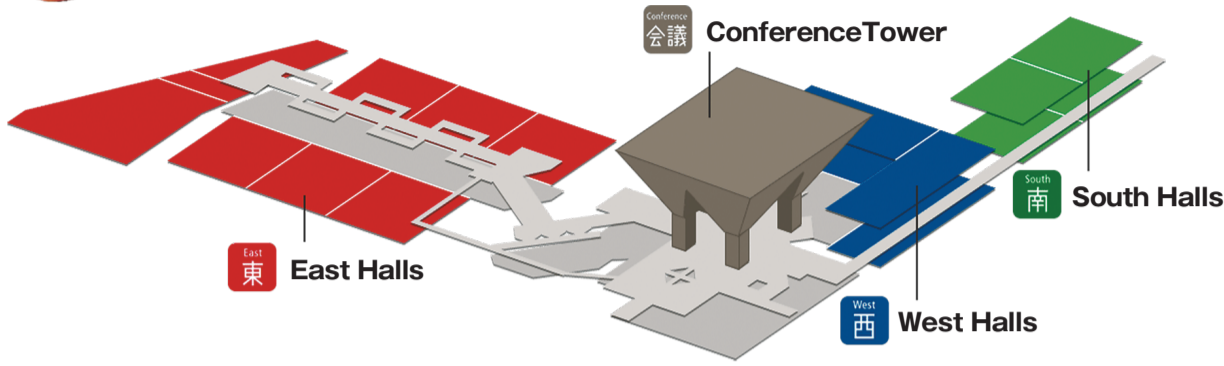




MAP & DAILY NEWS



TOPIC

Carbon Neutrality and SDGs in Manufacturing

Sustainable response is becoming increasingly important as one of the themes that today's world must tackle. Every aspect, such as in people's daily lives, industries, and transportation, calls for efforts to solve social issues such as carbon neutrality (net zero greenhouse gas emissions) and the U.N's Sustainable Development Goals (SDGs.) In the field of machine tools, environmental response is also drawing more attention than ever before as an essential element.

In the two years since the 31st Japan International Machine Tool Fair in 2022 (JIMTOF 2022), the world's decarbonization efforts have further accelerated and grown.

Renewable energy is being developed and introduced more into companies and households. In Japan and abroad, decarbonization throughout supply chains is accelerating, involving suppliers as well as the transformation of entire business management (green transformation: GX) that comes with it. Services that utilize digital technologies to estimate and visualize carbon (CO₂) emissions in supply chains are also thriving. In the automotive industry, Japanese and overseas manufacturers are actively developing and launching electric vehicles (EV).

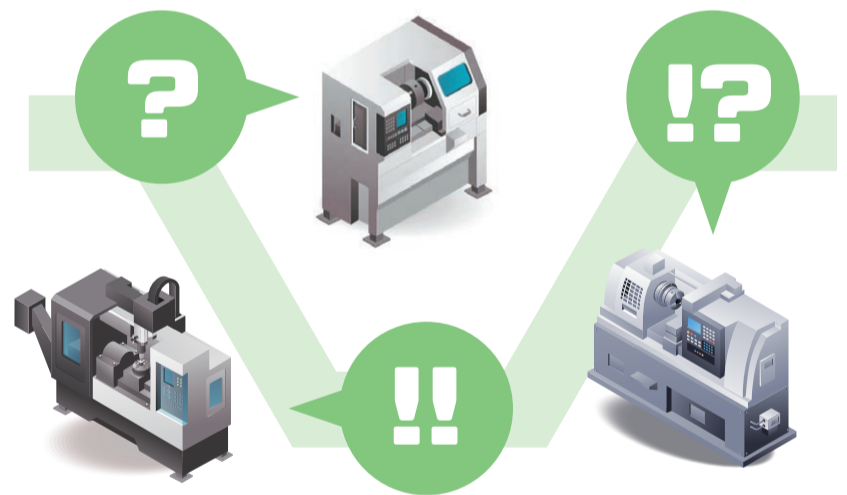


Continue to P24

ENGLISH ver.
We deliver the latest content daily

Largest-Ever Stage of Technological Innovations Kicks Off

Look for it.



THK
The Mark of Linear Motion

Official Partner of Major League Baseball

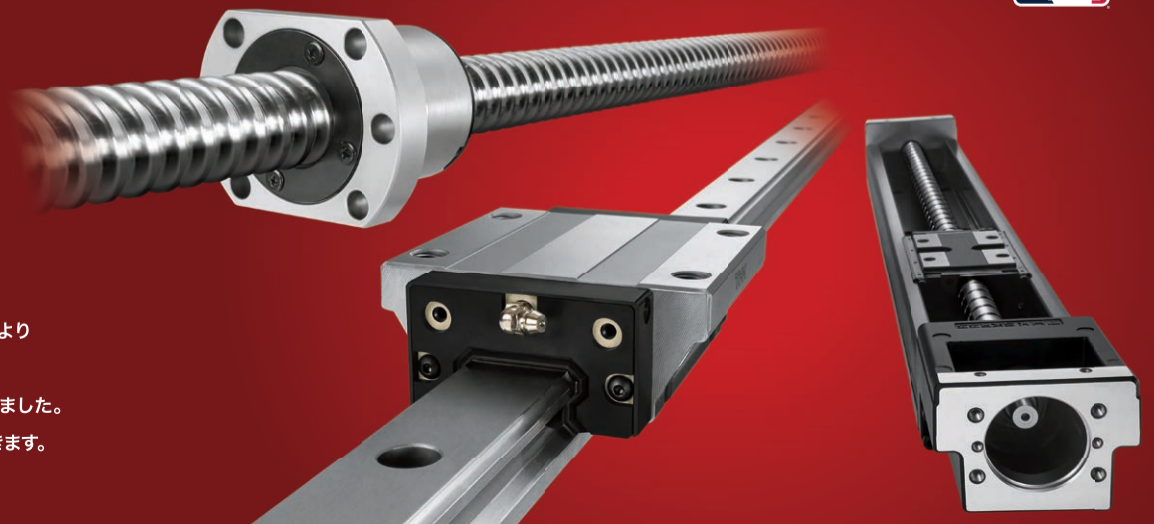
最先端の自動化

— 期待を超える 革新への"動き" —

私たち THK は機械の直線運動部のころがり化を独自の技術により実現し、「直線運動案内」として世界で初めて製品化。

いつの時代も、蓄積したノウハウで最先端の自動化に貢献してきました。

これからも幅広い製品とサービスで生産現場の可能性を広げていきます。



THK株式会社

マーケティング PR 統括部 TEL 03-5730-3845 www.thk.com

小間番号 西 2 ホール W2017

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Floor Plan

- Restaurants
- JIMTOF Food Festival
- JIMTOF Café
- Rest Area
- Prayer Room
- Information
- Shuttle Bus
- Jumbo Taxi Touring the Venue

JIMTOF East

OPEN 10:00▶18:00

(Until 16:00 on the last day)

Precision measuring machines and instruments

Optical measuring instruments

Testing machinery

Controller and related software(CAD/CAM, etc.)

Other associated machinery and equipment

Metal cutting machine tools

Other associated machinery and equipment

Controller and related software (CAD/CAM, etc.)

JIMTOF West&South

OPEN 9:00▶17:00

(Until 16:00 on the last day)

Gear and Gear devices

Oil hydraulic, Water hydraulic and pneumatic machinery

Grinding wheels and abrasives

Diamond, CBN tools

Machine tool accessories

Tools for machines (Cutting tools & Wear-resistant tools)

Other associated machinery and equipment

Metal cutting machine tools

Metal forming machine tools

Other associated machinery and equipment

Tools for machines (Cutting tools & Wear-resistant tools)

Machine tool accessories

Metal cutting machine tools

Other associated machinery and equipment

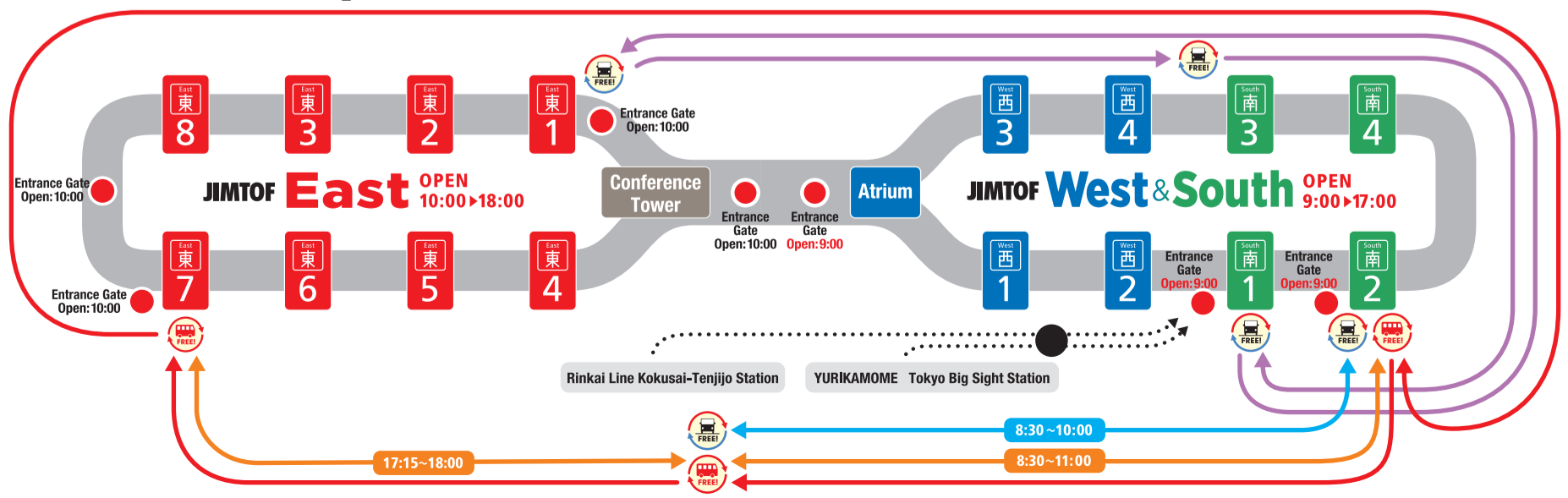
Controller and related software (CAD/CAM, etc.)

BoothNo.	Organizer Name
G0000	JMTBA
G0001	AMTIL
G0002	CMTBA
G0003	KOMMA/KOTORA
G0004	IMTMA
G0005	TMBA
G0006	TAMI
G0007	VDW
G0008	UCIMU
G0009	SST
G0010	SWISSMEM
G0011	MTA
G0012	FMMI
G0013	CECIMO
G0014	AMT

No Photography in halls
 No Smoking on site
 Please smoke in the predetermined smoking areas.

Route Map

Jumbo Taxi Touring the Venue 10:00~17:00
 Shuttle Bus 11:00~17:15



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Today's Program November 5 (Tue.)

 International Conference Room, Conference Tower 7F

13:00 - 14:00

【Keynote Speech】
Bring your dreams to manufacturing!
THK's pursuit of a new-concept EV

 Additive Manufacturing Area Organizers Main Stage

13:00 - 14:00

Changing The Future of Die Casting Leads to the
Change of Metal AM of Mold Manufacturing

14:00 - 16:00

Western companies tackling the challenges of
AM head-on



JIMTOF
MAP & DAILY NEWS
will be released daily during JIMTOF2024!





Exhibitors List

How to find the Booth No.



A

- W1042 A.L.M.T. Corp.
- W4025 A.L.M.T. Corp.
- E6023 ABICO R&D CO.,LTD.
- E5052** ABSOLENT AB
- W3079 ACCU-CUT INDUSTRIAL CO., LTD
- E7090* ACO CO.,LTD.
- E7090 ACO JAPAN.CO.,LTD.
- E7062 ACS CO.,LTD.
- W3065 Adachi Sogyo Co., Ltd.
- E7133 Adcole LLC/Adcole Far East Co.,Ltd
- W1017 AFC Japan Corporation
- E2008** Affolter Group SA
- E1088* AGATHON AG
- S3038 AHG PRECISION INDUSTRY LTD.
- E4054 Ai solutions Co.,Ltd
- E6028 Aichi Sangyo Co.,LTD
- E1037* aichi welding
- E2006* AirLoc Ltd.
- E5040* Aitronix.Co.ltd
- W2034 Akamatsu Electric Mfg.Co.,Ltd.
- E7097 AKATSUKI MFG.CO.,LTD
- E7089 AKIYAMA SEIKO CO.,LTD.
- W1075** ALESA AG
- E7080 ALFA MIRAGE Co.,LTD
- E3003** Alfred H. Schütte GmbH & Co. KG
- E1088* Alicona Imaging GmbH
- E7111* Alicona Imaging GmbH
- E1037 ALPHA LASER JAPAN CO., LTD.
- E1080 ALPSTOOL CO., LTD.
- W2009 ALPSTOOL CO., LTD.
- E1072 AMADA CO.,LTD.
- E7033 Amano Corporation
- E7012 Ametek co.ltd
- E4011 ANCA Machine Tools Japan
- E7118 AnyDesign,INC
- W1075** APPLITEC MOUTIER SA
- E7092 AQUA CHEMICAL CO.,LTD
- W4074 AQUA SYSTEM CO.,LTD
- W4002 ARAI SHOKAI.CO.,LTD.
- WA021 AREUSE Co.Ltd.
- E1025* ARUM
- W4061 ARYUNG MACHINERY IND. CO., LTD.
- W2015 ASA Electronics Industry Co.,Ltd.
- S3092 A-Safe K.K.
- W4018 Asahi Diamond Industrial Co.,Ltd.
- W3048 Asahi Shoko Co., Ltd.
- W3003 ASAHI SHO-KO-SHA CO,LTD
- E7149 ASANUMA GIKEN CO.,LTD
- W4062 ASK CORPORATION
- E1015 ASTEC Co., Ltd.
- E7104 ATAGO CO.,LTD.
- W4044 Atsuchi Tekko co.,LTD.
- W3113* ATSUMI KOGYOU CORPORATION
- E1055 Authentec Co., Ltd.
- W3100 AUTOCAM TECHNOLOGY CO., LTD.
- E5009 Autodesk Inc.
- S3034 AUTOGRIP MACHINERY CO., LTD.
- E7009 AWA SPINDLE CO.,LTD.
- S3085 AXELENT JAPAN KK
- WA019 Ayabo Corporation
- W4078* Azbil Corporation
- W4078 Azbil TA Co.,Ltd
- S3077 AZUMANEJI CO.,LTD.

B

- S3063 B AND K CO LTD
- W2041 B.C TECH co.,LTD
- S3007 BAOTN INTELLIGENT LUBRICATION TECHNOLOGY (DONGGUAN) CO.,LTD
- E5019 Beckhoff Automation K.K.
- W4038 Beijing Grish Hitech Co., Ltd.
- E4001 Beiping Machine (Zhejiang) Co Ltd
- S3090 BEISIT ELECTRIC TECH (HANGZHOU) CO., LTD
- W3113* BELLBLUE
- W3062 BICTOOL JAPAN CO., LTD.
- W2049 BIG DAISHOWA SEIKI CO.,LTD.
- E6027 Blaser Swisslube Japan Co., Ltd.
- E1067 BLESS INC.
- E1089* Blohm Jung GmbH
- E5052** BLUE PHOTON Technology & Workholding Systems LLC
- E1019 Blue Star R&D Co.,Ltd.
- E7132 Blum-Novotest K.K
- W1066** botek Präzisionsbohrtechnik GmbH
- E6010 bp Japan K.K.
- W4059 Brinkmann Pumps, K.H. Brinkmann GmbH & Co KG
- E5045 Broadleaf Co., Ltd.
- E6044 Brother Industries, Ltd.
- E7111* Bruker Japan K.K.
- W1051 BTT.co.,LTD
- E2049** BUFFOLI TRANSFER S.p.A.
- W3097 BUNRI Inc.
- E1073 Bystronic Japan, Ltd.

