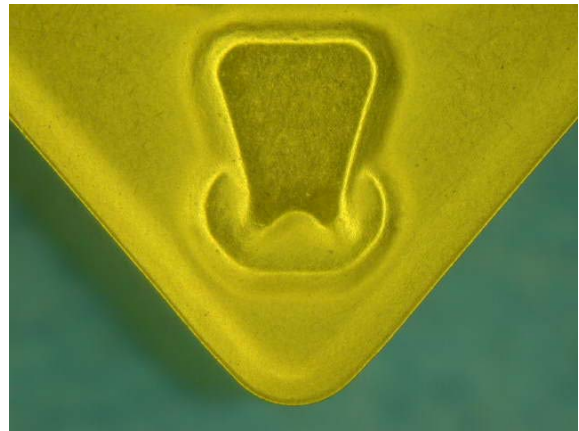


H.O.T. PRODUCT MEMO # 035-W



AFW Wiper Introduction



TURNING

Product category: Principle product

Application Area: Finish to medium turning and boring of carbon and alloy steels, stainless steels, cast irons and tool steels, particularly on near net shape parts. For use in most CNC type lathes.

Target market: General market.

Features and Benefits:

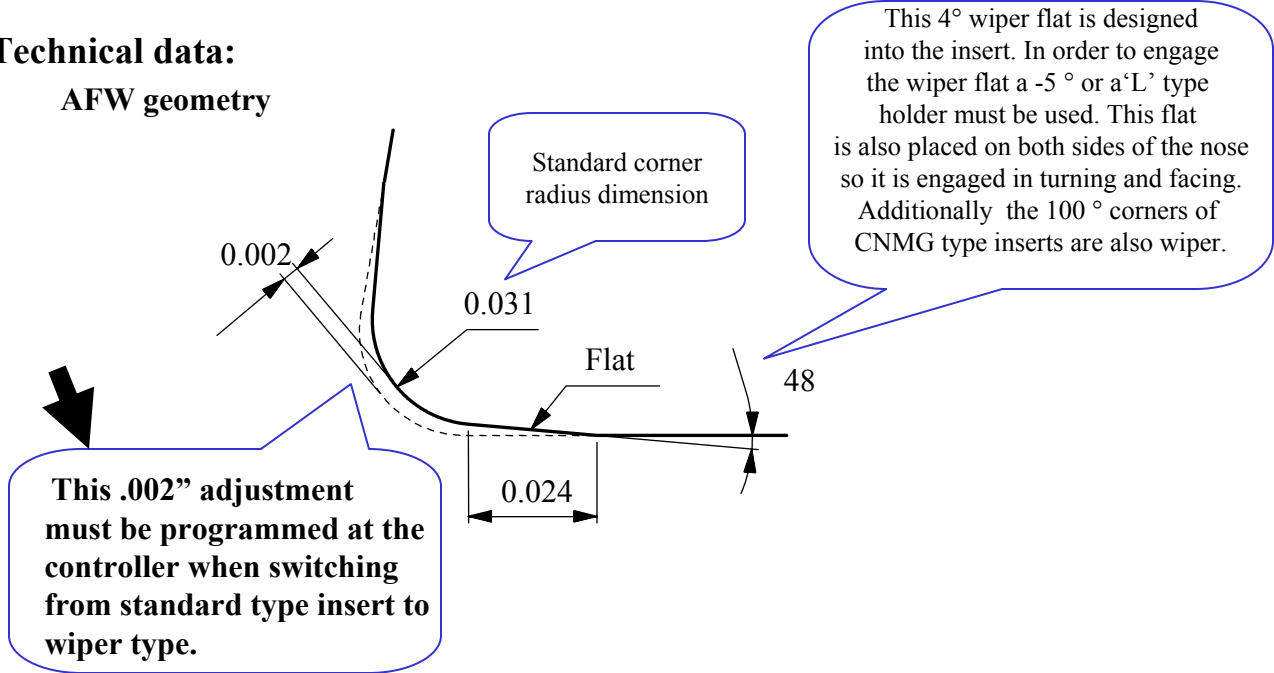
- The special wiper geometry allows the user to increase feed rate while maintaining or improving surface finish.
- Aggressive chipbreaker form allows low A_p cutting, which is effective for machining near net shape parts.
- Wiper inserts are available in two most popular geometries CNMG and WNMG 1/2" and 3/8" I.C.
- AFW is stocked with 1/64 radius.

