

MX7
CUTTING SYSTEMS

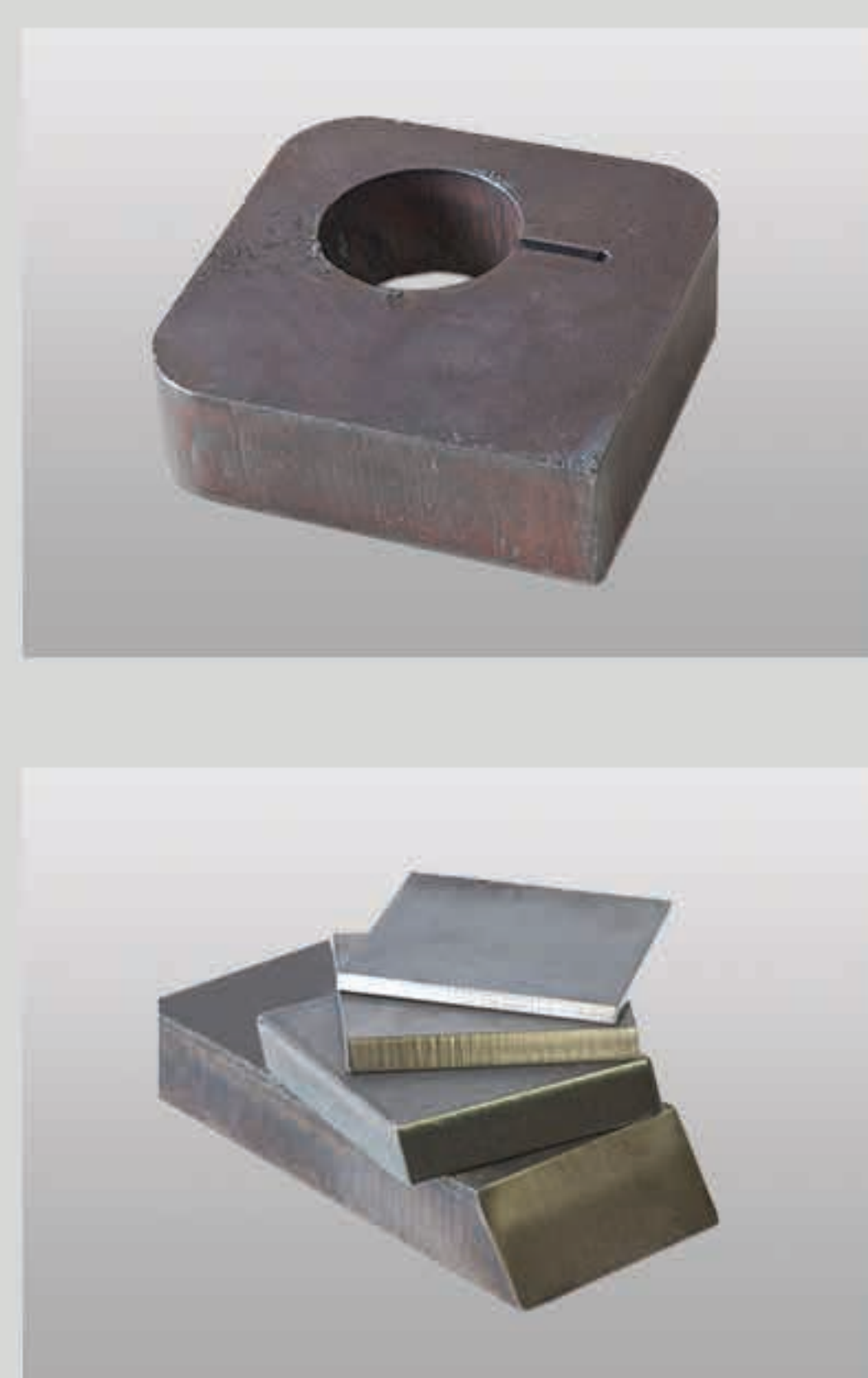


CATALOG

CNC | CUTTING
TABLES



HGCUT



● Main components

- CNC controller: American, European and Hugong brand options
- Automatic THC: Hypertherm and Hugong brand options
- Servo motor: Panasonic
- Gear box: Germany brand NEUGART
- Linear rail: TBI or HIWIN
- Relay: Omron
- Breaker: Schneider
- Nesting software options
 - Australian: FastCAM PRO
 - American: Hypertherm Turbonest
 - American: Hypertherm ProNest
 - American: SigmaNest

● Specification

Model	HGCUT
Cutting model	Plasma, Flame
Input voltage	110/220/230/240V, 220/380/400/415V, 50/60HZ
Rail width	3000-6000mm
Effective cutting width	800mm less than rail width(2 CNC torches)
Rail length	Customer's requirement, 8000/12000/16000mm
Effective cutting length	2000mm less than rail length
CNC controller	15" /17" colorful monitor, USB port
CNC torches	1-4 sets
Positioning accuracy	±0.5/1000mm
Repeating accuracy	±0.2/1000mm
Positioning speed	12,000mm/min
Flame cutting gas	Acetylene, Propane, LPG
Flame cutting thickness	5-150mm
Flame cutting speed	50-750mm/min
Plasma cutting thickness	Due to plasma unit
Plasma cutting speed	Due to plasma unit
Compatible plasma unit	Hypertherm: Powermax Series, HSD, Maxpro, HPRXD Victor: Cutmaster Series, AUTOCUT200/300

Working process




Option 1
Controllers

			
Standard: HG613, 17" monitor		Upgrade: Micro Edge Pro	Upgrade: Edgeconnection




Option 2
Plasma unit

			
Powermax series	Maxpro200	HPR260XD	XPR300


Option 3
Nesting software

		
Standard: FastCAM	Upgrade: Libellula	Upgrade: ProNest2017 LTS

Option 4
Torch Height controller

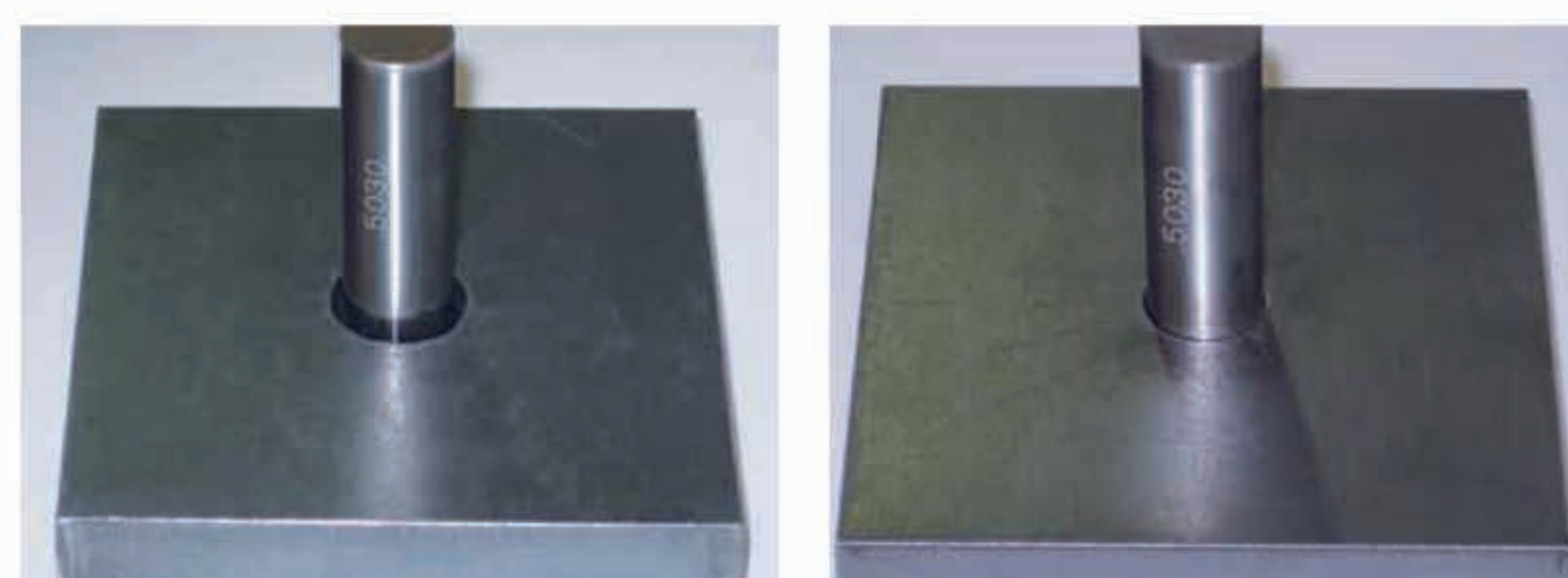
		
Standard: torch lifter	Upgrade: Micro Edge Pro	Upgrade: ARCGLIDE

Option 5
Machine at sites



- Principles:**
- ProNest creates high automatic interactions among CNC, THC, gas flow and torch actions.
 - Auto Gas Console improves piercing and cutting in quality and speed by changing gas flow timely.
 - Parameters in ProNest and CNC reduce IHS time, optimizes lead in/out and cutting speed automatically.

