



Titan 713 - 7.0 ft. x 13.0 ft. (2.13 m x 3.96 m)

with multi-processing head, including:

- (1) Hypertherm Powermax 125 (125A) Auto Gas Console plasma system
- (1) Victor Machine Torch with Auto Gas Oxy Fuel cutting system
- (1) Chicago Pneumatic Industrial Air Scribe system



INSTALLATION AND OPERATOR TRAINING

Installation of Machine Consisting of:

- * Customer to supply Lifting Equipment to Install the Bridge Assembly and Plasma System
- * Travel and Living Expenses for factory personnel is included
- * Our technician will be onsite for complete machine installation for 1 days
- * Operator training for up to (3) operators will occur following installation for (2-3) days.
- * NOTE: Customer related delays may result in additional charges

WARRANTY

- * The TITAN 713 CNC Plasma System is WARRANTEED for 1 Year, excluding any consumables.

HYPERTHERM PLASMA CUTTING TECHNOLOGY

- * **High Quality Cutting @ 30 to 125 Amps**
- * Maximum Cutting Capacity @ 1 1/4" (31.75 mm) Mild Steel
- * Maximum Production Capacity @ 3/4" (19 mm) Mild Steel
- * Cutting Speeds for Mild Steel @ 125A plasma:
 - 1/4" @ 150 ipm (6 mm @ 3,810 mmpm)
 - 1/2" @ 80 ipm (13 mm @ 2,032 mmpm)
 - 3/4" @ 45 ipm (19 mm @ 1,143 mmpm)

BASE MACHINE MECHANICAL

Titan 713 - 7.0 ft. x 13.0 ft. (2.13 m x 3.96 m) Dual-Side Drive

- * 7.0 ft. x 13.0 ft. (2.13 m x 3.96 m) Cutting Area
- * 9.58 ft x 17.83 ft (2.92 m x 5.43 m) Overall Machine Dimensions
- * 1,500 ipm (38,100 mmpm) Rapid Traverse Speed
- * (4) Axis Drive System
- * Digital AC Servo Motors & Drive Amplifiers
- * Requires 200-240VAC 1 PH 50/60 Hz Machine Control System
- * Frame is Constructed from Heavy 1/4 wall Steel Plate
- * Heavy Duty 1/4 wall Steel Gantry Beam Construction
- * 13" (331 mm) Clearance Under Gantry Beam for heavy plate production
- * 24" (610 mm) Heavy Plate Trucks with a wide bearing mount
- * Articulated Moving Cables & Hoses Carriers
- * Precision Planetary Gear Heads
- * 0.75" (25.4 mm) Wide Precision Gear Rack
- * 1.875 (47.63 mm) Diameter Precision Machined Pinion Gears
- * 25mm Linear Guides on Master and Slave Rail Axes
- * Dual 25mm Linear Guides on Cross Axis Gantry Beam
- * Over-Travel Limits and Homing Switches



CNC ADDITIONAL FEATURES

Automatic Digital Torch Height Control

- * All THC functions Controlled with On-Screen CNC Interface
- * Selection of Material Type, Thickness and Amperage Sets All THC Functions
- * Arc Voltage Range of 50-300 VDC in 0.5 Volt Increments
- * Dynamic Tracking to Within ± 0.25 Arc Volts in Standard Applications
- * Initial-Height Sense with Ohmic Contact or Dynamic Position-Error Stall Detection
- * Up to 600 ipm (15,240 mmpm) Positioning Speed
- * 5.5" (140 mm) stroke
- * Aluminum Cover and Spatter Guard to Protect Slide

Wireless Controller

- * All commonly used On-Screen CNC Interface controls available on wireless controller
- * Wireless range of over 150ft. (45.72 m)
- * Ability to pause and start programs remotely

Laser Cross Hairs

- * Accurately marks plate with highly visible red cross hairs over 6" (150 mm) in length
- * Used in conjunction with wireless controller to align plate

Serial Plasma Torch Control

- * CNC Controller Software Automatically Adjusts
 - Cutting Amperage
 - Cutting Gas Pressure
- * Displays Error Messages from Plasma Cutting Unit on Control Screen

Oxy-Fuel Cutting Regulator System

- * Oxygen Regulator, 5-125 psi (0.3-8.6 bar), Dual Stage (Cutting Oxygen)
- * Oxygen Regulator, 4-80 psi (0.3-5.5 bar), Dual stage (High-Preheat Oxygen)
- * Fuel Regulator, 2-15 psi (0.1-1 bar), Single Stage (High-Preheat Fuel)

Motorized Oxy-Fuel Torch & Slide

- * OFL-150 Lifter Driven by AC Motor
- * 100 ipm (2,540 mmpm) Vertical Lift Speed
- * 5.5" (140 mm) Stroke
- * Victor – 10" (250 mm) Three-Hose Machine Torch
- * 3/8" (10 mm) Cutting-Oxygen Supply Hose to Torch
- * 1/4" (6 mm) Cutting-Oxygen Supply Hose to Torch
- * 1/4" (6mm) Preheat-Supply Hose to Torch



