

# ***Better than 3D-printed... MasterPrinted!***



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Machine Tools

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# MASTERPRINT

Machines for Additive Manufacturing

BY

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Machine Tools

## MasterPrint

Program, Simulate, 3D Print and Mill with Ingersoll Machine Tools' new Additive Manufacturing Solution

**MasterPrint** is Ingersoll Machine Tools' new family of Additive Manufacturing equipment that provides your company with the ability to program, simulate, 3D print and mill wide-and-high composite parts in a single piece.

**MasterPrint** has been designed, built and tested in the dedicated Development Center at the Ingersoll U.S. headquarters in Rockford, Illinois.

**MasterPrint** is aimed both at the *fast prototyping* and *durable molds* manufacturing needs of the aerospace and naval sectors, but can serve a wider market, wherever printing cheaply, quickly, reliably wide-and-high parts is a requirement.

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**MasterPrint** differentiates from the competitors' line-up through **core-distinctive features** that have made Ingersoll's products easily recognizable and greatly appreciated by the market

**1. Flexibility - to manufacture durable tools of complex geometry, with**

a **family of variable-angle nozzles** to print at any orientation

a **wide range of materials** to print with, starting from simple pellets: ABS, ULTEM/PEI, PPS/PEEK, PPSU-PESU, Nylon, Polycarbonate (PC), Polystyrene (HIPS) ...



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## MasterPrint's core-distinctive features

### 2. An Hybrid System - to expand and upgrade your equipment just with the tools you need

**multiple modules** all exchanged with and handled by a single positioner, gantry or robotic:

- 3D Printing (3 - 6 axes)
- milling (5 axes)
- fiber placing (6 axes)
- tape laying (6 axes)
- inspection (6 axes)
- trimming (6 axes)



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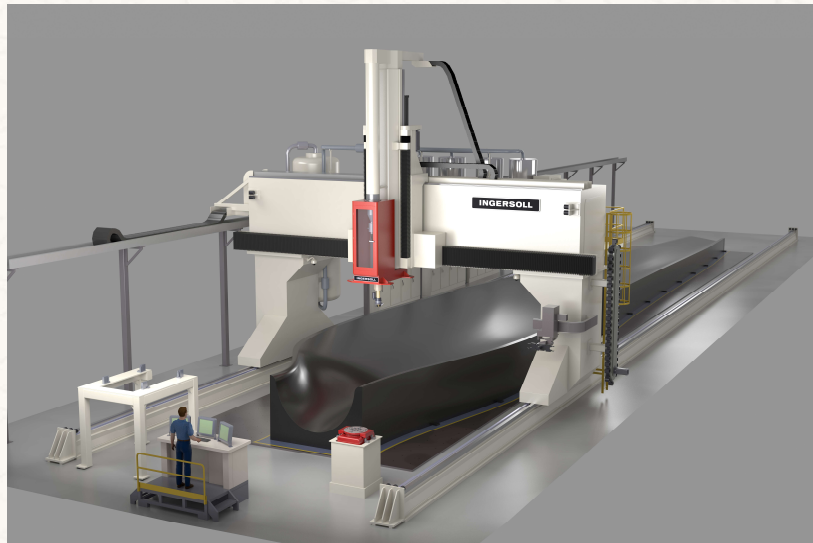
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## MasterPrint's core-distinctive features

### 3. Capacity - to manufacture wide and high parts in a single piece, using

**extensive working volumes** starting from 12 m long, 2.5 m high, 4 m wide

**large flow extruders** of 150 – 300 - 500 – 1000 lbs/h fed by equal size **dryer equipment**



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## MasterPrint's core-distinctive features