True Hole: 25mm diameter and thickness: 1:1

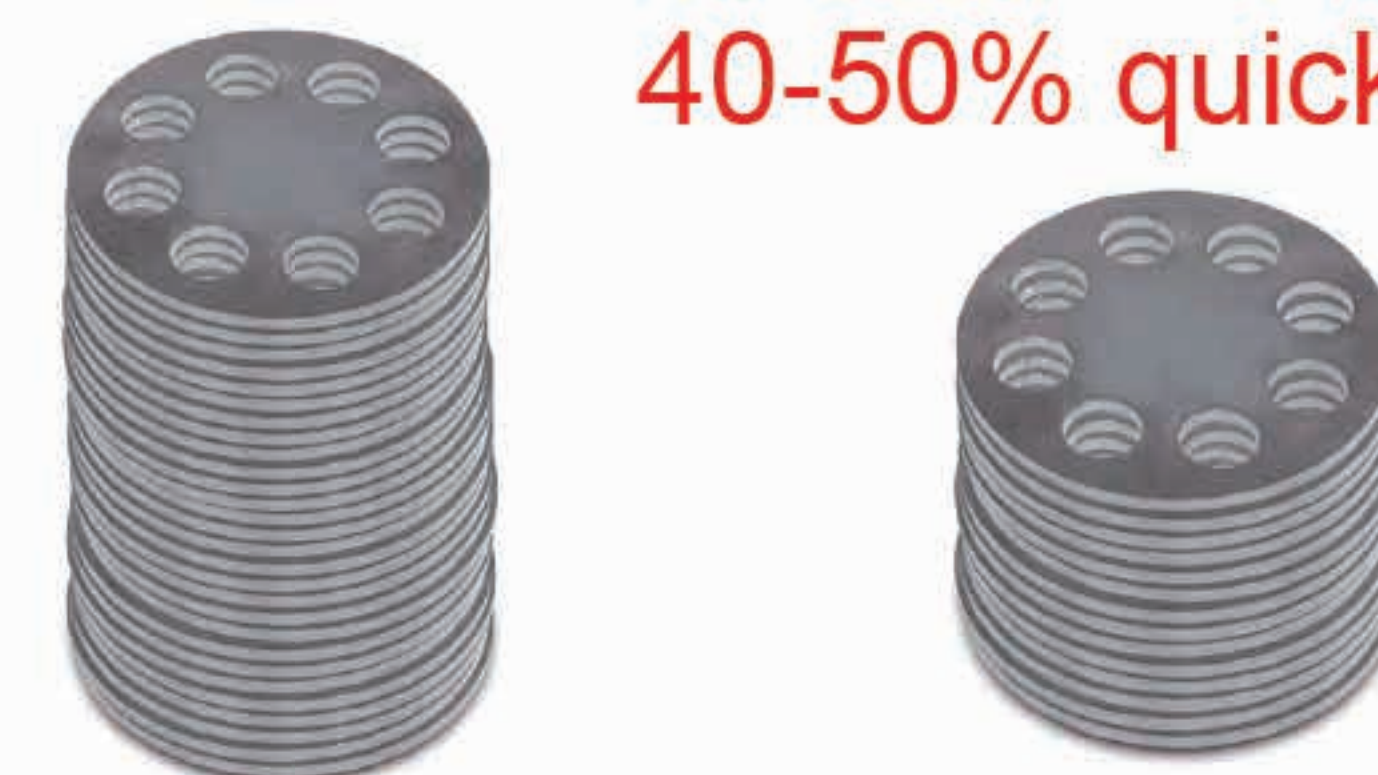


Not true hole

True hole

Rapid part: for small part only

40-50% quicker

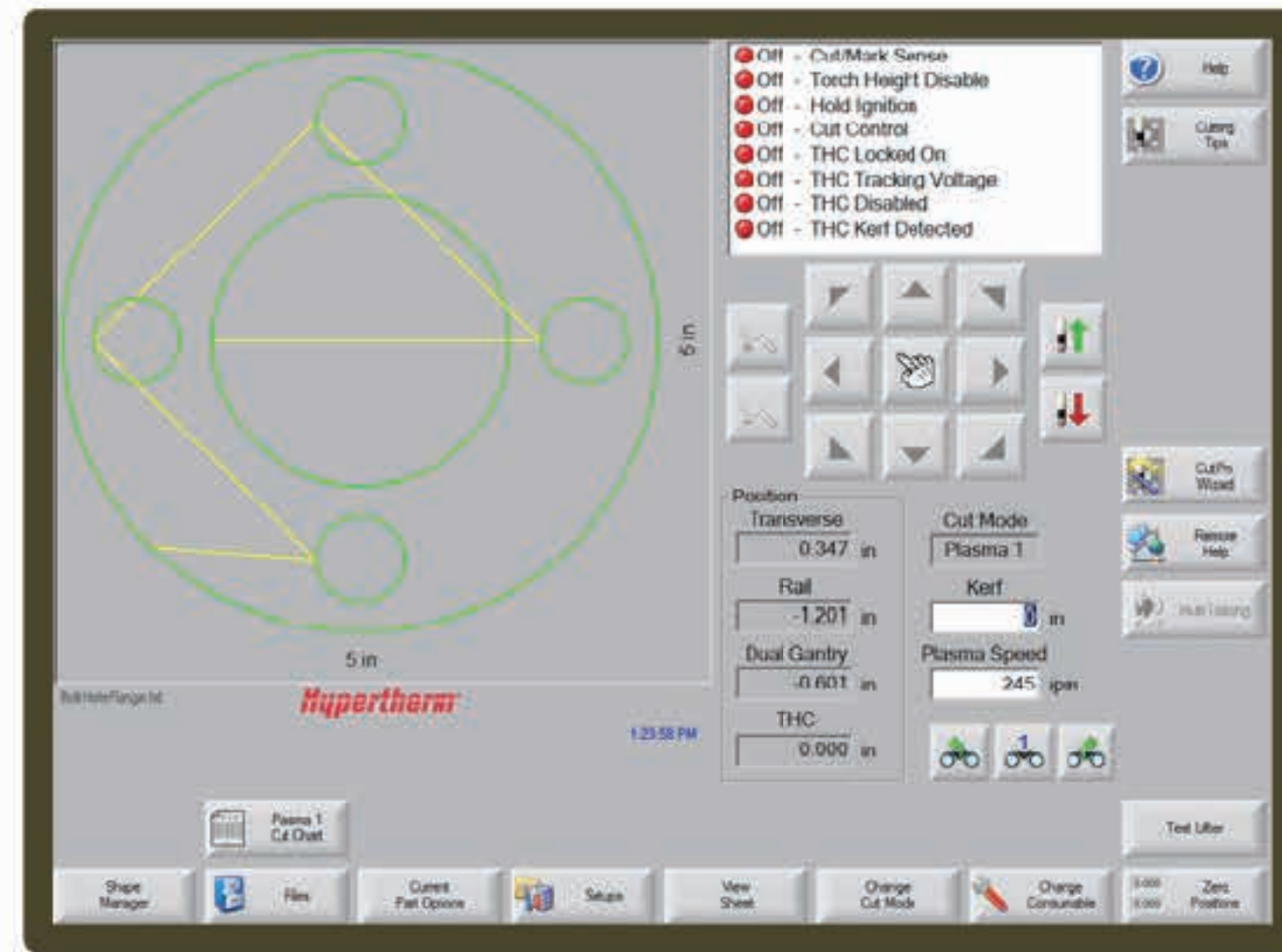


With rapid part

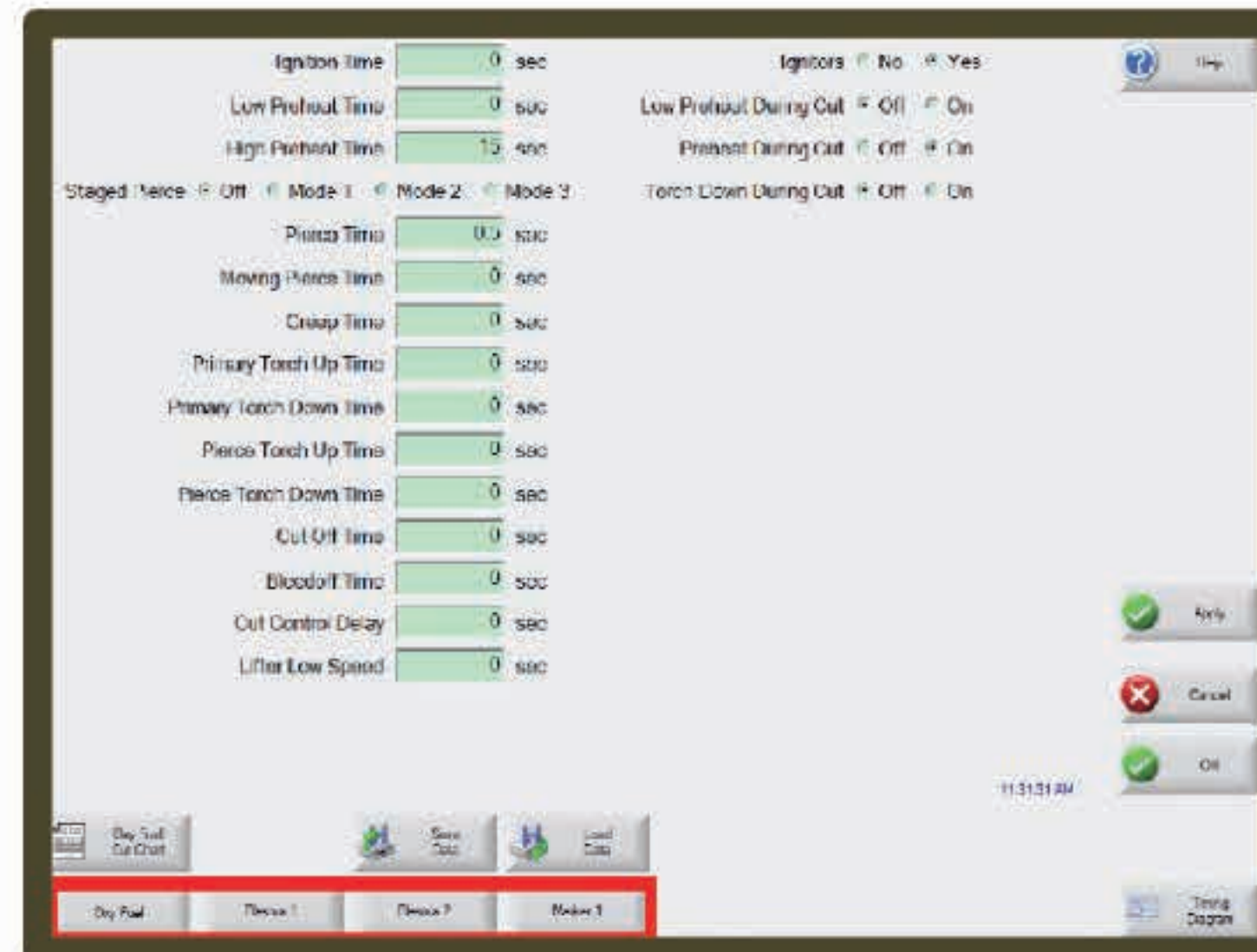
Without rapid part



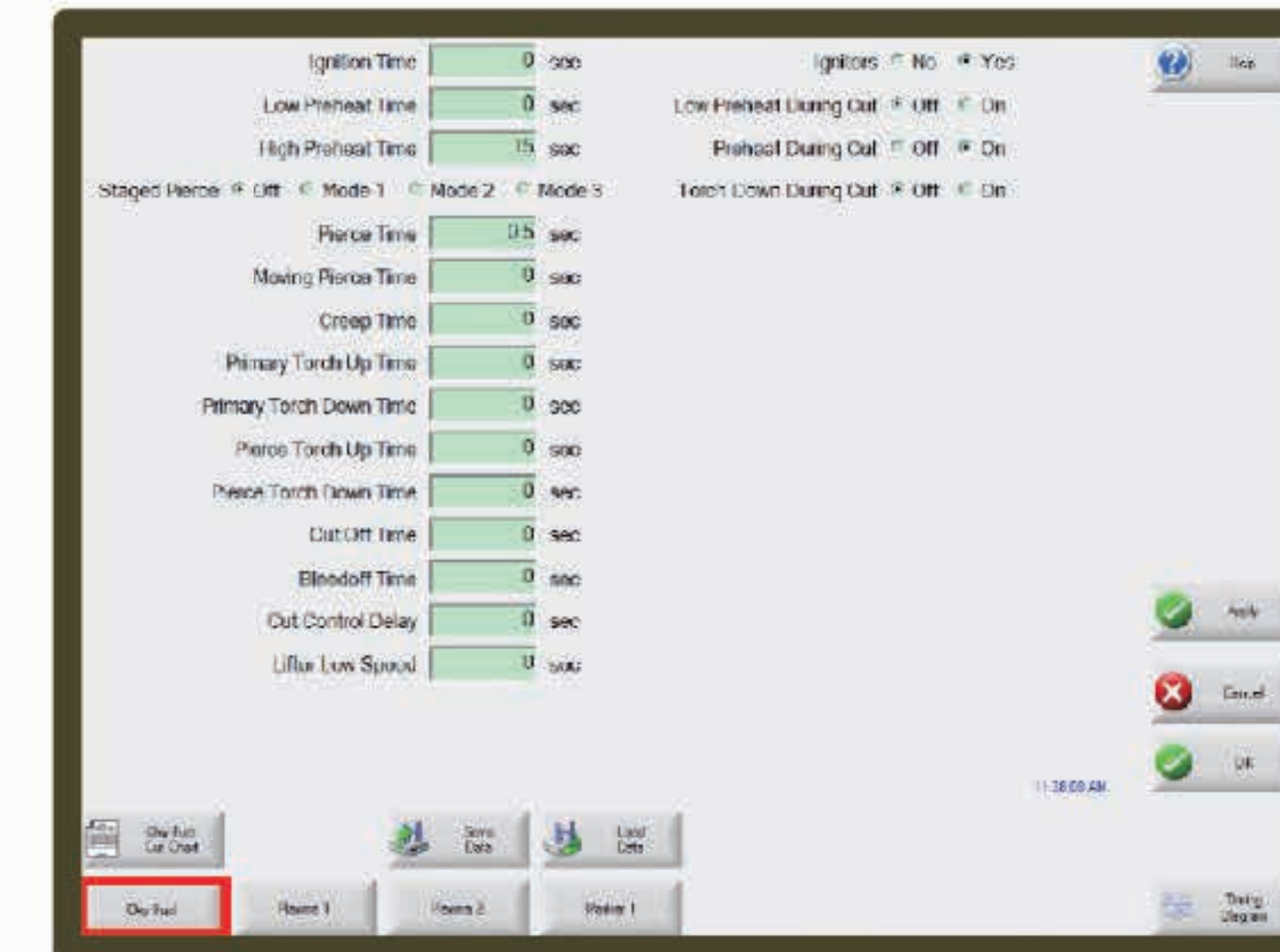
Hugong controller



