

Teacher
London Penland

Subject
Metric Fastener
Standards Comparison

Date
4/2/20

Comparing DIN and ISO Clevis Pins (DIN 1434, 1443, 1444 and ISO 2340, 2341)

Objective:

- Viewers will learn the DIN/ISO standardization differences between the DIN Clevis Pins (DIN 1434, DIN 1443 and DIN 1444) and the ISO Clevis Pins (ISO 2340 and ISO 2341)

Essential Questions:

- Are there any differences in the DIN and ISO standardizations of the clevis pin?

Standards:

- DIN 1434 -> No Replacement
- DIN 1443 -> ISO 2340 (EN 22340)
- DIN 1444 -> ISO 2341 (EN 22341)

Lesson Plan:

Engage (30 sec)

- Welcome back to Eurolink's Metric Fastener Standards Comparison VLOG series! This is episode 14 of our series and today we will be getting skinny with the hexagon thing nut.
- As you can see, I am now working at home. I called it last week! I assumed with the way things were progressing that I would be at home soon. We will see if my other predictions come true (i.e. my wife yelling my name or the dog jumping up in my lap).
- I'm wearing my official WFH gear, as you can see I'm in the pajamas with the beanie (the downstairs of my house is always a bit chilly).
- As you can see I'm working from my makeshift desk in the dining room. My wife is a clinical mental health therapist, so it is necessary for privacy reasons that she have the office. If y'all have been watching my videos, I'm sure y'all can tell why I needed to marry a therapist... I think I may be the topic of some psychology journal article at some point...
- Well, today's topic is about clevis pins. So, let's get crazy about pins.
- By the way, I looked up the definition of a pinhead, and in addition to literally being the head of a pin, it is also a foolish or stupid person. So, don't be a pinhead and learn your pins! Here we go....

Explain (2 min)

- This one is actually fairly straight forward (unlike my last video, which, to keep brief, didn't even hit everything about the topic – i.e. my complimentary blog post that went out last week)
- Let's start with the different pins by their DIN in general.
 - DIN 1434 is a clevis pin with a small head
 - DIN 1443 is a clevis pin without a head
 - DIN 1444 is a clevis pin with a head (presumably "normal" size)
- DIN 1434's standard was withdrawn but not replaced with a DIN or EN standard.
- DIN 1443 and DIN 1444, so the clevis pins without the head and with the normal sized head, have been withdrawn and replaced by ISO/EN standards that only have minor changes, therefore DIN 1443 and DIN 1444 are considered interchangeable with ISO 2340 and ISO 2341 respectively.
- From what I understand from the most recent version of the ISO standard, Type A and Type B are still relevant, but based on sourcing, Type B is the "standard" (or "go-to") type for the ISOs.
 - To be clear, Type A is without the pin hole and Type B is with the pin hole.
- The actual dimensions between DIN 1443 and DIN 1444 and their ISO counterparts (are

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the same, which is why they are considered interchangeable).

- The differences lie in the standards themselves, with the ISO EN standards (i.e. ISO 2340 or EN 22340 and ISO 2341 or EN 22341) having a defined range of commercial lengths for each diameter and having a defined hardness range of 125 to 245 HV.

Extend (30 sec)

- So, that's it for today! Simple enough for a pinhead, like myself, to get in one go!
- As a review
 - DIN 1434 (clevis pin with small head) was withdrawn without replacement
 - DIN 1443 (clevis pin with no head) = ISO 2340 = EN 22340
 - DIN 1444 (clevis pin with "normal" head) = ISO 2341 = EN 22341
 - DIN 1443 and DIN 1444 are interchangeable with their ISO counterparts, ISO 2340 and ISO 2341, respectively.
 - The difference between the standards is not one of dimension, but one of standardization itself, with the ISO standards having a defined range of standard commercial lengths and a defined range for the hardness.
 - The defined range of hardness for the ISO clevis pins is 125 to 245HV.
- As always, please feel free to send any questions, comments, or (of course) requests for quotes to me at london@eurolinkfss.com or your respective inside sales rep and check out our website eurolinkfss.com/vlog for all of our metric fastener comparison videos!
- See you guys next time and don't forget wash your hands!