

Japan International Machine Tool Fair Online Show

Duration of
JIMTOF 2020 Online

November 16 (Mon) 10:00 a.m. to
November 27 (Fri) 5:00 p.m., 2020

Archive period: November 27 5:00 p.m. to December 11 5:00 p.m. *Japan time



A greeting from the organizer



Yukio Iimura

Chairman

Japan Machine Tool Builders' Association
(a general incorporated association)

We will be jointly holding the JIMTOF 2020 Online exhibition with Tokyo Big Sight Inc., to provide support for applicants exhibiting at JIMTOF 2020, which had been cancelled because of the economic recession caused by the corona crisis, to give them opportunities to showcase new products. Approximately 400 leading domestic and foreign manufacturers will be participating in this first-ever full-scale online machine tools exhibition in Japan. This exhibition will feature cutting-edge machine tools, as well as equipment and technology, by making full use of video streaming. It will also enable interactive businesses to exchange business cards and chat with the visitors, just like at a conventional exhibition.

In order to improve the satisfaction of visitors, we have focused our efforts into joint-events more than ever before. For the organizer's seminar, lectures on eight themes currently gaining attention,

such as 5G, quantum computing, additive manufacturing, AI, etc., will be provided over the course of several days. We will also be streaming the Machine Tool Top Seminar, a JIMTOF project for students that has long been recognized in the industry, on November 21 (Sat). Programs equivalent to those of conventional exhibitions, such as lectures by the top management of the manufacturers, round-table talks with both young and experienced engineers, and online exchange meetings to connect students with our members, are being prepared, and we look forward to the participation of students.

We would very much welcome your presence, including those who were not able to attend past exhibitions due to time and location constraints. We would be delighted if this exhibition can be a good business opportunity for the recovery of the machine tool market.

In addition, JIMTOF 2022 is planned to be held at Tokyo Big Sight in the fall of 2022. Furthermore, we have begun plans for a permanent online exhibition of machine tools from members, next spring or later. We would like to make it a platform which can contribute to the development of the machine tool business, just like JIMTOF. We highly appreciate your support.



Kiyotsugu Ishihara

President and CEO

Tokyo Big Sight Inc.

Tokyo Big Sight Inc. will be jointly holding the JIMTOF 2020 Online exhibition with the Japan Machine Tool Builders' Association. This online exhibition is intended to provide the exhibitors at JIMTOF 2020, which was cancelled due to the corona crisis, and other companies in the industry, with the opportunities to announce new products and develop new customers. There will be 394 companies from 9 countries or regions exhibiting at this event, which we believe is a result of the passion and enthusiasm of the exhibitors, cooperating organizations, and others, towards JIMTOF. We would like to express our sincere gratitude for your support.

This online exhibition is comprised of seminars and exhibits which are divided into 9 areas. The online exhibition will allow you to check each company's products through images and videos, exchange information in real time through the chat function, and view the

introduction of new products at exhibitors' workshops. Through this, the exhibition seeks to support and realize productive business negotiations.

For the online seminars, we are planning highly specialized subjects, like AI and 5G, as well as industrial disaster prevention, a subject which has been gaining attention since the corona crisis, as well as topical themes, such as monozukuri (Japanese craftsmanship).

The benefit of being online is that it will allow visitors to virtually view products for four weeks without the constraints of time or distance, including the archival period after the exhibition. We expect the participation of many people, and hope it will help in the recovery of domestic and international trade.

Currently, an increasing number of conventional exhibitions are being held at Tokyo Big Sight and other event sites while avoiding the "Three Cs" (closed spaces, crowded places, close contact settings). JIMTOF 2022 is planned to be held in the fall of 2022, in the form of a real exhibition where you can touch products and negotiate directly with business representatives. We will make continuous efforts to further improve JIMTOF as the most up-to-date and leading trade fair in the world that features cutting-edge machine tools.

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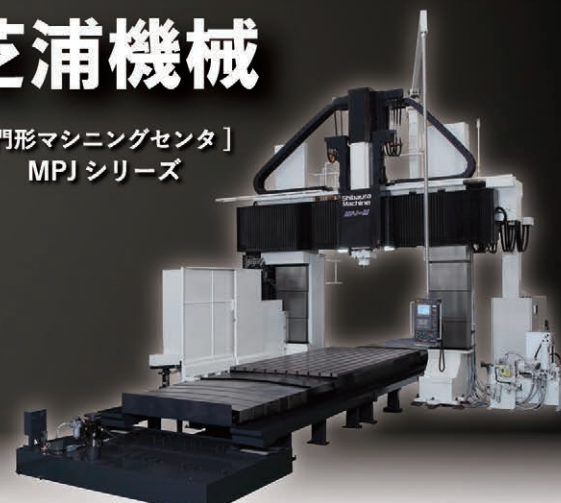
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JIMTOF 2020 Online Guide

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<http://www.jimtof.org/online/en/index.html>

Register on the official website of JIMTOF 2020 Online!

Provide basic information → Registration completed → Go to the home page

● Fill in your personal data ● Register exhibition-related data
*Your data will be used when exchanging business cards on an exhibitor booth page.

The Home Page of JIMTOF 2020 Online

Select an exhibit category to go to its main page

METAL MACHINE TOOLS Turning Machine (Lathe), Machining Center, Grinding Machine, Milling Machine, Ultra-precision Machine Tool, etc.	METAL FORMING MACHINES Mechanical Press, Hydraulic Press, Forging Machine, Shearing Machine, Wire Forming Machine, etc.	MACHINE ACCESSORIES Work Holding Devices, Tool Holders, Accessories & Attachments, Machine Components, Auxiliary equipment
HYDRAULIC & PNEUMATIC EQUIPMENT, GEARS & GEAR SPEED REDUCERS	TOOLS FOR MACHINES Tool Materials, Cemented Carbide Tools, High Speed Steel Tools, etc.	DIAMOND TOOLS / GRINDING WHEELS
PRECISION MEASURING, OPTICAL MEASURING, TESTING MACHINES & INSTRUMENTS	CONTROLLERS, COMPUTER SYSTEMS NC, CAD, CAM, etc.	OTHERS Eco-friendly devices, equipment, materials, products, technologies, technical information, publications, PR, documents, and media reports related to other machine tools
ORGANIZERS & SPONSORS	OVERSEAS INDUSTRY ASSOCIATION	

Search by free text on the home page and exhibitors pages

Main page of exhibit category

Check exhibitors by category

Check notifications from ongoing workshops

Exhibitor booth page

Enjoy interactive and convenient features only possible with an online exhibition

Check individual exhibitors

Exchange business card feature*

Exchange contact information with exhibitors

Gain access to a product page by exchanging business cards on an exhibitor booth page

*These features are not available at all exhibitor booths.