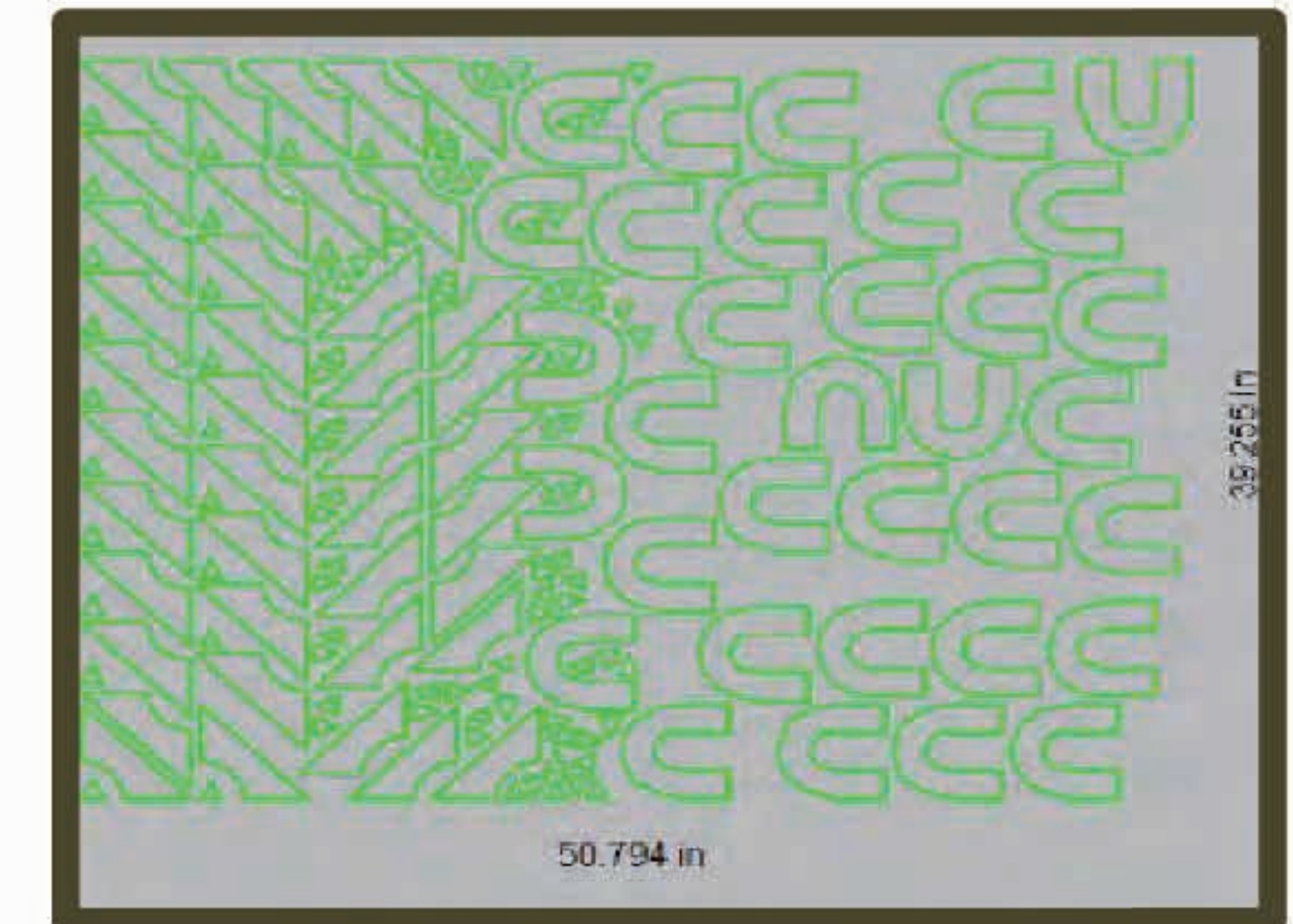
Colorful monitor



Cutting mode



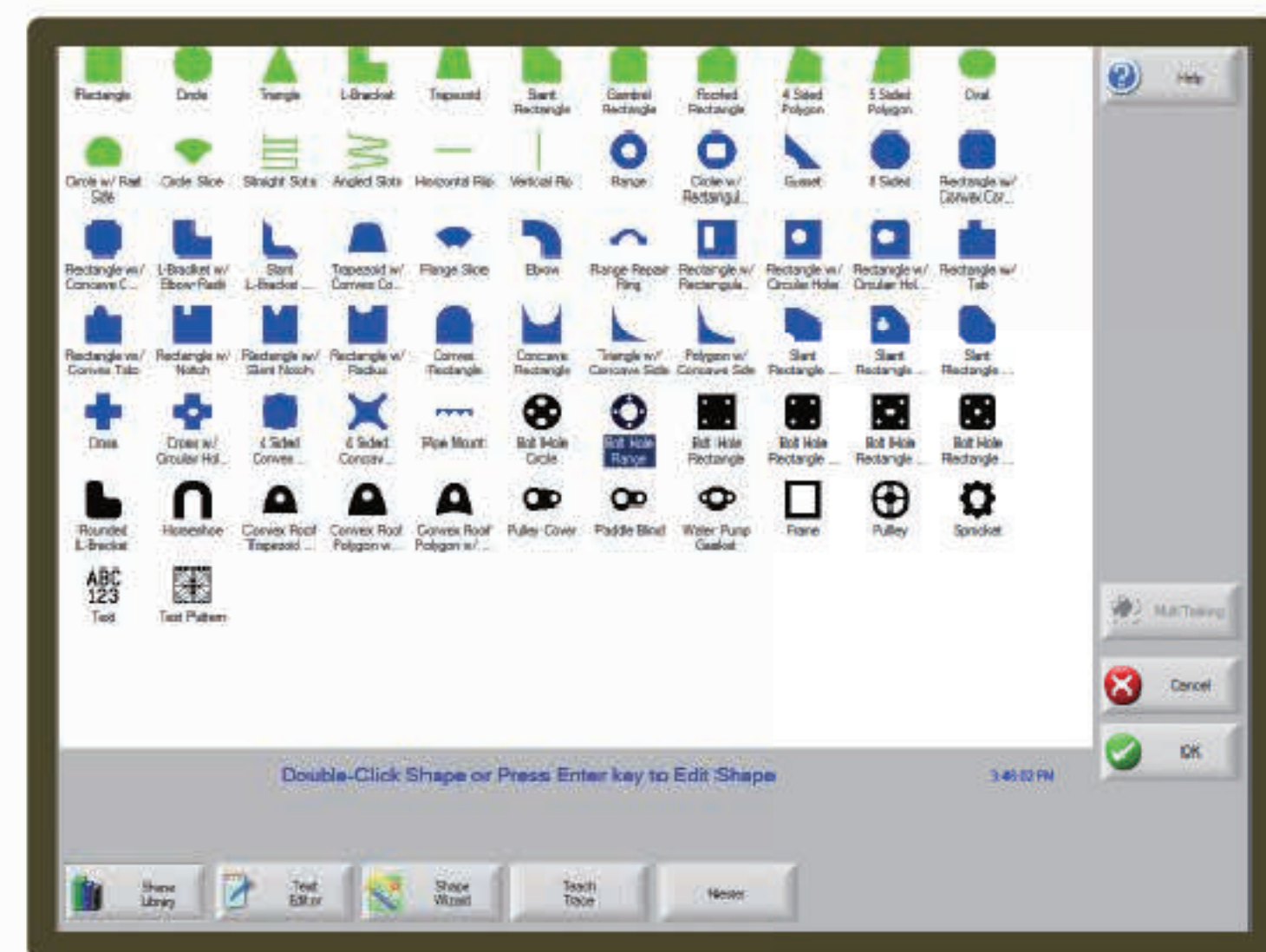
Flame parameters



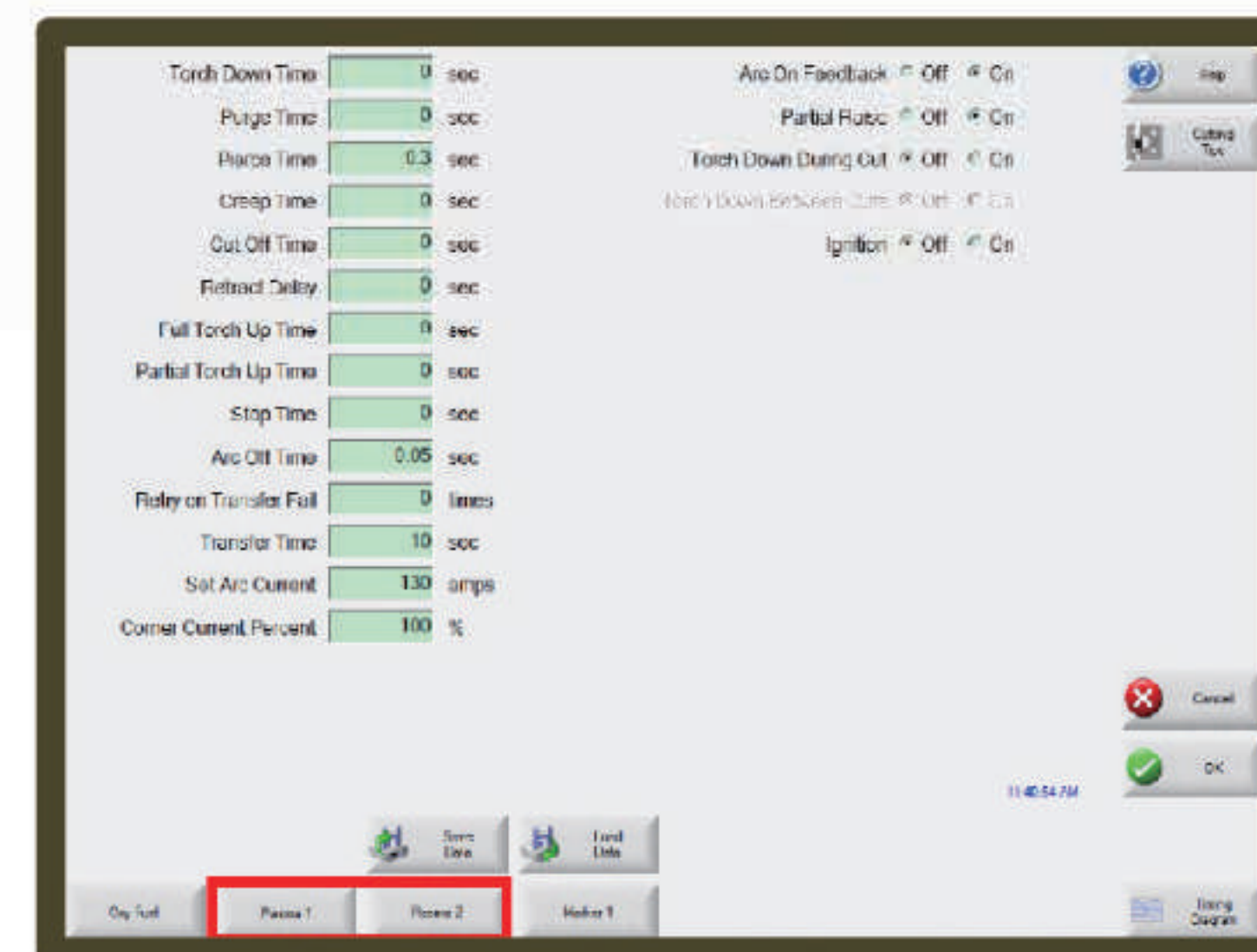
Nesting program



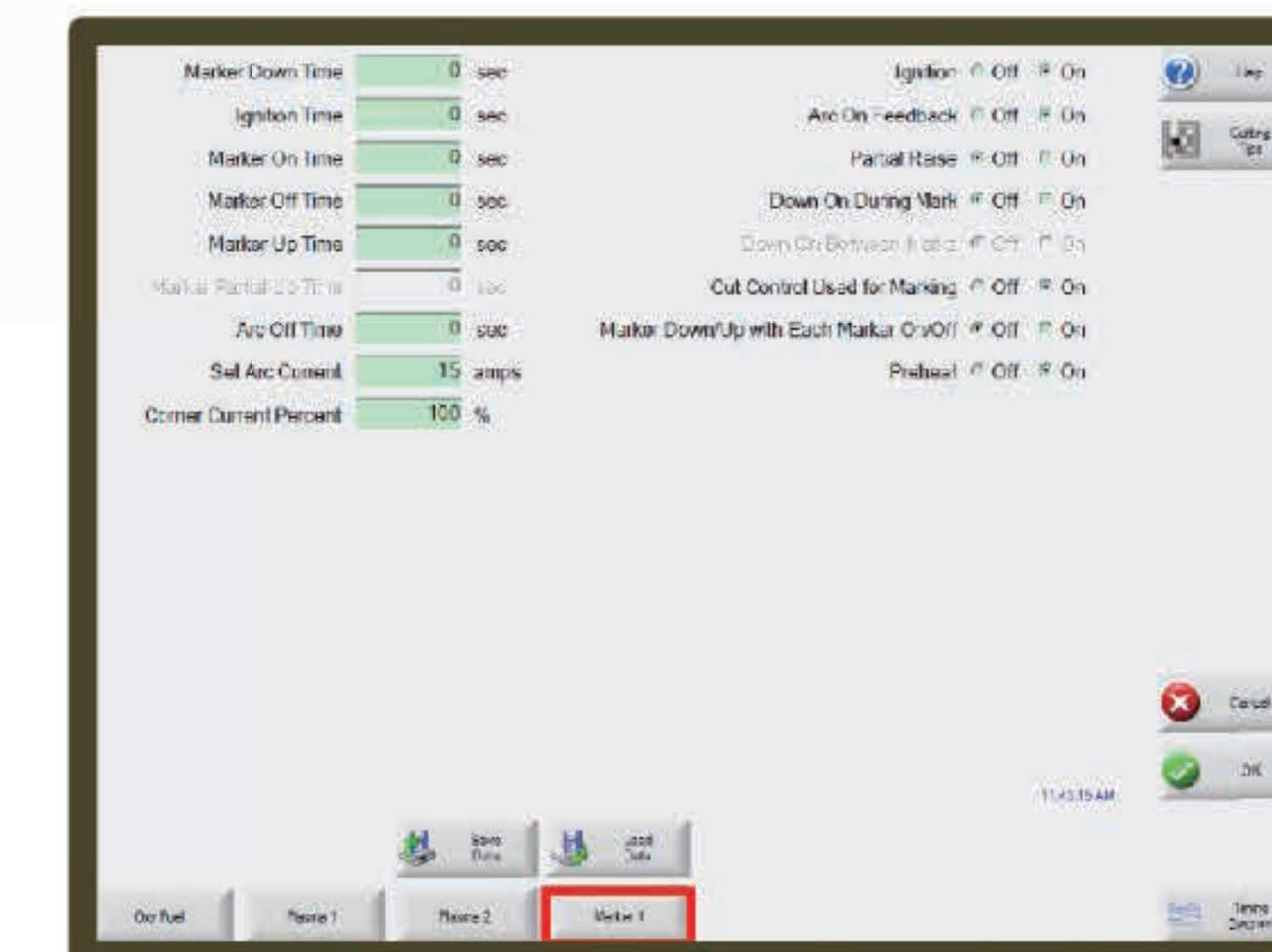
Hypertherm Controller



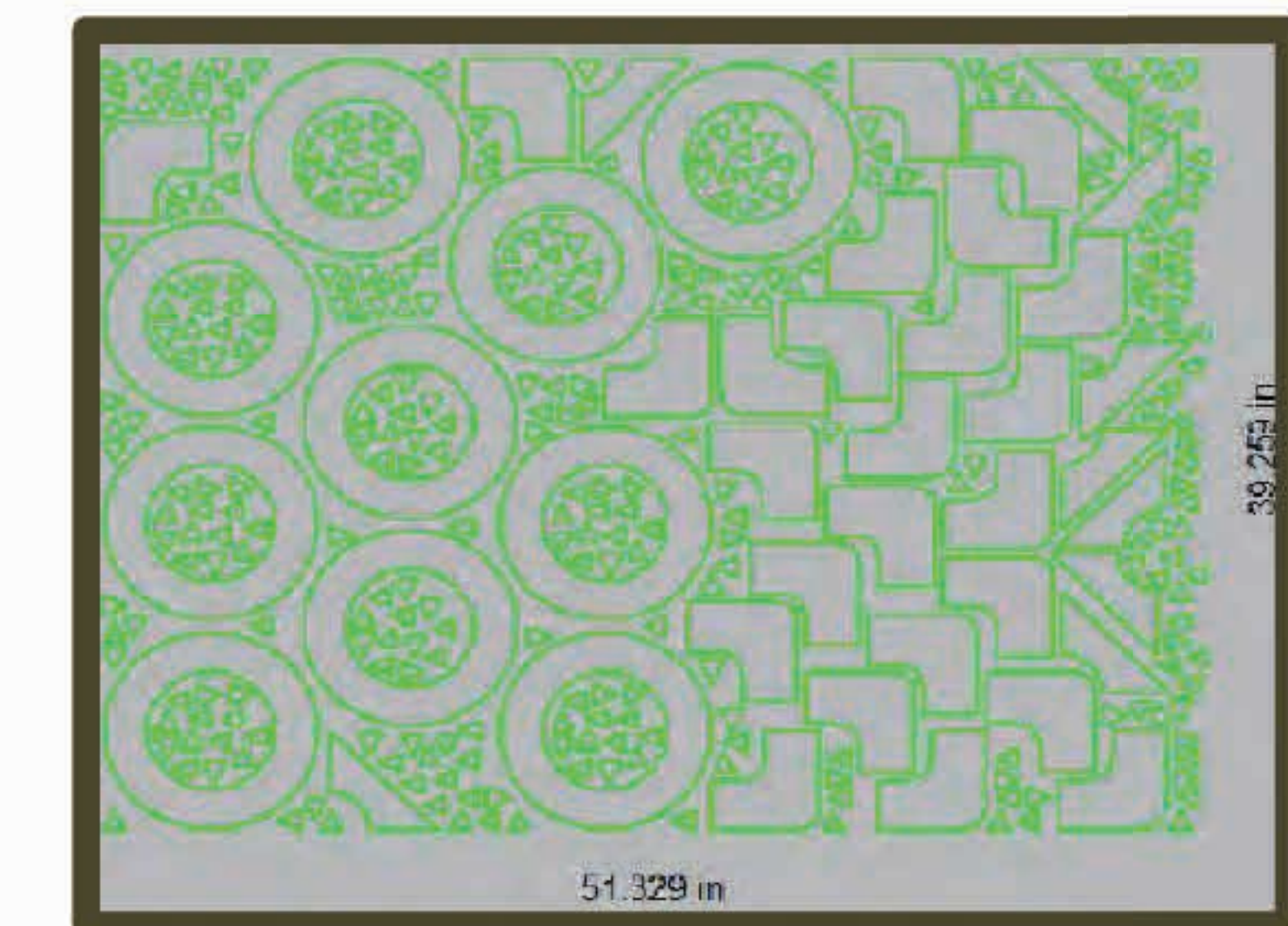
Shape Library



Plasma parameters

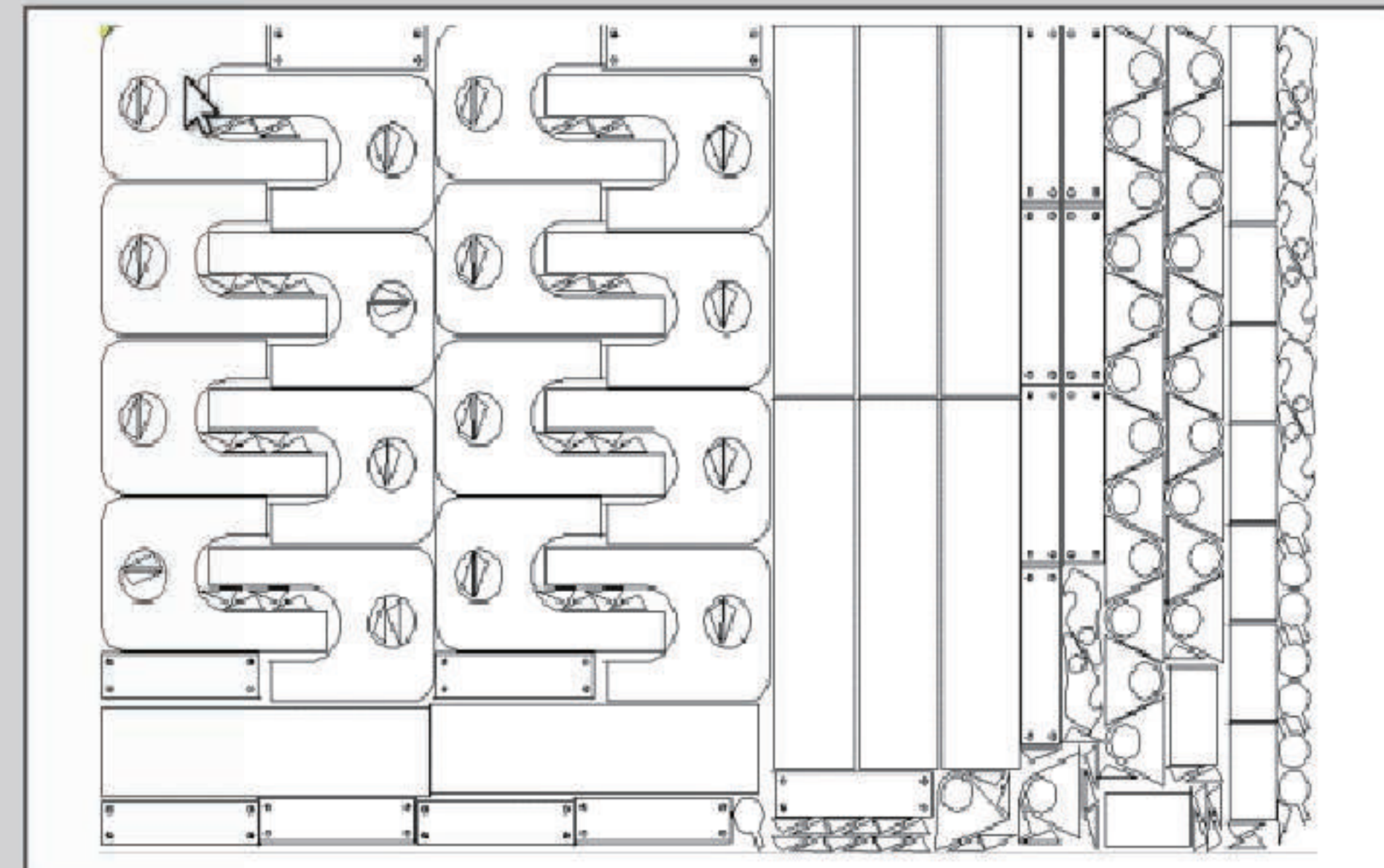


