

EM-SMART LASER CATALOG

2023

YOU THINK, YOU MARK



SMALL DESKTOP
FIBER LASER

EM-Smart

YOU THINK, YOU MARK



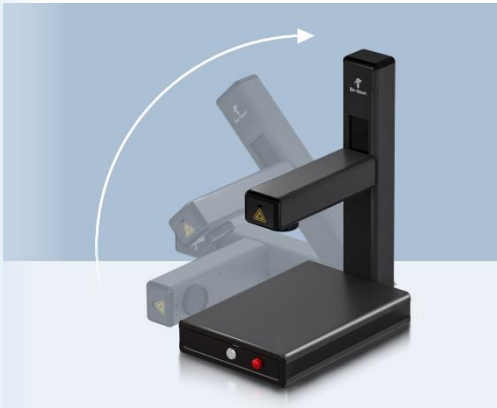
EM-Smart

You Think, You Mark

EM-SMART

Parameter Comparison Chart

EM-SMART LASER MARKING MACHINES												
Model	EM-Smart Basic 1 (1R)	EM-Smart Basic 2 (2R)	EM-Smart One (One R)	EM-Smart Nova (Nova R)	EM-Smart MP20 (20R)	EM-Smart MP30 (30R)	EM-Smart MP60 (60R)	EM-Smart Super30 (30R)	EM-Smart Super50 (50R)	EM-Smart PC 1	EM-Smart PC 2	
Laser Source	MAX				JPT				MAX			
Laser Type	Fiber laser											
Output Power (W)	20W	25W	20W	25W	20W	30W	60W	30W	50W	20W	25W	
Marking Speed (mm/s)	0-8000											
Standard Marking Field (mm)	110*110 (70*70/150*150)		110*110(150*150)		150*150(70*70/110*110)			110*110(70*70/150*150/175*175)		110*110(150*150)		
Maximum Marking Height (mm)	200		90		150			200		90		
Laser Wavelength (nm)	1064											
Beam Quality (m ²)	≤1.4	≤1.6	≤1.4	≤1.6	≤1.3	≤1.3	≤1.5	≤1.6	≤1.4	≤1.6		
Repeat Accuracy (mm)	±0.002		±0.002		Spectral width<15nm Pause energy 0.8mJ		Spectral width<15nm Pause energy 1.5mJ		±0.002			
Minimum Character (mm)	0.01		0.01		Pulse width 2-350ns Line Space: 0.001mm		Pulse width 2-500ns Line Space: 0.001mm		0.01			
Minimum Line Distance (mm)	0.01		0.01		0.01		0.01		0.01			
Repeat Pause Frequency Range (KHz)	30-60	40-60	30-60	40-60	Frequency Range 1-4000kHz (1-3000) Full Power Frequency Range 25-4000kHz (37-3000)			30-60	45-170	30-60	40-60	
Operation Temperature (°C)	0-35				0-40			10-42		0-35		
Cooling Method	Air Cooling											
Lifespan (Hours)	100,000											
Net Weight (Kg)	11.5		8.5		14.5		18		14		8.5	
Dimension (L*W*H*mm)	435*305*525*70		370*258*505*65		437*307*545*88		475*325*545*90		435*305*545*90		370*258*505*65	
Package Size (L*W*H mm)	760*540*170											
Supply Voltage (V)	DC24V											
Power Consumption (W)	≤160	≤180	≤160	≤180	≤120	≤144	≤300	≤140	≤200	≤160	≤180	
PC Connection	USB Cable										Built-in PC	
Certificate	CE, FDA, RoHS, SGS, ISO9001											
Color Available	Black/Orange		Black/Grey		Black+Red				Black/Grey			
Deep Engraving	Y											
Cutting Function	N	Y	N	Y	Y			Y		N	Y	
Rotary Function	N (Y)										N	
Lens Replacement	Y											
Thermal Protection	Y											
Emergency Stop	Y											
Design	Quick Set-Up		Foldable Design		Quick Set-Up				Foldable Design+Built-in PC			
Marking Software	EZCAD/LightBurn (License Required)											
Marking Format	text, png, bmp, jpg, gif, tga, tif, svg, ai, cdr, dxf, dst, plt, bar code, qr code, serial number, date code, time code, TCP/IP communication, serial communication, file, sql database, etc.											
Language	Chinese (Tradition & Simplified), English, Japanese, Korean, Spanish, Portuguese, Russian, French, German, Italian, Thai, Vietnamese, Turkish											
Operating System	Windows & MAC & Linux											
Applicable Material	Metal, Plastic, Leather, Slate, Stone, Rubber, Coated Wood, etc.				+Colorful Marking				Metal, Plastic, Leather, Slate, Stone, Rubber, Coated Wood, etc.			
Applicable Industry	Almost All Industries											
Warranty	2 Years											



