WOHLHAUPTER® FINE BORING HEAD with NOVI[TECH]®

Are you looking for more from your tooling?

After facing problems with chatter and chipping inserts, our customer, who machines fueling machine head rotors from ASTM A276 - 304L in the nuclear power industry, sought a better solution to their machining process.

The customer turned to Allied for help finding a new solution. Once the causes of insert failure and chatter were identified, our experienced team was able to create the best assembly suitable for the application. Using **Wohlhaupter's analog balanced fine boring head** paired with the **NOVI[TECH] vibration damper module,** they were able to eliminate the issues our customers were facing.

With the previous tooling, the customer achieved only 12 minutes of tool life, but with Allied's Wohlhaupter assembly, they achieved more than 4 times the life for 65 minutes!

Allied's Wohlhaupter assembly improved the machining process by making it more consistent and saved the customer money by reducing cost per hole. If you are looking to save time and money, ***give us a call, and we will help you find the right solution.***

Product:	Wohlhaupter analog balanced fine boring head with NOVI[TECH]
Objectives:	(1) Decrease cycle time (2) Improve process
Industry:	Renewable energy/energy
Part:	Nuclear fueling machine head rotor
Material:	ASTM A276-304L
Hole Ø:	4.7244" *(120 mm)*
Hole Depth:	40.9449" *(1040 mm)*

Measure	Competitor Boring Head	Wohlhaupter Fine Boring Head with NOVI[TECH]
RPM	106	372
Speed Rate	131.234 SFM *(40 M/min)*	459.318 SFM *(140 M/min)*
Feed Rate	0.003 IPR *(0.076 mm/rev)*	0.006 IPR *(0.16 mm/rev)*
Penetration Rate	0.315 IPM *(8 mm/min)*	2.362 IPM *(60 mm/min)*
Cycle Time	2 hr 10 min	17 min
Tool Life	12 min	65 min
Wohlhaupter offered *93.32%* cost per hole savings over the competitor tooling.		

- Analog balanced fine boring head
- Boring insert ***Item No. 297994WHC111***
- NOVI[TECH] vibration damper intermediate module ***Item No. 519004***

86.92% cycle time reduction

The Wohlhaupter boring head with the NOVI[TECH] vibration damper module provided:

- ✓ Increased penetration rate
- ✓ Decreased cycle time
- ✓ Increased tool life
- ✓ Decreased cost per hole