Text chat feature*

Communicate with exhibitors in real time

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0	0	0
100	2	-5
200	3	-10
300	2	-15
400	3	-20

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MOLDINO Meets Customer Needs with Technological Innovations

MOLDINO has embarked on an initiative to reinforce its solution-providing organization for mold and die manufacturers. The company consolidated the two organizations traditionally responsible for providing technical support and machining suggestions and formed the Solution Sales Department in April, 2020. By intensifying collaboration between the sales and engineering departments on service, events, and digital policy aspects, the company aims to improve the quality and speed of solutions that lead to problem solving and grasping potential challenges faced by customers.

Working together to face the challenges in the mold and die market

In recent years, Japan’s manufacturing industry has been facing a shortage of technicians and skilled workers. Mitigating this calls for labor-saving measures and automation, which is easier said than done in the field of cutting where machining settings and other conditions are extremely complex.

In response to these challenges, Haruki Kino, Deputy Manager of MOLDINO’s Solution Sales Department comments, **“We have to come up with ideas together with the customers.”**

MOLDINO has always been focused on proposing solutions for mold and die manufacturers in and outside of Japan using its Global Solutions Center, a dedicated organization responsible for providing everything from technical support to machining method development, as well as seminars and training support.

Meanwhile, internal concerns suggested that not enough was being done to stay abreast of potential issues facing customers and to meet with diversifying needs. This led to the launch of the Die and Mold Strategy Office in 2019, a mixed group of former salespeople and engineers tasked with studying measures to reinforce the solution-providing organization by engaging in efforts such as the systematic organization of machining know-how and in-house manufacture of plastic molds.

In April of 2020, the Global Solutions Center and Die and Mold Strategy Office were integrated into the newly formed **Solution Sales Department** with the intent of improving support efforts to customers. With the primary goal of “having customers make full use of our cutting tools,” (Deputy Manager Kino), sales representatives assigned to each location visit customer sites to carry out activities such as developing and implementing digital policies and holding seminars and events, in addition to proposing and supporting usage and solutions.

The aim is to further advance the sales organization by serving as the “glue” for sales and engineering to think as a team about products and services.

Kino stresses that it was through these activities of “Having sales and engineering visit the customers to look, listen, speak, and think on their own that made me appreciate the cardinal importance of **‘sangenshugi,’** which lays emphasis on going to the actual site, observing the actual part, and determining the actual facts.” This strength will help the department in its proposal activities by improving the quality and speed of its proposals.

Within the department, activities are already underway to firmly communicate the company’s strengths in the mold and die market, and stay abreast of potential customer issues. On that note, Kino is certain that “The first step has been made: sales and technology have become a concerted effort.”

Updating the total process with “PRODUCTION 50”

Cooperation from partner companies have become more aggressive for proposal activities. For example, MOLDINO has started to make proposals for reducing re-tooling times by strengthening the partnership with German measuring instrument manufacturer ZOLLER.

MOLDINO’s greatest strength is that it offers a full lineup of tooling for molds and dies, from insert-type tools to end mills, and tools for drilling, threading, and chamfering. Although the tool is the same, each manufacturer has different standards for controlling precision and tolerances which can cause problems such as machining errors and stepped surfaces when tools are reconnected. But these are problems that can be prevented by using products only by the same company.

To ensure that customers fully reap those benefits, MOLDINO proposes **PRODUCTION 50** as a vision of using its cutting tools to reduce the total cost from purchase to management and machining by half.

One of the concepts positioned as a method for achieving this is **Hi-Pre²**, a concept for high-precision pre-finishing. This is a concept for achieving high-precision finishing results by striving for high-precision not just in the finishing process but also in the preceding roughing process, which may call for optimizing the total process including polishing and adjustment.

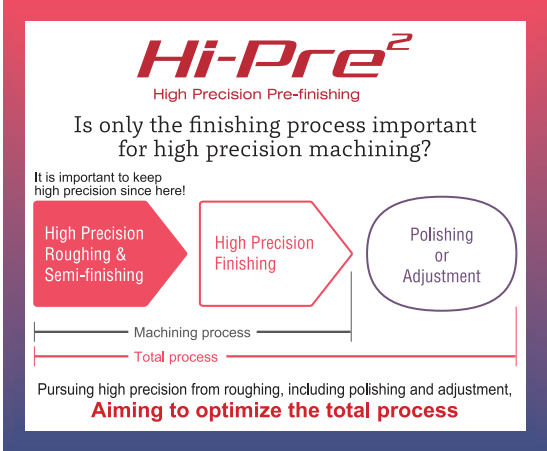
Kino emphasizes the superiority of “being able to complete the whole process with our own

tools,” when trying to reduce total machining costs by half. To that end, the Solutions Sales Department does not propose just a single tool, but instead makes proposals that generate benefits for the customer, while emphasizing the vision of overall optimization.



Sales Headquarters
Solutions Sales Department
Deputy Manager

Haruki Kino

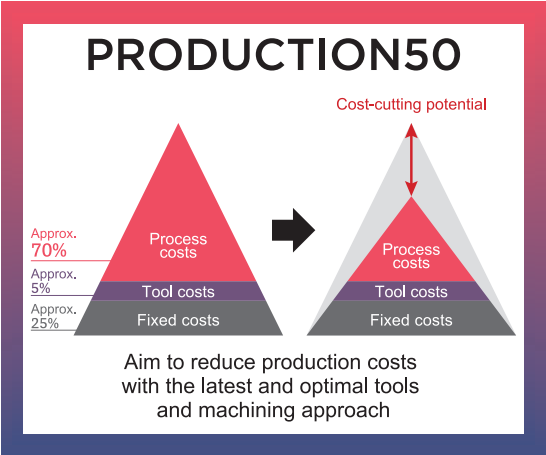


Robust real-time support

The spread of the novel coronavirus infection has completely changed the environment for the manufacturing industry. Like others, MOLDINO struggled, for example, about how to provide **real-time support** to its customers, but Kino explains how the company embraced this as “an opportunity suddenly presented by the coronavirus,” and now actively conducts meetings and proposes machining techniques over the web.

