



Differences between, and how to identify, a Slot.it angled motor pod

Slot.it motor pods are considered the state-of-the-art motor cradles for slot racing. In many cases, racers actually swap out the original motor pods from other manufacturers and replace them with Slot.it pods for better performance.

With the introduction of the **carbon version**, we have further invested in tooling and manufacturing processes to deliver the best possible performance to our customers.



Lighter, stronger, faster, better.

The pods come in several versions, and because of that, we have decided to clarify the differences between the various parts and what comes with each code.

There are **three variations of hardness** (three different plastic compounds), **four variations of offset**, and **two variations of bushings**.

Hardness levels are:

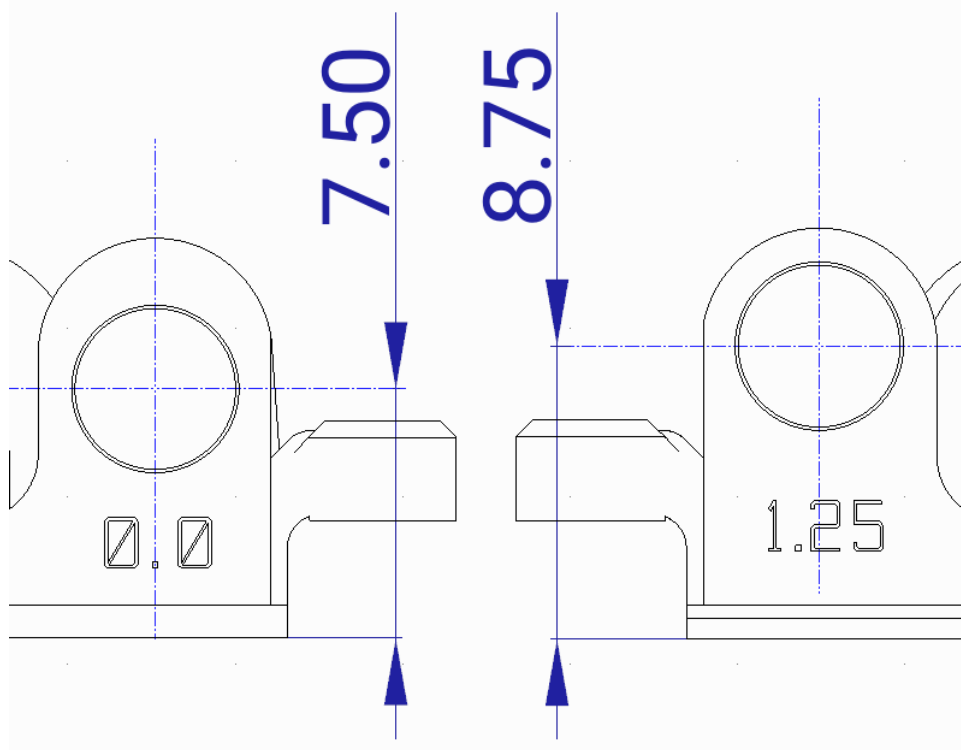
- Medium
- Hard
- Very hard – the **carbon versions** being the hardest as well as the lightest.

Offset - that is, the difference in height between the shaft of a Boxer motor and the wheel axle, relative to the bottom of the chassis - which can be:

- 0.0 mm
- 0.5 mm
- 1.0 mm
- 1.25 mm

The **higher the offset**, the **closer to the ground** the bottom of the chassis will be (i.e., **smaller ground clearance**), assuming the wheel diameter remains unchanged.

