

Ø 11.00 mm - 35.00 mm (0.4331" - 1.3780")

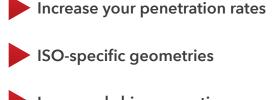


GEN3SYS® XT PRO



WHY SHOULD YOU GO WITH THE PRO? GEN3SYS® XT Pro







- Increased coolant flow to the cutting zone
- AM420 coating increases heat resistance
- AM440 coating increases abrasion resistance

GEN3SYS XT Pro Drill Inserts Ø 11.00 mm - 35.00 mm (0.4331" - 1.3780")



STEELS

- Designed to provide increased penetration rates and tool life in steel applications
- Superior geometry and edge provide excellent chip control
- Allied's multilayer AM420 coating increases heat resistance and improves tool life

XT Pro Inserts Connect with:





CAST IRONS

- Uniquely designed for cast/ nodular iron applications
- Geometry includes a corner radius for improved hole finish and heat dispersion
- Allied's multilayer AM440 coating provides increased abrasion resistance and tool life

The advanced XT Pro insert combines a coating and geometry specifically designed to achieve optimal results in ISO material drilling applications. With quick connectivity to existing GEN3SYS drill insert holders, the XT Pro insert can be interchanged with previous XT inserts

with ease, resulting in minimal setup times so you can immediately increase your productivity.



NONFERROUS

- Designed for applications in aluminium, brass, and copper
- The geometry yields excellent chip control in these softer materials
- TiN coating gives the versatility to run in a variety of materials while reducing build-up

Advanced Design Capabilities

www.alliedmachine.com

Good Things Come to Those Who Don't Wait.

Our customer who machines pump cylinders was previously having to wait on 35 - 40 day lead times.

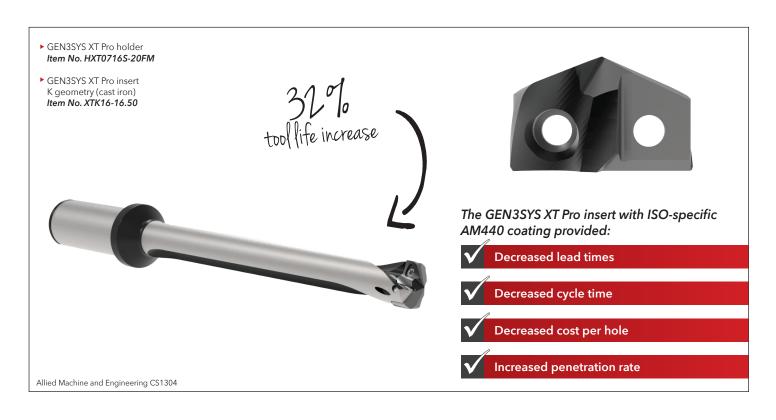
Needing better lead times and lower costs per hole, the customer tested Allied's **GEN3SYS XT Pro drill**. Using the "K" ISO-specific cast iron insert geometry–developed with a corner radius for improved hole finish and heat dispersion–they were able to maintain speed while increasing penetration rate and tool life.



On top of the increased tool life, the GEN3SYS XT Pro had a decreased cycle time lowering the cost per hole by 18%. The success of the XT Pro in this application is just another example of why you should go with the pro.

Give us a call and let us help you find the right solution.

Product:	GEN3SYS XT Pro	Measure	Competitor Replaceable Insert Drill	GEN3SYS XT Pro
		RPM	2600	2600
Objective:	(1) Reduce lead time			
	(2) Decrease cost per hole	Speed	134 M/min (442 SFM)	134 M/min (442 SFM)
Industry:	General machining	- ID -		
Part:	Pump cylinder	Feed Rate	0.23 mm/rev (0.0090 IPR)	0.28 mm/rev (0.0110 IPR)
Material:	Nodular iron	Penetration Rate	594 mm/min (23.40 IPM)	726 mm/min (28.60 IPM)
Hole Ø:	16.50 mm (0.6496")	Total Part Cycle Time	6.77 sec	5.44 sec
Hole Depth:	50.00 mm (1.9685")	Tool Life	5920 holes	7840 holes
Tolerance:	+/- 0.10 mm (0.0039")		5720 holes	7 040 holes
		GEN3SYS XT Pro offered 18% cost per hole savings over the competitor tooling.		





Case Study Solutions

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Project Profile: Forged 8640

Tooling Solution: GEN3SYS XT Pro: P (Steel) Geometry

The Problem:

Previously, the customer was using a competitor drill running at the following parameters:

- 127 M/min (415 SFM)
- 0.23 mm/rev (0.009 IPR)
- The tool drilled a 17.25 mm (0.679") diameter hole to a 20 mm (0.787") depth
- Tool life = 1,000 holes

The Solution:

Allied Machine recommended the GEN3SYS XT Pro with P (Steel) geometry.

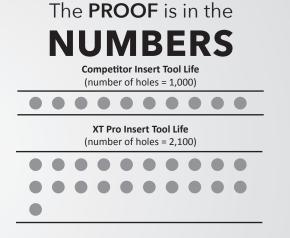
• Insert = XTP17-17.25

- The tool ran at the following parameters:
 - 127 M/min (415 SFM)
 - 0.23 mm/rev (0.009 IPR)
 - The tool drilled a 17.25 mm (0.679") diameter hole to a 20 mm (0.787") depth
 - Tool life = 2,100 holes

The Advantage:

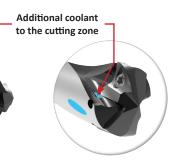
The GEN3SYS XT Pro increased the tool life from 1,000 holes to 2,100 holes.

Bottom Line: Doubled the tool life





Increased flute area



INCREASE in

tool life

Increase your tool life

The coolant configuration increases coolant flow and directs additional coolant to the cutting zone.

• This increases tool life with all XT Pro inserts.

Drill deeper holes

The XT Pro holders are available up to 10xD.

This lets you take advantage of the XT Pro insert benefits in deep hole applications.