Along with the responses to the novel coronavirus, various changes are expected to occur in the near future due to technological innovations such as artificial intelligence (AI), autonomous driving, and 5G communications. MOLDINO aims to become the cutting tool manufacturer that supports those changes by continuing its efforts to stay abreast of challenges facing the customer, and creating and proposing solutions.

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The Machine Tools Industry
Market TREND

Japan Machine Tool Builders' Association

September Orders Climb Out of Rock Bottom
A Ray of Hope for the Future Despite the Risks That Remain

The amount of orders received for machine tools between April and September 2020 (the first half of 2020) decreased by 34.5% year on year to 396.439 billion yen. This is the first time since 2009 that the amount fell under 400 billion yen. The novel coronavirus is regaining its momentum overseas, including Europe and the US. Joe Biden of the Democratic Party has been elected the next president and has begun preparations for the new administration. Going forward, the industry will pay close attention to the impact this has on the world economy and international relations.

Exceeded 80 billion Yen for the First Time in Eight Months

The total amount of orders received by the members of the Japan Machine Tool Builders' Association in September grew 23.7% from the month earlier, and dropped 15% year on year to 84.099 billion yen. The amount exceeded 80 billion yen for the first time in eight months and was the highest this year. After falling to 51.2 billion yen in May, orders plateaued in the higher 60 billion yen range from June onward. The amount of orders recovered significantly in September, even when taking into consideration the effects of the interim closing, and they are at least climbing from rock bottom.

In September, internal demand rose 31.2% from the previous month but decreased 34.3% year on year to 30.27 billion yen, surpassing 30 billion yen after six months. All 11 categories of business had improved figures compared with the previous month, including general machineries which exceeded 12 billion yen, and also automotive related businesses, which have been sluggish, both of which went beyond seven billion yen for the first time in six months.

External demand rose 19.9% from the previous month and by 1.7% year on year to 53.829 billion yen. It was the first time in 24 months that external demand was greater than that in the same month a year earlier. Demand is growing in Asia, especially in China where growth has been observed for four consecutive months, showing an increase of 89.9% year on year.

India also improved for the first time in 15 months by 10.1%. Demand from North America exceeded 15 billion yen after six months. On the other hand, demand has been sluggish in Europe compared to other major regions.

The preliminary figure for the total amount of orders received in October was 82.321 billion yen, down 5.9% year on year. It was the 25th consecutive month that the figure was lower than the same month in the previous year. However, orders exceeded 80 billion yen for two months in a row, and saw only a minor decrease of 2.1% compared with the month earlier. There seems to be an ongoing trend of recovery, even when considering the drop from September when the concentration of orders at term-end has an impact.

Internal demand dropped 13.6% year on year to 28.866 billion yen, and is projected to fall for the 23rd consecutive month. External demand also decreased 1.1% to 53.455 billion yen, and the amount of orders will likely fall below that of the same month of the previous year for the first time in two months. However, external demand has exceeded 50 billion yen for two straight months. The recovery trend that has been observed up until last month with demand increasing in China now seems to be continuing.

Moving Towards Recovery

Looking at the current situation surrounding the economy, the overall market environment for manufacturing industries still appears to be harsh, as there



On-machine measurements of objects being machined enables the consolidation of processes and enhances precision (provided by Captain Industries, Inc.)

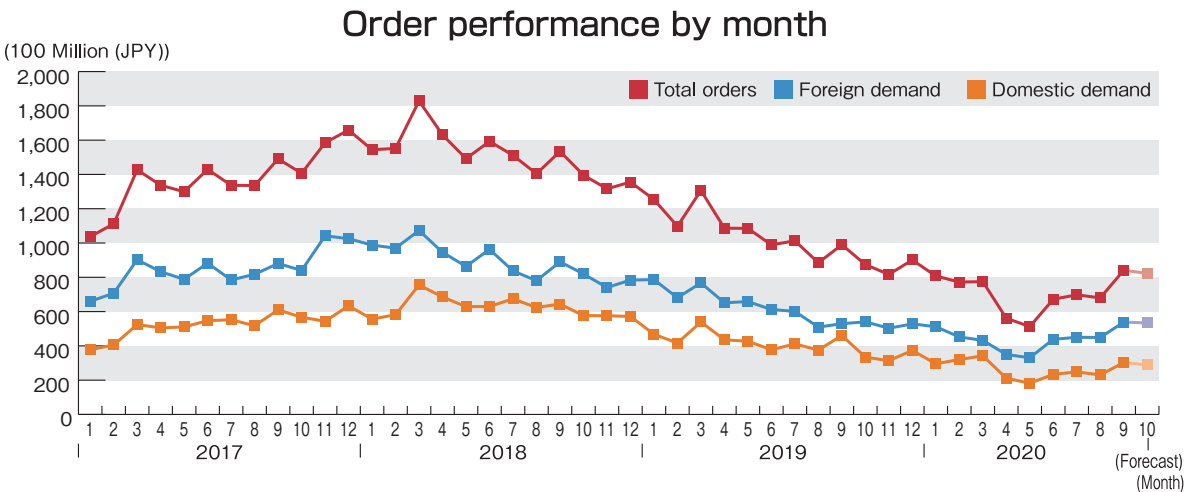
are various risks and fluctuations, such as the rebound of the novel coronavirus in Europe, yen appreciation, and intensified US-China friction, including trade embargoes against Chinese companies and measures against technology outflow.

On the other hand, as can be seen in the amount of orders received in September, a recovery trend can be observed. It seems that economic activities that conform to the new normal have been established to a certain extent, and sentiment toward capital investment is gradually improving.

Trends in demand in automobile related businesses capture the most attention of any of the businesses. While sales of new cars are bottoming out, production is recovering for the most part, and China has taken the lead in increases of orders received. Some machine tool manufacturers are receiving a growing number of inquiries in Japan and North America, and the future seems to be looking slightly better. In the business of semiconductor manufacturing equipment, demand has been sustained due to the construction of additional data centers, increases in telecommuting, and the manufacturing of late-model smartphones, etc. In addition, there are inquiries regarding investing in the automation of transport equipment and storage, industrial machinery including construction machines and hydraulic equipment, and medical-related businesses. While the situation still remains tough, we would like to pay close attention to how demand develops in the future without being excessively optimistic.



There has been progress in the combining of machine tools, such as a tool for laminating shapes with a cutting tool (provided by DMG MORI CO., LTD.)





