

Press Release

October 21st, 2024

The 19th Cutting Dream Contest: The Winners have been decided!

DMG MORI CO., LTD. (hereinafter “DMG MORI”) proudly announces the winners of the 19th Cutting Dream Contest.

The Cutting Dream Contest, held since 2004, brings together companies, educational institutions, and research organizations across Japan that are involved in machining and utilize advanced machine tools such as additive manufacturing and laser machines. This contest serves as a platform for participants to study, improve, and exchange machining technologies and skills. The innovation and unwavering dedication behind their masterful creations continue to drive technological advancements worldwide.

This year, Professor Yasuhiro Kakinuma of Keio University chaired the selection committee of six judges. Out of the 93 entries, they chose 4 winners in the Production Parts Machining Category, 6 in the Prototype & Test Cut Machining, 6 in the Artistic Form Machining, 3 in the Advanced Machining Category, and 5 in the Academic Research Category.

The award ceremony will be held on Tuesday, November 5, at Tokyo Kaikan, where the winners will receive a certificate and monetary prizes.

During the exhibition JIMTOF 2024 from November 5 to 11, the winning art pieces will be exhibited at the DMG MORI booth, and a slideshow of all entries will be shown.

DMG MORI will continue to host various events and provide opportunities for industry-wide technological exchange and improvement.

An overview of the Dream Contest and previous winners can be found on our website.

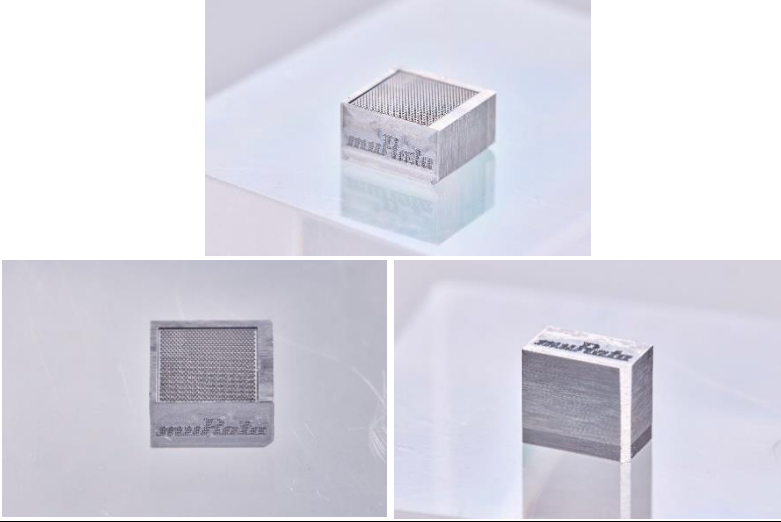

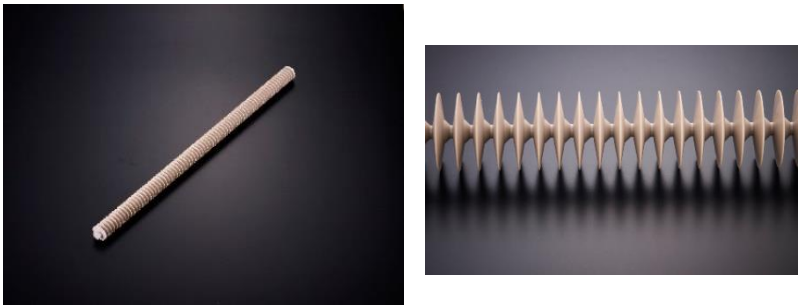

<https://www.dmgmori.co.jp/corporate/dreamcontest/en/index.html>

■ **The 19th Cutting Dream Contest Awards Committee** *In alphabetical order of name, except for the chair

Affiliation / Position	Name
Professor, Department of System Design Engineering, Faculty of Science and Technology, Keio University	Doctor of Engineering Yasuhiro Kakinuma ✳Chair
Professor, Graduate School of Advanced Science and Engineering, Hiroshima University	Ph.D. Soichi Ibaraki
Professor, Graduate School of Engineering, Tokyo University	Doctor of Engineering Naohiko Sugita
Professor, Faculty of Science and Engineering, Department of Precision Mechanics Digital Manufacturing Laboratory, Chuo University	Doctor of Engineering Norikazu Suzuki
Chair, Board of Trustees, President, Chubu University	Doctor of Engineering Yoshimi Takeuchi
Professor, Department of Micro Engineering, Graduate School of Engineering, Kyoto University	Doctor of Engineering Atsushi Matsubara