C

- E4048 C&G SYSTEMS INC.
- E7047 CADDi inc.
- W4055 Camel Precision Co., Ltd.
- S3050 Campower International Precision Machinery Co., Ltd
- E5031 CAMTUS INC.
- E3004 Captain Industries, inc.
- W3022 Carmex Precision Tools LTD
- E2008* Cary SA
- W1076 CemeCon K.K.
- W3113 Central Japan Parts Processing Association
- W1005 CERATIZIT Japan Corporation
- E1065 cgccorporation
- E5042 CGTech
- W4083-8 CHAIN HEADWAY CO., LTD.
- E7115 Champ Casting Industry Co., Ltd.
- W3076 CHAMPDIA Co., Ltd
- E7137 Changchun Rongde Optics Co.,Ltd.
- W3007 Changzhou North Carbide Tool Co.,Ltd
- E6040 CHANGZHOU SHUANGYANG TOOLS CO LTD
- E1016 Chemic Co., Ltd.

- S3002 Chen Ying Oil Machine Co., Ltd.
- W4083-6 CHENG FENG CASTING FACTORY CO., LTD.
- W2065* Chengdu Kilwood and CLT Co.,Ltd.
- W3068 Chengdu Metcera Advanced Materials Co., Ltd
- E3007 CHIA LERN CO., LTD.
- S3036 CHIAO FONG MACHINERY CO.,LTD.
- E4003-3 CHIEN WEI PRECISE TECHNOLOGY CO., LTD.
- E2047 CHIN HUNG MACHINERY CO.,LTD
- E3038 China Chamber of Commerce for Import and Export of Machinery and Electronic Products
- W3082 CHINA TAIZHOU SHAOSHI TOOLS CO.,LTD
- E4032 CHING TAI COG MACHINE CO., LTD.
- W3047 CHN-TOP SCI & TECH CO.,LTD
- W1062 ChuangXin Japan Co.,Ltd.
- W1050 CHUKYO CO.,LTD.
- E4014 CHUNG PU LASER Co.,LTD.
- E7077 CHUO PRECISION INDUSTRIAL CO.,LTD.
- E5021** Cimple Technology Inc.
- W1032 CIMSOURCE Japan Co., Ltd.
- E5034 CITIZEN MACHINERY CO., LTD.
- E2024 CKB Corporation
- E7022 CKB Corporation
- W4052 CKD CORPORATION
- W3083 Clavis Japan Corporation
- W1034** Co.,Ltd QMC
- E4031 Cogentech International Ltd.
- E7088 Cognex K.K
- W1078 Cominix Co.,Ltd.
- E4021 Connet Co., Ltd.
- E5022 Computer Engineering & Consulting Ltd.
- S3005** Conprofer Technology Group Co., Ltd.
- S3046 COOL TECH LTD.
- E7075 CORETECH Co.,LTD.
- W3086 CORTOOL MANUFACTURING GROUP
- E3016 COSEN MECHATRONICS CO., LTD
- W4005 Cosmotech Co., Ltd.
- W2059 COYO CORPORATION
- W4003 create engineering corporation
- W3025 Cresstech Corporation
- E2008* Crevoisier SA
- S3087 CSA GROUP JAPAN LTD
- S3012 CSC BEARING CO LTD
- W1033 CY CARBIDE JAPAN CO.,LTD.
- W3046 Cyber RC Co.,Ltd.

D

- W3017 Da Shiang Automation Industrial Co., Ltd
- W3050 daido kogyo kaisha
- E7017 DAI-ICH SOKUHAN WORKS CO.
- WA015 DAIICHSANGYO CO., LTD
- W4058 DAIKIN INDUSTRIES, LTD.
- E6043 DAINICHI KINZOKU KOGYO CO.,LTD
- E6029* Daisei Co.,Ltd.
- W4037 Daiwa Rabin Co., Ltd.
- S3015 DAIYA SEIKI Co., Ltd.
- E4056 Data Design Co., Ltd.
- S3090* DENKA ELECTRON
- W4083-14Derstrong Enterprise Co., Ltd.
- W4004 deta International
- W3103 detron Machine Co., Ltd.
- WA025 DEUBLIN JAPAN
- W3027 DHF Precision Tool Co., Ltd.
- S3049 DI CHUN IRON WORK CO., LTD.
- W4083-5 DI KU DIAMOND ENTERPRISES CO., LTD.
- E7003 DIATEST JAPAN LTD
- W1072* DIAVAC LIMITED
- W1043 DIJET INDUSTRIAL CO., LTD
- WA006* DINE,INC
- W1066** DIXI Polytool S.A.
- W3060 DKSH Market Expansion Services Japan K.K.
- E4009* DKSH Market Expansion Services Japan K.K.
- E8004 DMG MORI Precision Boring Co.,LTD.
- E8001 DMGMORI CO.,LTD.
- W1072* DONG SUNG LASER CO.,LTD.
- E6031 DONG YING HYSEN WATER PROCESSING TECHNOLOGY CO.,LTD
- W3014 DONGGUAN MING ZE HARDWARE MACHINETY CO., LTD.
- W3008 DONGGUAN ZHONGJI RONGYAO METAL CUTTING TOOLS CO.,LTD
- E2003* Dontyne Systems Limited
- E5029* DP Technology Japan
- W3101 DTR CORPORATION
- W2006 DURIMITEZ Co. Ltd
- E1033 DURMAZLAR MAKINA SAN VE TIC A.S
- WA001 DYC Co., Ltd.
- E5052 Dynamic Tools Corporation

E

- E2006* e+a Elektromaschinen und Antriebe AG
- E3009 EASTERN TECHNICS Corp.
- E1084 EBA KOGYO CO.,LTD
- W4083-11ECHAINTOOL PRECISION CO., LTD.
- E5041 Edgecross consortium
- E6042 EGURO.LTD.
- W3002 EIKO ELECTRIC INDUSTRIAL CO.,LTD.
- W1003 EIKOSHA CO.,LTD.
- E7106 EISEN CO., LTD.
- E7038 Eishin International Co.,LTD.
- S3019 Eishin Techno Co.,Ltd.
- E3029 Elenix Corporation
- E7075* ELGOJAPAN
- W1068 EMUGE FRANKEN K.K.
- E4007 ENEOS Corporation
- E3040* ENSHU INDUSTRIAL Co.,Ltd
- E3040 ENSHU Limited.
- E2033* EPLAN
- E1035 E-PLAN Co.,Ltd
- E2024* Ernst GROB AG
- E6005 EROWA NIPPON LTD.
- E2006 Esco S.A.
- E5038 Essor Precision Machinery Inc.
- W3009 EST TOOLS CO.,LTD
- E7060 EUCHNER Co.,Ltd.
- E1025** Eureka Robotics, Co., Ltd.
- E1088 EUROTECHNO Inc.

- E7111 EUROTECHNO Inc.
- W1049* Everloy Shoji Co., Ltd.
- S3003 EVER-ON CORPORATION
- E7074 EVIDENT Corporation
- E1089* EWAG | Fritz Studer AG EWAG Zweigniederlassung
- S3064 EXACT MACHINERY CO LTD
- E4037 Exstream Corp.

F

- W1010 F.P.TOOLS CO.,LTD
- E1062 FABACE Co.,Ltd.
- E7041 Fact Base
- E5006 FACT Co., Ltd
- E7008 Fagor Automation Japan K.K.
- S2001 FANUC CORPORATION
- E7119 FARO Japan, Inc.
- E4010* FAST CORPORATION
- E5052** FILTERMIST INTERNATIONAL LTD.
- E6032 FIRST GIKEN CO.,LTD.
- W2004 FIRTEC CORPORATION
- E1066 Fladder Danmark A/S
- E6045 Flow Japan Corporation
- E5047 FNS Co.,Ltd.
- W3026 Fodbits (Weihai) Precision Technology Co., Ltd.
- E4020 Foshan Huibaisheng Laser Technology Co Ltd
- E5052** Franz KESSLER GmbH
- E1061 FREEBEAR CORPORATION
- E1089* Fritz Studer AG
- W4030 FSK Inc.
- E8002 FUCHS JAPAN LTD.
- E7040 Fuji AI Precision Co., Ltd.
- W1070 FUJI BC ENGINEERING CO., LTD.
- E6021 FUJI CORPORATION
- W1047 Fuji Die Co.,Ltd
- E1002 Fuji Honing Industrial Co., Ltd.
- W4010 Fuji Industries Co.,LTD.
- E7142 Fuji Manufacturing Co.,Ltd.
- E3031 FUJI MANGYO CO., LTD.
- E1032 fuji shoji
- E7020 FUJI TOOL Co., LTD.
- E4012 FUJI-DENSHI
- W3056 FUJIGEN KOGYO CO.,LTD.
- E7141 FUJIKIHAN CO.,LTD.
- E1071 FUJIKIKO Co.,Ltd.
- E1007 FUJIMOTOYUKA
- W1019 FUJISEIKO LIMITED
- E6001 Fukuda Corporation
- W3049 FUKUDA SEIKO CO.,LTD.
- E1017 FUNASAW CO.,LTD
- W4016 FUNIK ULTRAHAD MATERIAL CO.,LTD.
- W4048 Fuqing Rihon Abrasives Co Ltd
- W4028 Fuqing RongMa Grinding Wheel Co, Ltd
- WA029 FURUKAWASEIKI CO.,LTD
- W2043 futamura machines & tools co.,Ltd.

G

- W3058 Ganzhou Grandsea Cemented Carbide Co.,Ltd
- E3042* GAZIRU, Inc.
- E2024* Gehring Technologies GmbH + Co. KG
- W3042 Gemtool Co., Ltd.
- E5021 GENETEC CORPORATION
- E4053 GENIO Solutions co.,Ltd.
- W3111** Georg Schlegel GmbH & Co. KG
- W3115 German Tech Precision Manufacturing Co., Ltd
- E2002 GF Machining Solutions
- E2024* GFU Maschinenbau GmbH
- S3054 GIFU ENTERPRISE CO.,LTD
- W3113* GIFUPURO CORPORATION
- S3001 GIZIN INTERNATIONAL CO., LTD.
- E6008 Gleason Asia Co., LTD.
- W4001 GLOBAL DIAMOND CO.,LTD.
- S3033 GLOBAL PARTS CORP.
- E1025* G-NET CORPORATION
- E7055 GODO SOLUTION
- W1009 GOLDEN EGRET CARBIDE JAPAN CO., LTD.
- S3053 GONG YANG MACHINERY CO., LTD
- E3003 GOSHO Co., Ltd.
- E7046 GRAVOTECH K.K.
- S3069 Green Plus Co., Ltd.
- W1045 GREENTOOL CO.,LTD.
- E6037 Grind Master Machines Pvt. Ltd.
- E4003-2 GRINTIMATE PRECISION INDUSTRY CO., LTD.
- E4006 GROB Japan K.K.
- E5026 Grundfos Pumps K.K.
- S3048 GSA TECHNOLOGY CO., LTD.
- S3052 G-TEN Precision Co.,Ltd.
- S3100 Guangdong Autofor Precision Intelligent Technology Corporation Co.,Ltd
- W3072 Guangdong DaoFu Precision Technology Co Ltd
- S3023 Guangdong Hippsc Technology Co Ltd
- W3078 GUANGDONG HUASHENG NANOTECHNOLOGY CO LTD
- E6015 Guangdong Ligong Technology International Co., Ltd.
- E1064 Guangdong Longxin Laser Intelligent Equipment Co., Ltd
- W1016 Guhring Japan Co.,Ltd.
- E7135 Guillin Gemred Sensor Technology Co., Ltd
- E2040 GUNKYO,INC.
- W3020 Guohong Tools System (Wuxi) Co.,Ltd.
- E1012 Gutenberg.co.ltd
- E4024 GWEIKE TECH CO LTD

H

- E2009** Haas Factory Outlet Japan
- W3088 HABOR PRECISION INC.
- E5027 HAIMER JAPAN K.K.
- E2035 HAINBUCH Japan K.K.
- E4038 HAKUSANKIKO Co.,Ltd.
- E3026 HAMAIE CO.,LTD
- E4003-5 HAN JIE MACHINERY CO., LTD.
- E7101 Hangzhou Deepvision Technology Co, Ltd.
- E1011 Hann Kuen Machinery & Hardware Co., Ltd.
- W2003 HANSUNG GT Co.,Ltd
- E5052** Hantop Intelligence Tech.
- E7096 Hanyang Filters and Engineering Corp.
- E7150 Harbin Pioneer M&E Technical Development Co., Ltd
- E2008** Hardinge Kellenberger AG
- E4037** Hardinge Kellenberger AG

- E7069 HARTING K.K.
- E5014* HARU Technique Laboratory Inc.
- E1044 HASEGAWA MACHINE WORKS LTD
- S3042 HATSUTA SEISAKUSHO CO., LTD.
- E5025 HAWE Japan Ltd.
- S3079 HAYAMI MACHINE TOOL CO.,LTD.
- E4008 heian corporation
- E1069 HEICO
- E7123 HEIDENHAIN K.K.
- E1006 Heiwa Technica Co., Ltd.
- W4017 HENAN BELLO NEW MATERIAL CO., LTD
- W3010 Henan CA-Diamond Material Co.,LTD.
- W3077 Henan E-Grind Abrasives Co Ltd
- W3052 Henan Lerui Powerise Tools Co., Ltd.
- W4028* HENAN XINYUAN SUPERHARD MATERIAL CO LTD
- S3094 Henan Yuxing Carbon Material Co.,Ltd.
- W4083-16HER BERT ENTERPRISE CO., LTD.
- E7116 Hexagon Metrology K.K.
- W3023 HeYe Special Steel Co.,Ltd
- W3033 HG TECHNOLOGY CO., LTD.
- W3055 HICUT CO.,LTD.
- E2006* Hikari Trading Co.,LTD.
- E4034** HIPA Photoics Japan
- E7067 HIRAKOA HYPER TOOLS, INC.
- E1030 HIROCHIKU CO.,LTD.
- E7138 Hirox Co.,Ltd.
- W2014 Hishiko Corporation
- E2009** HI-TAK CO.,LTD
- W2051 HIWIN CORPORATION
- E7126 HME Co., Ltd.
- W1075** Hommel-Keller Präzisionswerkzeuge GmbH
- W1002 Honda Plus Co., Ltd.
- E1026 Honma Precision Metalworking Co.,Ltd.
- W3036 HONSBURG METALLSAEGER GMBH
- W2025* HORIKOSHI
- E1036 Horitec Co.,Ltd.
- E4049 HORKOS CORP
- W1065 HORN, Paul Horn GmbH
- W3090 HOSEA PRECISION CO., LTD.
- E5032* HOUGHTON JAPAN CO., LTD.
- E4043 HOWA MACHINERY,LTD.
- E1068 HSG LASER CO.,LTD.
- E5048 HTT Tiefbohrtechnik GmbH
- W3030 HUNAN BOYUN-DONGFANG POWDER METALLURGY CO.,LTD
- W4083-2 HWE DER MACHINERY AND HARDWARE PTY LTD.
- W4067 HYDAC CO.,LTD.