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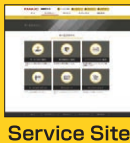


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CONTROLLER, COMPUTER SYSTEM

Controller, Computer System (CAD/CAM etc.)

OTHERS

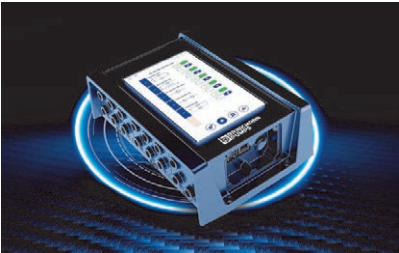
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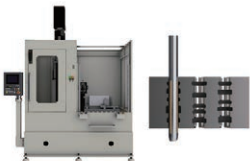
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MOLDINO Tool Engineering, Ltd.

TOOLS FOR MACHINES

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TR4F type is a roughing tool that can be used for various purposes such as vertical milling in addition to shape milling.

We expect a new lineup will contribute to improving productivity and reducing costs in mold & die manufacturing according to the various machining environments of users.

As of April 1st, Mitsubishi Hitachi Tool Engineering, Ltd. changed the name to MOLDINO Tool Engineering, Ltd.



Radius mill TR4F

✉ ml-mdiinfo1@moldino.com http://www.moldino.com/expo

DMG MORI CO., LTD.

METAL MACHINE TOOL

Includes link to the European Digital Twin Showroom

Concurrently with JIMTOF2020 Online, DMG MORI will hold "DMG MORI Online Technology Days" making the most of its Digital Twin Showroom. The highlights of the event include the unveiling of the virtual System Solution Center newly opened in the showroom; the latest measuring and chip removal solutions to be presented on the New Product Stage; and online seminars focusing on "5-axis control machining/Integrated solution, Automation and Digitization". The event will also provide a link to another Digital Twin Showroom created by DMG MORI Europe to allow visitors to view a total of 85 cutting-edge machine tools and 30 systems.



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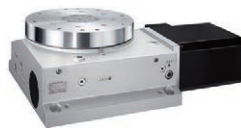
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専用機仕様横置き式
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GH501H (12+1ポート)



GEMtool Co., Ltd.



主要製品：超硬特殊工具



HABOR
PRECISION INC



主要製品：
高精度HIGインバ
ーター冷却機



HIWIN Corporation



主要製品：
トルクモータ回転テーブル
5軸化ソリューション



KAO FONG MACHINERY CO., LTD.



主要製品：
立形マシニングセンタ



MATRIX PRECISION CO., LTD.



主要製品：
THW-シリーズ
CNCウォーム(ねじ)
研削盤+自動化
システム



MicroLab Precision
Technology Co., Ltd.



主要製品：
ユニバーサルヘッド



PARKSON
CNC ROTARY TABLES



PARKSON WU INDUSTRIAL CO., LTD.

主要製品：
APCR1シリーズ
マルチパレット
自動交換システム



第30回 日本国際工作機械見本市 11月16日→11月27日

JIMTOF 2020 Online

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台湾機械工業同業公会

Taiwan Association of Machinery Industry

Featured exhibitors at JIMTOF2020 Online

To find out more, search by entering [the company name] in the search boxes on this website.

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A new version of the world's No.1 CAD/CAM system "Mastercam" is now available! Mastercam 2021 has enhanced modeling system and improved toolpath accuracy. Furthermore, in addition to the new function that creates semi-automatic roughing toolpath for multi-axis toolpath, we enhanced computational engine. We will provide faster, more flexible multi-axis programming. And, you will also experience the power highly efficient roughing toolpath by 『dynamic motion technology』. Anyone cannot imitate. It is the feature only Mastercam. Let's get the "future quality"!



Realize the future quality when you use it! (Mastercam2021)

marketing@genetec.co.jp https://www.mastercam.co.jp

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Achieved the quality of hand laser with "TIG welding machine"!

The high precision overlaying welding machine "WELD PRO SW-V02" is a TIG welding machine that achieves welding with the same low heat effect as laser welding. It can be introduced as a safety measure for TIG welders, so there is no need to secure space or take safety measures specific to laser welders, and it can lower the bar for precision welding. The welding current can be set to a wide range of 2A to 250A, and it is very effective for welding of thin sheets and parts that must not be distorted by heat.

High Precision Welding Machine
WELD PRO
SW-V02



Comparison with Laser Welder

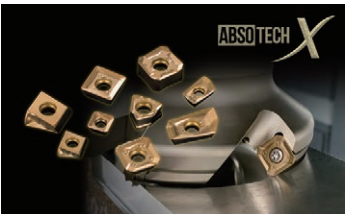
	SW-V02	1kw Hand Laser
Price	About 1/10 the price of a laser welder	About 20 million yen
Safety	Same as the protective equipment of TIG welder	Large-scale safety incidental equipment
Performance	Equivalent	Equivalent

sanwa.shoko@nifty.com http://www.sanwashoko.co.jp/

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XCU2500/XCK2000

https://www.sumitool.com/

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MACHINE ACCESSORY

Only those who know will benefit!

Tool holders are important devices that connects a machining center and cutting tools, and it is not well known that different tool holders greatly contribute to improving machining accuracy and productivity. Our Super G1 Chuck can maximize the performance of machining center and cutting tools, and contributes to productivity improvement and cost reduction by extending the life of cutting tools, improving work quality, shortening cycle time, etc. ... It is a tool holder that "only those who know will benefit"!



Toolholder Super G1 Chuck

eikan@yukiwa.co.jp https://g1-chuck.com/

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Muratec's turning machines meet the needs in production of each individual customer, and play an active part in the automotive parts and other industries in constant pursuit of productivity. MT series, high productivity multi-tasking turning machine, realizes process integration in cutting bar and chuck workpieces by flexible operation utilizing multiple turrets. Through Turnkey Solutions which deliver combinations of turning machines, transport devices (gantry loaders) and peripheral equipments, we construct automation systems customized for various needs, and would like to contribute customers' productivity improvement and labor-saving continuously.



MT200 In-line Opposed Twin Spindle Turning Machine

https://muratec.online/JIMTOF2020mt-e/

We will introduce Advanced Hybrid Laser named LS3015HL which has additional advantage of forming & tapping functions over high speed & high accuracy cutting of fiber laser and can achieve high quality & high productivity. FG3015TL is our automation which has sorting system with the tower and will help achieve automated & stable production together with our Fiber Laser as well as Advanced Hybrid Laser. We are willing to propose various solutions according to the need of each customer against the issues faced at production site by introducing our latest technology & products.



