



Service Guide

HERDIZ Construction Inc

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About HERDIZ Construction Inc

We are a Certified General Contractor (**CGC**) established since 2007 in the state of Florida and Women Owned Small Business (**WOSB**)

Our team of professionals has more than 25 years of experience in construction and industry.

Occupational Safety and Health Administration OSHA

We have our own Safety Manual complying with OSHA regulations and we adopt the specific regulations of our clients as our own.

Our Equipments

All our welding machines are Certified according to the code of the American Welding Society **AWS** and Occupational Safety and Health Administration **OSHA**.

At Herdiz Construction we invest in portable welding and cutting automation solutions. Our equipment provides high-quality and accurate results that reduce costs, improve quality and efficiency, making us more reliable and competitive.

We know that increasing production at a low cost is only possible using mechanized or automated equipment and tools that also reduce operator fatigue.

We are convinced that improving quality through Precise Control of speed and trajectory improves appearance, reduces defects and costly rework.

Reduce distortion by regulating travel speed and uniform heat input for the type of material and welding friction.

Material handling is also reduced, no matter where the work is, the equipment is all portable.

General Contractor in The State of Florida. CGC1511859. Established Since 2007, License & Insurance.

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Multi-Process Welders (MIG (GMAW), Pulsed MIG (GMAW-P), Flux Cored (FCAW), DC Electrode (SMAW), DC Lift-Arc™ TIG (GTAW), Pulsed TIG (GTAW-P)) with Auto-Set and 4 memories to save the Welding Procedure Specification (WPS) that allow to guarantee the quality of the welds and a reduction of welding time. With these machines we can weld ferrous metals (Steel of any Alloy, Cast Iron, Nodular Cast Iron) and non-ferrous (Brass, Bronze, Aluminum, Stainless Steel).

Air Plasma Cutting that allows us to cut, bevel and strip ferrous and non-ferrous metals up to 1 ¼" at speeds of 1 to 180 IPM in the shape of steel structures and pipes.

Magnetic Drills ultra-compact magnetic drills with capacity of 1-3/8" (36 mm) diameter in 2". The unit's ultra light weight of 22 lbs

Hydraulic Punches Portable hydraulic punch is the solution to accelerate the production of holes and grooves in beam flanges, angles, channels, plates and bars.

Filler Metals for Welding and Gases

All welding materials and gases are Certified.

Our people

All our welders are certified and can work different welding processes.

Structure Manufacturing:

All structure manufacturing is done in compliance with the codes of American Welding Society **AWS** and American Institute Steel Construction **AISC**.

We work with different types of materials such as High-Strength Low-Alloy Structural Steel, Stainless Steel and Aluminum.

- Fabrication of Steel Structures AWS D1.1

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- Manufacture of Stainless Steel Structures AWS D1.6
- Manufacture of Aluminum Structures AWS D1.2
- Structural Welding Reinforcing Steel AWS D1.4

All our welders are certified and can work the welding processes SMAW (Metal Arc Welding With Rod), GMAW (Gas Metal Arc Welding), SAW (Submerged Arc Welding) among others with mechanized welding application and advanced processes supported for a Quality System and Welding Procedure Specification for each job.

If required, we can include it in the calculations and workshop drawings for manufacturing. We manufacture all the elements that make up a metal structure: columns, beams, channels, angles, plate. Also stability bracing, stiffener plate, stiffener plate, moment connections, bracing and truss connections, steel mounting, installation of joists and metal platforms.

According to the requirements and complexity of the work to be carried out, we can do the manufacturing in our workshop or at the project facilities.

Demolition of Steel Structures

ONLY demolitions of steel structures in buildings and industries. We also dismantle storage tanks and pipes in compliance with safety and environmental codes. All cut material is made to recycle measures.

General Structures Erection

We build and install steel structures in compliance with American Institute Steel Construction **AISC**

Industry

All the steel structure services are present for the industry in the construction of industrial buildings, in the equipment support structures among others, but as a particularity of the industry are the wear on the components of the machinery.

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Wear occurs in the components of an industrial machinery during its productive operation. Many of these components can be repaired by applying special welds that allow the damaged parts to be given chemical, physical and mechanical properties that extend their useful life when they are put back into operation. Our experience has a rate of 1: 3 that is, for every dollar invested in repairing, \$ 3.00 is saved.

Whether or not to repair these components depends more on economic than technical reasoning and this must be done by the Plant Engineer to make an economically correct decision.