I

- W1066** IBAG Switzerland AG
- E2023 ibaraki grinding wheel
- W4036 ICHIGUCHI corporation
- W3111** icotek GmbH & Co.KG
- W4008 IDEC CORPORATION
- W4063 idemitsu kosan company ltd
- E7058 ifm effector co., ltd.
- E3005 igus k.k.
- WA002* IHI Bernex AG
- WA002 IHI Corporation
- WA002* IHI Hauser Techno Coating B.V.
- WA002* IHI Machinery and Furnace Co., Ltd.
- E4050 IKEGAI Corporation
- W4083-10IKEHARA CO., LTD.
- E1076 IKURASEIKI CO.,LTD.
- W3084 IL JIN TOOL TECH CO.,LTD
- W4009 ILJIN JAPAN Co.,Ltd
- E1085 IMAHASHI MFG. CO.,LTD
- W2002 IMAO CORPORATION
- E2008* IMM Maschinenbau GmbH
- E5007 IMPROBE Co., Ltd
- S3026 INCOM Company LTD.
- W3044 INCOS INC
- E2008* INDEX-Werke GmbH & Co. KG Hahn & Tescky
- W3041 IND-SPHINX PRECISION LTD. (Unit-B)
- S3028 industria Co.,Ltd.
- S3055 INNGRIT INC.
- W2065 INNOTECH CO.,LTD
- E7083 Innovalla Metrology
- W3045 INPLUS Co.,Ltd
- E5046 Integra Research Co. Ltd.,
- W4019 INTERNATIONAL DIAMOND INC.
- E1051 IRINOKIKO Co., Ltd.
- E1089* Irpd AG
- E7144 Isamu Paint Co., Ltd
- E5017 ISBE GmbH
- W1044 ISCAR JAPAN LTD.
- E2014 ISHII HYOKI Co.,LTD.
- E5032* ISHIKAWA Tool Grind Co.,Ltd.
- E1034 Itaca Japan Inc.
- E6006 ITOCHU MACHINE-TECHNOS CORP.
- E5018 ITOCHU Techno-Solutions Corporation
- E7082 itp Co., Ltd.
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 E7052 Masterlink
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 W3075 Meister Incorporated
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 S3107 Shenzhen Q-mao Precision Technology Co., Ltd.
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 W1019* SIGA MACHINE TOOL Co.,LTD
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 S3005 SofTool Manufacturing Co Ltd
 S3067 Sokeizai Promotion Council (Ministry of Economy, Trade and Industry)
 E7015 SOKUHANSHA CO.LTD
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 W4021 TACS CORPORATION
 E5030 TACTX Co.,Ltd.
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 S3047 TAI CHONG CO., LTD
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 E4003-9 Taiwan External Trade Development Council
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 E8003 TAIYO KOKI CO., LTD.
 E3011 Taiyo-Kouki Co.,Ltd.
 W1073 TAIYO-TOOL CO.,LTD.
 E6041 TAIYU CO.,LTD
 E6013 Taizhou Xiongfeng Machinery Co. ,Ltd.
 E7147 TAJIMA LIGHT METAL CO.,LTD
 E1048 TAKAHASHI MACHINERY CO., LTD.
 W3113* TAKAHASHI SEIKI Co., Ltd.
 WA013 TAKAHASHI TOOLS CO., LTD.
 W4023 TAKAKURA KOHGYO CO.,LTD.
 E6017 TAKAMATSU MACHINERY CO.,LTD.

E1040 Takashima Sangyo Co., Ltd.
 S3043 TAKAYAMA TRADING CO.,LTD
 E7053 TAKEBISHI CORPORATION
 E2029 TAKEDA MACHINE TOOLS CO., LTD.
 W2019 Takeuchi Precision Works Co.,Ltd.
 W3113* Takimoto Giken Industry Co., Ltd.
 E3013 Takisawa Machine Tool Co., Ltd.
 E7054 Takumi Engineering, inc.
 WA010 TAKURAKOGUSEISAKUSYO
 E5052** TALLERAS MYL S.A.U.
 E2016 TANIGAWA Co.,Ltd.
 S3108 TANISHI
 W3061 TANITEC CORPORATION
 W4083-12 TANKO ENTERPRISE CO., LTD.
 W1035 TANOI MFG.CO.,LTD.
 W3006 Tarfilm Hi-tech Co., Ltd.
 WA003 TATENO CO., LTD.
 W1011 tatsuno sawing dr.co.,Ltd.
 E1046** TBT Tiefbohrtechnik GmbH + Co
 S3083 Tebiki, Inc.
 WA009 TECH WAY ADVANCED MATERIALS CO.,LTD
 W2064 Tech.yasuda CO.Ltd
 W4080 Techno Dynamics Inc.
 E5044 TECHNQA,INC
 E4002 TechnoCoat Co., Ltd.
 E5050 Techtrage Co.Ltd
 E7114 TEOCLOCK CO.,LTD.
 W3028** TEC-SPIRAL ENTERPRISES TOOLS CO., LTD.
 W4047 TEIKEN Corporation
 W2066 TEIKOKU CHUCK CO., LTD.
 E6033 Telus Laser Co.,Ltd.
 W4020 TENRYU SAW MFG. CO., LTD.
 E4047 TERAL INC.
 S3071 TE-SHIN Precision Technology CO., LTD.
 S3097 TEZMAKSAN ROBOT VE OTOMASYON TEKNOLOJILERI SAN. TIC A.S
 E7076 THANKO,inc
 E7032 THE CREO CO.,LTD
 S3059 THE KANKISANGYO SHIMBUNSHA
 W3067 THE KIICHI TOOLS CO.,LTD
 S3044 THE NIKKANKOGYOYOSHIMBUN,LTD
 E3002 The SHODA Company
 W4083-1 THETA PRECISION CO., LTD.
 W2017 THK CO., LTD.
 W1054* three B
 E7070 Three R Solution Corp.Japan
 E4003-8 TIAN FENG HYDRAULIC CO., LTD.
 W3106* TIANGONG OSTTE (SHENZHEN) INDUSTRIAL TECHNOLOGY CO.,LTD
 S3070 Tien Ding Industrial Co., LTD
 S3004 TIM GROWING BEARING (ZHEJIANG) CO LTD
 W4046 Tipton Corp.
 S3035 TJR Precision Technology Co., Ltd
 E3042-4* TMW CO.,LTD
 E2036 TMW CO.,LTD.
 W3063 TnC SHARK Co.,LTD
 E7013** TOA PRECISION MACHINERY CO., LTD.
 E7043 TOCHO MARKING SYSTEMS ,INC
 WA028 TODASEIKI CO., LTD.
 E1043 Tohshin Technical Co.,Ltd.
 S3088 Tokai Spring Industries, Inc.
 W1069* TOKALOKY CO.,LTD
 W1069 Tokaloy TGK Co.,Ltd.
 W1040 TOKO CO.,LTD.
 W3024 TOKYO AUTOMACH CO.,LTD.
 E7010 TOKYO BOEKI TECHNO-SYSTEM LTD.
 E4010 Tokyo Engineering Co., Ltd.
 S3105 Tokyo Hatsujyo Manufacturing co.,Ltd
 E3042* TOKYO KIKAI SEISAKUSHO, LTD.
 W4053* Tokyo Olanalyst Co.,Ltd
 E2012 TOKYO SEIKI KOSAKUSHO
 E7027 TOKYO SEIMITSU CO., LTD
 E1060 Tokyo seimitu hatujyo Co.,Ltd
 E1086 TOKYO TAPPING MACHINE CO.,LTD.
 W3114 Tokyo Technical Instruments Inc.
 W2042 Tomita Co.Ltd
 E4003-4 Tongtai Machine & Tool Co., Ltd.
 W1081 TOOL de INTERNATIONAL CO.,LTD.
 W1034** Tool Discovery Co., Ltd
 E7044 Tornex Inc.
 WA017 TOWA Corporation
 E3030 Toyo Advanced Technologies Co.,Ltd.
 W1080 TOYO CO.,Ltd (Nagano)
 E2005 TOYO CORPORATION
 E7124 TOYO Corporation
 W1066** TOYO IRON
 E1008 TOYO KENMAZAI KOGYO LTD.
 S3016 TOYO SCREEN KOGYO CO., LTD.
 E4004 TOYO SEIKI KOGYO CO.,LTD.
 W3021 TOYOX CO.,LTD.
 E7018 TPR OSAKA SEIMITSU KIKAI CO., LTD.
 E5032 TRANSOR FILTER JAPAN CO., LTD.
 E5012* TRI ENGINEERING COMPANY LIMITED
 W1034* TRI ENGINEERING COMPANY LIMITED
 WA027 Trio Inc.
 E7122 Trioptics Japan Co.,Ltd.
 W4053 Triple R Co., Ltd.
 E1038 TRUMPF CORPORATION
 S3066 Tsubakimoto Mayfran Inc
 W2033 TSUDAKOMA Corp.
 E6018 TSUGAMI CORPORATION
 E7034 TSUKUBA ENGINEERING LTD.
 E2020 TSUNE SEIKI Co.,Ltd.
 W1021 Tungaloy Corporation
 W3075* TWOPLA GIKEN Co.,Ltd

U

E2036* UEL
 E6036 UJIDEN CHEMICAL INDUSTRY CO.,LTD.
 E7128 umati (c/o VDW-Forschungsinstitut e.V.)
 W3095* UNIMAGTECH KK.
 W3032 UNION MATERIALS CORP.
 W1015 UNION TOOL CO.
 E7108 UNIPULSE CORPORATION
 E1089 United Grinding Group Management AG
 E7056 Universal Robots

E2008* USACH
 W1001 UTSUNOMIYA SEISAKUSHO CO.,LTD.
 W1034** UYAR GmbH & Co. KG

V

E5052** Vandurit GmbH
 E7023 Vectrix Corporation
 W4083-7 VERNAL MANUFACTURING & ENGINEERING CO., LTD.
 E5029 Vero Software KK
 S3056 VERTEX MACHINERY WORKS CO., LTD
 W3031 VESSEL CO., INC.
 E3042-7* VIZEST Co.,Ltd.
 E2013 Vollmer Japan Corp.
 E7024 Volume Graphics Co., Ltd.
 E5012* Volumetric Accuracy Research Institute Co., Ltd.
 E7026* Volumetric Accuracy Research Institute Co., Ltd.
 E6035** VoluMill by MoudeWorks & VoluTurn by ModuleWorks

W

E3003** Wagner Tooling Systems Baublies GmbH
 E2018 WAIDA MFG. CO., LTD.
 E2018* WAIDA PRECISION MACHINERY CO., LTD.
 W4054 WALRUS PUMP Co., Ltd.
 E1089* Walter Maschinenbau GmbH
 W4064* Wanner Engineering, Inc.
 E7002 Watanabe Seimitsu Industries, Ltd.
 E4005 Weihai Huadong Automation Co.,Ltd
 E2028 WEISS MACHINERY CO LTD
 E3003** Werth Messtechnik GmbH
 W4026** WESTERN JAPAN TRADING CO., LTD.
 E6002 WFL Millturn Technologies GmbH & Co. KG
 WA006 WIDIN CO,LTD
 E1013 WIKUS-Sägenfabrik, Wilh. H. Kullmann GmbH & Co KG
 W3095 WILHELM KOENIG MTM
 E1088* WILLEMEN-MACODEL SA
 W4083-4 WINSON MACHINERY CO., LTD.
 E7145 WINTECH
 E7025 Wintech Automation Co., Ltd.
 E4013 WINTECH CO.,LTD.
 E5003 WinTool AG
 E1010 Wuhan Heavy Duty Machine Tool Group Corporation
 E1029 WUHAN NEWWISH TECHNOLOGY CO.,LTD
 E2017 Wuhan Raycus Fiber Laser Technologies Co Ltd
 E3012 Wuxi Qingyuan Laser Technology Co Ltd
 E2008* WYLER AG

X

WA007 XEBEC TECHNOLOGY CO.,LTD.
 S3006 Xi an Dong Long Precision Tools Co Ltd
 W4011 Xiamen Chiaping Diamond Industrial Co., LTD.
 W3043 XIAMEN HJ CARBIDE TECHNOLOGY CO LTD
 S3008 XUANCHENG TENO AUTOMATIC EQUIPMENT CO.,LTD

Y

W2039 Yamada Machine Tool Co.,Ltd.
 W3113* YAMADA SEISAKUSYO CO., LTD.
 E7129 YAMAGUCHI SANGYO CO., LTD.
 E7019 YAMAMOTO SCIENTIFIC TOOL LABORATORY CO., LTD.
 E6011 YAMASAKI GIKEN Co.,Ltd.
 E4045* Yamashita works
 W1074 YAMAWA MFG.CO.,Ltd.
 E5037 YAMAZAKI CO.,LTD.
 E5001 YAMAZAKI MAZAK CORPORATION
 E6038 YAMAZEN CORPORATION
 W4045 Yanase
 E4035 YANGZHOU DEVELOPPING IMP&EXP CO.,LTD
 W1053 YANO METALS CO.,LTD.
 E5013 YASDA PRECISION TOOLS K.K.
 E3042* YEONG CHIN MACHINERY INDUSTRIES CO., LTD.
 W1075* YESTOOL CO.,Ltd
 W3105 YEU LIAN ELECTRONICS CO., LTD.
 W1004 YG-1 JAPAN Co., Ltd.
 W4083-13 YIH TROUN ENTERPRISE CO., LTD.
 E2008 YKT CORPORATION
 W3104 YODOGAWA ELECTRIC TOOL MFG CO.,LTD
 E3042 YONEZAWA KOKI CO., LTD.
 E4003-7 YONG JU PRECISION TECHNOLOGY CO., LTD.
 E1053 YOSHIKAWA IRON WORKS CO.,LTD.
 E5023 Yoshikawa MAPLE Co.Ltd
 W3064 YU WEI INDUSTRIAL CO., LTD
 E7093 YUAN JUN FONG CASTING CO., LTD
 E6039 Yuan Jun industry
 W3107 Yuan Yi Chang (YYC) Machinery Co., Ltd.
 W2053 YUKIWA SEIKO INC.
 W4034 Yuku Corporation
 E1005 YUSHIRO CHEMICAL INDUSTRY CO.,LTD

Z

W3018 ZHEJIANG GEM-CHUN PRECISION INDUSTRY CO., LTD.
 E6004 Zhejiang IVKE Machinery & Technology Co.,Ltd.
 E4042 ZHEJIANG MEIRI INTELLIGENT MACHINERY CO LTD
 S3025 ZHEJIANG SAN OU MACHINERY LIMITED COMPANY
 W3011 ZHEJIANG SHANGYOU TOOLS CO LTD
 E5039 Zhejiang Taixing Intelligent Equipment Co.,Ltd
 E2011 Zhejiang Xinxing Tools Co., LTD.
 W3012 ZHEJIANG YOUNIO TOOLS CO LTD
 W3005 Zhejiang Zhiguang Precision Tools Co.,Ltd.
 W3029 ZHENGZHOU DIAMOND PRECISION MANUFACTURING CO.,LTD.
 W3028 Zhengzhou Sino-Crystal Diamond Co Ltd
 W3038 ZHENGZHOU ZHONGNAN JETE SUPERABRASIVES CO., LTD.
 W3087 ZHENGZHOU ZZDM SUPERABRASIVES CO.,LTD
 W4012 Zhongye Superhard Material Co., Ltd.
 W3070 Zhuzhou Cemented Carbide Works Imp. & Exp. Co.
 W3071 Zhuzhou Huarui Precision Cutting Tools Co Ltd
 W3039 Zhuzhou Kerno Advanced Materials Co.,Ltd.
 W3013 Zhuzhou Kunrui Carbide Co.,Ltd
 W3109* Zhuzhou Sant Cutting Tools Co., Ltd.
 S3068 ZIPPERTUBING(JAPAN), LTD.
 E2041 ZOLLER Japan K.K.
 W3034 ZUOREN CUTTING TOOLS (SHANGHAI) CO LTD

Additive Manufacturing Area in JIMTOF2024

AM117 3D Systems Japan
 AM153 3DEO

A

AM151-1 Additive Industries
 AM123 Aichi Sangyo Co., LTD.
 AM140 APPLE TREE Co., Ltd.

B

AM103* BEIJING JINGDIAO GROUP CO., LTD.
 AM142 bestat Inc
 AM103* bestat Inc
 AM114 Brule Inc.