Advanced Hybrid Laser + Individual parts pick and sort systems with stocker

https://www.muratec.net/s/



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JIMTOF2020 Online
Date: Nov.16(Mon) 10a.m.-Nov.27(Fri) 5p.m.

New Universal Grade for Milling
ACU2500



Solid Carbide Reamer
SumiReamer SSRseries



High-Efficiency Shoulder Milling Cutter
for General Purpose
SEC-WAVEMILL WEZseries



High-efficiency PCD Cutter
for Aluminum Alloys
ALNEX ANXseries



Grooving/Cut-off Tools
SEC-Grooving Tool Holders GNDseries

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JIMTOF 2020 Online Exhibitor’s List

Exhibit Area				
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Exhibitors in alphabetical order

Company Name	Area
A.L.M.T.Corp.	
ADACHISOGYO Co., Ltd.	
Aichi Sangyo Co., Ltd.	
Akamatsu Electric Mfg.Co.,Ltd.	
AKEBONO MACHINE INDUSTRIES CO.,LTD.	
ALPS TOOL CO., LTD.	
AMADA CO.,LTD	
AMADA MACHINERY CO., LTD.	
Ametek Co.,Ltd.	
ANCA Machine Tools Japan	
AREUSE Co.,Ltd	
Asahi Diamond Industrial Co.,Ltd.	
ASTEC CO., LTD.	
Authentec	
Autodesk, Ltd. Japan	
AWA SPINDLE CO.,LTD.	
Ayabo Corporation	
Azumaneji Co., Ltd.	
B and K Co., Ltd.	
BBS KINMEI Co.,Ltd.	
Beckhoff Automation K.K	
BIG DAISHOWA SEIKI CO.,LTD.	
Blaser Swisslube Japan Co., Ltd.	
BLESS INC.	
Blum-Novotest K.K	
Brinkmann Pumps Japan Co.,Ltd	
Brother Industries, Ltd.	
Bruker Japan K.K.	
BSQ Co., Ltd.	
BUNRI Inc.	
CAMTUS INC.	
Captain Industries, Inc.	
Carl Zeiss Co., Ltd.	
CENTURY PRECISION CO., LTD.	
CGTech Inc.	
CHEIL E&M Co., Ltd.	
Chiyoda Tsusho Co., Ltd.	
CITIZEN MACHINERY CO.,LTD.	
CKB CORPORATION	
CKD Corporation	
CNC Software, Inc.	
Cominix Co.,Ltd.	
COOL TECH LTD.	
CY CARBIDE JAPAN CO.,LTD	
DAIDOKOGYOKAISHA	
DAI-ICH SOKUHAN WORKS CO.	
DAIKIN Industries,LTD.	
dainichi kinzoku kogyo co.,ltd.	
DAIWA KASEI KOGYO CO.,LTD.	
Dassault Systemes	
Data Design Co., Ltd.	
Derstrong Enterprise Co., Ltd.	
detron Machine Co., Ltd	
DFM Corporation	
DIJET INDUSRIAL CO.,LTD.	
DMG MORI CO., LTD.	
DP Technology Japan K.K.	
DynamicTools Corporation	
EBA KOGYO CO., LTD.	
Edgecross Consortium	
EGURO.LTD	
Eishin Techno Co.,Ltd.	
ELECOM	
Element Six	
ELENIX, Inc.	
EMG Lubricants	
Enshu Limited	
e-Tacs Corporation	
eurotec	
EUROTECHNO Inc.	

Company Name	Area
F.P.TOOLS CO.,LTD.	
FA Service Corporation	
FABACE Co.,Ltd.	
FACT co.ltd	
FANUC CORPORATION	
FIRSTEC CORPORATION	
FUJI BC ENGINEERING CO., LTD.	
Fuji Honing Industrial Co., Ltd.	
Fuji Manufacturing Co.,Ltd.	
FUJI SANGYO CO., LTD.	
FUJI SEIKO LIMITED	
Fuji Seimitsu Co.,Ltd.	
FUJI-DENSHI	
FUJILLOY	
FUJITASHOJI.CO.,LTD	
Fukuda Corporation	
FUTAMURA MACHINES & TOOLS CO.,LTD.	
GEMTOOL CO.,LTD	
Genetec Corporation	
Gleason Asia Co., Ltd.	
GLOBAL PARTS CORPORATION	
GOSHO Co.,Ltd	
GRAVOTECH K.K.	
GREENTOOL	
Grind Master Machines Pvt Ltd	
Grundfos Pumps K.K	
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Haimer Japan	
HAINBUCH JAPAN K.K.	
HAKUSANKIKO Co.,Ltd	
HAMAI CO., LTD.	
HASEGAWA MACHINE WORKS LTD	
Hawe Japan Ltd.	
Hayami Machine Tool Co.,Ltd.	
HEIAN CORPORATION	
HEIDENHAIN K.K.	
HEIWA TECHNIA CO.,LTD.	
HIWIN corp.	
Honda Plus Co., Ltd.	
HORKOS CORP	
Howa Machinery, Ltd.	
Hunan Boyun-Dongfang Powder Metallurgy Co.,Ltd	
Hwacheon Machine Tool Co., Ltd.	
ICHIGUCHI corporation	
ICHIKAWA GRINDER MFG.CO.,LTD	
IDEC CORPORATION	
igus k.k.	
IKEGAI Corporation	
IKURA SEIKI CO.,LTD.	
Imao Corporation	
Integra Research Co.Ltd.	
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ISHII HYOKI CO., LTD.	
ITACA JAPAN Inc.	
ITOCHU MACHINE-TECHNOS CORP.	
ITOCHU Techno-Solutions Corporation	
IWAMA Co., Ltd.	
IWASHITA INDUSTRIAL CO.,LTD.	
Iwata Tool Co., Ltd.	
JAPAN AUTOMATIC MACHINE CO.,LTD.	
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Japan Laser Corporation	
Japan Speed Shore Co.,LTD	
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JEOL Ltd.	
JTEKT CORPORATION	
Kaesung Technologies, Inc.	
Kan Mechanical Industry.Inc	
KANEFUSA CORPORATION	
KANETEC CO.,LTD.	