Magnetic Brake Away Collision Mount

- * Repeatability of 0.0005" (0.013mm) After a Crash
- * Stops Machine Motion within 2 to 10ms After a Collision
- * Automatically Resets Torch to Vertical Position after Collision
- * Absorbs the Crash Energy without damaging the torch

CNC OPERATOR STATION

Swivel Mounted Operator Station

- * Panel Mounted 17" (43.2 cm)
- * Includes Full Featured Operator Control Panel
- * Feed Rate Over-Ride Selection Switch
- * Program Start/ Stop Controls
- * Manual Single Axis Jogging Controls at Various Speeds
- * Large Emergency Stop Button
 - Optional Auto Ignition for the Oxy-Fuel Torch
 - Optional Ease-On Pierce Rate Cut Oxygen Control for the Oxy-Fuel Torch
- * Dual Intel 3.3 GHz, 2 Gigabytes RAM or greater
- * 120 Gigabyte Hard Drive or greater
- * (5) 2.0 USB Ports, (1) Parallel Port, (1) RJ-45 Network Port and (2) RS-232 Serial Ports
- * RFI / EMI Shielding for Machine Side Opto-Isolation
- * On-Board Voltage/Temperature Sensing and Motion Diagnostics
- * Covered Keyboard & Mouse
- * Operator Station Located on Back-Left Corner of Machine

CNC CONTROL SOFTWARES

Pro CNC Controller features

- * Accurate Hole Technology
- * Selection from Material Library for Type, Thickness and Amperage Sets All Process Parameters
- * Conversion of DXF Files into Machine Code
- * Integrated Sensor Torch Height Control Interface
- * Shape Wizard Allows User to Construct / Edit Parts on Screen
- * Dynamic Kerf Compensation
- * Restart Cutting Ahead or Behind Current Position or Move to Exact Pierce Number
- * Move Forward or Backward on Path

CAD/CAM Import & Conversion

- * Import CAD files (industry-standard file formats)
- * Automatic CAD file correction and error notification
- * Automatic spline / ellipse smoothing and reduction
- * Separate multiple parts from a single CAD file



- * Automatic mapping of CAD layers to processes (cut, mark)
- * Automatically update nest with part revisions

Built-in Process Expertise / Machine Configuration

- * Material type, thickness, grade and class-based process parameters:
- * Separations for part, plate, and pierce spacing
- * Kerf and feed-rate
- * Lead-in / out
- * Cutting techniques
- * Automatic and manual nest sequencing
- * Grain constraint
- * Edge pierce technology
- * Safe zones for plate clamping applications
- * Multi-head cutting with automatic head selection and variable torch spacing

Oilpatch CNC Can Provide - Interactive Manual Nesting (optional)

- * Sheets with multiple material types, thicknesses, and classes per job
- * Group parts into clusters for nesting
- * Drag, drop and bump parts on the nest
- * Move, mirror, rotate, or array parts
- * Prohibit / permit nesting inside of a part
- * Part interference detection
- * Edit lead-in/out position and properties within the nest
- * Animated cutting sequence simulation
- * Control cut direction and cut sequencing on part-by-part basis
- * Plate cropping

REMOTE HELP – Optional

Remote Help Via the Internet

- * Uses Microsoft® Lync™ Software Application
- * CNC Control Must Have High-Speed Connection to the Internet
- * Allows Systems Technicians to Conduct Real-Time Training, Testing, Trouble Shooting and Diagnostics

WIRELESS NETWORK CONNECTIVITY

Wireless Network Connectivity for Business Applications

- * Factory installed wireless card inside CNC controller
- * Conforms to 802.11N and 802.11G standards



- * Connects to either a wireless G or N local area network (LAN)
- * Provides wireless G or better performance for part program downloads, remote help, or other network tasks.

HYPERTHERM PLASMA CONSUMABLES

Hypertherm Consumable Starter Kit

- * Includes Consumable for Mild Steel Cutting
- * Includes Consumable for 45, 65 & 125 Amp processes

