



2009 CAPABILITIES LIST

FABRICATION

Crow Corporations Fabrication Department offers precision cutting, punching, forming, welding and sawing services of the highest quality. Our comprehensive line of fabrication equipment is well suited for both short and long-run manufacturing applications.

LASERS	Amada FO 3015 NT	4000 Watt. Carbon to 1" thick, Stainless to ¾" thick, Aluminum to ½" thick. Materials size up to 5' X 10'
	Amada FO 3015 NT	4000 Watt. Carbon to 1" thick, Stainless to ¾" thick, Aluminum to ½" thick. Materials size up to 5' X 10'
	Amada EMLK 3610 NT	4000 Watt Laser / 33 Ton CNC Punch 58 station turret. Carbon, Stainless & Aluminum to ¼" thick. Material size up to 6' X 10'
WATERJET	Mitsubishi Suprema	4 Axis Cutting Head. Most material types up to 6" thick. Material sizes up to 7' x 13'.
PRESSBRAKES	Amada PromeCAM 1704	185 Ton High-Precision with CNC 8 axis back gauge. 14' Bed.
	Amada	135 Ton High-Precision with CNC 4 axis back gauge. 10' Bed.
	Amada HFE 80-25 SL	80 Ton High-Precision with CNC 6 axis back gauge. 8' Bed.
	Premiere 425	25 Ton High-Precision with CNC 6 axis back gauge. 3' Bed.
SHEARS	Cincinnati	12' Bed. Up to ¼" material thickness
	Cincinnati	6' Bed. Up to ½" material thickness
WELDING	Miller (10 Stations)	MIG / TIG Carbon, Stainless, Aluminum
SAWS	Hyd-Mech S10	Manual 6" X 6"
	Hyd-Mech S20A	CNC 12" X 12" Auto cutoff
IRON WORKER	Omera Multimatic	Standard operations
PEM FASTENER	Haeger 824	CNC PEM fastener with auto feed, 4 station tool changer and auto insertion.

MACHINING

Our full-service machine shop featuring HAAS CNC mills and lathes offers turnkey or secondary machining requirements for short-run, high-volume production quantities or single part prototypes in a wide variety of materials.

CNN MILLS	HAAS VF3	20" X 40" X 22"
	HAAS VF5	26" X 48" X 26"
	Yamaseiki VMB-1200	47" X 23" X 26"
CNC LATHES	HAAS SL-30	2 5/8" through O.D. 36" Centers
	Daewoo Puma 240-MS	3" through O.D. 20" Centers with LNS bar feeder
MANUAL MILLS	Bridgeport Series I	26" X 12"
	Bridgeport Series I	20" X 12"
	Cincinnati-Bickford Drill	60" Radial Drill
	Cincinnati-Bickford Drill	Drill
MANUAL LATHES	Victor 184 OS	2" through O.D. 32" Centers
EDM	Charmilles Robofil 310	Work piece: 33.5" X 19.7" Stroke: 15.7" X 9.8" X 15.7" Maximum weight 2207.
	Charmilles HD 20	High Speed Drill 8" X 12" X 10"
	Mitsubishi MD+PRO II	Max Submerged Workpiece 27.5" X 23.2" X 8.4" Max Submerged Weight 1105 lb.
SURFACE GRINDING	Okamoto	8" X 20" Travel
	Thompson	12" X 72" Travel

METAL STAMPING

Ranging from 45 to 750 Tons, with both hand and coil-feeds, we offer efficient and cost-effective stamping production alternatives. Plus, all our stamping operations are fully supported by a team of accomplished Tool & Die professionals. We can maintain and repair your existing tooling, or design and build new tooling from simple blanking dies to complex progressive or deep draws dies.

STAMPING PRESSES	45 Tons	Niagara. 3" Stroke, 9½" Shut Height, 2 ⁵ / ₈ " Ram Adjustment, 28" x 18" Bed, 90 Strokes per minute, No cushion.
	110 Tons	Stamtec. 7" Stroke, 13.78" Shut Height, 3.150 Ram Adjustment, 42.28" x 23.62" Bed, 30-60 Strokes per minute, No cushion.
	110 Tons	U.S.I. 9" Stroke, 14-1/2" Shut Height with Bolster Plate, 5" Ram Adjustment, 30" x 39" Bed, 40 Strokes per minute, Air cushion.