Model: EM-Smart One & Nova

Features: Foldable Design
 Laser Source: MAX
 Output Power(W): 20W / 25W
 Marking Speed(mm/s): 0-8000
 Standard Marking Field(mm): 110*110(150*150)
 Maximum Marking Height(mm): 90
 Laser Wavelength(nm): 1064
 Repeat Accuracy(mm): ±0.002
 Rotary Function: Optional
 Net Weight(Kg): 8.5
 Dimension(L*W*H*T mm): 370*258*505*65
 Lifespan(Hours): 100000
 Applicable Material: Almost All Materials
 Warranty: 2 Years



Model: EM-Smart Basic

Features: No Marking Height Limitation
 Laser Source: MAX
 Output Power(W): 20W / 25W
 Marking Speed(mm/s): 0-8000
 Standard Marking Field(mm): 110*110 (70*70/150*150)
 Maximum Marking Height(mm): 200
 Laser Wavelength(nm): 1064
 Repeat Accuracy(mm): ±0.002
 Rotary Function: Optional
 Net Weight(Kg): 11.5
 Dimension(L*W*H*T mm): 435*305*525*70
 Lifespan(Hours): 100000
 Applicable Material: Almost All Materials
 Warranty: 2 Years



Model: EM-Smart Mopa

Features: Color Marking on Stainless Steel & Anodized Aluminum
 Laser Source: JPT
 Output Power(W): 20W / 30W / 60W
 Marking Speed(mm/s): 0-8000
 Standard Marking Field(mm): 150*150(70*70/110*110)
 Maximum Marking Height(mm): 150
 Laser Wavelength(nm): 1064
 Repeat Accuracy(mm): Spectral Width<15mm, Pause Energy 0.8mJ
 Rotary Function: Optional
 Net Weight(Kg): 14.5
 Dimension(L*W*H*T mm): 437*307*545*88
 Lifespan(Hours): 100000
 Applicable Material: Almost All Materials
 Warranty: 2 Years



