

Current Clients



Flex Machine Tools



AIRBUS

INDUSTRIES

Machine Tool
OEM Subcontractors
Medical & Scientific
Automotive & Agriculture
Aerospace & Automation
Hobbyists-Inventors-Jobshops

CAPABILITIES

Design & Mechanical Engineering
Reverse Engineering
Conventional & CNC Machining
Laser and Router Cutting
Welding & Fabrication
Milling, Drilling & Tapping
Prototyping & Production Fixture Builds
3-D Printed Prototyping & Production
Machine Fixture Modification
CAD: Computer Aided Design
CAM: Computer Aided Manufacturing

MACHINES

3D Printer - ABS w/polycarbonate
LASER - AMADA ENSIS 3015 AJ 6Kw Fiber Laser
w/Cycle Loader - AMADA AMS 3015 CL
Press Brake - AMADA HRB8025 (88 Ton)
CNC Router - (x2) MultiCam Apex3R & 3000
CNC Plotter Cutter - (x2) Autometrix 7K & Argon
Plasma Cutter - Hypertherm PMX45
Tap Arm Station - FlexArm A-32
Welder - (x2) Miller Multimatic 220 (MIG/TIG/Stick)
Ironworker - EDWARDS 55TON
Drill Press - (x2) DAKE SB-32V
Band Saw - DAKE Horizontal Model SE912
Band Saw - DAKE Vertical Model V-26
Vertical Belt Grinder - DAKE 40F064
Turret Mill - JET 690183 JTM-4VS
Lathe - JET BDB-1340A
Vibratory Roto-Finish - Hammond GEMINI 7



