are the differences, if any, between DIN 961 and ISO 8676?
- What are the differences, if any, between DIN 960 and ISO 8675?

Standards:

- DIN 961 -> ISO 8676
- DIN 960 -> ISO 8675

Lesson Plan:

Engage (30 sec)

- Reverse, reverse... reverse, reverse! Isn't that how the song goes??
- Well, today we are essentially reversing back to the last episode as we discuss fine thread hex head cap screws... and that's kind of the point... let me explain...

Explain (2 min)

- As you probably already know, DIN 961 is the fine thread equivalent of DIN 933 (i.e. hex head cap screw with full thread) and DIN 960 is the fine thread equivalent of DIN 931 (i.e. hex head cap screw with partial thread). They have the same dimensions with the exception of the thread pitch (i.e. DIN 933 and 931 are always coarse thread and DIN 961 and 960 are always fine thread).
- The same is true for their ISO counterparts. ISO 8676 is the fine thread equivalent of ISO 4017 and ISO 8675 is the fine thread equivalent of ISO 4014, therefore ISO 4017 and 4014 will always be coarse thread and ISO 8676 and ISO 8675 will always be fine thread.
- And, as we learned in the previous episode, DIN 933 is equivalent to ISO 4017, except at the M10, M12, M14 and M22 sizes.
- The same is true for ISO 8676 and ISO 8675. They have the same dimensions and thread pitch as DIN 961 and DIN 960 respectively, again with the exceptions of M10, M12, M14 and M22.
- The difference between the ISO and DIN versions at the M10, M12, M14 and M22 sizes is that at the M10, M12 and M14 sizes, the WAF is 1mm smaller and at the M22 size, the WAF is 2mm larger.

Extend (30 sec)

- And that's it for today! Once you understand the comparison between one of them (like DIN 933 and ISO 4017), you then understand the comparisons between all of them.
- As always, feel free to contact me personally at london@eurolinkfss.com with any questions or, of course, requests for quotes. Have a great day!