C

AM104 CASTEM CO.,LTD.
 AM106 CHITA MFG CO.,LTD
 AM131 CKB Corporation
 AM151-4 Continuum Powders
 AM147 CT CoreTechnologie Asia Co., Ltd.

D

AM136 Daido Steel Co., Ltd.
 AM103* DAISEN SANGYO CO.,LTD.
 AM103* DELTA ELECTRONICS (JAPAN), INC.
 AM126 DMGMORI CO.,LTD.
 AM149 Dmm.com, LLC.
 AM121 DOHO Corporation

F

AM103* framag Industrieanlagenbau GmbH
 AM111* Fuji Koushuha Industry Co.,Ltd.
 AM109 Fusion Technology Co., Ltd.

H

AM145 haraseisakusyo.,co.ltd
 AM146 HDC Co. Ltd.
 AM137 Hōganās Japan K.K.
 AM103* HOUGHTON JAPAN CO., LTD.
 AM139 HTL Co. Japan Ltd.

I

AM103** IAI CORPORATION
 AM103* INNOTECH Co.,Ltd.
 AM103* INNOVATEST
 AM116 IWAMA Co., Ltd.

J

AM105 JAPAN 3D PRINTER Co.,Ltd
 AM124 Japan 3D Printing Industrial Technology Association
 AM103* Japan Fluid System Co., Ltd.
 AM128 Japanese Society of Additive Manufacturing
 AM111 JBM Engineering Corporation
 AM103* JBS System GmbH
 AM113 JEOL Ltd.

K

AM118 Kanazawa University, Human Machine Innovation Laboratory
 AM103* KANEMATSU ELECTRONICS LTD.
 AM103 Kanematsu KGK Corp.
 AM101 KEYENCE CORPORATION
 AM135 KEYENCE CORPORATION
 AM103* KOCEL JAPAN Co.,Ltd.
 AM107 Kurimoto Co., Ltd.

L

AM151-3 Lumafield

M

AM103* MAEDA SHELL SERVICE CO.,LTD
 AM110 Marubeni Information Systems.co.,Ltd
 AM103* Marubishi Seisakujo Co., Ltd
 AM115 Matsuura Machinery Corporation
 AM130 Matsuzawa Machinery Corporation
 S2002 Mitsubishi Electric Corporation
 AM103* MST Corporation

N

AM132 NIDEC MACHINE TOOL CORPORATION
 AM103* Nihonseiki Co., LTD
 AM103* Nikuni Co.,Ltd.
 AM138 nippon light metal co., ltd.
 AM148 Noga Waters Ltd.

O

AM103* OGSU CO.,LTD
 AM134 OPEN MIND Technologies Japan K.K.

P

AM151-2 PanOptimization LLC
 AM103* PATLITE Corporation

Q

AM143 Q-ho Metal Works

S

AM127 SAKURAI LTD.
 AM108 SEA FORCE CO.
 AM150 ShareLab
 AM103* SHIMADA Machine tool Drives Co., Ltd
 AM106* SHOHO IRONWORKS CO.,LTD.
 AM144 SK Additive Innovation Co., Ltd.
 AM133 SK Fine Co.,Ltd.
 AM103* SOGYO Co., Ltd.
 AM119 SUGINO MACHINE LIMITED

T

AM112 TAIYO NIPPON SAN SO CORPORATION
 AM152 Technology Research Association for Future Additive Manufacturing
 AM122 TKE Co.,Ltd.
 AM106* TOKAI KYOHAN CO.,LTD.
 AM103* TOKAI SOFT CO., LTD.
 AM125 Tokoshie Inc.
 AM102 Tokyo Metropolitan Industrial Technology Research Institute
 AM141 Tokyo Metropolitan Small and Medium Enterprise Support Center

V

AM129 Value Finder Co.,Ltd.

W

AM103* Watachukikai Corp.
 AM103* Wilhelm Blessing GmbH & Co. KG

Y

AM120 Yamaichi Precision Tools (Anhui) Co.,Ltd.
 AM103* YAMAMOTO METAL TECHNOS CO., LTD.

(*) Co-Exhibitor (**) Represented Company alphabetical order

Our Latest CNC, Servo System and Digital Twin

Brand new CNC that fulfills new market demands

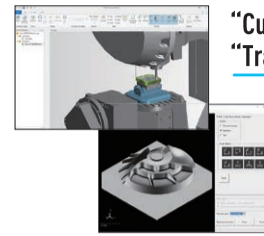


FANUC Series 500i-A

New generation servo system with higher speed, higher precision and enhanced energy efficiency



α i-D series SERVO



FANUC Smart Digital Twin

"Cut with Confidence"
"Transform the Workflow"

Labor Shortage Problems Solved with FANUC Robots!



THE ROBOT AWARD
第11回ロボット大賞
Winner of the 11th Robot Award of the Ministry of Economy, Trade and Industry Minister's Award

High rigidity robot capable of full-scale high accuracy machining

Latest large size robot with high payload and long reach

Easy to use collaborative robots - even for first time users

World's first explosion-proof collaborative robot



CRX-5iA CRX-10iA CRX-20iA/L CRX-30iA CRX-10iA/L Paint



CR/50F-16B



M-800/60-20B



R-2000/270F-27C



M-1000/550F-46A

Robot controllers that offer cyber security

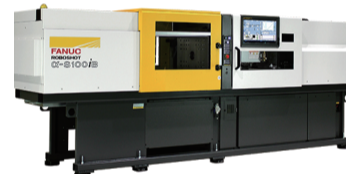


R-50iA Mate

Robomachines that Contribute to Improvements in Automation and Productivity



ROBODRILL α-DiB Plus series



ROBOSHOT α-SiB series



ROBOCUT α-CiC series

IoT Analyzes Factory Data, Paving the Way for Improvements



FIELD system Basic Package

By collecting, analyzing and using the data in factories, problems and their solutions are identified, enhancing productivity.

FANUC's Service for "Non-Stop Production"



Conforming to the spirit of "Service First," FANUC provides lifetime maintenance of its products for as long as they are used by customers, through more than 270 service locations supporting more than 100 countries throughout the world.



Assists achieving a high operating rate for customers around the world.

Introducing Innovation and Reassurance to Manufacturing Sites Worldwide

FANUC strives to create a factory that never stops

FANUC

Service First



Reliable
Predictable
Easy to Repair



Place: Tokyo Big Sight
South Exhibition Hall 2, No. S2001

Details on JIMTOF2024 official website:



Inquiries on FANUC products:



East
東

East Hall 1・2・3

■ Metal cutting machine tools / Metal forming machine tools / Other associated machinery and equipment

East Hall 3

East Hall 2



JIMTOF FOOD FESTIVAL



MAXIMUM PRODUCTIVITY FOR QUIET GEARS
SOLUTIONS FOR TOMORROW'S DRIVE TECHNOLOGY

KLINGELBERG

Highlights at the JIMTOF2024

Visit us: JIMTOF 2024 Booth E1081

WWW.KLINGELBERG.COM

Organizer: **TMBA**

TMTS 2026

Taiwan International Machine Tool Show
台湾國際工作機械展

Mar. 3 - 7, 2026

台北南港展覽館

展出物
金屬切削工作機械、金屬成形工作機械/アクセサリ、コンポーネント、付属品、流体動力及び周辺機器/切削工具、工具保持具、工作物保持具、測定機器、試験機器/スマートマニュファクチャリングシステム、産業用ロボット、制御装置および関連ソフトウェア (CAD、CAM 等)/その他工作機械関連装置・素材・技術及び出版物

www.tmts.tw

East 東 East Hall 4・5・6



ツガミ は 継承技術と革新技術を融合し
明日をリードする工作機械を提供いたします

JIMTOF 2024
2024年11月5日(木)→11月10日(水)
東6ホール E6018

NEW
CNC精密自動旋盤 B0205-VR
豊富な実績を持つベストセラーシリーズB0205に更なる改良を加え、加工能力を向上

株式会社 **ツガミ**

本社 〒103-0006 <https://www.tsugami.co.jp>
東京都中央区日本橋富沢町12番20号
TEL: 03-3808-1711 FAX: 03-3808-1511

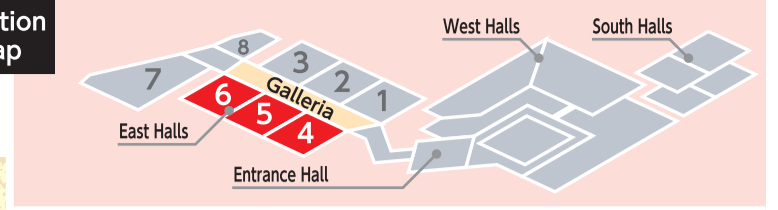
Howa
豊和工業株式会社

小間
番号 **E4043**

東4ホール (East 4Hall)

No Photography in halls
 No Smoking on site

Location Map



Galleria (1F)



East Hall 4

TAIWAN SMART MANUFACTURING

未来へ受け継ぐ 台湾のモノづくり

イベント連日開催!
 ~台湾の“おもてなし”をあなたに~

東4ホール (East4Hall)
 E4003-9

International Trade Administration | Taiwan External Trade Development Council | PMC | Ad by HDA

JIMTOF 2024

East 4 Hall
 E4011

FX ULTRA
 PREMIUM PERFORMANCE CUTTING TOOLS

ANCA Machine Tools Japan

50 ANCA YEARS OF INNOVATION

JIMTOF FOOD FESTIVAL East 東

Food festival will be held outside the East Exhibition Hall and in the East Hall 7. A wide variety of dishes will be provided throughout the venue.
 Open 10:00 - 18:00 (Last day until 14:00)

JIMTOF FOOD FESTIVAL Japanese Local Gourmet West 西

At the "JIMTOF Food Festival" on the west rooftop exhibition area, local gourmet food from all over Japan will gather.
 Please enjoy it.
 Open 9:00 - 17:00 (Last day until 14:00)

JIMTOF Café South 南

There is a cafe corner in the South Hall 2. Drinks and snacks will be provided. Available before fair opening hours.
 Open 8:30 - 17:00 (Last day until 14:00)




YKT 100th ANNIVERSARY **ogop**

マルチセンサ三次元測定機の
 ベストセラーモデル
 「オージーピー スマートスコープ」

今年は東2ホールに出展します

小間番号 **東2ホール E2008**
 東2ホール入口直進つきあたり

初公開機2台を含む
 計7機種を実機展示予定!



コマツNTC株式会社 東5ホール E5012

未来創造 *Integrated Technologies*

立形大型加工機 **KV420L** 横形5軸マシニングセンタ **CX500**

■ギガキャスティングワーク加工対応 ■高精度・安心・フレンドリー・システムアップ



営業本部本社営業部 TEL 0763-22-1391 コマツ NTC 株式会社

西2ホール (West 2 Hall) W2042

- ドイツ 高速5軸門形マシニングセンタ
- ドイツ AR (拡張現実) 品質検査ソフト
- ドイツ 世界初 揺動ジェットノズル
- レーザーユニット搭載 NCフライス盤
- 高速外観検査装置



株式会社 ト三菱

東5ホール(East 5Hall)E5010

PALMARY

PALMARY

- . Centerless Grinder
- . Cylindrical Grinder
- . Internal Grinder
- . Vertical Grinder



Gear Cutting Machines Gear Measuring Device

East Hall 4 - Booth: E4040
 www.liebherr.com

LIEBHERR

Gear technology



振動・レベル・圧力・温度・流量・RFID etc. ノーコード IIoT プラットフォーム

センサラインナップ + **moneo**

装置状態の見える化!!



東7ホール **E7058** **ifm efactor 株式会社**



West Hall 1-2

Tools for machine
(Cutting tools & wear-resistant tools) /
Machine tool accessories



JIMTOF2024
Now conducting visitor survey

JIMTOF original friction is being distributed to those who answered !

Period : Nov. 5, 2024 at 9:00 to
Nov. 10, 2024 at 16:00

※ First 1,500 people. The number is limited. Please be aware in advance.

※ Please take a screenshot of the completion page and go to the questionnaire station in the entrance hall on the 2nd floor of the conference tower.

西1ホール **W1041**

SUMITOMO
CARBIDE - CBN - DIAMOND
Global Support, Global Solutions.

住友電気工業株式会社

Boost Master
for Multi-task Lathes

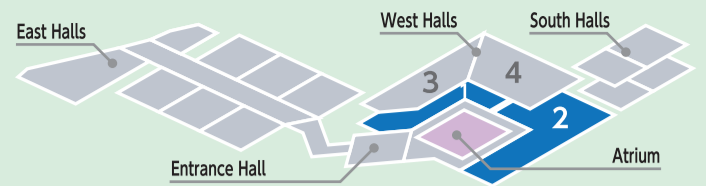
Ideal for dealing with chips on multi-task lathes! **NEW**

Coolant pressure is boosted to **Max 15MPa** and discharged to prevent chips from wrapping around the workpiece!

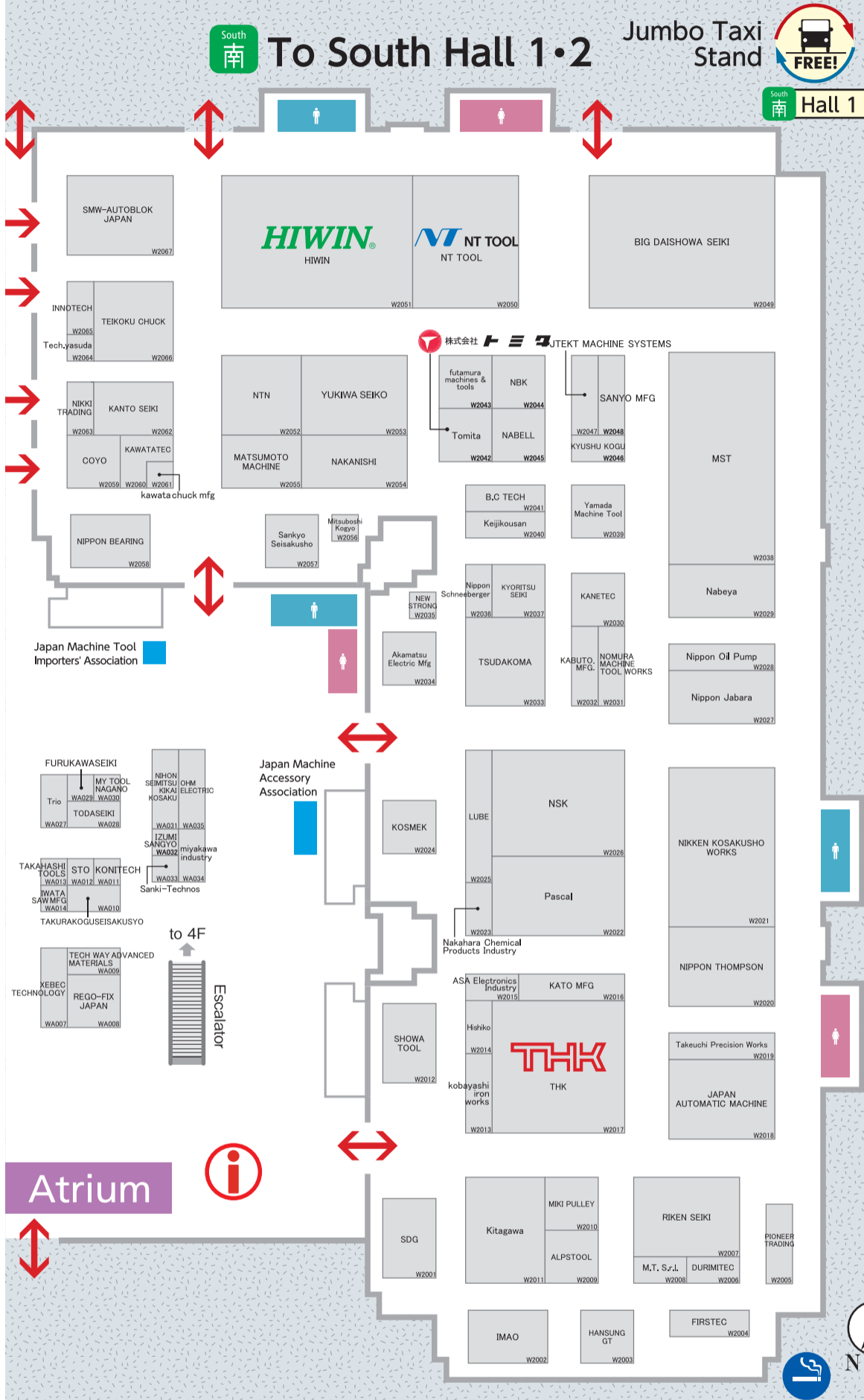
BMAL

NT TOOL CORPORATION **JIMTOF2024**
WEB www.nttool.com TEL 0120-04-0102
E-Mail technomail@nttool.co.jp **WEST 2Hall W2050**

Location Map



West Hall 2



Attractions

JIMTOF INSIGHTS

YouTube channel empowering Japanese craftsmanship!

