Swift-Cut

SMART CUTTING SOLUTIONS

SWIFT-CUT MODEL PRO44WT

Lakeview Public Schools

Cottonwood, MN

Prepared by: **Mike Hagen**
312-858-0316
michael.hagen@swift-cut.com
Swift-Cut Automation USA Inc,
212 S. Meadow Rd.
Plymouth, MA 02360

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Valid From: 10/25/2021
Valid To: 12/30/2021

Prepared for: **Lakeview Public Schools**
Attn: Daniel Hoffman
Cottonwood, MN
630-350-3012
danielhoffman@lakeview2167.com

Model PRO44WT CNC Plasma Cutting Table

- Cutting area (4' x 4')
- Dropped rails for ease of loading
- Gantry parking to allow full sheet to be loaded overhead
- Heavy duty steel frame – total weight for table only 2200lbs
- **NEW** Linear motion guides and bearings for improved rigidity and accuracy
- Dual side drive Y-axis to maintain square gantry and perfect motion
- **NEW** Powerful 566 oz-in motors with encoders for closed loop positional feedback and most accurate motion.
- Robust rack and pinion drive system in both axis
- **NEW** Soft sense to properly establish initial torch height – critical for thin materials
- **NEW** Fully enclosed cutting head to protect key components from harsh environment
- **NEW** MK4 Stand-alone operators console with touchscreen HMI
- **NEW** Laser Alignment System for easy visual alignment
- **NEW** automatic voltage sampling to establish proper standoff for DTHC below
- Digital Torch-Height Control (DTHC) Ballscrew driven for most reliable and accurate delivery of the torch. Sets industry standard for maintaining the most accurate torch-to-plate standoff.
- Dynamic Cut Control (DCC) Automatically sets and adjusts amperage directly from program based on material and thickness for best cut quality. Monitors and adjusts air pressure, automatically.
- Ability to pierce/process up to 1" thick metals, depending on the Hypertherm Powermax unit selected
- Spring loaded torch mount eliminates damage to torch by immediately stopping motion

Swift- Cut CNC Touchscreen Operators Console

- *NEW -* Touchscreen HMI with optional mouse control
- *NEW* - Plate Alignment – Align the cutting path with misaligned sheets on the table.
- *NEW* – "Connect-The-Dots" Sheet Trim to follow scrap contour to trim and maximize material utilization.
- *NEW* – "Point-and Click" Cut Recovery System to restart cutting process from interrupted cutting
- *NEW* – Standard and Advanced screens for operators with varying experience
- *NEW* – Advanced Importer for JPEG/DXF/DWG/DSTV files, as well as pre-nested DXF or DWG files
- *NEW* – Automatic Lead-ins and toolpath generation as standard
- Wireless keyboard and mouse for ease of use
- Dual core CPU Intel i3 processor, 128GB solid state hard drive, 4 GB RAM
- External USB and Ethernet connection for customer networking
- Teamviewer remote diagnostics and/or training through WIFI or Ethernet connection
- E-stop safety button

Swift-Cam Software Package Included

Swift-Cam Standard CADCAM Software
Features include: Advanced Importer, Automatic Lead-in and Toolpath Generation, conversion of any DXF file to Swift-Cut machine code and the manual nesting of parts, generic shapes, preloaded cut tools, consumable recognition photos)
- *NEW* Advanced Importer Features: Drawing scaling, auto-correct CAD drawing imperfections: overlapping lines, disconnected line segments, (Set tolerance for acceptable gaps), delete/ignore specified geometries within drawing.)
- *NEW* – One piece software design for programming and Machine operation.
- Standard and Advanced screens for operators with varying experience
- Solid Edge 2D; CAD Drawing Program resident on PC
- Windows 10, 64 bit operating system
- Team Viewer for "anywhere" on-line diagnostics/ support

Hypertherm Powermax Unit, Torch and Other Items Included

- **Powermax65** Pierce and cut 5/8" thick. Includes CPC and Serial Ports.

- **Duramax Machine Torch** X 35' LONG (059478)

- **Work Lead** (223200)

- **Swift-Cut Custom Consumable Kit** (Only genuine Hypertherm consumables - Includes Fine Cut)

Additional Items Included

- **Installation and on-site training** provided by factory-trained technician (One day included with PRO Series tables.)

- **Custom three-stage air filtration** for proper air quality to Hypertherm Powermax unit, ensuring best cut quality

- **Water conditioning:** 5 gallons anti-rust for water table

Terms and Conditions

1. Includes installation and on-site training (1 day total)
2. Includes telephone / internet technical support.
3. 1 year warranty (parts only).
4. Ships in 6 - 8 weeks from stock in Plymouth, MA (lead time is subject to review at the time of order)
5. Quotation valid for 30 days.
6. Payment terms: 50% with order, 50% prior to shipment
7. Prices exclude taxes.
8. F.O.B.: Plymouth, MA (Shipping **not** included)

Total Price for Above System	$34,590.00

Swift-Cut:

Mike Hagen **Date:** **10-26-21**

Accepted By: **Date:**

Available Options		Price
• **Upgrade to Model PRO48WT** *(All specifications identical to PRO44, except 4'x8' total cutting area.)*		Add $5,500
• **Swift-Mark Engraving Tool** – pneumatic tool, permanently mounted Next to torch for marking part numbers, press brake bend lines, layout work Etc.		$2,695
• **Swift-Cam Advanced Nesting Software** – one click, automatic trueshape nesting. Maximizes material utilization with multiple part nesting, parts inside of parts, etc.		$ incl
• **CAD Advanced Version** – Two seats		~~$1,000~~ Incl.

Layout drawing with power requirements found on next page

Swift-Cut

Air Purity Requirements:
Air must be clean & dry, free from oil & moisture as per:

ISO 8573-1 Class 1.2.2

13' cable from the control box at the rear of the table to the Powermax units.

15' Console cable to control cabinet at rear of table

e-stop

PLAN VIEW ON LAYOUT

45"
69"
84" OVER GANTRY
75.5" OVER MACHINE
16"

e-stop

FORKLIFT POCKET SPACING

3.0"
7.0"
31.5"
7.0"
3.0"

Notes:
Table power requirement 1ph 110/16A OR 230V/10A

Table should be level within .080" over 11' on Y Axis & .040" over 5' on X Axis

REAR VIEW

59"

Hypertherm	Input Voltage	Recommended Gas Inlet Flow Rate at 6 Bar
PMX 45XP	200-240V, 1PH, 39/32A	400 SCFH
PMX 65	480V, 3PH, 9.4A	
	200/208/240/480V, 1PH, 52/50/44/22 A	
PMX85	200/208/240/480/600V, 3PH, 32/31/27/13/13 A	400 SCFH
	200/208/240/480V, 1PH, 70/68/58/29 A	
PMX105	200/208/240/480/600V, 3PH, 42/40/35/18/17 A	400 SCFH
	200/208/240/480/600, 3PH, 58/56/49/25/22 A	460 SCFH
PMX125	480/600V, 3PH, 31/24 A	550 SCFH

DRAWN - DW	TITLE: PRO44 TABLE LAYOUT	SCALE 1:40
DATE - 10/10/2018		
CHECKED - TM	DWG No: 9126	ISSUE
DATE - 10/10/2018	NOTE:	1

Estimated Table Weight 1,760LBS

ISSUE NO	DESCRIPTION	DRAWN	DATE	CHECKED	DATE
1	FIRST ISSUE	DW	10/10/2018	TM	10/10/2018

ISSUE LIST