METAL STAMPING *continued...*

STAMPING PRESSES	150 Tons	Verson. 8" Stroke, 15" Shut Height, 6" Ram Adjustment, 49½" x 26" Bed, 30 - 60 Strokes per minute, No cushion.
	150 Tons	Verson. 8" Stroke, 15" Shut Height, 6" Ram Adjustment, 49¾" x 26" Bed, 35 Strokes per minute, Air cushion.
	200 Tons	Cincinnati. 4" Stroke, 14" Shut Height, 120" x 24" Bed, 30 Strokes per minute.
	255 Tons	Bliss. 12" Stroke, 10" - 15" Shut Height, 36" x 38" Bed, 18 Strokes per minute, Air cushion.
	500 Tons	USI/Clearing. 12" Stroke, 38" Shut Height, 48" x 84" Bed, 20-40 Strokes per minute, 24" Windows and Air-cushion.
	750 Tons	Lake Erie (Drawing Forming Press). 18" Draw, 10" Shut Height, 36" Ram Adjustment, 48" x 72" Bed.
COIL FEEDERS	ServoMax	6" (11 gauge)
	ServoMax	18" (11 gauge)

PRODUCT IDENTIFICATION

From Bar Codes to Serialization, Data Matrix and Alphanumeric to Company Logos, part and product identification is yet another value added service of the Crow Corporation. We offer several identification methods especially suited to your requirements.

CNC ENGRAVING	Various CNC	Carbon, Stainless, Aluminum and Exotics up to 48" X 96" Paint filled or Plain.
LASER MARKING	Trumpf Vectormark	5 Watt Nd:YAG. Carbon, Stainless, Aluminum and Exotics. Flat & Tubular.
	Epilog Legend EXT	75 Watt. Carbon, Stainless, Aluminum and Exotics. Flat & Tubular. 36" X 24" Bed.
	Laser Marking Technologies-Cobalt Pro	10, 20, 30 Watt Pulsed or Continuous. Carbon, Stainless, Aluminum and Exotics. Flat & Tubular. 24" X 48"
CNC ETCHING	Schmidt	CNC Stencil etching

FINISHING EQUIPMENT

Crow Corporation utilizes a full complement of finishing tools and machines to ensure your components are clean, burr-free and ready for use.

AUTOMATIC DEBURRING	Ernst EM/5N/L-1400	Wet de-burring, graining and polishing for flats up to 52" X 10". All metals.
AUTOMATIC DEBURRING	Rossler Vibratory	Rotary media cleaning, polishing, de-scaling, de-rusting, degreasing and drying.
FINISHING	Kuhlmeyer ZBS2 Twin Belt	Blending, graining and polishing including welded corners. 118" X 39" table.
	Barrel Tumbler	Open ended, tilting tumbler for wet and dry processing with fast load- unload.
	Sanders (8)	Various hand-held belt and circular.
	Grinders (10)	Various hand-held belt and circular.
	Safety Clean (3)	Part cleaners 4' X 4" X 5"
BEAD BLASTING	Clemco	Mini-blast Cab. 6' X 6'
	Clemco	Mini-blast Cab. 3' X 3'
	Custom	Blast Room. 14' X 22'
PAINT	Custom	Wet Paint Room 14' X 21'

QUALITY ASSURANCE/INSPECTION

Crow Corporation employs full time Quality Assurance personnel to perform all QA-related functions. Inspection equipment is regularly calibrated per ISO-2001 Standards. In addition to numerous micrometers and calipers in various departments, we also utilize the following...

CMM INSPECTION	Brown & Sharpe (2)	18" X 19" X 21" Table
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QUALITY ASSURANCE/INSPECTION *continued...*

CMM INSPECTION	Fowler	Trimose Vertical 3
HARDNESS TESTING	Phase II	Rockwell Hardness Testing

SOFTWARE CAD/CAM

A full range of software packages are maintained to accommodate customer CAD files and drawings. Ability to read and utilize most file formats including: AutoCAD, Solidworks, ProE, .dxf, .dwg, .igs and more.

SOFTWARE	AutoCad Inventor 2009	2D/3D CAD
	Metamation	2D/3D CAD
	Kubotek KeyCreator	2D/3D CAD
	Master CAM	CAM – Machining
	Gibbs CAM	CAM – Machining
	CorelDRAW X-3 Graphics Suite	CorelDraw, Corel PowerTRACE, Corel PHOTO-PAINT and CorelCAPTURE.

Thank you for reviewing our capabilities.

As you can see, our extensive range of value added services can greatly simplify your manufacturing requirements. By issuing only one PO, instead of selecting multiple vendors, you will realize faster production times, greater quality control and reduced shipping costs!



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