Model: EM-Smart PC

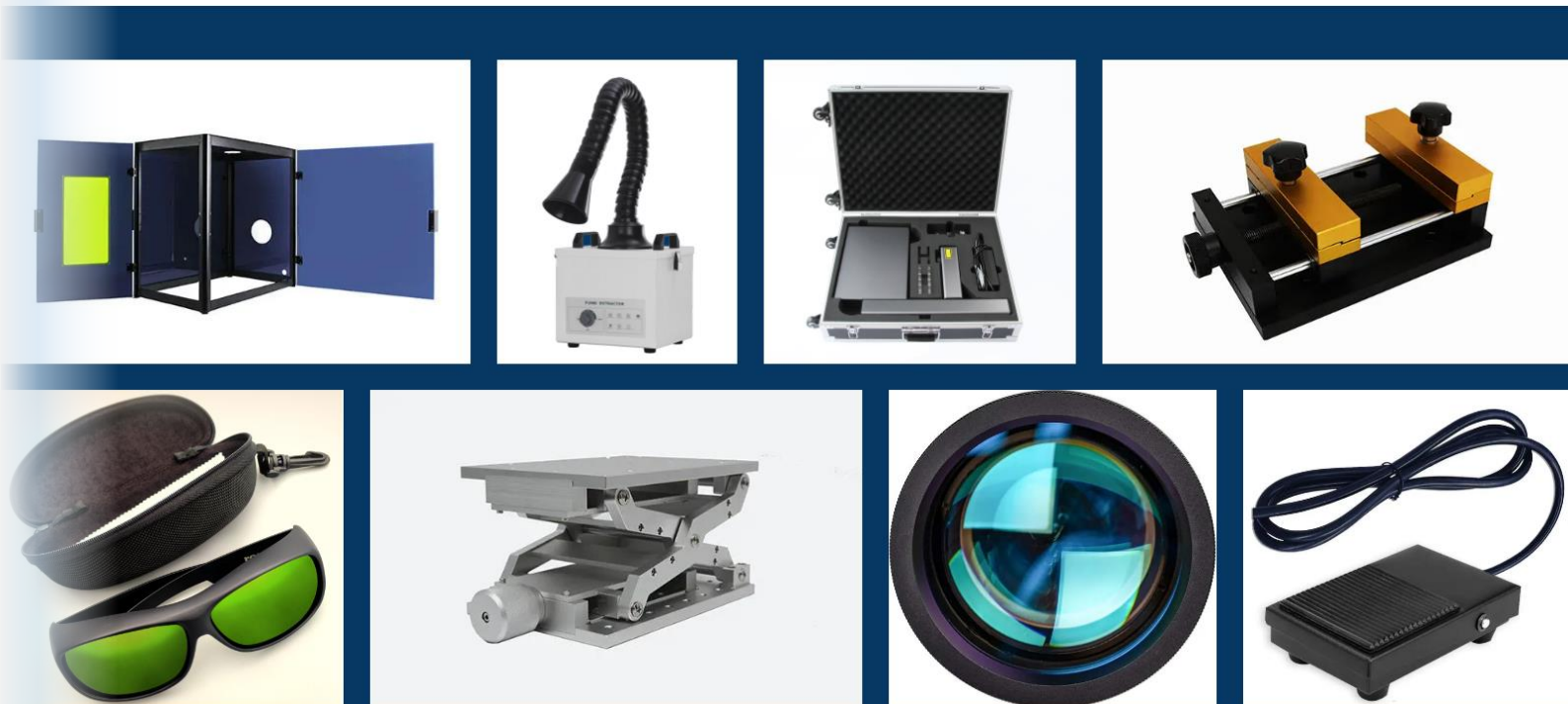
Features: Built-In Computer
 Laser Source: MAX
 Output Power(W): 20W / 25W
 Marking Speed(mm/s): 0-8000
 Standard Marking Field(mm): 110*110(150*150)
 Maximum Marking Height(mm): 90
 Laser Wavelength(nm): 1064
 Repeat Accuracy(mm): ±0.002
 Rotary Function: Optional
 Net Weight(Kg): 8.5
 Dimension(L*W*H*T mm): 370*258*505*65
 Lifespan(Hours): 100000
 Applicable Material: Almost All Materials
 Warranty: 2 Years
 PC: DDR: 2G HDD: 32G OS: Windows 10



Model: EM-Smart Super

Features: High-wattage
 Laser Source: MAX
 Output Power(W): 30W / 50W
 Marking Speed(mm/s): 0-8000
 Standard Marking Field(mm): 110*110(70*70/150*150/175*175)
 Maximum Marking Height(mm): 200
 Laser Wavelength(nm): 1060-1070
 Repeat Accuracy(mm): ±0.002
 Rotary Function: Optional
 Net Weight(Kg): 14
 Dimension(L*W*H*T mm): 435*305*545*90
 Lifespan(Hours): 100000
 Applicable Material: Almost All Materials
 Warranty: 2 Years

