I LASER LAB

MADE IN KOREA

PROFESSIONAL NEEDLE-FREE JET DELIVERY



IMPALA

NEEDLE-FREE INJECTOR

Painless Innovation, Proven Results.

Professional jet delivery for advanced aesthetic treatments.

PATENTED TECHNOLOGY

MUTO IMPACT CORE V3.6

MODEL: IMPALA

Beyond the Needle.
Beyond the Limits of Needle-Free.

Needles hurt, bruise, and leave results to the operator's hand. Needle-free technology solved part of that — but most devices still fade as the syringe empties, and offer no intensity control where it matters.

THE LIMITS OF CONVENTIONAL INJECTION

NEEDLE INJECTION

Pain and bruising — hesitation, downtime.

Cross-contamination risk — sharps at every step.

Operator-dependent — depth and dose vary.

OTHER NEEDLE-FREE INJECTORS

Power fades as the cartridge empties — weaker jet pressure toward the end.

Console-only control — no change at the handpiece.

IMPALA'S SOLUTION — POWERED BY CUTTING-EDGE TECHNOLOGY

FULL-SHOT POWER

Stable output from the first shot to the last.

IN-HAND CONTROL

Intensity adjusted on the handpiece, mid-treatment.

BUILT-IN COMFORT

Patented vibration and Red LED, integrated.



The Engine Behind Every Shot

At the heart of IMPALA is the **Muto Impact Core v3.6** — a solenoid-driven electromagnetic jet built on one principle: energy scales with velocity, not mass.

$E = \frac{1}{2}mv^2$ · velocity is the multiplier

Dual Pulse Precision System

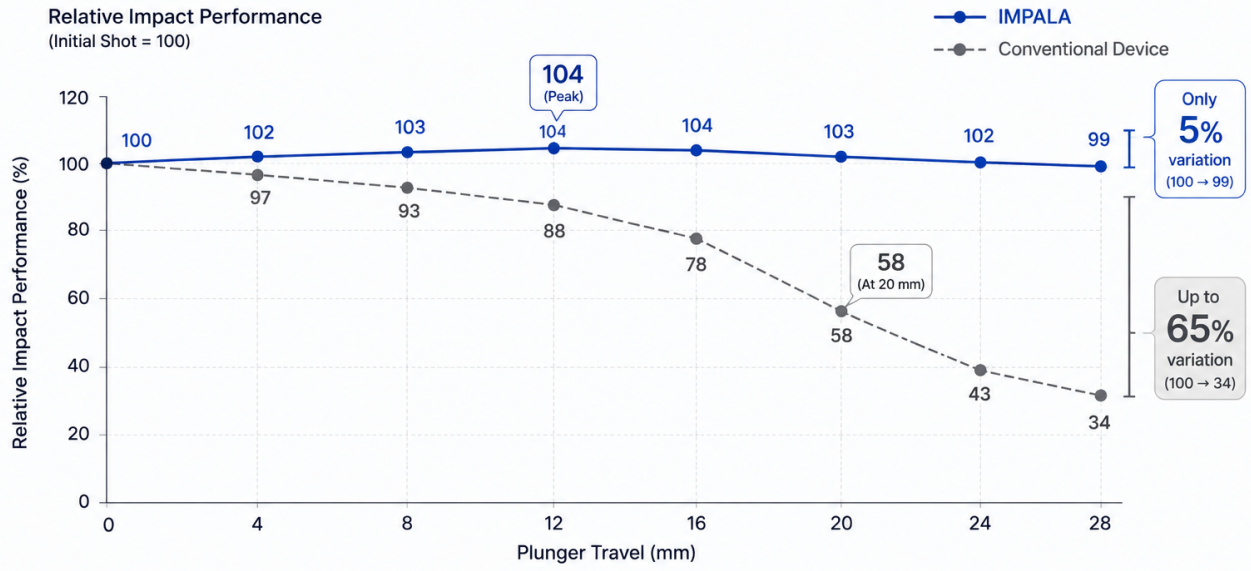
Every shot splits into two tuned micro-bursts — less splatter, less loss, finer dose control and natural diffusion in the skin.

Full-Shot Performance

Stable force from the first drop to the last — the full 0.3–0.5 cc dose delivered with no fade and no waste.