Amada 6Kw Fiber Laser



Amada 88 ton Press Break



CNC Router System



CNC Fabric Plotter Cutter

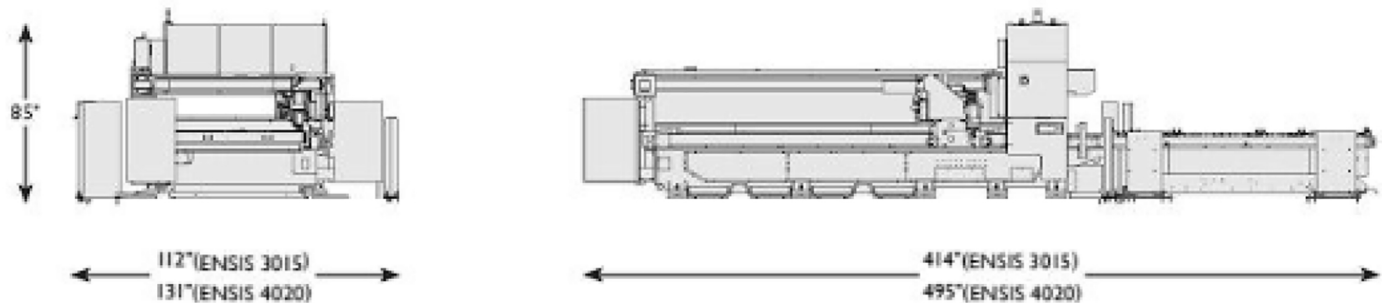


3D ABS Printer



Dimensions*

*C-Model Shown



Specifications

Motion Package	ENSIS 3015			ENSIS 4020		
	6kW	9kW	12kW	6kW	9kW	12kW
Model	6kW	9kW	12kW	6kW	9kW	12kW
Travel Method	Stationary table, X, Y and Z-axis movement for cutting head					
Control Method	X, Y and Z simultaneous 3-axis control					
Drive Motors	Fanuc AC servo motors					
Max. Sheet Size (X, Y)	120" x 60"			160" x 80"		
Max. Axis Travel (X, Y, Z)	121" x 61" x 3.93"			160" x 80.70" x 3.93"		
Max. Axis Positioning Speed (X, Y)	4,724"/min. per axis (6,693"/min. 45° vector)					
Max. Speed Z-Axis	4,724"/min.					
Repeatability	±0.0002"					
Max. Material Weight	2,000 lbs.			3,500 lbs.		
Max. Material Thickness	6kW	9kW	12kW			
	Mild Steel: 1"	Mild Steel: 1"	Mild Steel: 1"			
	Stainless Steel: 1"	Stainless Steel: 1"	Stainless Steel: 1"			
	Aluminum: 0.750"	Aluminum: 1"	Aluminum: 1"			
Assist Gas	4 ports with NC pressure control					
Electrical Requirements	200V, 3-Phase, 60Hz					
Machine Control						
Model	AMNC 3i Control					
Control Function	X,Y,Z-axis simultaneous and focus lens B-axis, and laser power control (CW, gated plus, pierce routines etc.)					
Data Storage	Compact flash drive					

Fiber Laser Engine	ENSIS 3015			ENSIS 4020		
	6kW	9kW	12kW	6kW	9kW	12kW
Laser Power	6kW	9kW	12kW	6kW	9kW	12kW
Engine Style	LD excited Yb fiber					
CW Output Power	6kW	9kW	12kW	6kW	9kW	12kW
Peak Pulse Output Power	6kW	9kW	12kW	6kW	9kW	12kW
Power Stability	±2%					
Laser Wave Length	1.08 μm					
Laser Power Mode Selection	CW, gated pulse (CNC controlled)					
Laser Beam Mode Output	Multimode Mode					
Beam Divergence	< 3mm-mrad					
Pulse Frequency	1 – 10000Hz					
Pulse Duty	0 – 100%					
Chiller Water Requirement	29 gallons					
Interlocks	Electrical, mechanical, and chiller					
Electrical Requirements	6kW	9kW	12kW			
	200VAC, 3-Phase, 60Hz 45kVA max.	200VAC, 3-Phase, 60Hz 65kVA max.	200VAC, 3-Phase, 60Hz 79kVA max.			



Scan to view
AMS 3015 CL video



AMADA
AMADA AMERICA, INC.

In the interest of technological progress, we reserve the right to make changes to equipment specifications, design, and illustrations. Workpiece precision and material thickness specifications are dependent on production conditions, material type, and pretreatment.



Citizen L20VI



Mazak VCN 700D II



Mazak VCN 530C



Mazak Quick Turn 300



Quick Turn Universal 250

Guaranteed Quality

By exceeding your quality specifications – we ensure you get EXACTLY what you want

On-Time Delivery

Customers rely on us to CONSISTENTLY meet or exceed required delivery timelines

Certifications

ISO 9001:2015 We're certified with SAM and eVA. Cage Code: 70WT9 JCP: 0068776

INDUSTRIES

OEM Subcontractors
Simulation Equipment
Tool & Dye
Specialty Conveyor Parts
Shipbuilding

MACHINES

Lathes
Citizen L20VI
Mazak Quick Turn 300
Mazak Quick Turn Universal 250
Mills
Mazak VCN 700D II
Mazak VCN 530C

CAPABILITIES

Conventional & CNC Machining
Inspection
Welding & Fabrication
Building Fixtures
Basic Design & Engineering
Reverse Engineering
3-D Engraving
Assembly
Prototyping
Machine Fixture Modification
Hard Turning & Hard Milling
Computer Aided Design
Computer Aided Manufacturing

CURRENT CLIENTS



Assurance of Quality and Timeliness

Franklin Machine Shop is committed to providing our customers with the very best precision-machined parts in a timely manner with no surprises. We promise dependability, integrity, and the highest quality to all of our customers. We look forward to earning your business!

Contract Certifications Specifications

Govt. Contract Certifications
We are certified to make machine parts for the Department of Defense.
Cage Code: 70WT9
JCP: 0068776

Franklin Machine Shop manufactures under Navy Mil Specifications:
QCL-III (Non-ASME, Non-Nuclear Commercial)
QCL-IV (MIL-I-45208A)

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