EM-Smart Accessories



PORTABLE & FOLDABLE

The product can be rotated 90°

Finish Your First Marking in A FEW SECONDS

8000 mm/s HIGH SPEED

Laser Spot as Small as 0.01mm*0.01mm

Deeper mark on metal

Repeat Accuracy: ±0.002mm

NO LIMITATION TO MARKING HEIGHT

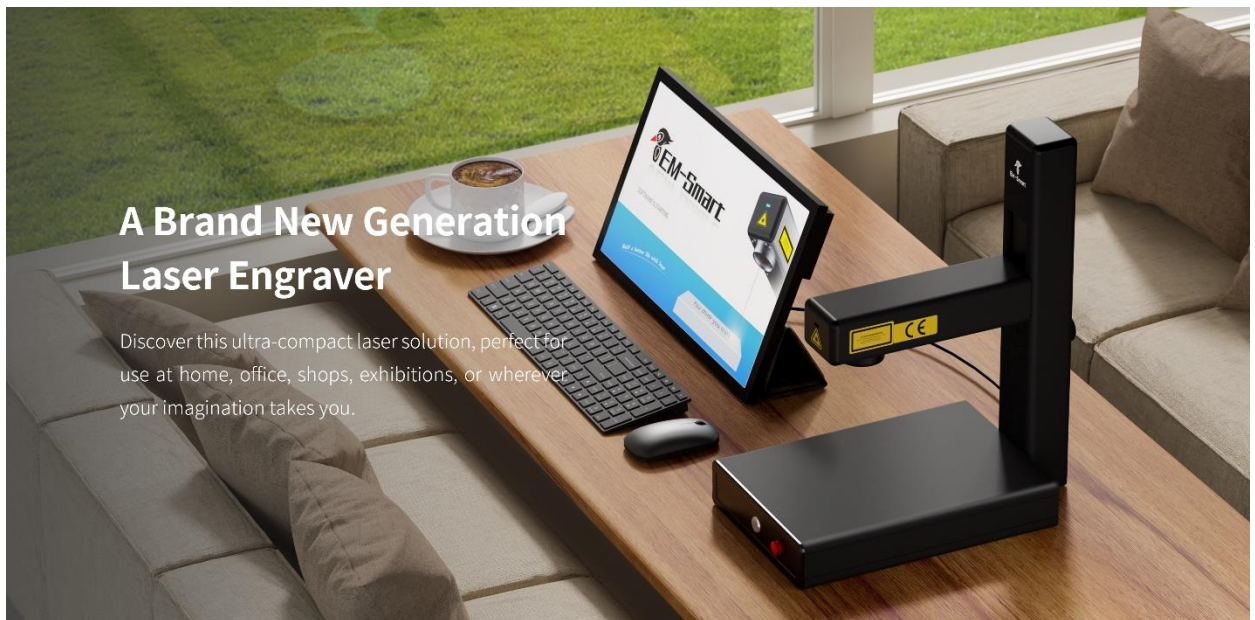
BIGGER SPACE
GREATER POSSIBILITIES

90° OR 180°
ROTATION

Break the limit of marking height by rotating the laser path

200mm default marking height to meet your demand of engraving most common items

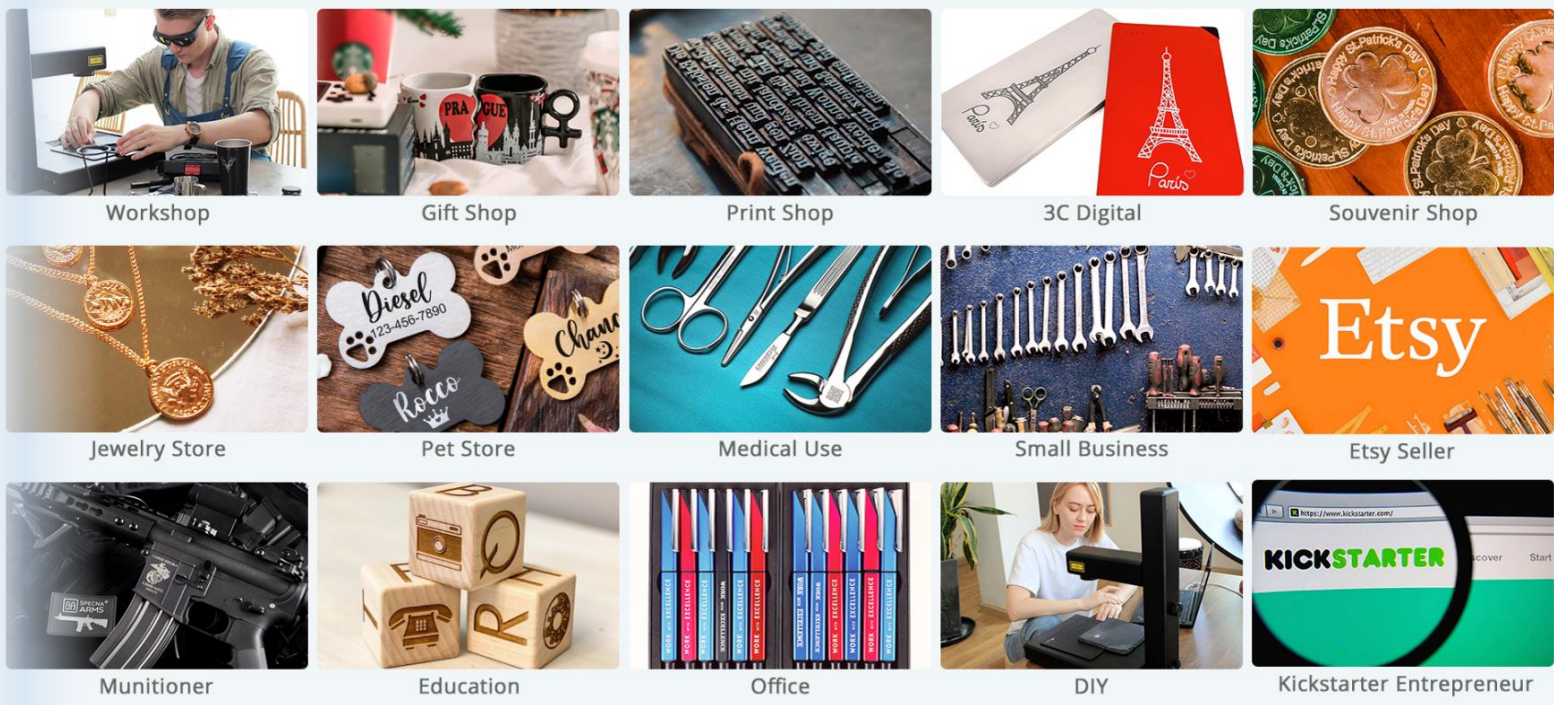
Limitless marking height by rotation gives you more space and more possibilities