Covering a wide range of themes with a focus on the machine tools industry. Video contents share the appeal of production!

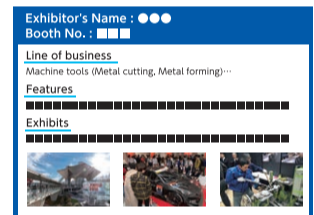


YouTube channel JIMTOF INSIGHTS

Online Catalog

For information collection before and after

A lot of information is available about the highlights of each exhibitor and their latest products. You can search for products and exhibitors by keyword or exhibits category.



https://www.jimtof.org/en/exhi_search_pronoun

Online Channel

Limited-time recommendation video: Don't miss it!

Exhibitors provide webinars and product introduction videos. Anyone can watch these videos on the JIMTOF official website even without registration.



Available from Oct. 1 (Tue.) to Nov. 29 (Fri.)

OSG GREEN TAP

High Performance & Low-carbon Forming Tap GRT

Please stop by our booth and see firsthand why this tap is making waves in the industry!

JIMTOF 2024 WEST HALL 1 W1020

OSG Corporation

www.osg.co.jp

NEW

HIWIN 25

西2ホール W2051

WE'RE STEPPING UP!

Eco Solutions for Green

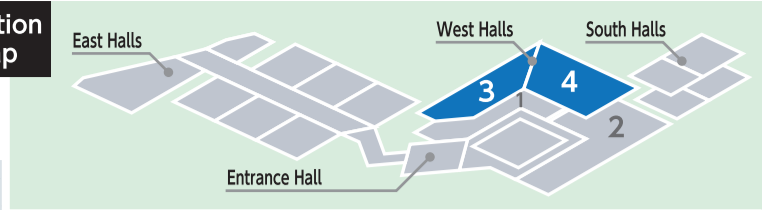
持続可能なものづくりを支援

出展詳細

West
西

West Hall 3・4

Location
Map



- Tools for machines (Cutting tools & Wear-resistant tools) / Machine tool accessories
- Gear and Gear devices / Oil hydraulic, Water hydraulic and pneumatic machinery / Grinding wheels and abrasives / Diamond, CBN tools
- Other associated machinery and equipment



Jumbo Taxi Stand
West & South Halls
4F Rooftop

West Hall 4

West Hall 3

Taiwan External Trade Development Council
TAIWAN EXTERNAL TRADE DEVELOPMENT COUNCIL (TAITRA)

W4083-1 THETA PRECISION	W4083-2 WHE DER MACHINERY AND HARDWARE	W4083-3 SHIN-YAN INDUSTRIAL	W4083-4 WINSON MACHINERY	W4083-5 DI KU DIAMOND ENTERPRISES	W4083-6 CHENG FENG CASTING FACTORY	W4083-7 VERNAL MANUFACTURING & ENGINEERING	W4083-8 CHAIN HEADWAY	W4083-9 SAFEWAY MACHINERY INDUSTRY	W4083-10 KEHADA	W4083-11 ECHAMTOL PRECISION	W4083-12 TANKO ENTERPRISE	W4083-13 YH TROUTON ENTERPRISE	W4083-14 Derstrong Enterprise	W4083-15 SANJET INTERNATIONAL	W4083-16 HERBERT ENTERPRISE	W4083-17 SUPER AIR COMPRESSOR TECHNOLOGY	W4083-18 TAITRA																					
W3111 Marubeni Ele-Next	W3110 NISSEI	W3099 JINAN XINLEI PRECISION MACHINERY	W3098 KOWA EMTECH	W3097 JETON R/D & MFG	W3094 AUTOCAM TECHNOLOGY	W3100 KEYARROW (TAIWAN)	W3101 DTR	W3102 KAMO SEIKO	W3103 detron Precision NC Motor Tools	W3104 HOSEA PRECISION	W3114 Tokyo Technical Instruments	W3115 German Tech Precision Manufacturing	W3106 YUAN YI CHANG KYOUJIKU GEAR MFG	W3107 JIANGSU SWIFT MACHINERY TECHNOLOGY	W3108 SHANGHAI SHENNING PRECISION MACHINERY	W3109 YU LIAN ELECTRONICS	W4060 NIKUNI	W4036 ICHIGUCHI	W4020 TERRYU SAW MFG	W4019 INTERNATIONAL DIAMOND	W4022 GLOBAL DIAMOND	W4021 ARAI SHOKAI																
W3084 CHINA TAIZHOU SHAOSHI TOOLS	W3082 RI HSIUNG PRECISION TECH	W3089 JIANGSU SWIFT MACHINERY	W3088 ACCU-CUT INDUSTRIAL	W3087 SHERVING WERNST SAW INDUSTRIAL	W3086 DKSH Market Expansion Services	W3085 TANITEC	W3084 RESMO TOOL	W3083 GARZHOU GRANDSEA CEMENTED CARBIDE	W3082 SPEED TIGER PRECISION TECHNOLOGY	W3081 ZHENGZHOU ZHONGNAN JETE SUPERABRASIVES	W3080 HENCHEN YUBAO DIAMOND TOOLS	W3079 HONSEBERG METALLBAUEN	W3078 SUGATSUME KOGYO	W3077 CARMEX PRECISION TOOLS	W3076 TOYOX	W3075 HONSEBERG METALLBAUEN	W3074 SAKURAKAWA DIA	W3073 CHAMPDIA	W3072 HONSEBERG METALLBAUEN	W3071 MEISTER	W3070 HONSEBERG METALLBAUEN	W3069 HONSEBERG METALLBAUEN	W3068 HONSEBERG METALLBAUEN	W3067 HONSEBERG METALLBAUEN	W3066 HONSEBERG METALLBAUEN	W3065 HONSEBERG METALLBAUEN	W3064 HONSEBERG METALLBAUEN	W3063 HONSEBERG METALLBAUEN	W3062 HONSEBERG METALLBAUEN	W3061 HONSEBERG METALLBAUEN	W3060 HONSEBERG METALLBAUEN							
W3059 JETON	W3058 SUGATSUME KOGYO	W3057 SPEED TIGER PRECISION TECHNOLOGY	W3056 ZHENGZHOU ZHONGNAN JETE SUPERABRASIVES	W3055 HENCHEN YUBAO DIAMOND TOOLS	W3054 HONSEBERG METALLBAUEN	W3053 SUGATSUME KOGYO	W3052 CARMEX PRECISION TOOLS	W3051 TOYOX	W3050 HONSEBERG METALLBAUEN	W3049 HONSEBERG METALLBAUEN	W3048 HONSEBERG METALLBAUEN	W3047 HONSEBERG METALLBAUEN	W3046 HONSEBERG METALLBAUEN	W3045 HONSEBERG METALLBAUEN	W3044 HONSEBERG METALLBAUEN	W3043 HONSEBERG METALLBAUEN	W3042 HONSEBERG METALLBAUEN	W3041 HONSEBERG METALLBAUEN	W3040 HONSEBERG METALLBAUEN	W3039 HONSEBERG METALLBAUEN	W3038 HONSEBERG METALLBAUEN	W3037 HONSEBERG METALLBAUEN	W3036 HONSEBERG METALLBAUEN	W3035 HONSEBERG METALLBAUEN	W3034 HONSEBERG METALLBAUEN	W3033 HONSEBERG METALLBAUEN	W3032 HONSEBERG METALLBAUEN	W3031 HONSEBERG METALLBAUEN	W3030 HONSEBERG METALLBAUEN	W3029 HONSEBERG METALLBAUEN	W3028 HONSEBERG METALLBAUEN	W3027 HONSEBERG METALLBAUEN	W3026 HONSEBERG METALLBAUEN	W3025 HONSEBERG METALLBAUEN	W3024 HONSEBERG METALLBAUEN	W3023 HONSEBERG METALLBAUEN	W3022 HONSEBERG METALLBAUEN	W3021 HONSEBERG METALLBAUEN

To South Hall 3・4

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South 南 **South Hall 4**

Releases multi-angled information that will be instantly useful for job-hunting in the machine tool and manufacturing industries! Enjoy talks by industry leaders and YouTubers, experience manufacturing and many other types of content, as well as free drinks and food! If you are a student, go to the South Hall 4 now!!



IMEC2024 (The 20th International Machine Tool Engineers' Conference) Poster Session

"Poster session" is held in the South Hall 4 to present the results of research related to machine tools by universities and research institutes in Japan and overseas by poster format.

November 5 (Tue.) ~ November 10 (Sun.) *Personnel who give explanations from participating organizations are scheduled to be present from 9:00 to 12:00 on November 7 (Thu.) and 8 (Fri.) 9 (Sat.)

List of Participating Research / Themes

A Machine tool and elements

- A-01** Precision Engineering Research Group, Sophia University
Friction reduction by microtextures with different area ratios on metal sliding surfaces
- A-02** Yamada and Uchida Lab., College of Science & Technology, Nihon University
Effect of Workpiece Support Stiffness on Machining Accuracy in Cylindrical Grinding
- A-03** Adachi Lab., Dept. of Mechanical Engineering, Chubu University
Systematic Research on Spindle Technology for Internal Grinding of Large-diameter Deep-hole Grinding
- A-04** Sasahara Lab., Tokyo University of Agriculture and Technology
In process monitoring of machining operations
- A-05** Manufacturing Lab., Dept. of Mechanical Engineering, The University of Tokyo
Thermal error compensation using large-scale temperature data
- A-06** Tanabe Lab., Technical and Management Engineering, Sanjo City University
Development of a new FEM thermal deformation simulation technique for machine tools with enclosures and its application examples
- A-07** Nakao Laboratory, Dept. of Mechanical Engineering, Kanagawa University
Prediction of thermally induced axial displacement of servomotor using machine learning technique

B Machining technology and machining phenomena

- B-01** Machine Tool Engineering Laboratory Endowed by OKUMA, Graduate School of Engineering, Nagoya University
Bead Shape Stabilization in Powder DED Considering Scanning Speed Fluctuations
- B-02** Advanced Manufacturing Technology Institute (AMTI), Kanazawa University
Laser scan strategy for microtubule building with PBF-LB/M
- B-03** Nontraditional Machining Lab., Graduate School of Environmental, Life, Natural Science and Technology, Okayama University
Surface Smoothing of Additively Manufactured Metal Products by Electron Beam Polishing
- B-04** Manufacturing and Machine tool Lab., Graduate School of Science and Engineering, Saitama University
Material property control by directed energy deposition
- B-05** Nagamatsu Lab., Dept. of Mechanical and Intelligent Systems Engineering, The University of Electro-Communications
Sasahara Lab., Dept. of Mechanical Systems Engineering, Tokyo University of Agriculture and Technology
Similar and Dissimilar Light Metal Depositions by Additive Manufacturing
- B-06** Kakinuma Lab., Dept. of System Design Eng., Faculty of Science and Technology, Keio University
Thermal analysis of metal additive manufacturing and the application to coating technology
- B-07** Ryo Koike Lab., Faculty of Science and Technology, Keio University
Development of high-speed coating with directed energy deposition
- B-08** Shinozuka Lab., Div. of Systems Research, Yokohama National University
Simultaneous estimation of various kinds of tool wear from image of the chip back surface temperature by employing AI
- B-09** Manufacturing Process Lab., Mechanical Engineering, Tokyo Denki University
Chip flow control in machining of holes with cutting simulation
- B-10** Functional Surface Fabrication Lab., Dept. of Mechanical Engineering, Tokyo Denki University
Drilling of carbon fiber reinforced PEEK resin matrix composite material
- B-11** Gotoh Lab., Dept. of Industrial Information Faculty of Industrial Technology, Tsukuba University of Technology
Grinding-Assisted Electrical Discharge Machining of CFRP
- B-12** Machining Lab., Dept. of Mechanical Engineering, Meiji University
Study on machining efficiency of dry EDM of CFRP

B-13 Tomohisa Tanaka Lab., Dept. of Mechanical Engineering, Tokyo Institute of Technology

- Development of a ball burnishing processing system applicable to curved thin plates
- B-14** Ninomiya Lab., Dept. of mechanical engineering, Nippon Institute of Technology
Development of conductive PCD rotary tools for use as discharge electrodes and grinding wheels
- B-15** Okayama University, Faculty of Environmental, Life, Natural Science and Technology
Development of ball end mill tool life determination system using gradient boosting method
- B-16** Production Technology Lab., Dept. of Mechanical Engineering, Setsunan University
Study on ball end milling of cemented carbide
- B-17** Mizutani and Kuji Lab., Research Center for Green X-Tech, Green Goals Initiative, Tohoku University
Development of Innovative Machining Method by Microstructure Control of Amorphous Alloys
- B-18** Chiba Advanced Technology & Science Lab., Chiba University
Study on crack propagation behavior and fracture surface morphology during wheel scribing of glass sheet
- B-19** Precision machining and mechanism Lab., Nagaoka University of Technology
Development of special processing technology for generating functional surface and material
- B-20** Enomoto-Sugihara Lab., Dept. of Mechanical Engineering, Osaka University
Exploring the role of the interface adhesion phenomena focusing on surface expansion distribution
- B-21** Mechanics of Materials Lab., Dept. of Mechanical Systems Engineering, The University of Shiga Prefecture
Laser hardening and laser correction of deformation for thin steel plate
- B-22** Ishida-Mizobuchi Lab., Tokushima University
Development of 3R grinding wheel using only polyvinyl alcohol bonding agent to zero emission of grinding wheel scraps

C Systems and control technology

- C-01** Morishige Lab., Dept. of Mechanical and Intelligent Systems Engineering, The University of Electro-Communications
Configuration Space-Based Tool Path Generation for 5-Axis Controlled Machining with Variant Shape Tools
- C-02** Advanced manufacturing systems Lab. Kobe University
Automated tool path generation with modification of workpiece deformation due to vice clamping
- C-03** Nakamoto Lab., Dept. of Mechanical Systems Engineering, Tokyo University of Agriculture and Technology
Automatic Process Planning toward DX in Machining Based on Product Manufacturing Information
- C-04** Manufacturing and Machine tool Lab., Graduate School of Science and Engineering, Saitama University
Intelligent planning method of NC machining process for new cutting technologies
- C-05** Advanced Machining System Lab., Dept. of Mechanical Engineering, Meiji University
Trajectory Control of High-Precision Robot Machining considering Virtual Joints
- C-06** Morimoto and hayashi Lab., Dpet. of Mechanical engineering, Kanazawa Institute of Technology
Development of digital twin system by VR

D Tools and tooling systems

- D-01** Itoh Lab., Ibaraki University
Composite Stereolithography 3D Printer System Realizing High-Performance Grinding Wheel
- D-02** Ultraprecision Machining Lab., Dept. of Mechanical Engineering, Chubu University
Effects of single-crystalline diamond quality on tool wear resistance and cutting performance

E Measurement and evaluation technology

- E-01** National Institute of Technology, Sasebo College, Dept. of Control Engineering, Grinding Tools AI Evaluation Lab
Evaluation of grinding wheel surface morphology change
- E-02** Murakami Lab., Department of Mechanical Systems Engineering, Faculty of Environmental Engineering, The University of Kitakyushu
Advancement of machining and measurement technology using machine learning
- E-03** Yoshioka Lab., Institute of Industrial Science, The University of Tokyo
Compensation of Workpiece Mounting Errors based on Measurement with 3D Scanner
- E-04** Cyber Machining Group, Industrial Cyber-Physical Systems Research Center (ICPS), National Institute of Advanced Industrial Science and Technology (AIST)
Development of a Visual Wear Detection System for Gear Skiving Cutters
- E-05** Precision Measurement and Machining Lab., Dept. of Micro Engineering, Kyoto University
Vision-based measurement of motion accuracy of machine tools
- E-06** Advanced Micro Machining Lab., Dept. of Mechanical Engineering, Chubu University
Tool state estimation based on on-machine captured tool image
- E-07** Digital Manufacturing Lab., School of Science and Engineering, Chuo University
Non-contact monitoring of cutting process using machining sound measurement
- E-08** Micro and Nano Engineering Lab.(HASE Lab.), Graduate School of Engineering, Saitama Institute of Technology
Smart Condition Monitoring of Small Machine Tools by Dual AE Sensing
- E-09** Saito Lab., College of Engineering, Nihon University
Measurement of angular indexing accuracy for 5-axis machining centers using touch trigger probe
- E-10** PPSE Lab., Grad. of Integrated Science and Technology, Nagasaki University
Optical system for On-machine and In-line measurement
- E-11** Nano Precision Machining Lab., Dept. of Advanced Machinery Engineering, Tokyo Denki University
Exploring the Next Generation of Manufacturing Technology using Nano-Precision Machining
- E-12** Precision Lab. Osaka Institute of Technology
Simultaneous 5-axis Motion Test without CAM
- E-13** Yanagihara lab., Dept. of Creative engg., National Institute of Technology, Ariake College.
Can in-process dynamics control in grinding provide innovation for grinding process?

