CHAPCO
OVER 60 YEARS
MANUFACTURING
PARTNERSHIPS
NOT JUST PARTS

CHAPCO

HIGH PERFORMANCE MANUFACTURING SOLUTIONS

Quick Reference Guide for Engineers

ISO 9001:2015
Quality Management System

ITAR Registered
Directorate of Defense Trade Controls

JCP Certified
USA/Canada Joint Certification Program

SELF-ASSESSMENT
CMMC LEVEL 1
Submitted to SPRS

Chapco Quick Reference Guide

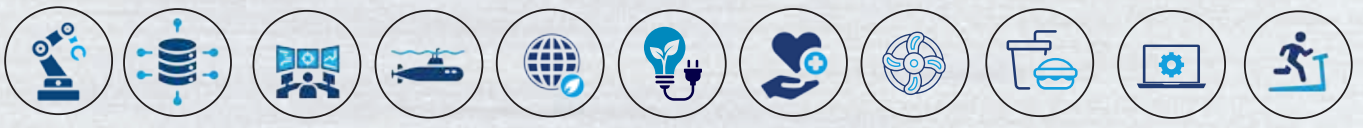
CODES	CERTIFICATIONS & REGISTRATIONS	FACILITIES	ESTIMATING, LEAD TIMES, & LOGISTICS
SAM UEI: VUA5GYK66K98 CAGE: 8S006 NAICS: 332322 SIC: 3444 D-U-N-S: 122208978	• ISO 9001:2015 certified QMS: 270447 • ITAR registered; • JCP certified (US/Canada Joint Certification Program) • DFARS 252.204-7012; • NIST SP 800-171 score submitted to SPRS; CMMC Level 1 self-assessment completed, pursuing Level 2	151,000 sqft facility 60+ Staff working 2 shifts, with automated 24/7 production	High volume & rapid scaling with 24/7 automation Pick up & delivery Tooling & fixturing For fastest estimates SOLIDWORKS preferred - accepted file formats: .SLDDRW, .SLDPRT, .SLDASM, .PDF, .DWG, .DXF, .STP

Why work with the Chapco team?

- **We manufacture partnerships, not just parts**; you'll have a direct line to the President whenever you need it.
- **Product Engineering in house**, from a sketch, a sample, or a print, including reverse engineering when no drawing exists. DFMA applied before the first run, not billed as a change order after it.
- **One site, one quality system, one traceability chain**.
- **Multiple automated production cells run lights out 24/7**; volume or demand surge doesn't wait for a shift change.
- A team trained in aerospace, medical device, and defense **quality systems**, with engineering experience spanning medical, defense, industrial automation, commercial lighting, EV infrastructure, and high-volume industrial production.
- **JCP cleared**. Controlled drawings come to us directly; no intermediary.
- **Founded 1964**; second generation family-owned since 1987.

CNC AUTOMATED WORK CENTERS	MACHINING	CNC PRESS BRAKES	POWER PRESSES	WELDING	GRINDING & CUTTING
TruLaser 3030 Fiber	Conventional lathes & mills	5 press brakes up to 175 tons/12' long	30 Tons	MIG, TIG, Spot: Stainless steel, aluminum, carbon steel, and specialty alloys	Plasma cutting
TruMatic 6000 Fiber Laser/Punch	CNC turning & Milling		60 Tons		Band & cold saws
TruBend Cell 7000	Multi-head tapping				Surface grinding

MATERIAL	SPECIFICATION	MINIMUM THICKNESS	MAXIMUM THICKNESS	MAXIMUM SHEET SIZE
Aluminum	All types	0.005"	.500"	60" x 120"
Steel	Hot and cold rolled	0.002"	.625"	
Stainless Steel	All types in all finishes	0.002"	.500"	
Pre-plated	Galvanized and galvannealed steel	26 gauge	7 gauge	
Brass	All types/All alloys	0.002"	0.250"	
Copper	101-110, 120	0.002"	0.188"	



Industrial Automation | Data Centers | Military Ground Systems | Naval & Submarine | Electric Vehicle Infrastructure | Lighting & Solar | Medical Technologies | Portable Power | Automated Retail Solutions | Advanced Electronics | OEMs & Sporting Goods

PART GEOMETRY	
Complex features	Knock-outs, extrusions, integrated hinges, formed flanges, 2.5" louvers, half sheers, beading, tapping, CSK, C-Bore, engraving, and roll forming.
Maxed formed features	Custom radius tooling available up to 3"
Internal form radii	0.015", 0.030", 0.060", 0.090", 0.120", 0.188", 0.250", 0.375", 0.500", 1.00"
Hems	Depends on material thickness – standard up to a maximum length of 10'
Punched features standard	Max. height = 2x material thickness. Custom tooling where applicable
Rolled features	Max. material thickness 16 gauge Maximum blank width 45" Minimum radius 3.5"
Broken edges	Deburring/vibratory tumble