Marking parameters



Nesting program

AutoCAD
TEKLA
SolidWorks



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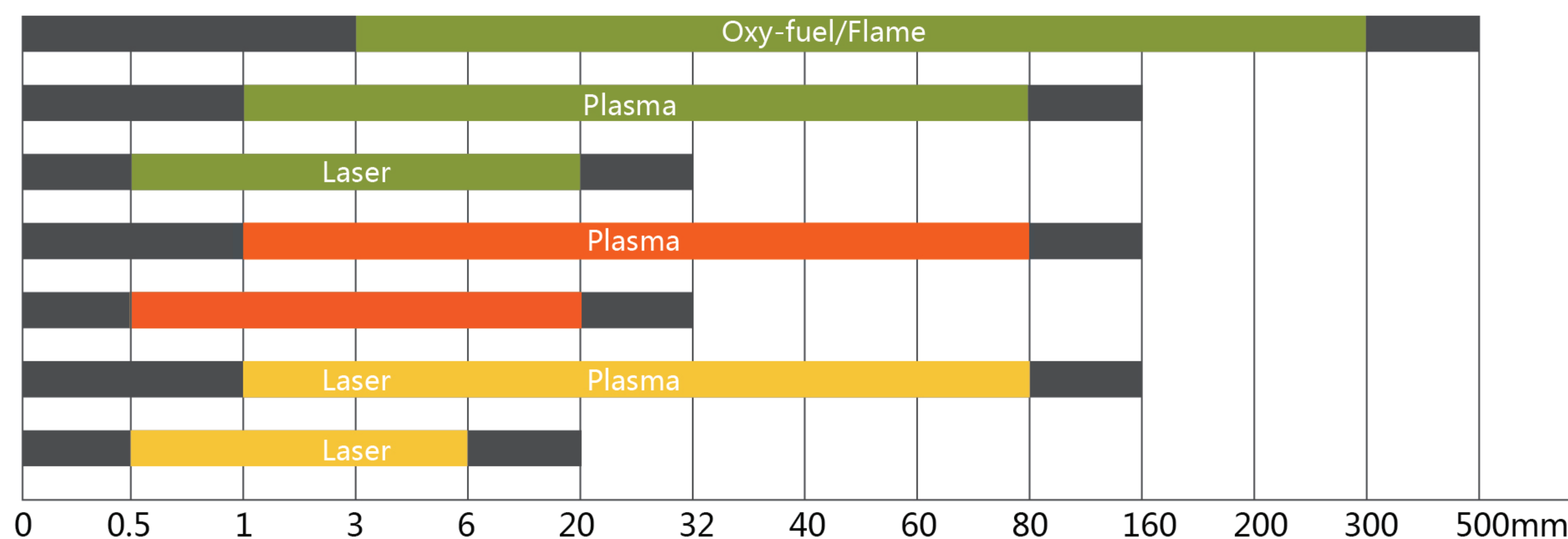
G99 X1 Y0 I0 J0
G91
G00 X117.54 Y11.01
G01 X-8.00 Y0.00
G02 X-5.00 Y-5.00 I-5.00 J0.00
G01 X-80.00 Y0.00
G02 X-4.83 Y6.28 I0.00 J5.00
G03 X-8.70 Y11.30 I-8.70 J2.30
G02 X-5.00 Y5.00 I0.00 J5.00