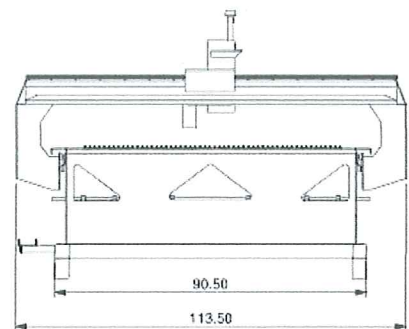
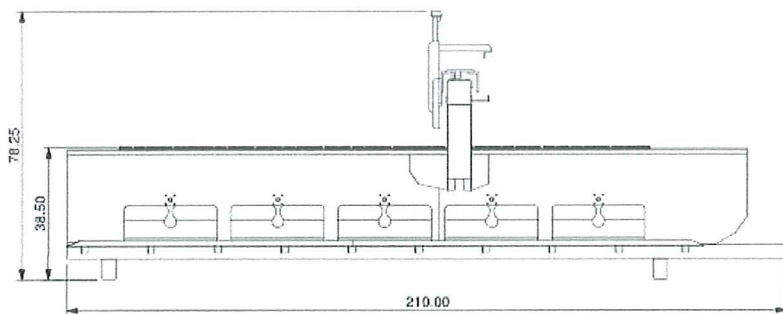
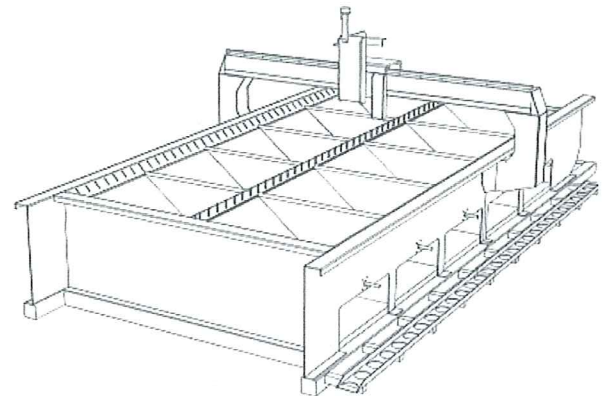
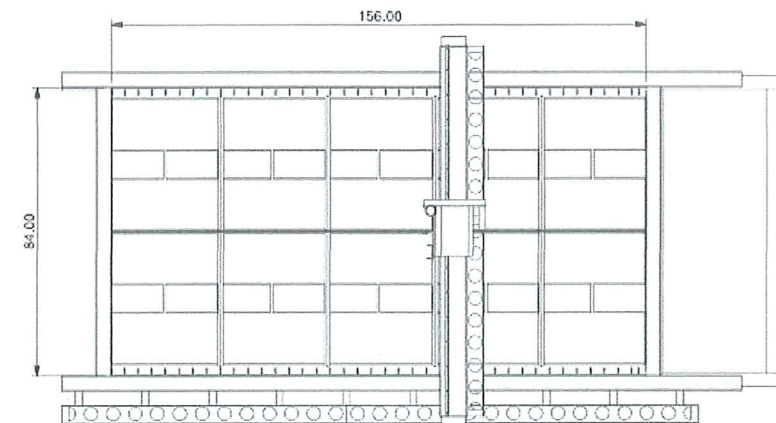
DOWN DRAFT TABLE

Eco-Draft Table

- * 7.0 ft. x 13.0 ft. (2.13 m x 3.96 m) Cutting Area
- * Easy Operation and Maintenance
- * Efficient Zone Design to Maximize Collector Performance
- * Effective Capture and Removal of Heavy Plasma Smoke
- * Proven Design
- * Each Table is Divided into (5) Zones
- * (2) Clean Out Doors are Included per Zone
- * 1/8" (3 mm) Steel Outer Construction
- * Full Length Center and Two Side Exhaust Tube with Hinged Steel Damper Flaps
- * Zone Sections are 31" (0.79 m) Long to Maximize Exhaust System Efficiency
- * Damper Doors Controlled by Gantry Rail Position
- * Heavy Steel Clean Out Doors
- * Slats are Set Into Removable Slat Frame Assemblies
- * Each Zone Includes (7) Slat Frame Assemblies
- * Slat Frame Assemblies are Lifted Out for Easy Replacement

FUME EXTRACTION SYSTEM

Supplied by customer



Machine Dimensions

***Titan 713* - 7.0 ft. x 13.0 ft. (2.13 m x 3.96 m)**

Overall machine height: 78.25" (1.99 m)

Overall machine length: 210" (5.33 m)

Overall machine width: 113.5" (2.88 m)

Effective cutting length: 156" (3.96 m)

Effective cutting width: 84" (2.13 m)

Slat Height: 38.5" (0.98 m)



TERMS AND CONDITIONS

1. All quoted prices are in Canadian Dollars.
2. Approximately (2) Weeks lead time upon receipt of signed contract and deposit (actual date confirmed upon order and also confirmation of customer power is ready for plug in)
3. Proposal is valid for 15 days.
4. Certain technical specifications may change without notice
5. Payment terms: certified cheque in advance

IN CONSIDERATION OF the total sum of \$157,500.00 CAD, including of all sales taxes, paid by certified cheque, the receipt of which consideration is acknowledged, Oilpatch CNC Corp. of Calgary, Alberta (the "Seller"), Sells and delivers to _____ (the "Purchaser"):

(Purchaser)

Signature: _____

Print Name: _____

Title: _____

Date: _____

(Seller)

Oilpatch CNC & Robotics

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Manufacturing: 5024 - 49 Avenue, Ponoka, Alberta, Canada T4J 1R7

Phone: 403.790.0100 Fax: 403.790.0101

Signature: _____

Print Name: _____

Title: _____

Date: _____