A Brand New Generation Laser Engraver

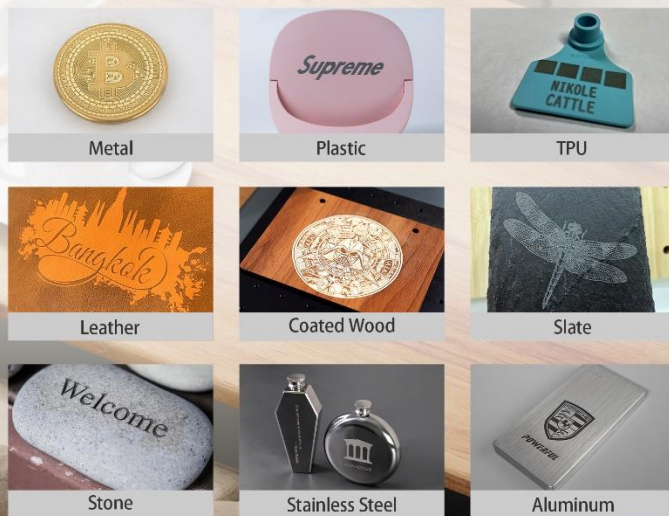
Discover this ultra-compact laser solution, perfect for use at home, office, shops, exhibitions, or wherever your imagination takes you.

Application Industries



Application Materials

MULTIPLE MARKING MATERIALS



EM-Smart Certification



CE



FDA



SGS



RoHS



ISO9001

EM-Smart on Media



All3DP

EM-Smart lasers are compatible with a wide array of common materials, including metal, plastic,...



New Atlas

You may be wondering, what is the EM-Smart Laser and what makes it outstanding from other laser machines?...



Geeky Gadgets

It is the first laser machine that combines both the portable weight and size and the commercial power.



Fabbaloo

EM-Smart One will be ideal for customization and personalization of gifts, souvenirs, handicrafts, logos,...

Why Choose EM-Smart?

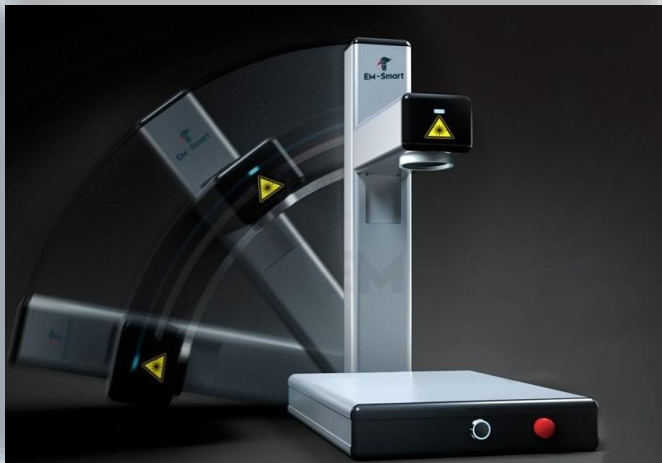


Who We Are?