G02 X10.82 Y3.57 I6.00 J0.00
G03 X9.64 Y-4.85 I9.64 J7.14
G01 X35.00 Y0.00
G03 X0.00 Y30.00 I0.00 J15.00
G01 X-35.00 Y0.00
G03 X-6.71 Y-5.01 I0.00 J-7.00
G02 X-5.75 Y-4.29 I-5.75 J1.71
G01 X-3.00 Y0.00
G02 X-5.00 Y5.00 I0.00 J5.00
G02 X5.00 Y5.00 I5.00 J0.00
G01 X52.00 Y0.00
G02 X22.27 Y-12.59 I0.00 J-26.00
G01 X13.74 Y-22.82
G03 X8.00 Y4.81 I4.00 J2.41
G01 X-11.94 Y19.83
G02 X1.20 Y5.39 I3.43 J2.06
G02 X24.97 Y-2.19 I11.12 J-16.63
G02 X2.15 Y-5.05 I-4.85 J-5.05
G01 X0.00 Y-20.00
G02 X-4.44 Y-7.16 I-8.00 J0.00
G03 X-9.42 Y-15.22 I7.57 J-15.22
G01 X0.00 Y-30.00
G03 X3.00 Y-3.00 I3.00 J0.00
M08
G40
M02

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Plasma, Laser and Oxy-fuel cutting thickness