F Production system and their components

- F-01** Mechanical Design and Systems Laboratory, Graduate School of Advanced Science and Engineering, Hiroshima University
Accuracy improvement for robotic machining
- F-02** Suwa Lab., Dept. of Mechanical Engineering, Setsunan University
Optimization Technology for Energy-Efficient Operations in Robotic Flexible Manufacturing Systems

Special Exhibits

- S** NIT Museum of Industrial Technology
NIT Museum of Industrial Technology -You can learn machine tools



Booth No.: W3103

工作機械の高付加価値を作り出す



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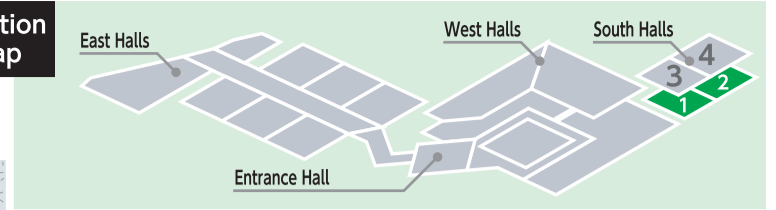


Tipton Corp. JIMTOF2024 West 4Hall W4046

South
南

South Hall 1・2

Location
Map



- Metal cutting machine tools
- Additive Manufacturing Area



South Hall 2

Shuttle Bus Stop



South Hall 2

Special Concurrent Exhibition
Additive Manufacturing Area
in **JIMTOF2024**

South Hall 1F

Additive Manufacturing (AM) and 3D printing products market is regarded as a true growth business area, with its market size increasing year by year. AM and 3D printing are also a captivating trend in machine tools industry, and is highly expected as an innovative technology in manufacture that enables reduction in the number of parts, shorter lead time and high-mix low-volume production. In addition to exhibitions, presentations and seminars will also be held, and it will be a place where you can efficiently discover the latest AM-related products, cutting-edge technologies and solutions!



South Hall 1



West To West Hall 1・2

South Hall 1

世界初のハイブリッド 金属3Dプリンタ

LUMEX
Avance-25



南2ホール
AM115 [AMエリア]



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ティーケーエンジニアリングは、技術、経験、柔軟な発想で新しいものを創造し続けます。

南1ホール
(South 1Hall)
AM122

CREATION AND CHALLENGE

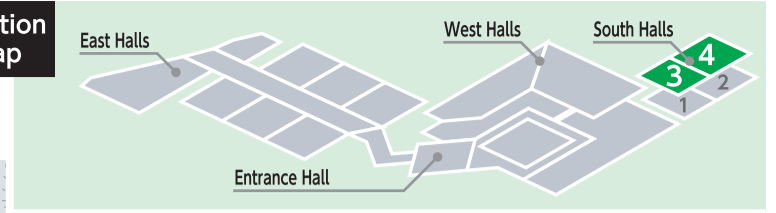
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ティーケーエンジニアリング株式会社

South
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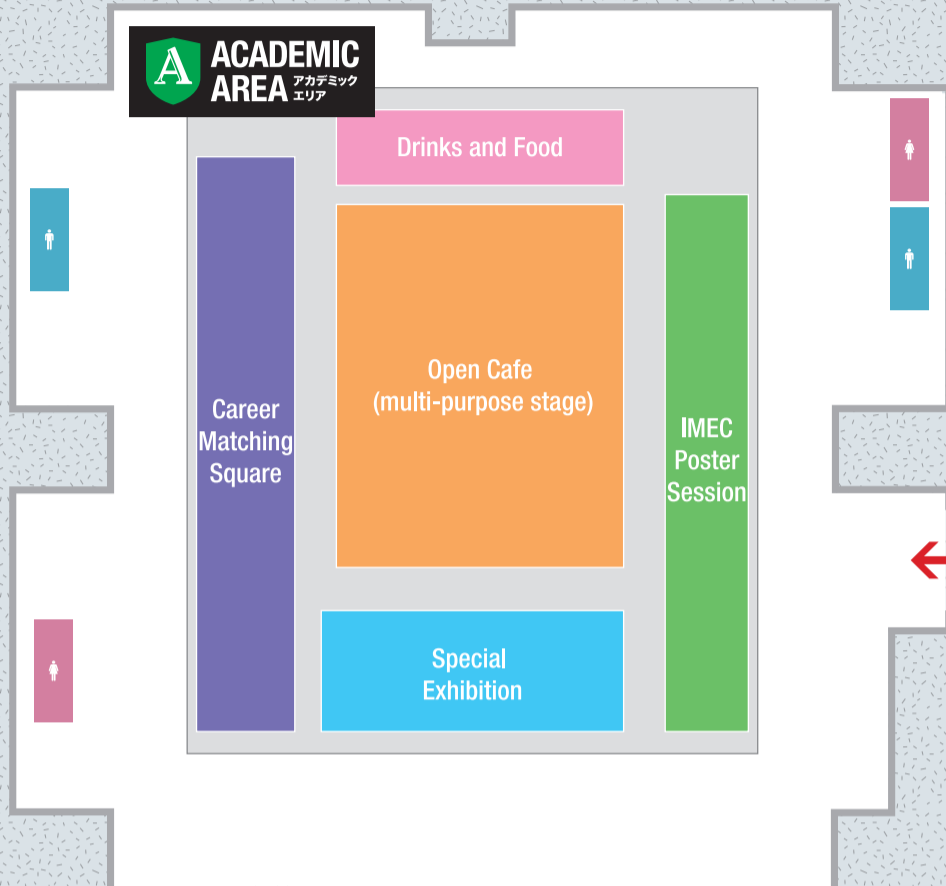
South Hall 3・4

Location
Map



Machine tool accessories/
Other associated machinery and equipment/
Publications

South Hall 4



ACADEMIC AREA
アカデミック エリア

South
南 South Hall 4

Career Matching Square

Many students are welcomed in this area as JIMTOF2024 exhibitors' general affairs and HR personnel look forward to seeing you, whether you are a science/engineering major or not.

[Companies]

- | | |
|-------------------------------------|---|
| MARUKA FURUSATO CORPORATION | OKUMA Corporation |
| SUGINO MACHINE LIMITED | TOKYO SEIMITSU CO., LTD |
| SHIBAURA MACHINE CO., LTD. | Santec Japan Corporation |
| Toyo Advanced Technologies Co.,Ltd. | UNIPULSE CORPORATION |
| MITSUI SEIKI KOGYO CO.,LTD. | Mitutoyo Corporation |
| MAKINO MILLING MACHINE CO.,LTD. | mitsubishi materials CORPORATION |
| NACHI-FUJIKOSHI CORP. | MOLDINO Tool Engineering, Ltd. |
| SHIN NIPPON KOKI CO.,LTD. | THK CO., LTD. |
| YAMAZAKI MAZAK CORPORATION | KOSMEK LTD. |
| CITIZEN MACHINERY CO., LTD. | MATSUMOTO MACHINE CO.,LTD |
| FUJI CORPORATION | Tokyo Metropolitan Vocational Skills Development Center |

Open Cafe

A free space for visitors, with Wi-Fi and drinks. Enjoy a break and the multi-purpose stage!

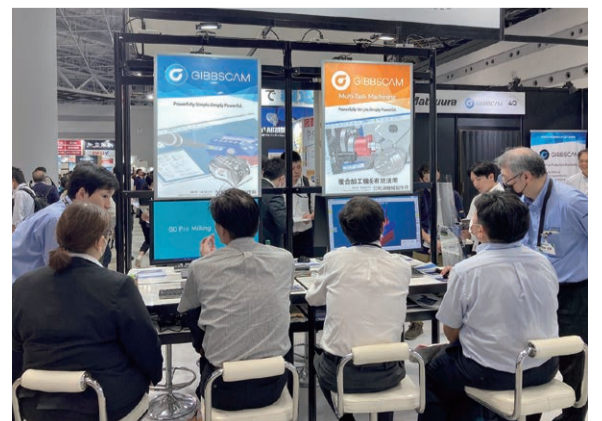


See the multi-purpose stage program here (Japanese Only) ▶

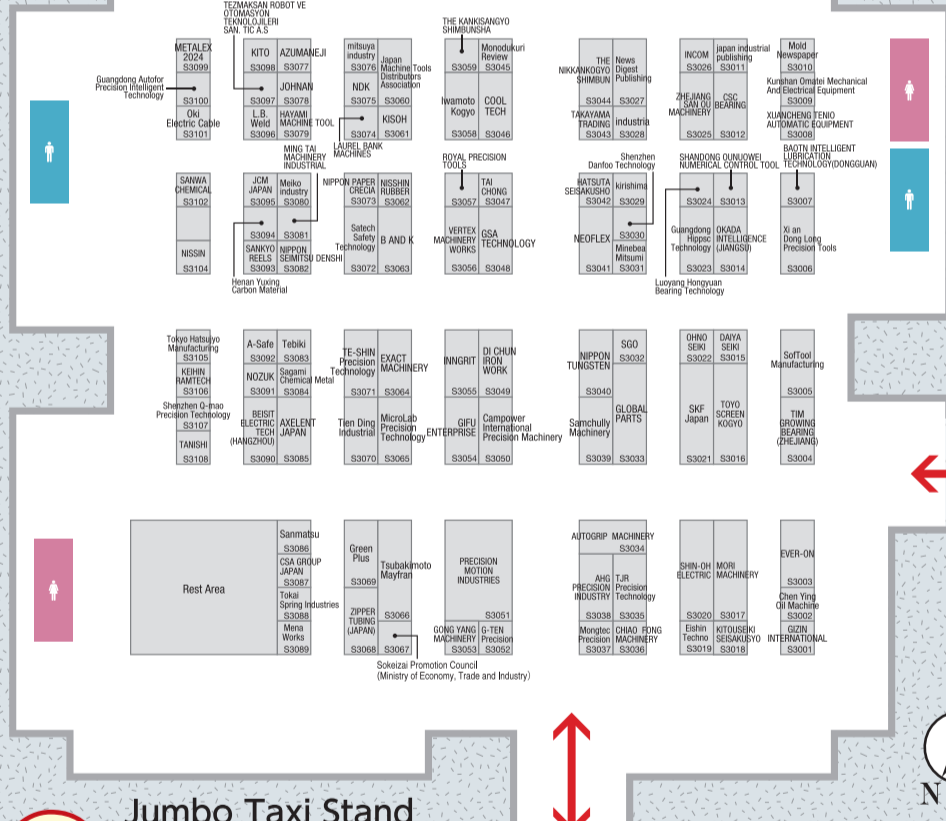
Special Exhibition Machine Tool Infinity ∞

~ Welcome to the world of machine tools that opens up infinite possibilities ~

There will be many activity contents which you will enjoy while deepening your understanding of the machine tool industry and feel the industry's potential at hand.



South Hall 3



Jumbo Taxi Stand

West & South Halls 4F Rooftop

To West Hall 3・4

TAIWAN
SMART MANUFACTURING

未来へ受け継ぐ 台湾のモノづくり

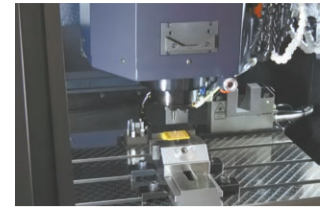
イベント連日開催!
~台湾の“おもてなし”をあなたに~

西4ホール(West4Hall)
W4083-18



受注回復チャンスとなる JIMTOF2024 への期待

Expectations for JIMTOF2024 as an opportunity to increase orders



工作機械の受注状況は一進一退が続いている。主要市場では大手を中心に大型の受注が好調な一方、中小企業では設備投資に慎重な顧客も多い。回復に向け日本国際工作機械見本市 (JIMTOF) への期待が高まる。

Machine tool orders have been fluctuating. Large companies continue to place large-scale orders in key markets but many SMEs are careful with capital investment. Expectations are rising for recovery, especially with the upcoming Japan International Machine Tool Fair (JIMTOF).

9月の工作機械受注、6.4%減

日本工作機械工業会 (日工会) が10月25日に発表した9月の工作機械受注総額 (確報値) は、前年同月比6.4%減の1253億6000万円と、2カ月連続で減少した。うち外需は同5.7%減の838億3100万円と2カ月連続で減少。また内需も同7.8%減の415億2900万円と、25カ月連続でマイナスとなった。

これまでの受注総額は17カ月ぶりにプラスとなった5月から3カ月連続で増加したが、8月から2カ月続けて減少した。増加のけん引役となったのは8月まで5カ月連続でプラスとなった中国だ。政府による設備更新や消費財の買い替え促進策、自動車関連の継続的な投資、次世代スマートフォン関連の投資の増加などが寄与したと見られる。

日工会は年初に2024年の工作機械受注額見通しを前年比ほぼ横ばいの1兆5000億円と発表。8月までの累計では見通しより約2.5%のマイナスで推移しているという。日工会は受注状況について、内需は半導体や車関係の設備投資の回復ペースが緩やかで、期待より少し先延ばしになっている。一方、外需は欧州が少し厳しいが、米国や中国を中心としたアジアは想定を上回る状況で推移していると見る。

また日工会は9月上旬、会員企業に10-12月期の受注見通しを調査した。足元の受注状況から「増加」と回答した割合から「減少」と回答した割合を差し引いた指数 (DI値) はマイナス2.7ポイント。6月下旬の前回調査から4.1ポイント改善したが、減少するとの見方がわずかに上回る。

日工会の稲葉善治会長 (ファナック会長) は9月26日の定例会見で、「全体の受注状況は調整局面から本格的な回復に向かっていているとの見立ては変えていない。ただ24年後半からもう少し上向くと考えていたが、少し遅れるのではないかと」の見方を示している。

先行きについて工作機械メーカー幹部は、米大統領

選後に米中などの国際関係を含めて方向性が定まり、年末に向け政治状況が落ち着けば、「全体的に需要が回復する可能性が高まる」と予想する。9月に米シカゴで開かれた国際製造技術展 (IMTS) では、「様子見が続く中小企業にも高金利が緩和されれば設備投資に踏み出す流れが感じられた」(業界関係者)との声も聞かれた。日本は半導体関連向けの投資が動き始めており、別の工作機械メーカー幹部は「IMTSのようにJIMTOFが良い機会になれば」と期待を示した。

Orders for machine tools drop by 6.4% in September

According to the announcement made by the Japan Machine Tool Builders' Association (JMTBA) on October 25, the total amount of machine tool orders in September (Confirmed figure) was 125.360 billion yen, a 6.4% decrease compared to the same month last year, marking a decline for two consecutive months. Of this, overseas demand was down 5.7% year on year at 83.831 billion yen, also decreasing for two consecutive months. Domestic demand also declined by 7.8% to 41.529 billion yen, resulting in a negative figure for 25 consecutive months.

