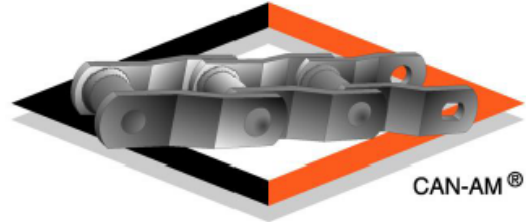


SUPPLY SERVICES

performance engineering products

CAN-AM CHAINS INDUCTION HARDENED AISI 1045 SPROCKET A-PLATES



In high duty, abrasive environments Quench & Tempered (QT) abrasion resistant plate has long been the go to material for flame cut semi-precision conveyor chain sprocket A-plates. Typically for fabrication into a finished sprocket the maximum nominal plate hardness is limited to 400 BHN. The actual hardness range across a full plate of QT-400 could vary between 370-430 BHN (41-46 Rc).

Flame cut profiles from QT plate will also have a heat affected zone (HAZ) on the cut surface, where the hardness will be variable and may drop to well below the nominal hardness. The HAZ can extend to a depth of 4-5mm before it recovers to the original QT plate hardness.

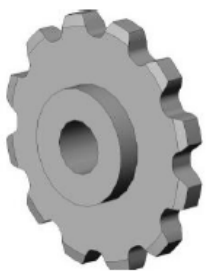
Superior sprocket A-plates can be achieved by flame cutting the A-plate from AISI 1045 plate which has a nominal hardness of 190 BHN (~12 Rc) and then induction hardening the tooth profile to 50-55 Rc. This ensures a harder, uniform layer exactly where it is needed on the tooth surface. With this solution, the centre of your A-plate will still have a low hardness allowing easy fitment of your B or C hub design.

The benefits:

1. Higher tooth hardness for improved wear resistance.
2. Uniform hardness across the tooth section.
3. Low hardness around the bore area is more suitable for machining and welding.

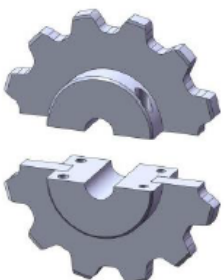
The bottom line:

High tooth hardness and uniformity will extend both sprocket and chain life.



Steel Uni-Sprockets

- Tooth sizes: 8, 9, 10, 11, 12, 13, 14 & 15.
- B or C Boss.
- Heat treated teeth A-Plates, B or C Boss.



Steel Split Uni-Sprockets

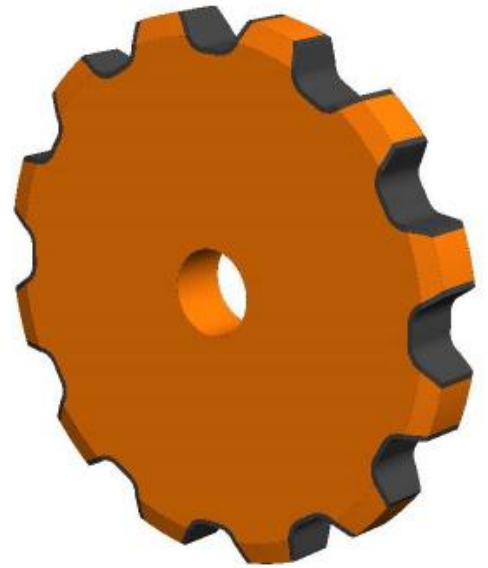
- Available with the same teeth numbers as the Uni-Sprockets above.
- C-Boss & split, with 4 machine screws.



CAN-AM CHAINS can produce induction hardened A-plates or fully finished sprockets to your specifications.

As standard, induction hardened A-plates will be supplied with:

1. An induction hardened tooth profile.
2. Chamfered teeth.
3. Flame cut pilot bore to your requested diameter.
4. High, standard or low tooth profile to suit your application.



CAN-AM CHAINS the one others are measured by.

Made in Canada & the USA

