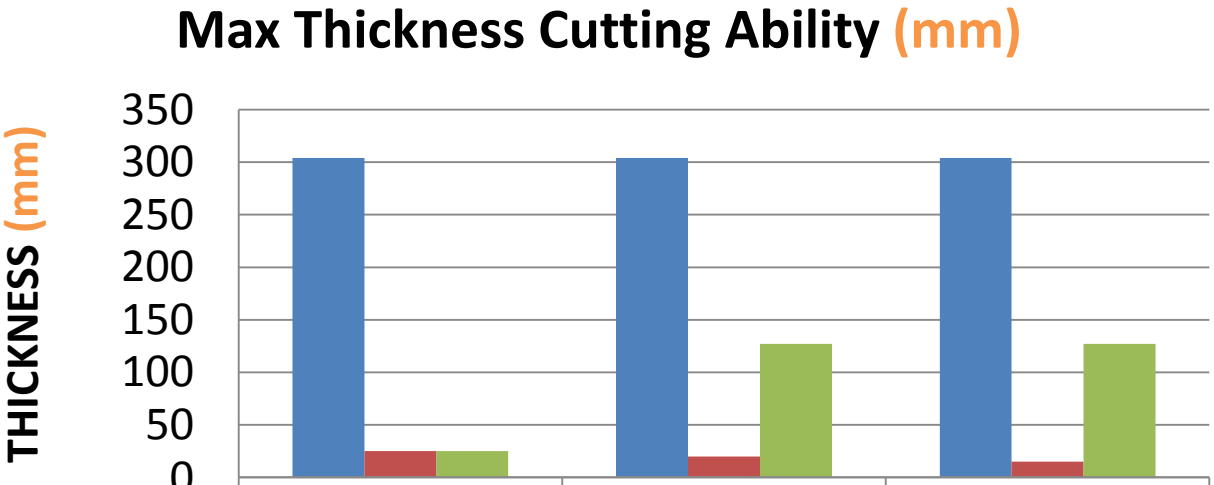
TECHNI Waterjet

INNOVATION THROUGH PASSION

INDEX

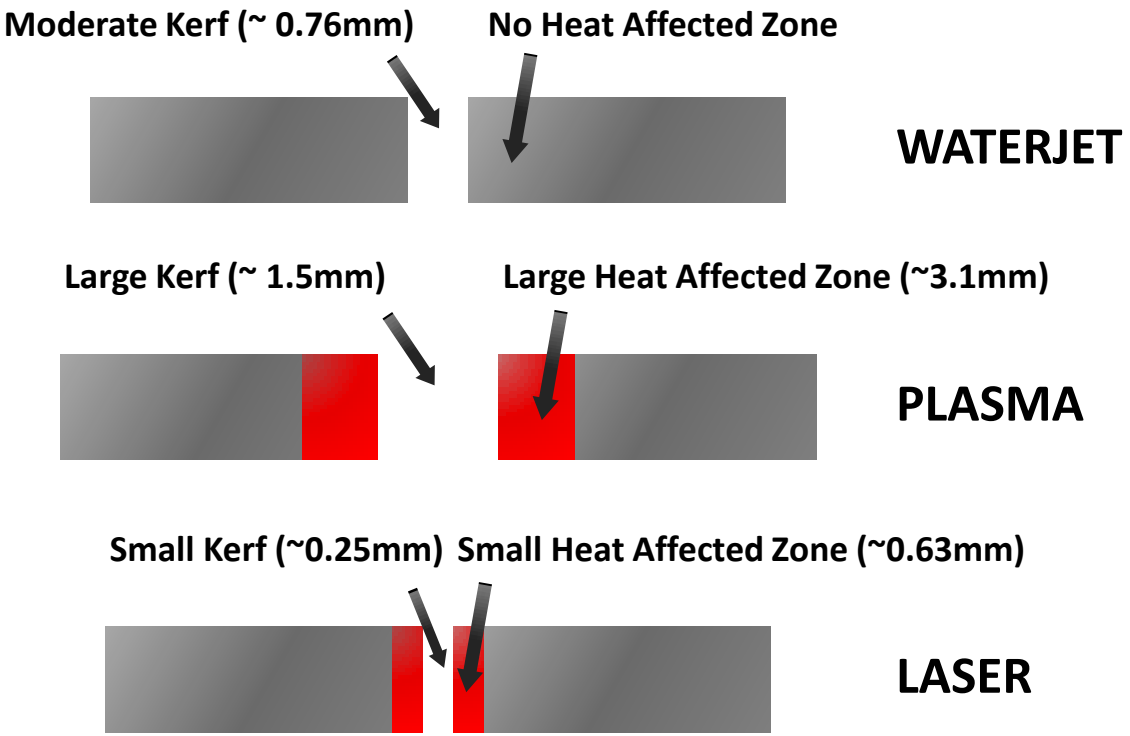