The total amount of orders increased for three consecutive months from May, the month that recorded a surplus for the first time in 17 months but decreased for two consecutive months from August. The driver of the increase was China, which recorded a surplus for five consecutive months through August. Government policies to encourage renewals of facilities and consumption items, continuous investments in car-related industries, and more smartphone-related investments seem to have contributed to it.

At the beginning of the year, the JMTBA projected that machine tool orders in 2024 would be 1.5 trillion, roughly matching the previous year. However, the cumulative total through August has been ap-

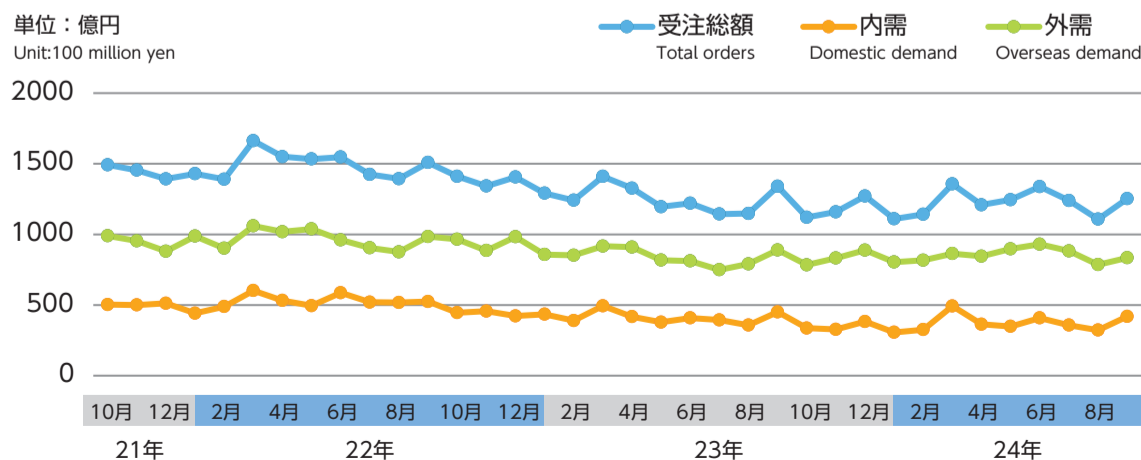
proximately 2.5% below the forecast. According to the JMTBA, domestic demand will grow a little later than expected as the recovery rate of capital investment by semiconductors and car-related industries has been gentle. Overseas demand presents a mixed picture, with conditions in Europe remaining challenging, but demand in the United States and Asia, especially China, exceeding expectations.

Also, in early September, the JMTBA surveyed member companies to gauge their order forecast for the October to December period. The indicator (DI value) calculated by subtracting the percentage of companies that said they forecast a decrease from the percentage of companies that said they forecast an increase, from recent developments, was -2.7 points. It improved by 4.1 points from the previous survey in late June but the percentage of companies that said they forecast a decrease was slightly higher than those who predicted an increase.

At a regular press conference on September 26, JMTBA chairman Yoshiharu Inaba (Chairman of FANUC) suggested, "We do not change the way to see overall orders moving toward full recovery from the adjustment phase. We had thought the total would start to move upward a little from the second half of 2024 but it may take a little longer."

An executive of a machine tool manufacturer estimates that once the direction becomes more concrete after the U.S. presidential election, including international relationships, such as those between the United States and China, and when the political situation stabilizes toward the end of the year, the "total demand is likely to recover." A source from the industry said that at the International Manufacturing Technology Show held in September in Chicago, "it felt as if SMEs that had been cautious with their steps would be ready for capital investment once the high interest rate eases." Another machine tool manufacturer executive was hopeful, saying that semiconductor-related investments were picking up in Japan and wished that, "JIMTOF will serve as a good opportunity, just as IMTS did."

工作機械受注額の月別推移 Monthly transition of machine tool orders



日本工作機械工業会の資料をもとに作成
Source: JMTBA



9月に米国シカゴで開かれた IMTS (写真提供: IMTS)
IMTS was held in Chicago, USA in September
(Photo courtesy of IMTS)

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West Hall 1

W1039

すべての選択に、確実に応える

Certainty at every turn

ドーマープラメットはサンドビックグループの一員で、切削工具で100年以上の知識と経験を有する世界的なメーカーです。ソリッドおよび刃先交換式ドリル、フライス、ねじ切り、旋削工具を含む包括的で汎用性の高い製品ラインナップと世界クラスの信頼性で、ユーザーの生産性とコスト削減を強化します。製造工程における工具の選択、セットアップ、最適化を簡素化する新製品ドーマー・プロフェッショナル・レンジ2024をぜひご覧ください。



Dormer Pramet is a leading manufacturer brand of metal cutting tools by Sandvik Group. With its comprehensive and versatile product line that includes solid and indexable drills, milling, threading, and turning tools, and with world-class reliability, Dormer Pramet enhances user's productivity and cost savings. New Dormer Professional Range 2024 simplifies tool selection, set-up and optimization in the manufacturing process.

URL

<https://www.dormerpramet.com/jap/ja/>

ハイウィン株式会社

HIWIN CORPORATION

西2ホール
West Hall 2

W2051

Eco Solutions for Green

HIWINグループのESG テーマとして持続可能なものづくりを支援する、環境に配慮した製品群を紹介いたします。

「工作機械ソリューション」では最高回転速度1000min⁻¹のロータリーテーブルや予知保全に貢献するi4.0シリーズなど、工作機械の付加価値を向上する製品を紹介いたします。

「周辺機器トータルソリューション」では直動機器や各種モーター、産業用ロボットや搬送ステージなどをワンストップで提供します。



状態可視化システム搭載 i4.0シリーズ トルクモーターロータリーテーブル

Introducing a group of environmentally friendly products that support sustainable manufacturing as part of the HIWIN Group's ESG theme.

[Machine Tool Solutions] Introducing products that help to improve the added value of machine tools, such as HIWIN Rotary Table with a maximum rotation speed of 1000 min⁻¹ and the i4.0 series that contributes to predictive maintenance.

[Peripheral Equipment Total Solution] We provide one-stop services such as linear motion equipment, various motors, industrial robots, transfer stages and many more.

E-MAIL

info@hiwin.co.jp

芝浦機械株式会社

SHIBAURA MACHINE CO., LTD.

東2ホール
East Hall 2

E2043

経験に裏打ちされた信頼と技術力で未来を形に

Shaping the future with trust and technical expertise backed by experience

芝浦機械は①大型ワークに対応可能な最大スケールの横中ぐり盤 [BTHシリーズ=写真] ②高度な先進アプリケーションと機械性能で金型加工の概念を覆す超精密マシニングセンタ [UVMシリーズ] ③油静圧機モデルの超精密非球面加工機 [ULGシリーズ] ④広範な業界に向けて提案する実例ベースの摩擦攪拌接合 (FSW) ⑤サステナブルなモノづくりに貢献する金属3D積層造形技術 ⑥AIによる工場全体の最適化で品質向上と省力化を実現 (DX) を展示します。



The exhibition will feature (1) BTH Series, the largest-scale horizontal boring and milling machine capable of handling large workpieces (2) UVM Series, an high precision machining center that overturns the concept of mold and die machining with advanced applications and advanced machine performance (3) ULG Series, a high precision aspherical and free-form surface grinder based on an oil hydrostatic machine model and technology exhibits that will includes (4) Friction Stir Welding (FSW) technology that can be used in a wider range of industries on a real-world basis (5) Additive manufacturing system that contributes to sustainable manufacturing (6) AI-based optimization of the entire factory for improved quality and labor savings (DX) .

URL

<https://www.shibaura-machine.co.jp/jp/contact/>

イ斯卡ルジャパン株式会社

ISCAR JAPAN LTD.

西1ホール
West Hall 1

W1044

最先端工具「LOGIQUICK」シリーズ

New LOGIQUICK series of cutting tool innovations

「限りない技術革新に挑戦！」をモットーに、研究開発を続けるイ斯卡ル社は、切削加工の新たな常識を作り出す、最先端工具「LOGIQUICK (ロジクイック)」シリーズをリリースしました。常に変化する市場のニーズを取り込み、製造現場における生産性と収益性向上を実現するラインアップです。

ぜひイ斯卡ルブースにお立ち寄りいただき、その全容をご覧ください。



With the motto of "Where Innovation Never Stops!", ISCAR continuously engages in research and development. We have now released the LOGIQUICK cutting tool series, which is redefining the standards of machining. Visit the ISCAR booth and discover the full details.

E-MAIL

iscar@iscar.co.jp



自動化・省人化・高効率化

スマートに解決

未来へ導く Sodick Smart Solution

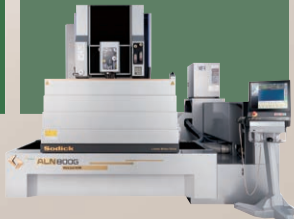
AMR*が工程間連携を実現
※: Autonomous Mobile Robot



リニアモーター駆動
超精密
ワイヤ放電加工機

AX350L iG+E

長時間大型ワーク加工を
多彩な機能で自動化・効率化



リニアモーター駆動
高速・高性能
精密形彫り放電加工機

AL40G+

軽量＆コンパクトな機体で
難削材の微細精密加工実現



New Model
リニアモーター駆動
フェムト秒レーザー加工機

LSP4040

精密切削加工の自動化に向け
多彩なシステムをご提案



リニアモーター駆動
マシニングセンタ
& オートワークチェンジャー

UX650L & SR12



JIMTOF2024
特設サイトへは
こちらから

GO!



株式会社 ソディック

※ 出展機は都合により予告なく変更する場合がありますのでご了承ください。



Students' Guide to JIMTOF2024

学生のための 楽しい歩き方 ガイド

執筆：日本工業大学 工業技術博物館館長 清水伸二 Shinji Shimizu, Director, Museum of Industrial Technology, Nippon Institute of Technology

JIMTOF を楽しく見学するためには、工作機械の全体像を頭に入れておくことが大切です。そこで、まずは知っているつもり「工作機械」について改めて整理してお話しし、次に見学のポイントを述べたいと思います。

To enjoy JIMTOF, you need to have a general idea of machine tools. Consequently, we will first explain some details about machine tools, which you may think you know already, and then discuss the key points for enjoying your visit.

工作機械は単なる機械を作る機械ではない

工作機械は「機械を作る機械」であると言われてますが、皆さんは世の中にはどのような機械が存在しているか、その全体像をイメージできているでしょうか。それを示したのが図1です。

まずは、電車、自動車、家電製品のような我々の生活に身近な生活用機械を作り出しています。それだけでなく、歯車、軸受、半導体、工具類など、あらゆる機械で使われる部品や製品を産み出す工業製品関連産業機械も作り出しています。さらには、食品機械や繊維機械などの製品を生み出す衣食住関連産業機械も工作機械が作り出しています。

上述のように、工作機械は世の中のありとあらゆる機械を作り出しています。特に衣食住に関わる製品が、工作機械により作られた産業機械によって生み出されていることを踏まえるならば、工作機械は我々の生活基盤を作り出している重要な機械で、我々にとって必要不可欠な「すごい機械」なのです。JIMTOFはそんなすごい機械の国際的な展示会なのです。

JIMTOFを見学する意義は何か

まず、JIMTOFでは前述した多くの産業で使われている基本的な工作機械を全機種見ることができるので、工作機械の役割、全体像をイメージできるようになります。

工作機械には「円筒状の面を加工する」「平らな面を加工する」「穴を加工する」のが得意な3種類の機械が存在しています。加工の際に使われるエネルギーについては「切削や研削加工のように機械的なもの(物理的な力)」「レーザ加工のように熱的なもの」「電解加工のように電気・化学的なもの」など、主として3種類のエネルギーが使われています。JIMTOFではこれらの機械を一度に見られるので、工作機械をより体系的に理解する絶好の機会と言えます。

また、工作機械の加工性能を高め、もっとも重要なユーザーニーズである高精度・高効率加工を実現するためには、工作機械の性能を高めるだけでは不十分です。図2に示すような、工作機械を中核として構成される加工システムの構成要素の性能も高める必要があります。

その構成要素としては、工作機械、機械を制御する制御装置、切りくず処理装置のような周辺装置、加工するための工具や加工対象物(工作物)の取付具といったツーリングシステムなどがあります。

そして、工作物と工作機械が使われる工場環境、生産技術力などのユーザの生産環境があります。JIMTOFでは工作物とユーザの生産環境以外のすべての要素が展示されており、ものづくりのために基本的にどのような構成要素が必要となっているかを理解できることもJIMTOF見学の意義と言えます。

見学のポイントは何か

見学に当たり、現在、工作機械メーカーがどのようなユーザーニーズに応えようとして、どのような技術開発を行

うとしているかを知っておくと、出品されている機械の背景が理解できます。次にそのための解説をいたします。

ユーザーニーズとしては、図2の中で挙げている10項目が挙げられます。これらに応えるために、工作機械メーカーは、自社製品の高精度・高剛性化、高信頼化(精度・品質)、高速化、ハイパワー化、非加工時間の短縮化、工程集約・短縮化、情報ネットワーク化、システム化・システム適合化、コンパクト化、環境省エネルギー化、設計技術の高度化などに注力しています。

各社の機械を見て、各社がどのようなユーザーニーズに応えようとして、どのような技術を投入しようとしているかという視点で見学すると、楽しく見学ができると思います。分からなければ、各社のブースで担当者に積極的に質問してみましょう。

ここまでで、JIMTOFで何を見ることができているかを理解していただけたことと思います。今度は、それらの中で自分は何を見たいのか、その目的・目標を定めておきましょう。それが定まると、広い会場のどこから見たらよいか分かり、皆同じに見えた工作機械をいろいろな視点で見られるようになり、飽きずに楽しく見学ができるようになると思います。

展示会場の案内図(各社の展示ブースの小間割図など)は、8-19ページに載っていますので有効活用して下さい。展示場は東1-8ホール、西1-4ホール、南1-4ホールまであり、各館では、同分野の製品が展示されますので、自分の見たい展示館がどこにあるか確認してお

くと良いと思います。

技術動向としては、高度自動化、工作機械へのデジタル技術の適用(デジタル変革、DX)、環境対応(グリーン・トランスフォーメーション、GX)などに技術進展が期待されます。これらを推進するための共通的な技術指針として、見える化(工作機械や工場の稼働状態の可視化)、知能化(人工知能(AI)の適用技術の発展)、つなぐ化(機械と周辺装置との結合)や、持続可能化(工作機械の長寿命化、機能、加工精度の安定維持など)が進められている様子を感じてもらえればと思います。