Consistent Performance from Start to Finish

IMPALA maintains consistent impact performance throughout the entire stroke, while conventional devices show a significant decline as the syringe empties.



* Test conducted by I LASER LAB.
* Handpiece angled 45° downward during firing (syringe direction).

No Fade. Consistent to the Last Shot.
IMPALA maintains stable injection force from the first shot to the last.

Every Function, One Handpiece

Intensity, vibration and LED — all in the hand, with no return to the console.



Red LED ring and loaded 0.5 cc syringe.
Skin-contact sensors trigger vibration and LED together.

Dual Power Control

Tactile buttons calibrate intensity mid-treatment, without breaking skin contact.

Neural Gate Control

PATENTED VIBRATION

Blocks pain signals before they reach the brain — Gate Control Theory.

Auto-Touch Activation

Skin contact triggers vibration and Red LED at once — no manual switching.

Red LED Support

Soothes the skin and guides precise placement.

Million-Shot Durability

Rated for approximately 1,000,000 shots — years of daily clinic use per handpiece.

One Device, Every Formulation

Four dedicated modes, nine intensity steps each — from diluted toxin to 2,500 cP ampoules.

MODE	BEST FOR
Special	Specialized ampoules needing delicate, precise delivery
Scalp	Hair and scalp formulations
Face & Neck	Thin, sensitive skin — natural diffusion
Body	Large areas, dense high-viscosity formulations

INTENSITY GUIDE BY FORMULATION VISCOSITY

Face & Neck mode reference

FORMULATION TYPE	VISCOSITY (CP)	RECOMMENDED INTENSITY
Exosome	5 – 20	**Level 3 – 4**
PDRN	20 – 100	**Level 4 – 5**
Standard skin boosters	100 – 500	**Level 5 – 6**
High-concentration ampoules	800 – 1,200	**Level 6 – 7**
Ultra-concentrated ampoules	2,000 – 2,500	**Level 8 – 9**

IMPALA's 9-level jet intensity control allows for precise adjustment of skin penetration depth. Actual penetration depth may vary depending on individual skin characteristics, treatment area, solution viscosity, and treatment conditions.

Engineered for Confidence, Built for Safety

A 10.1-inch touchscreen up front; an intelligent safety architecture running behind it.



Mode, shots per second, 9-step intensity, shot count and 5 memory slots on one screen.

Smart Watchdog

Monitors voltage and handpiece temperature in real time — halts on any abnormality.

Log View

Accumulated shots and time-stamped treatment history.

PIN Security

4-digit access for authorized operators only.

Adjustable Brightness

Tuned to any clinic lighting environment.

5-slot memory recalls mode, intensity and frequency instantly.

A Device Built to Perform — And to Sell

IMPALA differentiates itself on the treatment table, not just on the spec sheet.

ITEMS	IMPALA	CONVENTIONAL NEEDLE-FREE INJECTOR
Injection consistency	**Stable from first shot to last**	Weakens as cartridge empties
Handpiece control	**Real-time intensity adjustment**	Console-only adjustment
Comfort technology	**Integrated vibration + Red LED**	Not available
Safety monitoring	**Real-time Watchdog + Log View**	Not available



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Designed and manufactured in Korea.
Patent-protected propulsion and comfort technology

Technical Specifications

CATEGORY	SPECIFICATION
Power Input	AC 100–240 V, 50/60 Hz
Propulsion System	Muto Impact Core v3.6 — solenoid-driven electromagnetic jet
Pulse Duration	7–17 ms (36-step control)
Max. Injection Frequency	Up to 5 Hz
Nozzle Diameter	Approx. 130–150 μm
Injection Pressure	Approx. 20–25 MPa
Intensity Levels	9 steps per mode, 4 modes
Syringe Capacity	0.3 cc / 0.5 cc (selectable)
Control Interface	10.1" full-color touchscreen
Dimensions (W×D×H)	390 × 280 × 220 mm
Weight	Approx. 5 kg
Handpiece Lifespan	Approx. 1,000,000 shots
Country of Origin	Republic of Korea
Consumables	0.5 cc syringe, T-adapter and silicone cap
Manufacturer Quality Management	ISO 13485
Registration	Korea RRA No. R-R-IL6-IMPALA, CE LVD

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