

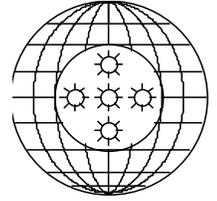
# Heat Exchanger Design, Inc.

P. O. Box 524

Indianapolis, IN 46206-0524. USA.

Phone: (317) 686-9000 ▪ Fax: (317) 686-9100

*www.hed-inc.com*



## **SURVEY DATA AND FACILITIES REPORT**

### **GENERAL INFORMATION**

#### Principal Enterprises:

Metal Fabrication - Steel Alloys - All Manner Of

#### Principal Products:

Heat Transfer (Heat Exchangers), Chillers, Heat Recovery, Indirect Fired Heaters, Direct Fired Heaters, Cryogenic, Custom Fabrication

#### Scope:

ASME Code Authorization:

“U” # 23740 (Expire September 27, 2008) (Renewal in process)

“S” # 31376 (Expire September 27, 2008) (Renewal in process)

“R” # 6715 (Expire September 27, 2008) (Renewal in process)

Code Inspection Agency: Hartford Steam Boiler

National Board Registration: “U”, “S”

#### Principal Location:

901 East Beecher Street, Indianapolis, IN 46203

Tel. (317) 686-9000 Fax (317) 686-9100

#### Mailing Address:

P.O. Box 524, Indianapolis, IN 46206-0524

#### Date of Origin:

February 27, 1984

Capabilities:

Design (Thermal and Mechanical), produce drawings and fabrication from sketches of drawings on the following equipment using the latest technology in CAD drafting. Currently all designs are based on CAD.

- A. Heat Exchangers:
  - 1. Shell and Tube
  - 2. Chillers and Reboilers
  - 3. Double Pipe Hairpin
  - 4. Multitube Hairpin
  - 5. Fuel Oil Heaters
  - 6. Tank Heater
  - 7. Air Cooled Exchangers
- B. Pressure and Processing Vessels
- C. Direct/Indirect Fired Heaters
- D. Economizers and Heat Recovery Units
- E. Cryogenic Processing Equipment
- F. Special Application Equipment

**PHYSICAL FACILITIES:**

General Office:

4,000 square feet

Engineering Office:

1,000 square feet

Fabrication Area:

(1)	Bay 70' x 300'	21,000 square feet	
(1)	Bay 100' x 100'	10,000 square feet	
(2)	Bay 100' x 120'	24,000 square feet	
(1)	Building 180' x 100'	18,000 square feet	
(1)	Building 200' x 120'	24,000 square feet	(leased to tenants)
(1)	Building 200' x 100'	20,000 square feet	(leased to tenants)
	Outside Storage	60,000 square feet	
	Machine Shop (Remote)	40,000 square feet	

## LABOR RELATIONS:

### Non-Union

## SHIPPING AND RECEIVING:

- A. Truck Loading (3) Bays
  - 1. Major Carriers
  - 2. Contract Carriers
  - 3. Company's Fleet
- B. Rail On Site
- C. Air Major Express and Freight

## MAJOR EQUIPMENT LIST - FABRICATION SHOP

### Material Handling:

- A. Cranes
  - (4) 10 Ton P & H
  - (2) 15 Ton P & H
  - (6) 5 Ton Hoist
  - (1) 100 Ton (available on contract)
- B. Forklifts
  - (1) 30,000 lbs.
  - (1) 8,000 lbs.
  - (1) 40,000-80,000 lbs. (available on contract)

### Fabrication: (in house or locally available)

- A. Shear (1) 1/2" x 120"
- B. Saw (1) Do-All 24"
- C. Chop Saw (1) 20" Diameter
- D. Plate Roll (1) 72" ID x 120" Lg x 1 3/16" Thk
- (1) 68" ID x 19" Lg x 2" Thk
- E. Angle Roll (2) 6" x 6" x 7/16"
- F. Plasma Burner (1) Miller Spectrum 1500 (1 1/2" SS)
- G. Turning Rolls (1) 50 Ton
- (2) 5 Ton
- (4) 10 Ton
- (2) 2 Ton
- (1) 25 Ton
- H. Welding Positioners (2) 4,000 lbs.
- (2) 500 lbs.
- (2) 8,000 lbs.

- I. Welding Machines (1) 16,000 lbs.
- (5) Lincoln 350 Tig
- (5) Miller 330 ST Tig
- (5) Miller CP300 Mig
- (2) Lincoln Subarc
- (1) Lincoln Arc
- (5) Miller 600 Amp Mig
- (4) Lincoln 650 Amp Mig
- J. Heat Treat (1) 8' x 8' x 18' deep (contract)

**FINISHING EQUIPMENT:**

Sandblasting Room  
 Painting  
 Testing                   Hydrotest    10,000 psi.  
                                   Air             100 psi

**ELECTRICAL CAPACITY:**

2500 Amps                   480 Volts                   3 Phase                   60 Cycle



## MACHINE SHOP EQUIPMENT LIST (Remote)

Quantity	Machine	Capacity
1	Lucas 41-B Horz. boring mill	48" x 5" x 4'
1	Pilgrim milling machine	24" x 10"
1	Cincinnati milling machine	24" x 22"
1	Schiens Vert. turret boring mill	42" swing
1	WMW Vert. turret boring mill	91" swing
1	Libby engine lathe	24" swing
1	Wells saw	4'
1	Brooks shaper	10"strx15"trvl
1	Lodge and Shipley shop lathe	16"
1	Hendey machine shop lathe	8"
1	Jet VBS 1220A bandsaw	--
1	Press	35 ton
3	Lincoln Idealarc T-16-300/300 Weld.	250 amp DC
2	Deltaweld 650 Weld machine AC/DC	600 amp
1	Thermal Arc Pak 45 CXA Health Shp Cut	3" SS
1	20 ton overhead crane	--
1	2 1/2 ton diesel truck with 20' bed	16,000 lbs.
1	1 1/2 ton truck with 10' bed	12,000 lbs.
1	Yale fork lift truck	4 ton
1	Clark fork lift truck	3 ton
1	Lincoln submerged arc weld machine	--
1	Ooya RE3-2000 radial arm drill	72"
1	Ooya RE3-1600 radial arm drill	60"
1	Ooya RE2-1300A radial arm drill	48"
1	American NC drilling center	38"
1	Burgmaster NC drilling center	54" x 72"
1	Blanchard #18 surface grinder	42"
1	Pines #5 tube bender	30" x 12'
1	Oliver drill sharpener	--
1	Scotman cold cut-off machine	--
2	40 hp Air Compressor	120 cfm
1	60 hp Air Compressor	150 cfm
1	Dialarc HF welding machine AC/DC	200 amp
1	Cut off wheel saw	--
1	Thermal Arc PAK5XR Plasma Cutter	1/2"
3	Sandblasters	--
1	Tuberunner hydraulic tube puller	--
1	1/2 ton truck with 20' bed	12,000 lbs
1	Taylor fork lift truck	8 ton
1	Kamatsu fork lift truck	5 ton
1	Caterpillar fork lift truck	3 ton
1	Portable Linc sub arc weld machine	--