



Engineering & Manufacturing

THE ASTRO ADVANTAGE

- Experts in stainless steel and aluminum fabrication
- Technical consultation and value engineering
- 3D drafting and fabrication, all completed in-house
- MNDoT certified quality control program
- Certified welders, conforming to AWS standards
- Proven ability to meet challenging and changing delivery schedules
- 5-Star customer service awards, 4 years running
- Certified as DBE, WBE, SBE, TGB, and CERT (MN)

We are trusted manufacturers of **industrial metal solutions and custom parts**, for use in a multitude of different applications.

From machine frames to spiral gravity chutes and industrial food equipment to tanks, **we'll handle it!**



A photograph of a large industrial metal structure, possibly a conveyor system or a large frame, made of stainless steel. It features a series of large, circular, flange-like components arranged in a row, supported by a metal framework. The background shows a clear blue sky.

WE MAKE METAL PERFORM.

763-777-8087 www.astroeng.com Hanover, MN

ASTRO'S EQUIPMENT

The variety and mix of equipment at Astro gives us the ability to fabricate a wide variety of metal parts and equipment, all on-site. Our employees have the skills and knowledge to assemble and operate our machinery with a sharp focus on quality, and our welders are able to put down accurate and quality welds, allowing us to get parts done correctly and efficiently.

At Astro Engineering our commitment to quality and efficiency is demonstrated in every project, start to finish.

LASER CUTTING (CNC)

- Mazak STX 510 HiPro 2500 watt
- 1/2" Carbon Steel
- 1/4" Stainless Steel
- 3/16" Aluminum
- Auto Load/Unload System

PUNCHING (CNC)

- TruPunch 5000
- TruPunch 3000
- Wide range of tooling
- Punches through thickness of 1/4"
- 5' x 10' (longer with reposition)
- Regular and irregular patterns

FORMING

- (CNC) Cincinnati 350 ton, 12' wide
- (NC) Cincinnati 225 ton, 12' wide
- (CNC) Cincinnati 90 ton 10' wide

DRAFTING / DETAILING

- SolidWorks 3D design
- Tekla BIM (compatible with Revit)
- CAM: Radan, BobCAD

WELDING

- Certified Welding: TIG, MIG
- (6) Miller Dynasty
- (3) Miller 350P
- (4) Fronius MIG
- (2) Spot Welders (resistance welding)

MACHINING (CNC)

- Haas VF4 vertical machining center
- Bed travel 50 x 20 x 25
- LeBlond Lathe
- (2) Bridgeport Milling Machines

OTHER EQUIPMENT INCLUDES

- Straight Lining Equipment
- Marvel Automatic Mitering Vertical Bandsaw
- 5' Power Slip Roller
- Scotchman Cold Saw
- Cincinnati Shear
 - Cuts 12'; up to 1/4" thick

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JOB #

Name	Date
ODS	4/25/2014

Drawn: ODS
Checked: DBL
Date: 4/25/2014

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: MACH ±0.3°
HOLE: MACH ±0.004
THREE PLACE DECIMAL ±0.001

PROPRIETARY AND CONFIDENTIAL
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4/25/2014

SCALE: 1:48 WEIGHT: SHEET 1 OF 1

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