



AXIS INDUSTRIAL, S. A. DE C. V.

KM. 48.5 CARR. FED. MEXICO-PACHUCA
TECAMAC, EDO. DE MEXICO
TELS.: ++ (52) 779.796.9830
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www.axisfoster.com

STRUCTURES - PROCESS EQUIPMENT - SPECIALIZED EQUIPMENTMANUFACTURE
FOR POWER GENERATION, PETROCHEMICAL INDUSTRY AND OIL REFINERIES
FORMED HEADS
RFC: AIN-801022-F81

Tecámac Estado de México January, 2015.

Dear Sirs:

We are pleased to inform you that **Axis Industrial, S.A. de C.V.** manufactures a complete line of Process Equipments such as Pressure Vessels, Furnaces, Fired Heaters, Boilers, HRSGs, Reactors, Feed Water Heaters, Condensers, Heat Exchangers, Towers, Pressure Vessels 's Heads, Also Structural Steel, Skids as a complementary works of the above mentioned main equipments.

The production of our equipment is performed in accordance with the International codes and standards such as ASME Code, (Stamps "U", "R" & "S"), API Standard (620 & 650), TEMA, AWS, DIN, ANSI, ASTM.

Our production department have highly qualified personnell who work closely with the Engineering and Quality Assurance areas to successfully meet all the manufacture requirements.

Our Quality Assurance System is based on the ISO-9000-2008 standard and is periodically audited by competent national and international entities.

We also are qualified as RELIABLE SUPPLIER from National and International organizations as well as PETROLEOS MEXICANOS, COMISION FEDERAL DE ELECTRICIDAD, SIEMENS, PRAXAIR, COBRA ACS / DRAGADOS, ISOLUX, SAIPEM, TECHINT, ICA FLUOR, FLUOR CORPORATION, FOSTER WHEELER LIMITED, and others.

Equipments that we manufactured are currently operating in several industries such as the Refinery, Petrochemical, Power Generation, Chemical, Pharmaceutical and Mining Industries.

If you need more information regarding our company, please contact our people who will be very open to answer you all regarding our capabilities and motivations, also you can see our web page:
www.axisfoster.com

Mr. Oscar Larrabure Infante
General Director



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AXIS INDUSTRIAL, S.A. DE C.V., was founded in 1980 and currently has about 200 employees with annual sales of US\$20 million.

We have capability to manage 320 employees with 690,000 man hours per year (which could be 900,000).

OUR CAPABILITY PRODUCTION INCLUDES:

- Package Boilers
- Fired Heaters
- Reactors
- Pressure Vessels and Tanks
- Condensers
- Feed Water Heaters
- Heat exchangers
- Steel structures
- Process columns
- Pressure vessel heads (Elliptical, Torispherical, Hemispherical and others)
- Prefabricated piping lines
- Water Walls for utility steam boiler.
- Atmospheric tanks (A.P.I.)
- Storage spheres
- elements for HRSGs Heat Recovery Steam Boilers



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OUR CUSTOMERS

Petróleos Mexicanos (PEMEX) and subsidiaries
Comisión Federal de Electricidad (C.F.E.)
Foster Wheeler (Canada, Italy, Spain & México)
Ford Motor Company
Compañía Minera de Cananea
Puertos Mexicanos S.C.T.
Cervecería Moctezuma
Grupo Modelo
Gec-Alsthom International (France)
BASF-Mexicana
Airoil Flaregas
Alstom Power Systems
Callidus Technologies
Conip Contratistas, S.A. de C.V.
Duro Felguera, S.A. (Spain)
G+H Acustics (USA)
G+H Montage (Germany)
Grupo Constructo
Grupo Dragados
Ica Fluor Daniel, S. de R.L.
Iconsa Ingeniería
Ingeniería Peabody
Krupp Uhde Jacobs
Mecanica de la Peña
Obras Portuarias de Coatzacoalcos, S.A. de C.V
Rio San Juan Construcciones
Siry Chamon Impianti (Italy)
Snamprogetti (Italy).
Spisa Ingeniería
Sunkyong Engineering & Construction LTD. (Korea)
Samsung Engineering (Korea & Mexico)
Techint, S.A. de C.V.
Tereftalatos Mexicanos, S.A. de C.V.
Triturados Balsaticos y Derivados
Saimexicana S de RL de CV
Fluor Corporation (USA)
Dragados
Isolux
Iberinco - Iberdrola
Mitsubishi Heavy Industries