TOLERANCES	TOLERANCE <11ga	TOLERANCE >11ga
Offsets	(+/-) 0.5°	0.5°
Hole Diameter	(+/-) 0.0023"	+ 0.01"
Edge/Edge and Hole/Hole (Hardware to edge/hole and hardware to hardware)	(+/-) 0.003"	.005"
Bend/Edge	(+/-) 0.003"	.010"
Bend/Hole, Hardware/Bend	(+/-) 0.010"	.010"
Features separated by 2 bends	(+/-) 0.020"	.030"

FILES & QUALITY DOCUMENTATION	OTHER TURNKEY SERVICES
SOLIDWORKS preferred - accepted file formats: .SLDDRW, .SLDPRT, .SLDASM, .PDF, .DWG, .DXF, .STP	Engineering concepts
	DFMA & Prototyping
Quality Documents: C of C; First article inspection (FAI); Material certifications	Certification readiness - facilitation & coordination UL, ETL, NSF, NAMA, etc.
Laser QC scan	PLC Programming & Integrations
	Packaging, Inventory, Logistics

SURFACE FINISH	HARDWARE INSERTION	COATING & PLATING	PART IDENTIFICATION	ASSEMBLY
Standard mill	PEM standard fasteners	Powder coat/E coat*	Silk screening*	Hardware
Orbital sanded		Hot dipped galvanized*	Laser etching	Mechanical
Stainless steel polished	Custom hard-ware available	Black Oxide*	Metal stamping	Electrical
Cosmetic grinding		Anodize (clear/all colors)*	Ink stamping*	Electro-mechanical
Vibratory tumble	PEMs with auto-feed capabilities	Chromate conversion (clear/yellow)*	Dot peen*	Hydraulic
Deburring		Passivation (clear)*	Vibratory etch	Pneumatic
Time save	POP, Spin, Rivets & Riv-Nuts	Zinc and Nickel coating*		Electro-magnetic
		Tin and silver plating*	* services provided by our collaborative companies or from our certified vendor register, qualified and managed by Chapco, to control cost and limit supply chain disruption.	

MANUFACTURE

NMC NAVAL & MARITIME CONSORTIUM

SIBC

cbia

SBA U.S. Small Business Administration

ADVANCECT CONNECTICUT

AWS American Welding Society CONNECTICUT SECTION

EAMA EASTERN ADVANCED MANUFACTURING ALLIANCE

MARCOM: CH1133H 07292026 E&OE

Forming, Machining, Welding & Finishing

Precision Sheet Metal - complex geometries

- Laser cutting, punching, forming with TruMatic 6000 Fiber Laser/Punch and TruLaser 3030 Fiber
- Lights-out fabrication for high volume & rapid scaling
- Hardware insertion/pemming
- CNC and conventional milling, turning, and tapping
- Tight tolerance machined components
- Hybrid fabricated & machined assemblies

CNC Press Brake Bending

- Precision forming with five LVD and Accurpress CNC press brakes
- 30 and 60 ton power presses
- TruBend Cell 7000
- Forming capacity up to 175 tons and 12' length

Complex Weldments

- MIG, TIG & Spot/Resistance welding
- Complex welded assemblies
- Multi-material welding capacity
- Ground and cosmetic weld finishing
- Stainless Steel, aluminum, carbon steel, and specialty alloys

Sheet Metal Surface Finishes

- Standard mill
- Orbital sanded
- Stainless steel polished
- Cosmetic grinding
- Vibratory tumble
- Deburring
- Timesaver

High-Accuracy Multi-Axis Machining

- Vertical machining center capabilities
- Supports precision milling, drilling, and tapping
- Designed for repeatable tolerances
- Maintains controlled dimensional accuracy for consistent part quality

Please contact us for a more detailed discussion about geometries and tolerances for any specific work center

CNC Turning & Lathe Operations

- Precision turning
- Machining of cylindrical components
- Threaded features
- Integrates with fabrication & Assembly programs

Hardware Insertion

- PEM standard fasteners
- Custom hardware
- PEMS with auto-feed solution
- POP, Spin, Rivets, and Riv-Nuts

Sheet Metal Coating & Plating*

- Powder coat/e coat
- Hot-dipped galvanized
- Black Oxide
- Anodized (clear/all colors)
- Chromate conversion (clear/yellow)
- Passivation (clear)
- Tin and silver plating

Part Identification

- Silk screen*
- Laser etching
- Metal stamping
- Ink stamping*
- Dot peen*
- Vibratory etch

Additional turn-key services

- Contract Manufacturing & Assembly
- Engineering and Product Development
- SOLIDWORKS Modeling and Prototyping
- Reverse Engineering Capabilities
- Value Add Engineering
- Design Consulting
- Certification Readiness: facilitation & coordination with UL, ETL, NSF, NAMA, etc.

*services provided by our collaborative companies or from our certified vendor register, qualified and managed by Chapco, to control cost and limit supply chain disruption.

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Brian Weinstein, President & CEO
bweinstein@chapcoinc.com
12 Bridge St., Deep River, CT 06417, USA – 860.526.9535 x102

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