CUTTING TOOLS – MAX THICKNESS



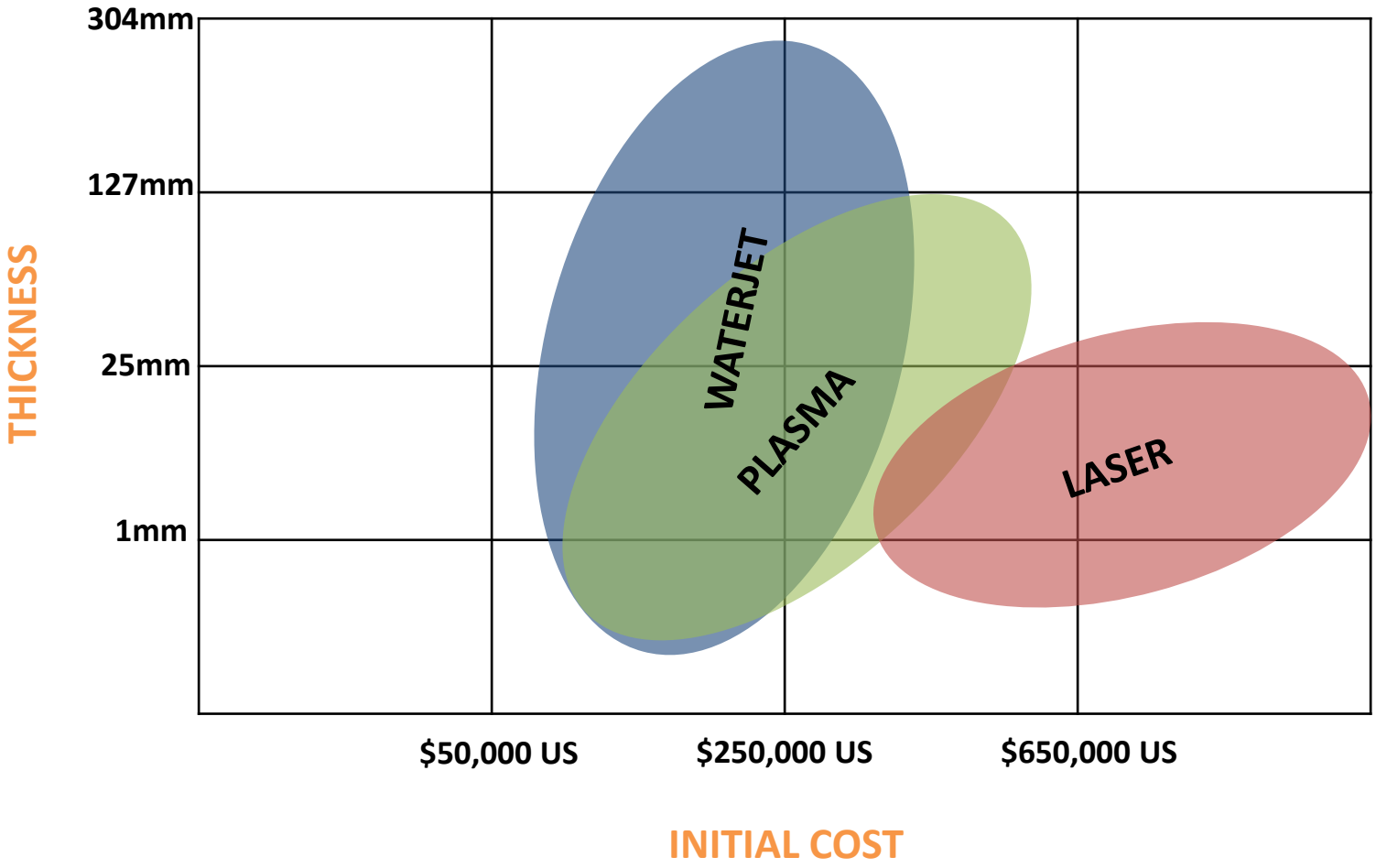
	Mild Steel	Stainless Steel	Aluminum
Waterjet	304	304	304
Laser	25	20	15
Plasma	25	127	127