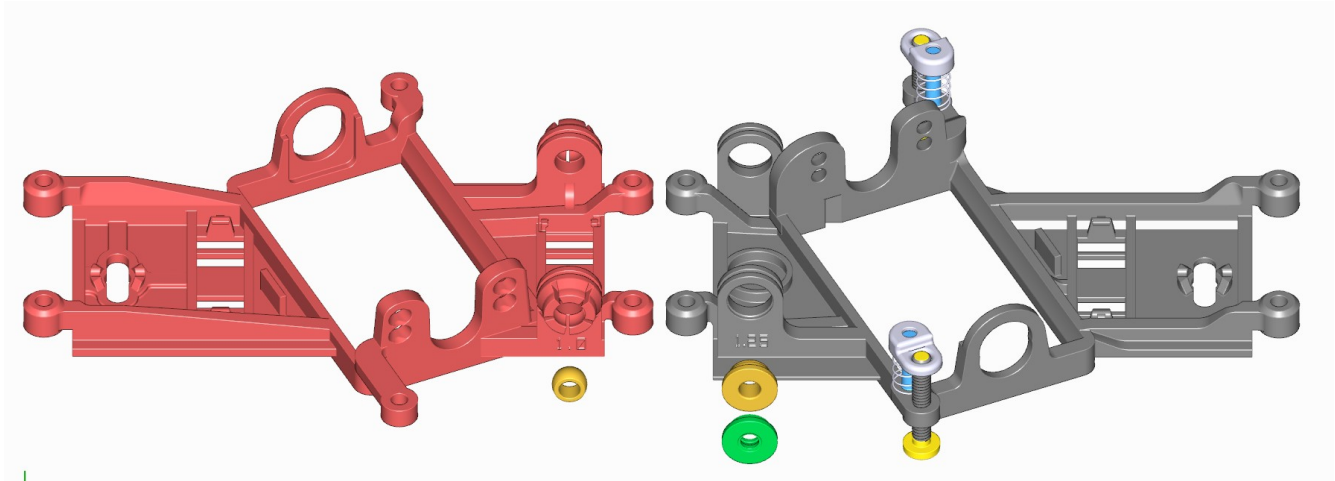
That is: if you keep the same wheels, a higher offset results in **lower chassis clearance**.



Check the above drawing for a clear picture of what the 'offset' is and why it is so important.

Bushing versions can either be:

- **Self-centering spherical bushings** (the traditional, well-proven, and – let's say it! – widely copied Slot.it invention),
or
- **Traditional oilite or ball bearings**, sharing the same specific housing type



On the left is the *medium* hardness type, showing a spherical bushing. On the right, the latest version, available in both *hard* and *carbon* versions shows notable improvements over the previous design: a lighter, optimized design, perfect planarity, easier side springs setup, and a circular ballast well beneath the rear shaft.

DOT ID and Offset Identification

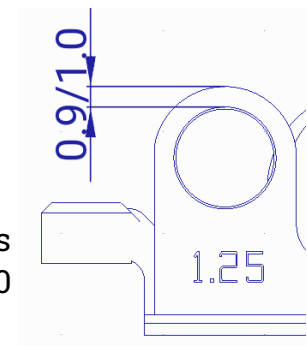
The **DOT ID** refers to a small system of half-dot engravings located on the side of the motor pod, near the bearing housing. These markings allow you to identify the **offset** of your pod when other visual cues are unavailable.

Traditionally, different chassis offsets were distinguished by **colour** and by an **engraved offset value (in millimetres)** positioned beneath the spherical bushing housing.

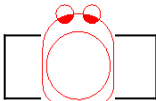
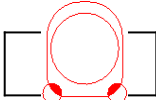
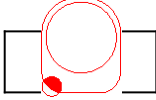
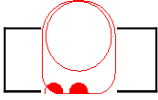
However, because **carbon versions are always black**, colour coding cannot be applied. Furthermore, in **bearing versions**, there is **no room on the mould** to engrave the offset value.

To solve this, we introduced the **DOT ID** system: small **half-dot engravings** that indicate the offset of your motor pod.

Additionally, note that the **rib above the bushing** becomes **progressively thinner** as the offset increases: approximate values range between 0.9/0.95 for 1.25mm offset, 1.15/1.20 for 1.0, 1.65/1.70 for 0.5 and finally around 2.20mm for 0.0 offset.



The table summarizes all there is to know about the Slot.it pods - at a glance!

| ANGLEWINDER MOTOR MOUNTS | | | | | | | |
|--------------------------|---------------------|------------------------|---------------|-------------|-----------------------------|-------|---|
| OFFSET (mm) | version | MEDIUM (production) | HARD (racing) | COLOR | CARBON FIBER (racing) | COLOR | DOT ID |
| 0.0 | bushings version | CH76 | CH61 | black | CH61c1 | black |  |
| | bearings version | | | black | CH117c1 | black | |
| 0.5 | bushings version | CH75 | CH60b2 | grey | CH60c1 | black |  |
| | bearings version | | CH118b2 | grey | CH118c1 | black | |
| 1.0 | bushings version | CH74 | CH82b2 | transparent | CH82c1 | black |  |
| | bearings version | | CH119b2 | transparent | CH119c1 | black | |
| 1.25 | bushings version | | CH130b2 | orange | CH123 | black |  |
| | bearings version | | CH131b2 | orange | CH124c1 | black | |