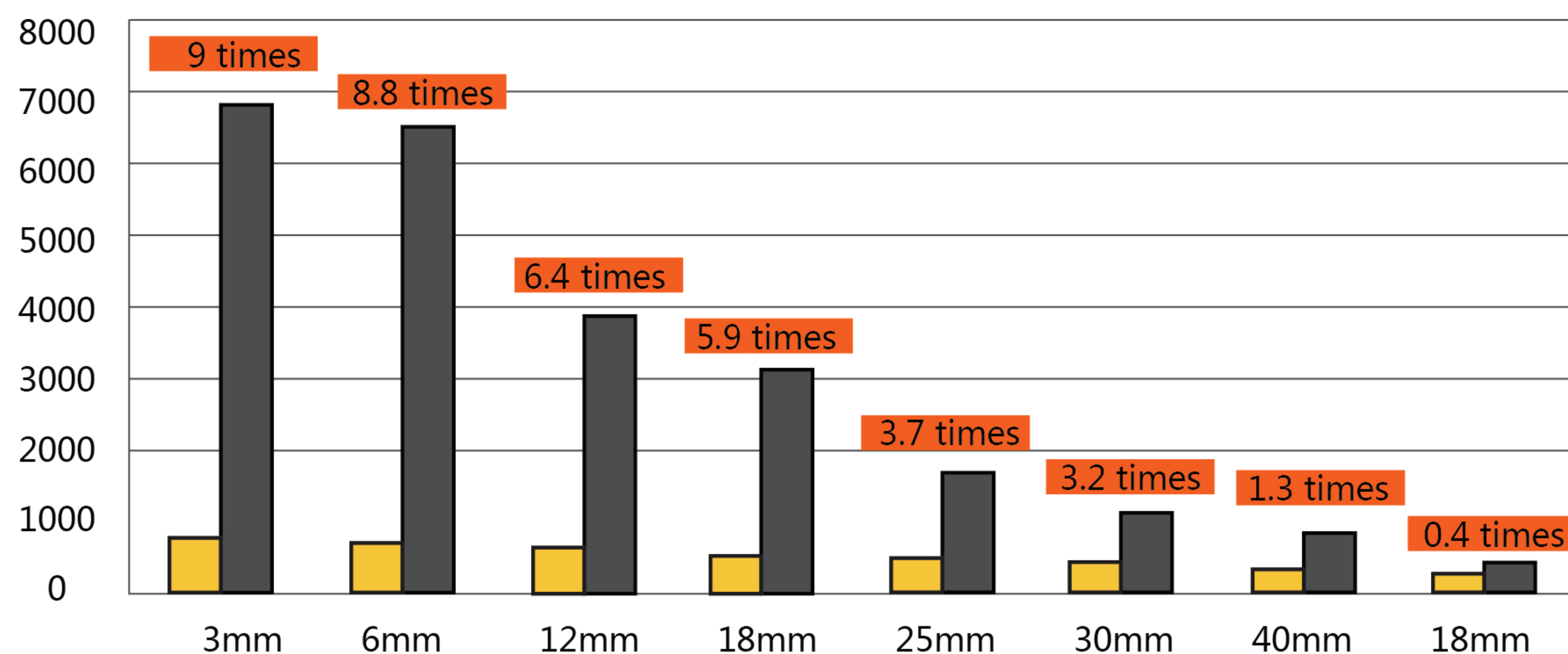


See our 50s years experience in cutting fields
Plasma cutting range: 1-80mm

Laser cutting range: 0.5-20mm

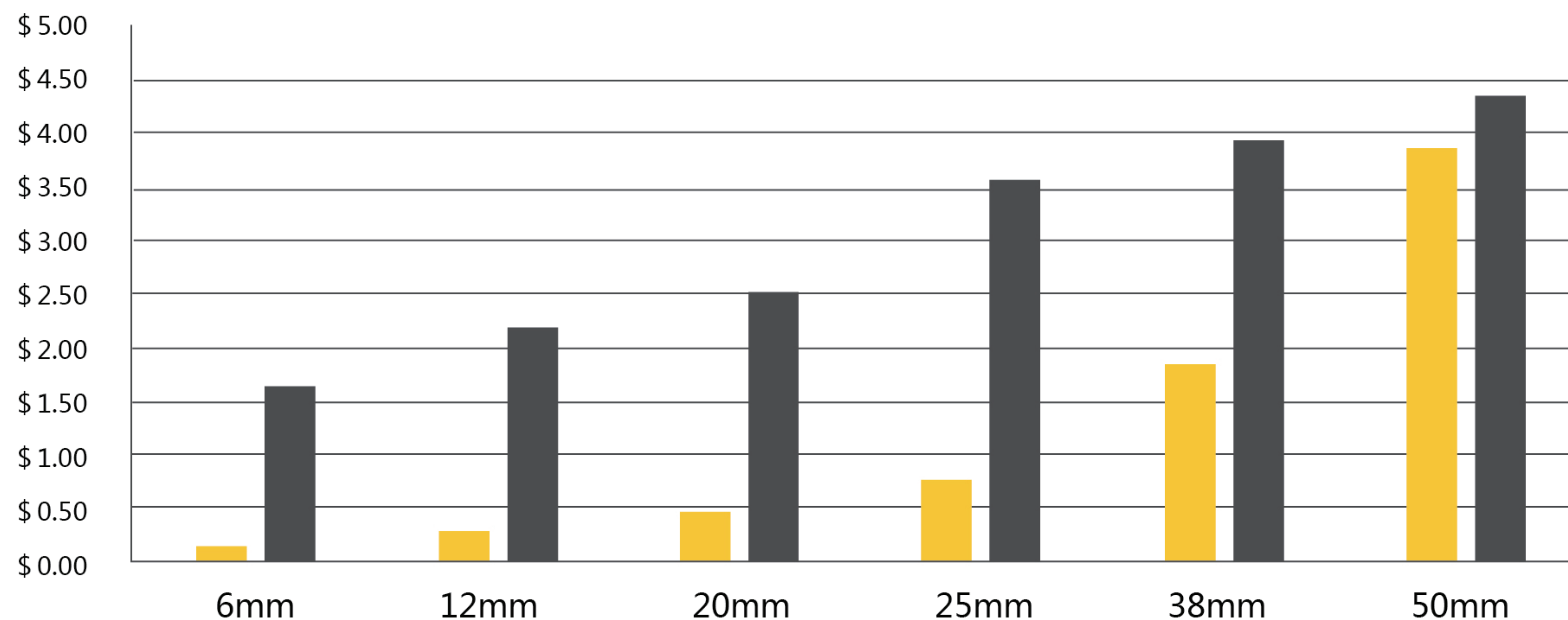
Oxy-fuel cutting range: 3-300mm

- Mild steel
- Stainless steel
- Aluminium



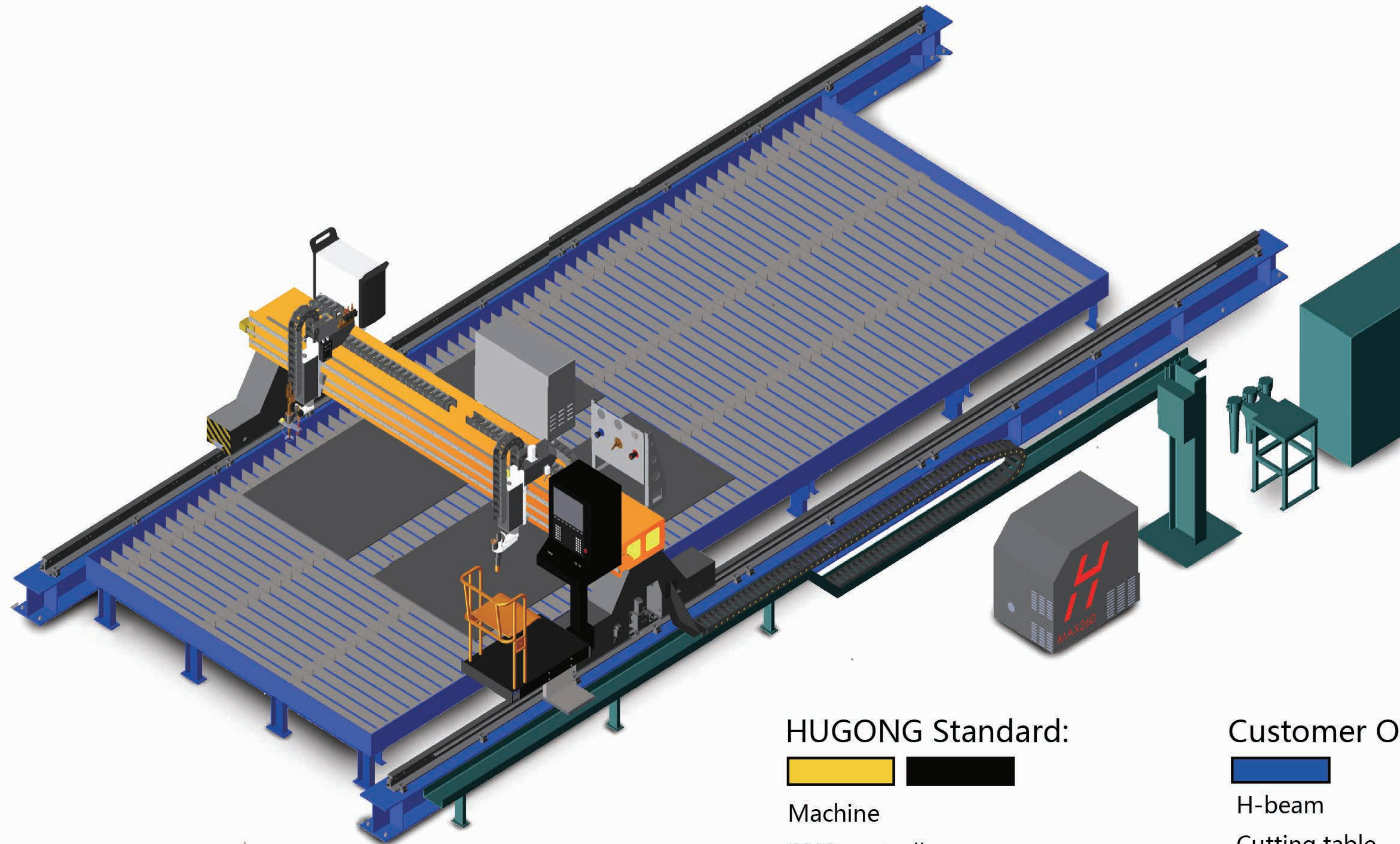
Cutting speed comparison between Plasma and Oxy-fuel
Cutting speed: mm/min

- 260A plasma cutting
- Oxy-fuel cutting



Cutting cost comparison between Plasma and Oxy-fuel
Cost for cutting 1m (3.3 feet) power cost, gas cost and consumables.
Labor cost is excluded. Savings for dress treatment is excluded

- 200A plasma cutting
- Oxy-fuel cutting



HUGONG Standard:



- Machine
- CNC controller
- Plasma power source
- Nesting software
- Rail

Customer Options:



- H-beam
- Cutting table
- Filter system

Customer Job:



- Base foundation
- Compressed air
- Air filter
- Electric power

Reference information for customer to prepare



THE NEXT GENERATION OF CUTTING TOOLS



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WE ARE EXPERTS IN CUTTING