Company Name	Area
KANEX HAMONO KOGYO CO.,LTD	
KANTO SEIKI Co.,Ltd	
KANZAKI KOKYUKOKI MFG. CO., LTD	
KAO FONG MACHINERY CO., LTD	
Karats Precision, Inc.	
KASHIFUJI WORKS, LTD.	
KATO MFG. CO.,LTD.	
KEBA Japan Co.,Ltd.	
KEIJKOUSAN CO., LTD	
KEYENCE CORPORATION	
KF Carbide Japan Co.,Ltd.	
KIHIN KOGYOSHO CO.,LTD.	
KINTSUNE SEIKI CO.,LTD.	
KISOH	
Kistler Japan Co., Ltd.	
Kitagawa Corporation	
KITAMURA MACHINE WORKS CO.,LTD.	
KITAMURA MACHINERY CO.,LTD	
KIWA MACHINERY CO.,LTD.	
KOBAYASHI INDUSTRY CO.,LTD.	
Kodama Corporation, Ltd.	
KOHARA GEAR INDUSTRY CO., LTD.	
konitech inc.	
KOSMEK LTD.	
KOWA EMTECH LIMITED	
koyo giken Inc.	
KOYO MACHINE INDUSTRIES CO.,LTD	
KREUZ Co.,Ltd.	
KTR Japan Co., Ltd.	
KURAKI CO., LTD.	
KURE GRINDING WHEEL CO.,LTD.	
KURODA PRECISION INDUSTRIES LTD.	
KYOCERA Corporation	
Kyoritsu Gokin Co., Ltd.	
kyowaseiko	
Liebherr-Japan Co., Ltd.	
LNS Japan GK	
LUBE CORPORATION	
MACHINESOL Co.,Ltd.	
MACNICA, Inc.	
MAEDA SHELL SERVICE CO., LTD.	
Mair Research S.p.A.	
Makino Milling Machine Co., Ltd.	
Makino Seiki Co.,Ltd.	
MANYO TOOLS CO., LTD.	
MARPOSS K.K.	
Marubeni Information Systems Co.,Ltd.	
MATRIX PRECISION CO.,LTD	
Matsuura Machinery Corporation	
MECTRON INC.	
Metrol Co., Ltd.	
MicroLab Precision Technology Co., Ltd.	
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MIKI PULLEY CO., LTD	
MINORI INDUSTRY CO.,LTD.	
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Mitsubishi Heavy Industries Machine Tool Co.,Ltd.	
Mitsubishi Materials Corporation	
Mitsuboshi Kogyo Co., Ltd.	
MITSUHATA MACHINERY CO.,LTD	
Mitsui High-tec, Inc.	
Mitsui Seiki Kogyo Co., Ltd.	
Mitutoyo Corporation	
MOLDINO Tool Engineering, Ltd.	
MST corporation	
MURAKI LTD.	
Murata Machinery, Ltd.	
NABELL CORPORATION	
Nabeya Co.,Ltd.	
NACHI-FUJIKOSHI CORP.	



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Now available for ball screws!

A predictive failure detection system that enables predictive maintenance

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Manufacturing plants are seeking IoT solutions. Yet, even as factories are in a hurry to implement this technology, many struggle with operational hurdles. We use our extensive know-how as a top manufacturer of machine components to overcome those challenges together with our customers. OMNI edge launched in January 2020, and through customer feedback, it will continue to evolve with features such as an expanded lineup and improved user interface.




















































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*The product's outward appearance is subject to change without notice for the purpose of improvement.

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NAKANIHON-RO KOGYO CO.,LTD	
Nango Co.,Ltd.	
NATOCO	
NBK	
NEOS COMPANY LIMITED	
NEW STRONG CO.,LTD.	
NEWREGISTON Co.,Ltd.	
NGK SPARK PLUG CO.,LTD.	
Nihon Onkyo Engineering Co., Ltd.	
NIHON SEIKI CO. LTD	
Nihon-ALSYS.Inc	
NIIGATA MACHINE TECHNO CO.,LTD	
Nikken Kosakusho Works LTD.	
NIKKI Trading Corp.	
NIKON CORPORATION	 
nikuni Co.,Ltd	
NIPPON BEARING CO.,LTD.	
Nippon Jabara Co., Ltd	
Nippon Schneeberger K.K.	
NIPPON THOMPSON CO.,LTD.	
NISHIJIMA CORPORATION	
NISSIN MACHINE WORKS,LTD.	
NISSIN MANUFACTURING CO., LTD.	
NITTO KOHKI CO., LTD.	 
NK WORKS CO., LTD.	
NOMURA DS CO.,LTD	
NOMURA MACHINE TOOL WORKS,LTD	
NORITAKE CO., LIMITED	
NS TOOL CO.,LTD.	
NSK Ltd.	
NT TOOL CORPORATION	
NTN corporation	
Obishi Keiki Seisakusho Co.,Ltd.	
OGASAWARA PRECISION LABORATORY CO. LTD	
OHMIYA MACHINERY Co.LTD	
OJIYASEIKI CO.,LTD	
Okamoto Machine Tool Works,Ltd.	
OKK CORPORATION	
OKS Company Limited	
OKUMA Corporation	
OLYMPUS CORPORATION	
O-M Ltd	
ORiN Consortium	
OSG Corporation	
P&C LTD.	
PARKSON WU INDUSTRIAL CO., LTD.	
Parts Supply Center Co., Ltd.	
Pascal Corporation	
PIONEER MACHINE TOOLS,INC.	
Plant Service Co., LTD.	
PMT	
Polytec Japan	
PRIORITY.,LTD	
PULSTEC INDUSTRIAL CO., LTD.	
QMC	
REGG Inspection	
Reishauer KK	
Renishaw KK	
RIKEN SEIKI Co.,Ltd.	
RIKOSHA Co., Ltd.	
RIX	
ROKU-ROKU SANGYO,Ltd.	
RPS.,LTD	
RYOYO ELECTRO CORPORATION	
S&F Inc.	 
S.LAB	
SAEILO JAPAN, Inc.	
SAIDA UMS INC.	
Saint-Gobain K.K.	
Saito Seisakusho Co., Ltd.	