■ **The 19th Cutting Dream Contest Winning Works**

Production Parts Machining			
Prize	Title of entry	Applicant name	Address
Gold	Thin-film molding die (For circuit board)	Murata Manufacturing Co., Ltd.	Nagaokakyo City, Kyoto
Silver	Resonance pin	ISHIYAMANEZI CO., LTD.	Yokohama City, Kanagawa
Bronze	Fixture for long rotating part wafer	Koga Denki Corporation	Shinagawa Ward, Tokyo
Technique	One-touch chucking of multiple analysis samples(medical centrifuge)	Yoshioka Seiko Co., Ltd.	Yokohama City, Kanagawa




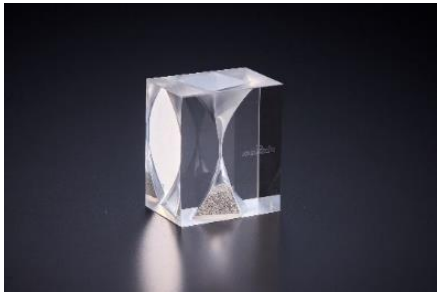


<p style="text-align: center;">Gold Prize “Thin-film molding die (For circuit board)”</p>	<p style="text-align: center;">Silver Prize “Resonance pin”</p>
	
<p style="text-align: center;">Bronze Prize “Fixture for long rotating part wafer”</p>	<p style="text-align: center;">Technique Prize “One-touch chucking of multiple analysis samples (medical centrifuge)”</p>
	

<Judges' comment for the winner of Gold Prize>

“Thin-film molding die (For circuit board)” Murata Manufacturing Co., Ltd.

The innovative machining technique that utilized an R0.015 mm ball end mill to create tiny triangular shapes is particularly remarkable. Achieving such a piece with exceptional precision showcases the cutting-edge capabilities of modern machining technology.

Prototype & Test Cut Machining			
Prize	Title of entry	Applicant name	Address
Gold	Swan	Sekishin Inc.	Kyotango City, Kyoto
Silver	Honeycomb	KYOCERA Corporation	Higashiomi City, Shiga
Bronze	World's lightest dumbbell	SAKATA PRECISION CO., LTD.	Asakura City, Fukuoka
Bronze	Multi-Layer Ceramic Capacitor sand clock	Murata Manufacturing Co., Ltd.	Nagaokakyo City, Kyoto
Technique	Two-bon ~ Vases with lip diameter $\phi 38$, body diameter $\phi 116$, depth 39 mm ~	Ohwada carbon Industry Co., Ltd.	Toyonaka City, Osaka
Technique	Self-standing float	Koga Denki Corporation	Shinagawa Ward, Tokyo




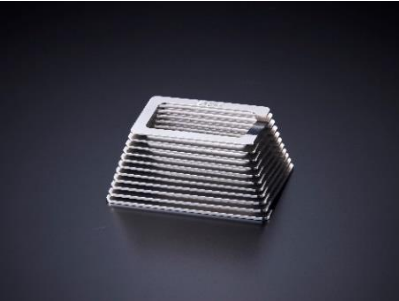


Gold Prize "Swan"	Silver Prize "Honeycomb"	Bronze Prize "World's lightest dumbbell"
		
Bronze Prize "Multi-Layer Ceramic Capacitor sand clock"	Technique Prize "Two-bon ~ Vases with lip diameter $\phi 38$, body diameter $\phi 116$, depth 39 mm ~"	Technique Prize "Self-standing float"
		

<Judges' comment for the winner of Gold Prize>

"Swan" Sekishin Inc.

The machining technique used to mill an S-shaped aluminum thin plate, with a thickness of 0.1mm and a height of approximately 100mm, in a single chucking is truly remarkable. The surface finish, machining speed, text engraving, and overall design are all outstanding.