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PLANT AND OFFICES:	Carretera Federal México-Pachuca Km. 48.5 SN Los Reyes Acozac Tecamac, Edo. de México.
MAIL CODE:	55755
PHONES:	MEXICO (+52) 779.796.9830
FACSIMIL:	779.796.0077
Email Address:	atrejo@axisfoster.com

I.- REGISTRATIONS:

Tax Register Number	AIN-801022-F81
C.F.E. Supplier -/- Reliable Supplier	23280 -/- 3123
PEMEX Supplier -/- Reliable Supplier	101-A-548 -/- 0365/2002
PEMEX Contractor	4813

II.- REPRESENTATIVES

Ing. Oscar Larrabure Infante	General Director
Ing. Alfonso Lebrum Gomez	Sales Director
Ing. Mauricio Pacheco	Operation Manager
Ing. Filimón Arteaga R.	Engineering Manager



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III.- FACILITIES:

Shop Area:	Shop I: Vessels and Boilers. Shop II Piping & Boilers parts. Shop III Vessels Heads
Total height:	14.00 meters / 46 Ft.
Crane hook height:	11 meters / 36 Ft.
Offices Area:	538 square meters / 5,800 Sq. Ft.
Shop Area:	5,592 square meters / 60,000 Sq. Ft.
Warehouse Area:	500 square meters / 5,400 Sq. Ft.
Total Area:	90,000 square meters / 968,800 Sq. Ft.

IV.- BOILER SHOP EQUIPMENT DESCRIPTION:

2 Plate bending roll.	1-1/4" & 3" Thickness
1 Punching machine	1" thickness - 1" wide
1 Shear, power squaring.	3/8" Thickness - 8' wide
1 Pipe bending.	Outer Diameter 1/2" up to 3"
1 Pipe bending.	Outer Diameter 3/4" up to 4-1/2"
1 Panel bending.	Outer Diameter 1-1/2" up to 4"
1 Swaging machine.	100 ton capacity, 1" up to 4" diameter, 433" length
2 Radial cranes	5 Tons each
2 Traveling cranes	15 Tons each
1 Traveling cranes	10 Tons each
1 Traveling cranes	5 Tons
1 Traveling cranes	4 Tons
2 Self propelled cranes	13 Tons each
1 Self propelled cranes	4 Tons
Electric substation	1300 Kva.
3 Radial drill	1/32" up to 10" cut diameter capacity
1 Vertical Lathe	34" Chuck Diameter, 6' workable length
1 Vertical Lathe	34" Chuck Diameter, 5' workable length
1 Welding positioners	Using 10 welding machine simultaneously
4 Submerged Arc welding machines	800 Amp.
3 Cutting Torch Welding Pantograph	1,000 Amp., 472" max cut length, 1/8" up to 8" thk
60 Welding machines	400 Amp.
3 Plasma cutting	1-1/2" Thickness
1 Thermal Treatment Equipment	
1 Boiler tube automatic finning machine.	3 heads 2 torches each, 3 up to 40 pipes
1 Boiler tube finning machine.	511" Length welds, 1 pipe 1" up to 3" diam.
1 Boiler tube finning machine.	472" Length welds, 3 up to 7 pipes 1" up to 3" diam.
SAND-BLAST and Painting equipment	Sand-blast & painting equipment.
Furnaces for thermal treatment	5.7 m.(W) x 6.05 m.(L) x 2.0 m.(H) 2.75 m.(W) x 2.9 m.(L) x 1.65m.(H)



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HEADS SHOP EQUIPMENT DESCRIPTION

Dishing press.	800 Ton., 5.5 m work diameter length.
Dishing press.	300 Ton., 4.5 m work diameter length.
Heads Flanging Machine:	1" thick cold forming, 5' diam max.
Heads Flanging Machine.	2-1/2" thick cold forming, 4.5 m Diam.
Heads Flanging machine.	De 18" a 300" Diám. y de 1/8" a 1" Esp.
Heads Flanging machine.	from 18" to 300" Diám. and 1/8" to 1" Thk.

V.- CAPACITY OF MANUFACTURE

A Pressure Vessels 100 Ton/Month

Pressure Vessels / Heat Exchangers
Process Towers

B Shop 110 Tons/Month

Storage tanks / Fired Heaters
Boilers / Condensers / Welded Piping
Ducts / Stacks

C Heavy & light structural steel. 150 Ton/Month

D Heads forming for pressure vessels 60 Ton / Month

Elliptical
Hemispherical
Dish only
Flange only
Dish and inverse flanged
Torispherical
Toriconical
Heads up to 2.5" thickness and outer diameter 8 meters one piece
Unlimited diámetros in more than one piece