Company Name	Area
SAKURAI LTD.	
SAMICK MECHATRONICS CO.,LTD.	
Sanalloy Industry Co., Ltd.	
Sanki-Tech nos.Co.,Ltd.	
SANWA ENTERPRISE COMPANY, LTD.	
Sanwa Robotics Co.,Ltd.	
SANWA SHOKO Co.,LTD.	
SANWAKOUYU	
SANYO MFG.CO.,LTD.	
Satech Safety Technology Ltd	
SCHUNK JAPAN	
SCREEN Holdings Co., Ltd.	
SECOTOOLSJAPAN	
Seibu Electric & Machinery Co.,Ltd.	
SeibuHitecCo.,Ltd.	
Seiko Instruments Inc.	
SENJO SEIKI CO., LTD.	
SEOAM MACHINERY INDUSTRY	
SHIBAURA MACHINE CO.,LTD	
Shibuya	
SHIGIYA MACHINERY WORKS LTD.	
SHIN NIPPON KOKI	
SHINANO KIHAN CO.,LTD	
SHIN-OH ELECTRIC CO.,LTD.	
SHIZUOKA MACHINE TOOL.CO.,LTD	
SHOWA TOOL	
Siemens	
Silver Alloy Co.,Ltd.	
SMC Corporation	
Sodick Co., Ltd.	
SOFIX Co., Ltd	
SOLTON CO.,LTD.	
SOMAX CO., LTD.	
Speedy Target Group Ltd, Co.	
STAR MICRONICS CO.,LTD.	
STARTOOL CO.,LTD	
STJ CORPORATION	
ST-LINK	
SUGINO MACHINE LIMITED	
Sumitomo Electric Industries, Ltd.	
Sumitomo Heavy Industries Finetech ,Ltd.	
Systemcreate Co., Ltd.	
TAEGUTEC JAPAN LTD.	
TAIYO KOKI CO., LTD.	
TAIYU CO .,LTD.	
TAKAHASHI MACHINERY CO.,LTD.	
TAKAMATSU MACHINERY CO.LTD	
Takashima Sangyo Co.,Ltd.	
TAKAYAMA TRADING CO., LTD	
TAKEDA MACHINE TOOLS CO., LTD.	
TAKEDA TRADE CO., LTD.	
Takisawa Machine Tool Co., Ltd.	
tanitec corporation	
TANOI MFG.CO.LTD.	
TECHNO21GROUP	

Overseas Industry Association

Organization Name
AMT (The Association for Manufacturing Technology)
AMTIL (Australian Manufacturing Technology Institute Limited)
CECIMO (European Association of the Machine Tool Industries)
CMTBA (China Machine Tool & Tool Builders' Association)
IMTMA (Indian Machine Tool Manufacturers Association)
KOMMA (Korea Machine Tool Manufacturers Association)
Metaltechnology Austria
MTA (The Manufacturing Technologies Association)
SST (Association of Engineering Technology)
STANKOINSTRUMENT
Swissmem
TAMI (Taiwan Association of Machinery Industry)
TMBA (Taiwan Machine Tool & Accessory Builders' Association)
UCIMU (Italian Machine Tools, Robots & Automation Manufacturers' Association)
VDW (German Machine Tool Builders' Association)

Company Name	Area
TECHNOA Inc.	
TechnoCoat Co., Ltd.	
TECNISCO, LTD.	
TEIKEN Corporation	
TEIKOKU CHUCK CO., LTD.	
Telus Laser Co., Ltd.	
Teral Inc.	
THE NIKKAN KOGYO SHIMBUN, LTD.	
The SHODA Company	
THK CO.,LTD.	
Tipton Corp.	
TMW Co.,Ltd.	
TOHSHIN TECHNICAL CO.,LTD.	
TOKO CO., LTD.	
tokyo chokoku marking products co.,Ltd	
Tokyo Diamond Tools Mfg. Co.,Ltd.	
Tokyo Engineering Co., Ltd.	
TOKYO SEIKI KOSAKUSHO Co.,LTD.	
TOKYO SEIMITSU CO., LTD.	
Tokyo Technical Instruments inc.	
TOMEI DIAMOND CO.,LTD	
TOOL de INTERNATIONAL CO.,LTD	
Toyo Advanced Technologies Co.,Ltd.	
TOYO Co.,Ltd	
TOYO CORPORATION	
TOYO KENMAZAI KOGYO LTD.	
Toyo Screen Kogyo Co., Ltd	
TOYODA VAN MOPPEs LTD.	
Trio Engineering Co., Ltd.	
TRUMPF Corporation	
TSUDAKOMA Corp.	
TSUGAMI CORPORATION	
TSUNE SEIKI	
Tungaloy Corporation	
UNION TOOL CO.	
United Grinding Group	
UNITEK JAPAN K.K.	
Vectrix Corporation	
VOLLMER JAPAN CORP.	
WAIDA MFG. CO., LTD.	
WFL Millturn Technologies GmbH & Co. KG	
WinTool AG	
WJT Co., Ltd.	
XEBEC TECHNOLOGY CO.,LTD.	
XTIA, Ltd	
Yamada Machine Tool Co., Ltd.	
YAMASAKI GIKEN CO., LTD.	
YAMAWA MFG.CO.,Ltd.	
Yamazaki Mazak Corporation	
YAMAZEN CORPORATION	
YANO METALS CO., LTD.	
YASDA PRECISION TOOLS K.K.	
YODOGAWA ELECTRIC TOOL MFG.,	
YUKIWA SEIKO INC.	
YUSHIRO CHEMICAL INDUSTRY CO.,LTD	
ZOLLER Japan K.K.	

【Participating Countries / Regions】 9 Countries and Regions
Austria, China, India, Italy, Japan, Korea, Switzerland, Taiwan, U.S.A.

Organizers & Sponsors

Organization Name
Japan Machine Tool Builders' Association
Japan Machine Tool Importers' Association (JMTIA)
Japan Forming Machinery Association (JFMA)
Japan Precision Machine Association (JAPMA)
Japan Cutting & Wear-resistant Tool Association (JTA)
Japan Machine Accessory Association (JMAA)
Japan Precision Measuring Instruments Manufacturers Association (JMA)
Japan Grinding Wheel Association (JGWA)
Industrial Diamond Association of Japan (IDA-J)
Japan Optical Measuring Instruments Manufacturers's Association (JOMA)
Japan Fluid Power Association (JFPA)
Japan Testing Machinery Association (JTM)
Japan Gear Manufacturers Association (JGMA)

JIMTOF2020 Onlineに出展!

 三菱重工工作機械

マシンツールフェア on the Web 同時開催!