A simple example, suppose that a new component works 25% of a productive season or cycle, has a cost of \$ 4,000.00 and the replacement time is 4 hours with an hourly downtime cost of \$ 6,000.00. The total cost of the cycle is $[(\$ 4,000.00 \times 4) + (\$ 6,000.00 \times 4)]$ equal to \$40,000.00

That same discarded component is repaired with special welds at a cost of \$ 6,500.00, the replacement time is still 4 hours, the downtime cost equal to \$ 6,000.00 but only uses 1 piece in the entire season, so the total cost of the cycle is $[(\$ 6,500.00 \times 1) + (\$ 6,000.00 \times 1)]$ equal to \$ 12,500.00 therefore the production cost decreases by saving \$ 27,500.00.

It is possible that this saving in the Plant Management allows repairing other pieces or equipment that were awaiting a budget for repair.

Each type of industry has its characteristics and typical wear and tear by components as detailed below.

Cement Plants;

Works such as the change of sections in the Rotary Dryer, Repair of Rolling Rings, Gear Ring, Supporting Roller, axle repair, Manufacturing and Installation of storage tanks are jobs that HERDIZ Construction can hire as well as the repair of the following components:

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1. Agitator Bearing (Slurry Tank)
2. Agitator Shafts (Slurry Tank)
3. Bag Packer Screw
4. Bearing Hangers & Gudgeon Pins
5. Cement Crusher Rolls
6. Centrifugal Pump Casings
7. Centrifugal Pump Impellers
8. Die Rings (Pulverizing Mills)
9. Fan Blades (Pulverizing Mills)
10. Induced Draft Fans (Pulverizing Mills)
11. Drive Sprockets (Drag Chain)
12. Dry Cement Pump Screws
13. Feed Inlet Tubes (Pulverizing Mills)
14. Mill Plows (Pulverizing Mills)
15. Roll Heads (Pulverizing Mills)
16. Flapper Valves
17. Gears of all type, shape and size
18. Kiln Feed Screw Bearings
19. Kiln Trunnions
20. Links (Drag Chain)
21. Vertical Mixer Screws

Sugar Mills

Works such as roughness with welding on the rollers of cane mills, manufacture and repair of cane and bagasse conductors, axle repair, manufacturing and installation of storage tanks are jobs that HERDIZ Construction can contract as well as the repair of the following components:

1. Central Blade
2. Mill Crown
3. Mill Roll Axes
4. Split Teeth Mill Rollers
5. Mill Roll Welding Hardfacing
6. Virgins - Footing And Trays of Mills
7. Gear Box Units of Mills
8. O-Ring Chain + Pinion Train of Gears
9. Pumps
10. Valves
11. Lid And Body of The Nash Pump
12. Rotor of The Nash Pump
13. Injection Pump To Capacitors

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14. Bagasse Conveyor
15. Carbon Steel Pipes And Stainless Steel
16. Trawl Collector In Direct Steam Lines
17. Induced Draft Fanshaft
18. Turbine Rotor

Water Plants

Works such as steel structures, pipe welding, gate mechanisms for water transfer, you can contract HERDIZ Construction as well as the repair of the following components:

1. Pumps
2. Shafts
3. Gears
4. Valves

Earth Moving / Construction

Tractors

1. Dozer Blades
2. Dozer End Bits
3. Drive Sprockets
4. Grouser bars
5. Idlers
6. Rails
7. Rippers Shanks & tee
8. Rollers
9. Scrapers
10. Side frames
11. Top Carriers Rolls

Ditchers

1. Ditcher Drive Segments
2. Ditcher Drive Sprockets

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3. Ditcher Rolls
4. Ditcher Teeth
5. Post Hole Augers
6. Spacer Blocks (Side Gauge)
7. Vibrator Ditcher Shank

Cranes / Shovels

1. Boom Heels
2. Bucket Tooth adaptors
3. Cable Sheaves
4. Clam Shell Buckets
5. Dragline Buckets
6. Dragline Chains
7. Dragline Clevis
8. Dragline Pins
9. Drive Tumblers
10. Herringbone Power Gears
11. Horizontal Travel Gears
12. House Ring Teeth
13. House Rings
14. House Rolls (Hook Rolls)
15. Idlers
16. Pads
17. Power Crane Gears
18. Rollers
19. Shafts
20. Shovel teeth
21. Sprockets
22. Swing Gear Teeth

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