CH Laser, EM-Smart's Parent Company, always be passionate about empowering businesses with advanced laser processing technology. With over 25 years of expertise since establishment in 1998, it has become a leading provider of customized solutions for precision cutting, welding, engraving, and marking. Our commitment to innovation, quality, and exceptional service has allowed us to build a team of highly skilled professionals who are dedicated to helping our customers achieve their goals. We invest heavily in R&D, ensuring that our technology is always at the forefront of the industry. Our state-of-the-art equipment and software provide unmatched precision, efficiency, and versatility.

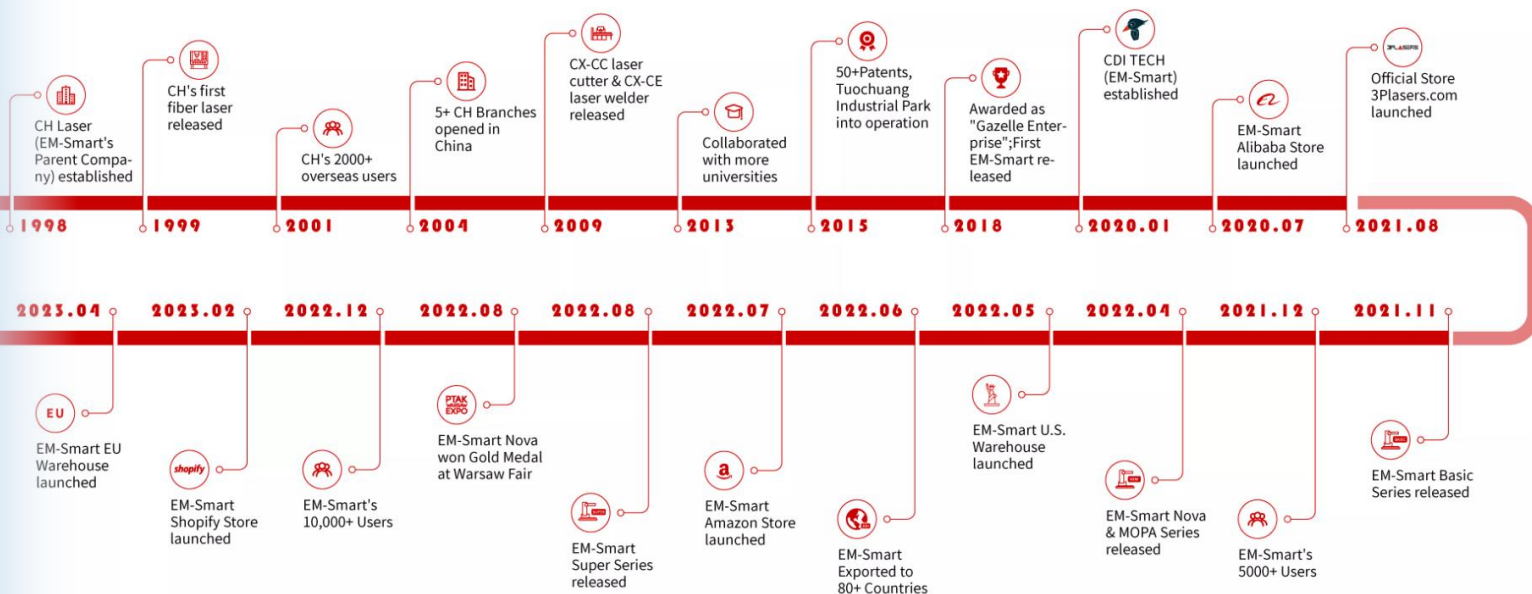


What is EM-Smart?



With 25 years' laser industry experience of its parent company CH Laser, EM-Smart has been committed to designing and manufacturing portable laser marking machines as well as developing innovative laser solutions for a wide range of industries. As so far, EM-Smart has released more than fifteen models of seven series (EM-Smart One/Basic/Nova/MOPA/Super/PC/PRO), ranging from fiber types to MOPA tyle and from entry-level to pro users, which can meet the different demands of all customers from almost all Industries.

EM-Smart History




EM-Smart Laser

PRODUCT COLLECTION



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