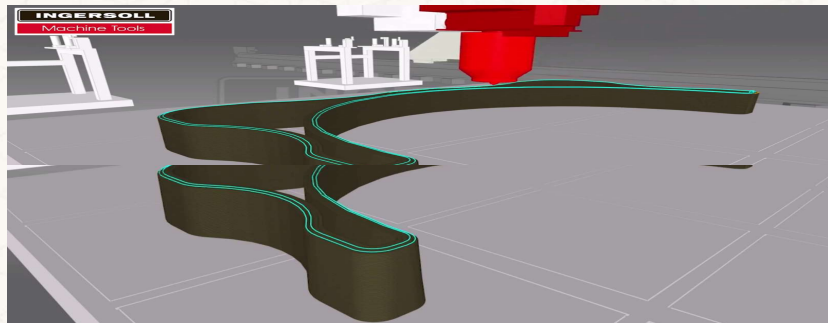
### 4. The Siemens 840D CNC

the control your operators and maintenance crews are most familiar with



### 5. A Seamless programming environment

**Ingersoll SW Suite** to program and simulate all manufacturing operations and modules



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## MasterPrint's core-distinctive features

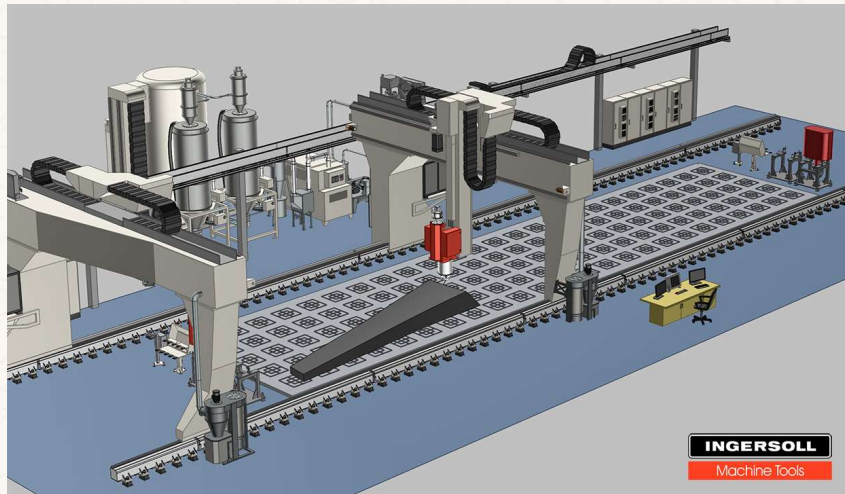
### 6. Simplicity, Safety and Ergonomics

no large enclosures, but **open-air printing** with Ingersoll's application of localized high-temp heat and effective **fume management**

**perimeter guarding** for total protection. Safe, easy and convenient access to the workzone in *maintenance mode* with control pendant;

#### **zone management**

single machine operating in multiple zones  
multiple machines sharing multiple zones



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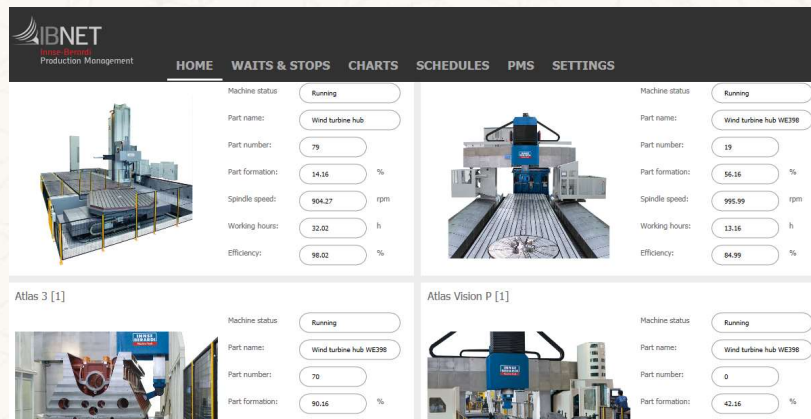
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## MasterPrint's core-distinctive features

remote process/equipment monitoring and  
pre-emptive maintenance with **Ingersoll IB-  
NET**

compliance with **U.S. and E.U. (CE) regulations  
and certifications**



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