Artistic Form Machining			
Prize	Title of entry	Applicant name	Address
Gold	Too small horse	Asuka Industry Ltd.	Atsugi City, Kanagawa
Silver	Net	Seibu Co., Ltd.	Ayase City, Kanagawa
Bronze	Water droplets and ripples on a water mirror	Circle and Square Co., Ltd.	Osaka City, Osaka
Bronze	Stripe island	Sanei-Kikai Co., Ltd	Yurihonjo City, Akita
Technique	To the one who cuts	ASAHI YUKIZAI CORPORATION	Nobeoka City, Miyazaki
Technique	Montagna Sacra (Sacred Mountain)	FRASCO CO., LTD.	Saijo City, Ehime


Gold Prize "Too small horse"	Silver Prize "Net"	Bronze Prize "Water droplets and ripples on a water mirror"
		
Bronze Prize "Stripe Island"	Technique Prize "To the one who cuts"	Technique Prize "Montagna Sacra (Sacred Mountain)"
		

<Judges' comment for the winner of Gold Prize>

"Too small horse" Asuka Industry Ltd.

The achievement of beautifully detailed machining on plastic material is highly commendable. In particular, the successful machining of the horse's delicate legs and ears without breaking them highlights significant innovation in both the fixation and machining methods employed.

Advanced Machining			
Prize	Title of entry	Applicant name	Address
Gold	Beacon of technology	J·3D Co., Ltd.	Nagoya City, Aichi
Silver	Ceramic wristwatch	Fukushima Ceramic Co., Ltd.	Date City, Fukushima
Silver	Regular icosahedron	Murata Manufacturing Co., Ltd.	Nagaokakyo City, Kyoto


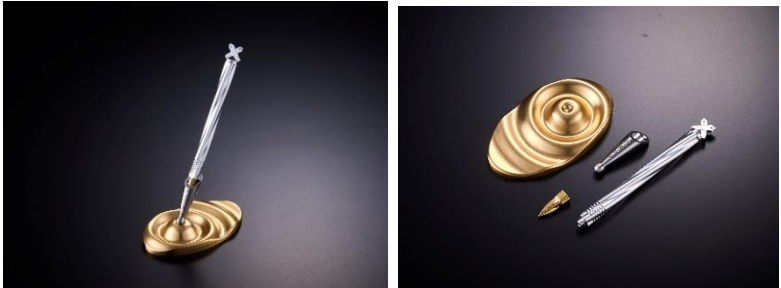



Gold Prize “Beacon of technology”	Silver Prize “Ceramic wristwatch”
	
Bronze Prize “Regular icosahedron”	
	

<Judges' comment for the winner of Gold Prize>

“Beacon of technology” J·3D Co., Ltd.

The exceptional precision in construction, the innovative support-free design, and the overall aesthetic beauty of the piece are truly remarkable. The intricate details of the Sagrada Familia are meticulously crafted, creating an awe-inspiring presence that captivates the viewer.

Academic Research			
Prize	Title of entry	Applicant name	Address
Gold	Machined anti-gravity device	Kobe Advanced Institute of Technology	Kobe City, Hyogo
Silver	Metal pencil & Pencil stand	Keio University Faculty of Science and Technology	Yokohama City, Kanagawa
Bronze	Logo projection freeform micro-lens array	Keio University	Yokohama City, Kanagawa
Technique	Biomimetic low-noise drone propeller	IWATE UNIVERSITY Advanced Manufacturing and Prototyping Center	Morioka City, Iwate
Technique	0.2 mm-fine tensegrity	Kindai University Technical College	Nabari City, Mie

<p>Gold Prize “Machined anti-gravity device”</p> 	<p>Silver Prize “Metal pencil & Pencil stand”</p> 	
<p>Bronze Prize “Logo projection freeform micro-lens array”</p> 	<p>Technique Prize “Biomimetic low-noise drone propeller”</p> 	<p>Technique Prize “0.2 mm-fine tensegrity”</p> 

<Judges' comment for the winner of Gold Prize>

“Machined anti-gravity device” Kobe Advanced Institute of Technology

The machining technique that achieved a tensegrity structure through single-piece milling is truly impressive. The concept behind it is equally unique, making this a fascinating and captivating piece.