CUTTING TOOLS – HEAT AFFECTED ZONE

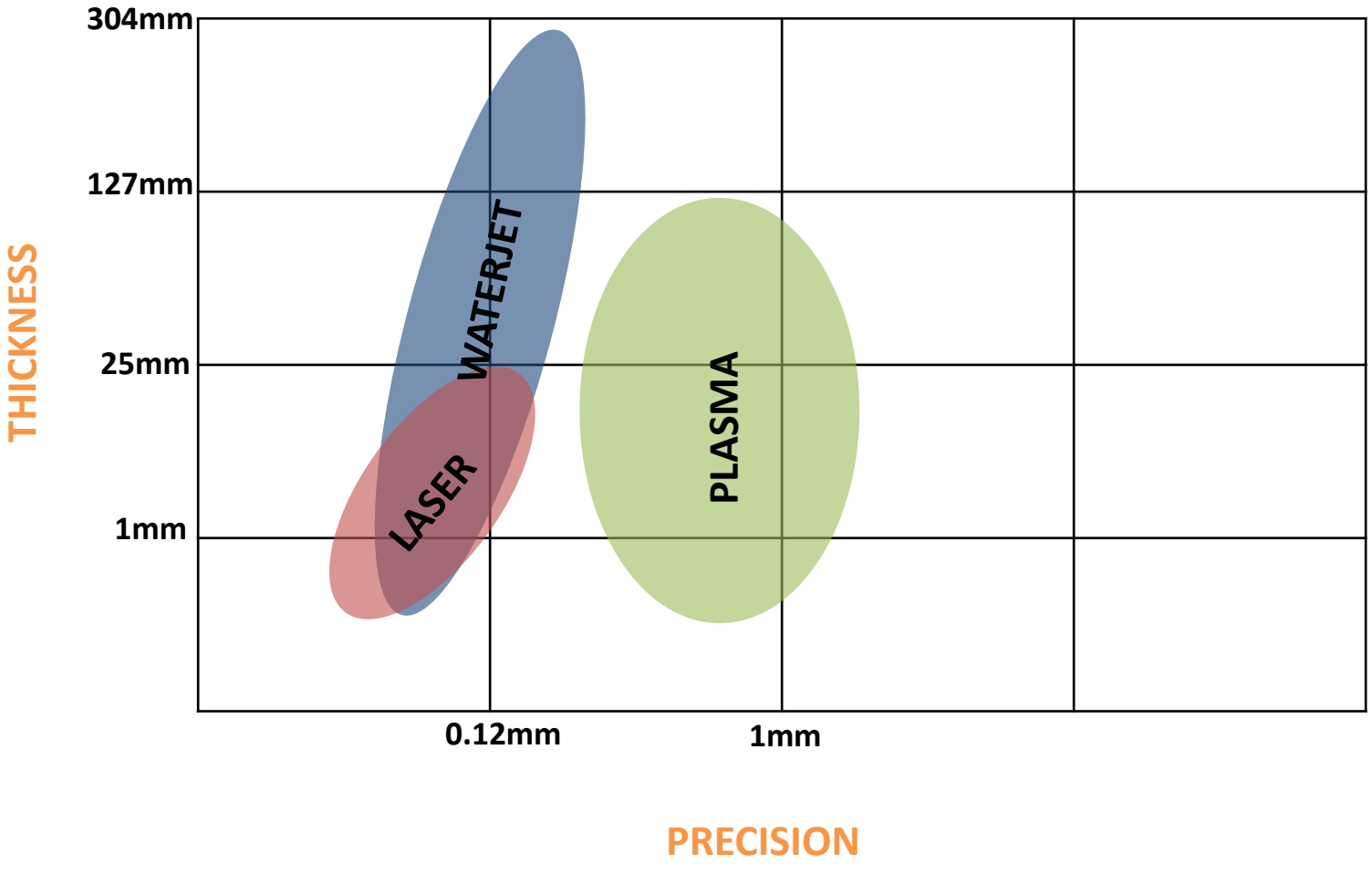
One of the biggest advantages is water jet's inherent cold cutting quality. This allows materials to be cut that would be burned, melted, or cracked by other cutting methods. Some thermal processes cause surface hardening, warping and emission of hazardous gasses. In contrast, materials cut with waterjet undergo no thermal stress, eliminating such undesirable results.



CUTTING TOOLS – INITIAL COST & THICKNESS



CUTTING TOOLS – THICKNESS & PRECISION



CUTTING TOOLS – WATERJET ADVANTAGE

Multiple cutting heads increase the net feed rate

Stack cutting of thin sheet materials increases net productivity

No heat affected zone

Secondary operations often not required

Cut up to 304mm

Precision: 0.025mm

Less Capital Cost

No Harmful Gases

Environmentally Friendly

Lower Running Costs

Versatile –Cuts Any Material

Glass
Fibre Glass
Rubber
Corkboard
Foam
Food
Plastic
Fabrics
Titanium
Copper
Brass
Monel
Composite
Kevlar
Graphite Laminates
Nickel
Stainless Steel
Mild Steel
Teflon
Aluminium
Exotic Alloys
Stone
Marble
Floor Tile

CUTTING TOOLS – SUMMARY

	WATERJET	PLASMA	LASER
Capital Cost	$100,000 - $400,000 US	$100,000 - $400,000+ US	$400,000 - $1 Million+ US
Materials	Any Material	Primarily steel, stainless steel and aluminium.	Primarily steel, stainless and aluminium. Can also cut a variety of other materials.
Thickness	Up to 304mm for any material	Up to 22mm for steel. Up to 127mm for stainless and aluminium.	Generally 25mm or less for all materials.
Cut Quality	Good to excellent surface finish. No heat affected zone. Good to excellent fine feature cutting with small kerf No dross Low Running Costs	Poor to fair surface finish. Large heat affected zone. Poor to fair on fine feature cutting with large kerf Dross can be present. Bevelling/taper can occur on corners and bevels. Medium Running Costs	Good to excellent surface finish. Small heat affected zone. Good to excellent fine feature cutting with very small kerf Small amount of dross can be present. High Running Costs