

These are the AUTHENTIC data that has been gathered for the rough stones being cut in LMJ® TRIVENI at our premises.

Weight loss comparison table for IR, GREEN & LMJ® TRIVENI

Sr. No	Ct. Range	Avg. weight loss in LMJ® TRIVENI (%)	Avg. weight loss in Green TSS laser (%)	Difference (%)
1	2.01 – 3.00	1.00%	1.57%	0.57%
2	3.01 – 4.00	0.95%	1.55%	0.60%
3	4.01 – 5.00	0.95%	1.65%	0.70%
4	5.01 – 6.00	0.90%	1.75%	0.85%
5	6.01 – 7.00	0.85%	1.85%	1.00%
6	7.01 – 8.00	0.80%	1.90%	1.10%
7	8.01 – 9.00	0.80%	2.05%	1.25%
8	9.01 – 10.00	0.75%	2.15%	1.40%
9	10.01 – 11.00	0.75%	2.30%	1.55%
10	11.01 – 12.00	0.70%	2.35%	1.65%
11	12.01 – 13.00	0.70%	2.55%	1.85%
12	13.01 – 14.00	0.65%	2.70%	2.05%
13	14.01 – 15.00	0.65%	2.95%	2.30%
14	15.01 – 16.00	0.60%	~ 3.10%	~2.50%
15	20.01 – 21.00	0.60%	~ 3.10%	~2.50%
16	34.00 – 35.00	0.55%	~ 3.10%	~2.50%

Weight-loss Comparison

	LMJ® TRIVENI (Weight loss in %)	GREEN TSS LASER (Weight loss in %)	Difference
Minimum Weight loss (Min. Width)	0.55 %	1.25 %	0.70 %
Maximum Weight loss (Max. Width)	1.80 %	3.75 %	1.95 %

Data for SLICE Cut

Sr. No.	Weight (Ct.) x Chips	Weight loss in Triveni (%)	Weight loss in IR/Lamp (%)	Difference (%)
1	8.61 x 4	3.50%	10.00%	6.50%
2	6.69 x 3	5.01%	9.00%	3.99%
3	6.47 x 7	10.45%	21.00%	10.55%
4	3.22 x 5	9.54%	14.00%	4.46%
5	2.05 x 5	8.58%	14.00%	5.42%
6	1.88 x 5	11.06%	15.00%	3.94%
7	1.86 x 7	8.97%	19.00%	10.03%
8	1.38 x 4	9.13%	12.00%	2.87%

In the case when 8 to 9 chips are to be cut, diamantaires can get additional 2 or 3 chips.

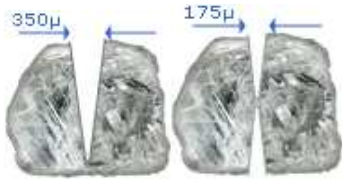
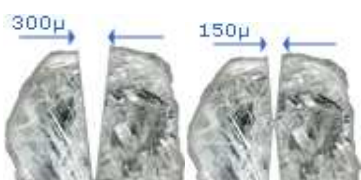

Weight-loss Comparison in SLICE Cut

	LMJ® TRIVENI (Weight loss in %)	IR/LAMP (Weight loss in %)	Difference
Minimum Weight loss (Min. Width)	3.50 %	9.00 %	5.5 %
Maximum Weight loss (Max. Width)	11.06 %	30.00 %	18.94 %

Below comparison chart shows why it is called a 5th generation technology:

Features compared with IR laser & GREEN Laser technology

Features	LMJ® TRIVENI	IR LASER	GREEN LASER
Straight Shape Sawing	✓	✗	✗
Water Cooled Cutting	✓	✗	✗
Mirror Finish Surface	✓	✗	✗
Cutting Parameters	Cutting Parameters are NOT Required	Cutting Parameters are Required	Cutting Parameters are Required
Focus Setting	Focus Setting is NOT Required	Focus Setting is Required	Focus Setting is Required
Damage Due to Internal Reflection	There are NO chances of internal reflection which causes damages	Damage OCCURS due to internal reflection	Damage OCCURS due to internal reflection

Rough Size	CUTTING OPENING in IR	CUTTING OPENING in GREEN	CUTTING OPENING in LMJ® TRIVENI
	Single side/Doubleside (~)	Single side/Doubleside (~)	(~)
08 MM	200 μ / 100 μ	150 μ / 75 μ	55 μ
10 MM	250 μ / 125 μ	200 μ / 100 μ	
12 MM	300 μ / 150 μ	250 μ / 120 μ	
14 MM	350 μ / 175 μ	300 μ / 150 μ	
16 MM	400 μ / 200 μ	350 μ / 175 μ	
18 MM	450 μ / 225 μ	400 μ / 200 μ	
20 MM	500 μ / 250 μ	450 μ / 225 μ	
22 MM	550 μ / 275 μ	500 μ / 250 μ	
24 MM	600 μ / 300 μ	550 μ / 275 μ	
If we consider rough size of 14MM, then the shape of the cutting would be as shown in the images for IR, Green & LMJ TRIVENI respectively	 <p style="text-align: center;">(IR)</p>	 <p style="text-align: center;">(GREEN)</p>	 <p style="text-align: center;">LMJ® TRIVENI</p>

Note: The data shown here may vary up-on different types of roughs & operators' technical ability to cut the stones. Taking this in to the consideration variation may observe.

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