Product Strengths:

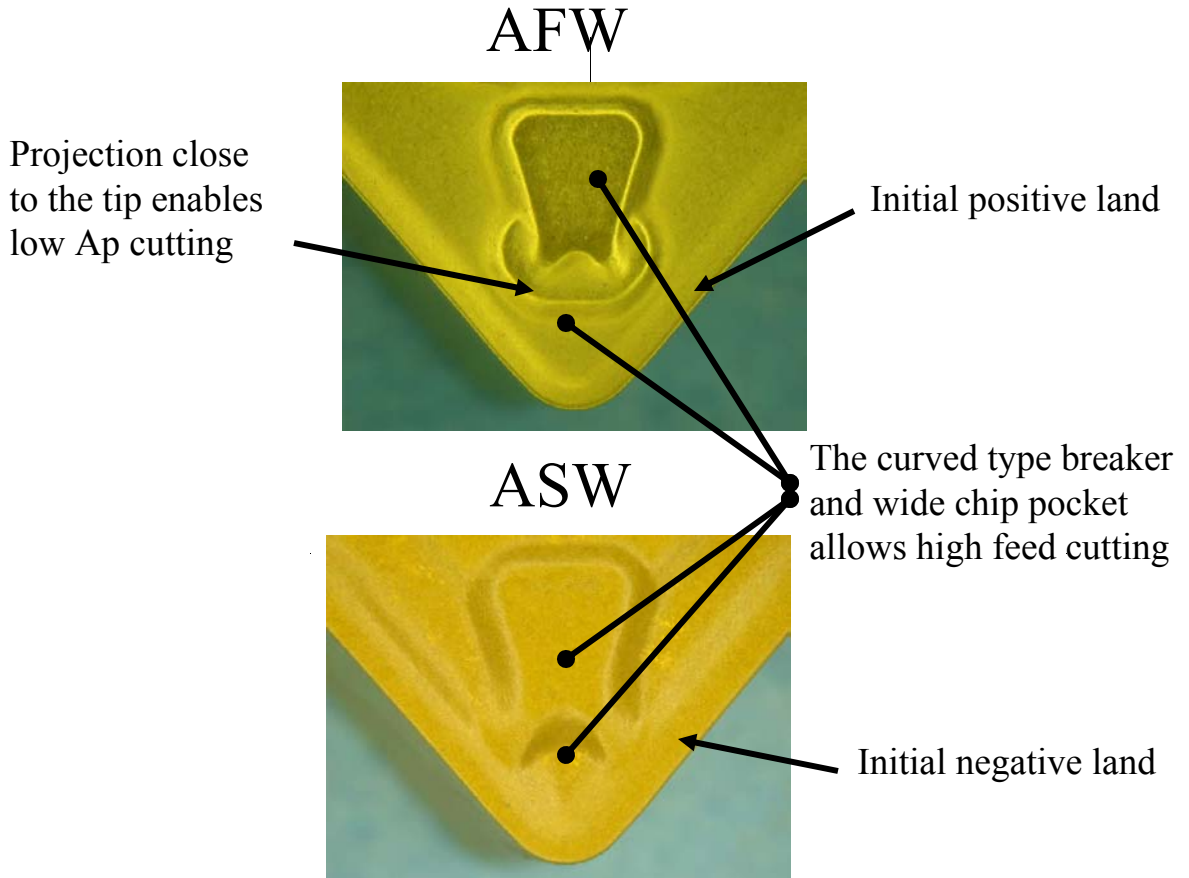
- Our wiper technology uses a wiper flat which often times produces better surface finish compared to radius type.
- Very cost competitive - TTA does not add a premium to the wiper inserts.
- Inserts are stocked in our “Double bridge” T9000 grades along with economical NS530 cermet grade.
- Additionally grade T5010 is a stocked standard grade in Japan designed specifically for cast iron applications.

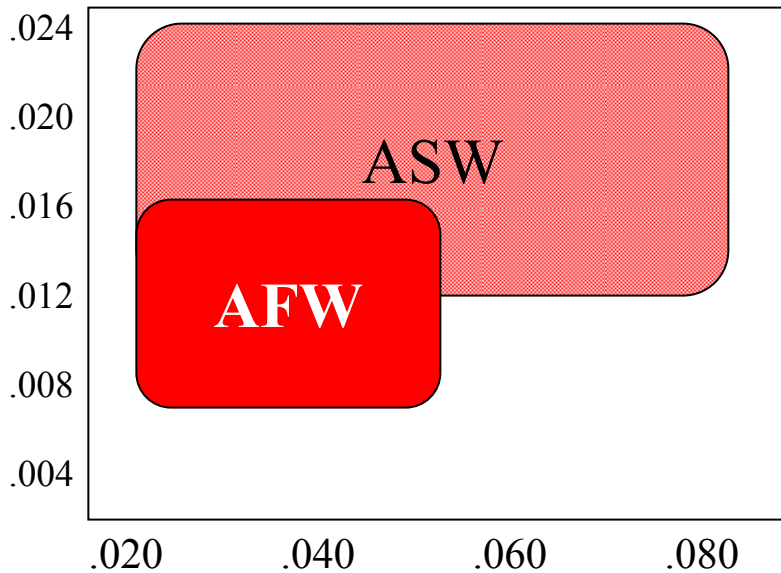
Technical data:

- **AFW geometry**



- **Features of cutting edge:**



Application area:**Conclusion:**

- The AFW breaker is best used in operations where near net shape parts are being machined.
- For replacing a semi-finishing and a finishing operation with one operation with a wiper insert it is best to apply the ASW. ASW can handle higher A_p normally seen with semi-finishing operations.
- Avoid applications where the depth of cut is greater than .060” as you may experience poor chip control with the AFW breaker.
- This product works very well with the A-style and D-style holder. These two products give you a distinct accuracy and indexing time advantage.