開催日程: 11月16日~27日 <https://www.mhi-machinetool.com/event/mtf2020>

- 多様なサイズレンジの金属造形に対応し、2.5mまでの大形金属造形が可能
- 大気中でのチタン造形を可能にするローカルシールドノズル

パウダDED方式 3次元金属積層造形機

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高精度小モジュール用歯車工作機械

FR series

GE15FR Plus

展示内容

高精度ギヤシェーパ
SE25FR

歯車研削盤
ZE16C

内歯車研削盤
ZI20A

門形マシニングセンタ
MV-Bx series

超薄型精密位置検出器
MPFAスケール

精密切削工具

私たちは「ものづくり」の未来を創ります

三菱重工工作機械株式会社

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マシンツールフェア on the Web
特設サイトはこちら

Online Seminar Program List

16 Nov.(Mon.)	
Keynote Speech 14:00~15:00 <small>*Redistribution for Overseas : 24:00-25:00</small>	"Bringing the joy and freedom of movement to all" —Automated Driving technology for the future mobility society— Toyota Motor Corporation Mr.Ken Koibuchi
17 November (Tue.)	
Seminar ① 11:00~12:00 <small>*Redistribution for Overseas : 23:00-24:00</small>	Quantum computing: Status and prospect of its research and development Tokyo Institute of Technology Dr.Hidetoshi Nishimori
Seminar ② 14:00~15:00 <small>*Redistribution for Overseas : 24:00-25:00</small>	"Make your dreams come true with manufacturing" Yuki Precision continues to challenge to become an innovator company that supports the aerospace industry. YUKI Precision Co., Ltd. YUKI Holdings Inc. Mr.Masato Otsubo
18 November (Wed.)	
Seminar ③ 11:00~12:00 <small>*Redistribution for Overseas : 23:00-24:00</small>	On our Future Living with AI ~The truth is, AI is much more ignorant and far more intelligent~ National Institute of Informatics Dr.Seiji Yamada
Seminar ④ 14:00~15:00 <small>*Redistribution for Overseas : 24:00-25:00</small>	Future trend based on the basics of Additive Manufacturing using metallic materials Tokyo University of Agriculture and Technology Dr.Hiroyuki Sasahara

19 November (Thu.)					
Seminar ⑤ 11:00~12:00 <small>*Redistribution for Overseas : 23:00-24:00</small>	5G Network creates new society service —From big data to dynamic big data— Keio University Dr.Naoaki Yamanaka				
Seminar ⑥ 14:00~15:00 <small>*Redistribution for Overseas : 24:00-25:00</small>	Industrial Disaster Prevention against Various Disasters Nagoya University Dr.Nobuo Fukuwa				
20 November (Fri.)					
Special Seminar 11:00~12:00 <small>*Redistribution for Overseas : 24:00-25:00</small>	Moving Gundam in Yokohama ~GUNDAM GLOBAL CHALLENGE~ Director of Incorporated Association GUNDAM GLOBAL CHALLENGE / President & CEO, BANDAI NAMCO Entertainment Inc. Mr.Yasuo Miyakawa GGC Leader(Professor emeritus of Waseda University) Dr.Shuji Hashimoto GGC Leader(Professor in School of Engineering, Chukyo University) Dr.Pitoyo Hartono GGC Technical Director Mr.Akinori Ishii				
Video on Demand	All 8 lectures can be viewed anytime and as many times as needed during this period! Monday, November 23, 10:00 a.m. to Friday, November 27, 5:00 p.m.				
Redistribution for Overseas	We will be re-distributing the video at midnight for international visitors due to the time difference. <table><tr><td>Lecture in the morning</td><td>23:00-24:00 on video streaming days* *Lecture on 11/20 only, 24:00-25:00</td></tr><tr><td>Lecture in the afternoon</td><td>24:00-25:00 on video streaming days</td></tr></table>	Lecture in the morning	23:00-24:00 on video streaming days* *Lecture on 11/20 only, 24:00-25:00	Lecture in the afternoon	24:00-25:00 on video streaming days
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Next issue of JIMTOF Online News appears on Tuesday, November 24					

A Moving Full-Scale Gundam!

The GUNDAM FACTORY YOKOHAMA is set to open at Yokohama Yamashita Pier on December 19. The production and assembly of a full-scale 18-meter tall Gundam model that is capable of moving, has been carried out under the project name of the GUNDAM GLOBAL CHALLENGE (GGC). This factory consists of GUNDAM-DOCK, where the “moving Gundam” is stored and maintained, and GUNDAM-LAB, which includes an exhibition that shows how the moving parts work. Under the project launched in 2019 to celebrate the 40th anniversary of the TV series Mobile Suit Gundam, a Gundam capable of movement, which Gundam fans all over the world have dreamed of, will finally come alive. The factory will be open to the public until March 31, 2022.

Three directors led the many people involved in the moving Gundam project: Akinori Ishii, Technical Director; Masaki Kawahara, Creative Director

(Creative Division, NOMURA Co., Ltd.) ; and Wataru Yoshizaki, System Director (Director of Asratec Corp.), who are all die-hard Gundam fans. Ishii left a major company to dedicate himself to GGC. Kawahara produced the exterior design of the Gundam statue in Tokyo’s Odaiba district. And Yoshizaki developed a special control program for the Gundam model all on his own. They invested all the experience and expertise they have accumulated in their respective fields to complete this moving Gundam.

According to them, the large number of joints was one of the most critical challenges in realizing a Gundam model that would win the hearts and minds of Gundam fans, by being able to move. The completed Gundam has 24 moving parts and more than 30 joints, including those for its fingers. Yoshizaki was concerned about the robot’s overall weight and failure risks, so he sought a way to reduce the number of joints. But Ishii suggested more joints should be used so as not to impair its flexibility. Kawahara also thought more joints would mean better movement and performance. This led to many in-depth discussions to turn the perfect Gundam into reality. “All of us, not only the directors but also development staff, racked their brains



and overcame the challenges one by one” said Ishii, looking back on those days.

Machine tools are responsible for producing the precision parts that compose the frame and joints of the Gundam model, and Japan is proud of having the highest-level of machine tool technology in the world. During this year’s JIMTOF 2020 Online, four GGC members, including the director of GGC, Yasuo Miyakawa, and the technical director, Akinori Ishii, will give an online lecture from 11:00 a.m. to 12:00 p.m. on November 20. They will talk about their passion and commitment for the moving Gundam project. In addition, the love and dedication the three directors have for the project will be shared on the machine tool industry’s special website, in the electronic edition of the Nikkan Kogyo Shimbun newspaper (Japanese version only).



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