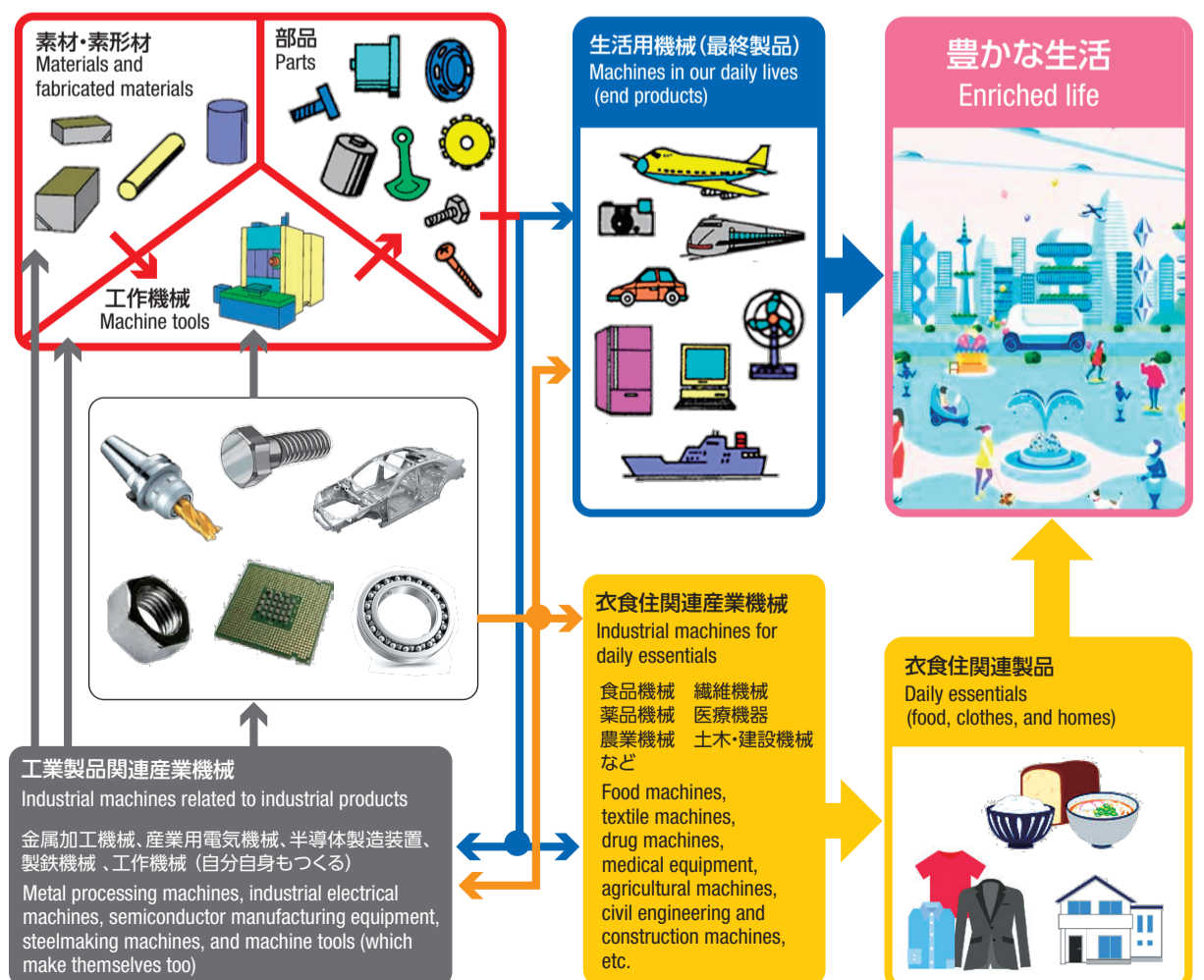
JIMTOF見学に当たり、本稿が皆さんが楽しく見学するための参考にできれば幸いです。

Machine tools are not merely machines that make other machines

Some people may assume that machine tools are simply machines that make machines, but do you have a general idea about what kind of machine tools exist? This is summarized in Fig. 1.

First, machine tools make some of the machines that we use every day, such as trains, cars, and home appliances. Nonetheless, machine tools also make industrial machines related to industrial products that make vital parts and products, such as gears, bearings, semiconductors, and tools. Furthermore, machine tools also make industrial machines

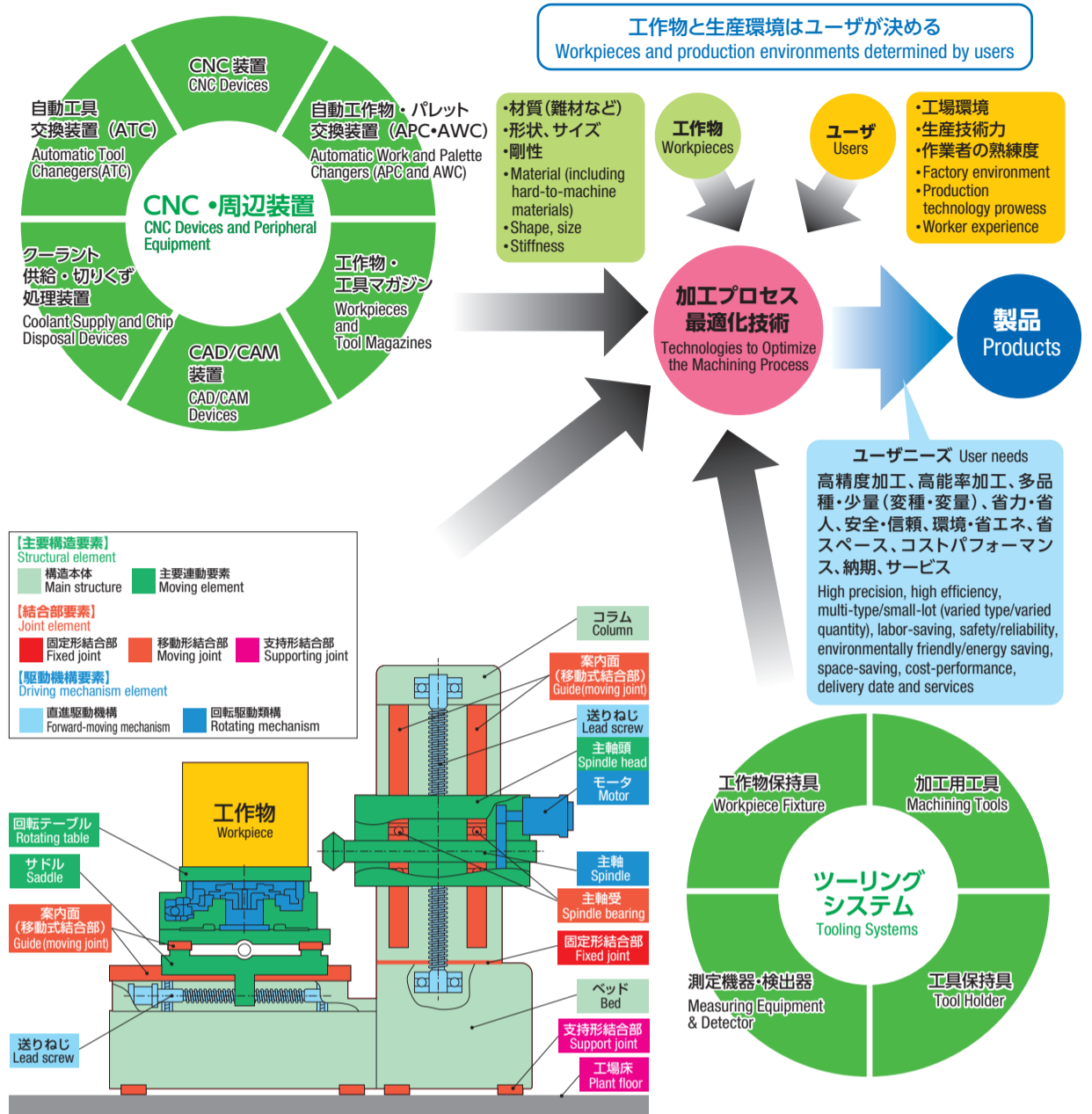
図1 工作機械はどのような機械を作っているか
Fig. 1 What kind of machines do machine tools make?



related to food, clothes, and homes that manufacture daily essentials, such as food machines and textile machines.

As mentioned above, machine tools can make all kinds of machines. If industrial machines created by machine tools manufactures products concerning food, clothes, and homes, then machines tools are indeed important machines that provide the foundation of our lives, and incredible type of machinery essential to us all. JIMTOF is an international trade show that features some exceptional machines.

図2 加工性能に影響を及ぼす加工システム構成要素
Fig. 2 Basic components of processing system that affect machining performance



What is the purpose of visiting JIMTOF?

First of all, JIMTOF allows you to see all types of basic machine tools used in many of the industries mentioned above, which will enable you to have a complete image of machine tools and their roles.

Machine tools come in three types: those that are good at creating cylindrical surfaces, flat surfaces, and holes. The machining process generally involves three types of energy: mechanical (physical) energy, such as cutting and grinding; thermal energy, such as laser; and electrical/chemical energy, such as electrochemical machining. JIMTOF allows you to see all these machines, which will be the best opportunity for you to understand machine tools more systematically.

Merely raising machine tools' performance will not suffice to improve their machining performance and achieve high-accuracy and high-productivity machining, which are the most important user needs. Fig. 2 shows that the performance of the basic components of the processing systems must also be enhanced with machine tools at the center.

Such basic components include machine tools, control equipment to control machines, peripheral equipment (such as scrap processors), and tooling systems (such as processing tools and fixtures) for workpieces.

There are also factory environments where workpieces and machine tools are used, as well as users' production environments, such as production technology capabilities. JIMTOF shows everything other than workpieces and users' production environments, making it a worthwhile visit as you will be able to understand what basic components are required in manufacturing.

Key points in your visit

If you know in advance what the user needs of the machine tool manufacturers are trying to address and the technological development they are trying to undertake to do that, you will be able to understand the backgrounds of the machines on display. We will discuss this in more detail next.

Fig. 2 shows ten user needs. To address these needs, machine tool manufacturers are focusing on making their products more accurate, robust, reliable (in terms of accuracy and quality), faster, more powerful, and with shorter idle time. They are also integrating and shortening machining processes, introducing IT network solutions, systemizing and complying with systems, making their products more compact, environmentally friendly and energy-saving, and using more advanced design technologies.

If you see machines from different companies and then try to understand what user needs they are trying to address while also determining what kind of technologies they are trying to use, you will be able to enjoy JIMTOF more. If you cannot fully understand that, proactively ask the representatives at the company booths.

So far, we hope you have understood what you will be able to see at JIMTOF. Next, you should set some objectives and targets for what you want to see out of all the choices. Once you know that, you will know which area to visit first inside the vast hall and will be able to see similar-looking machine tools from various angles, which will make your visit more fun and interesting without getting bored.

The maps of the halls (including more detailed maps of company booth locations) can be found on pages 8-19. There are East 1-8 Halls, West 1-4 Halls, and South 1-4 Halls. Each hall shows prod-

ucts from the same category, so it is best to check beforehand where the hall you want to see is located.

As for technological trends, developments are expected in areas such as advanced automation, application of digital technologies to machine tools (digital transformation [DX]) and environmental responses (green transformation [GX]). We hope that you will get a clear sense of how shared technological policies support these areas, including visualization (visualizing the operational state of machine tools and factories), intelligence (development of artificial intelligence [AI] applications), connectedness (connecting machines with their peripheral equipment) and sustainability (such as extending machine tools' lifespan, improving their functions, and achieving stable maintenance of machining accuracy).

We hope this guide will make your visit to JIMTOF even more fun.

MT検定
工作機械検定
MACHINE TOOL



日本工作機械工業会は、一般の方々にも工作機械はどのような機械かを知ってもらう「工作機械検定 (MT検定)」を実施しています。JIMTOF Map & Daily Newsでは、工作機械産業に関する標準的な問題を取り上げる「2級」(合計20問)の中から12問を選び、6回にわたって掲載します。全問正解を目指し、ぜひチャレンジしてみてください。

工作機械検定2級にチャレンジ!
応募期間 **11月30日(土)まで。**

Q.1

工作機械の原形となるスケッチを1500年頃に残した芸術家は次のうち誰ですか。

- A レオナルド・ダ・ヴィンチ
- B ミケランジェロ
- C ラファエロ

Q.2

明治時代初期、日本で初めて作られた全鍛鉄製の足踏み駆動式工作機械は、どのような種類の工作機械でしたか。

- A 旋盤
- B フライス盤
- C 形削り盤

スマホでも受験できて、その場で合否判定します!

工作機械検定はこちらから





モノづくりにおける カーボンニュートラル・SDGs

Carbon Neutrality and SDGs in Manufacturing

現代社会が取り組むべきテーマの一つとして、持続可能性への対応が一層重要性を増している。人々の生活や産業、運輸などあらゆる領域で、カーボンニュートラル（温室効果ガス排出量実質ゼロ）や国連の持続可能な開発目標（SDGs）など、社会課題解決に向けた取り組みが求められている。工作機械においても環境への対応は不可欠な要素として、従来以上にクローズアップされるようになっている。

Sustainable response is becoming increasingly important as one of the themes that today's world must tackle. Every aspect, such as in people's daily lives, industries, and transportation, calls for efforts to solve social issues such as carbon neutrality (net zero greenhouse gas emissions) and the U.N's Sustainable Development Goals (SDGs.) In the field of machine tools, environmental response is also drawing more attention than ever before as an essential element.

世界中で加速・拡大する 持続可能性への対応



2022年に開催された「第31回日本国際工作機械見本市（JIMTOF2022）」からのこの2年間で、世界の脱炭素を巡る動きは、より加速・拡大した。

企業や一般家庭での再生可能エネルギーの開発・導入が進んでいるほか、国内外で、取引先まで含めたサプライチェーン（供給網）全体の脱炭素化やそれに伴う経営全体の変革（グリーン・トランスフォーメーション〈GX〉）が加速。デジタル技術を駆使してサプライチェーン上の二酸化炭素（CO₂）排出量を算定し、可視化するサービスも活況だ。また自動車業界では、国内外メーカーによる電気自動車（EV）の開発、投入も相次いでいる。

● 省エネルギー、省資源、EV対応がキーワード

JIMTOF2024でも、「省エネルギー」「省資源」「EV対応」を前面に押し出した技術や製品、サービスの出展が目立つ。

日本工作機械工業会（日工会）が策定した工作機械業界における「カーボンニュートラル行動計画」では、CO₂排出量の削減目標を、2030年に13年比38%減22万5100tに設定している。2022年度は工作機械の生産額は前年度比26・1%増の1兆5594億円と大幅に増加したものの、CO₂排出量は同7.8%増の31万900tに抑えられた。

また日工会では、工作機械のライフサイクルアセスメント（LCA）に関するガイドラインを策定。部材の調達から生産、使用、廃棄まで各段階のCO₂排出量の測定方法や考え方を定量化し、環境影響を把握しやすくしている。

工作機械業界ではカーボンニュートラルが現在のように世界的な潮流となる以前から、アイドリングの削減や加工条件の最適化をはじめとする工作機械の運転効率向上、高性能モーターやインバーター制御などによるユニット高効率化に取り組んできた。加えて、複数の工程を1台に集約できる複合加工機の開発、油圧レスによる消費電力

削減といった取り組みも相まって、産業部門の省エネ化に大きな貢献を果たしてきた。今回のJIMTOFでも、これらが一層進化した技術・製品が十分に披露されるだろう。

EV分野の成長を見据えた対応も進む。EV関連市場は足元ではやや動きが鈍化しているものの、将来的にはEVが自動車全体に占める割合が増加が見込まれ、成長が期待される。

そのため、工作機械各社はEVに適した部品の加工提案に注力している。

自動車部品の軽量化に向けたアルミニウムや炭素繊維強化プラスチック（CFRP）の活用に対応した加工技術をはじめ、静粛性を実現するための高精度な歯車加工など、各社の得意とする技術やノウハウを生かした製品が多く見られるはずだ。

● 複合材料「ミネラルキャスト」 工作機械生産時の脱炭素化に貢献

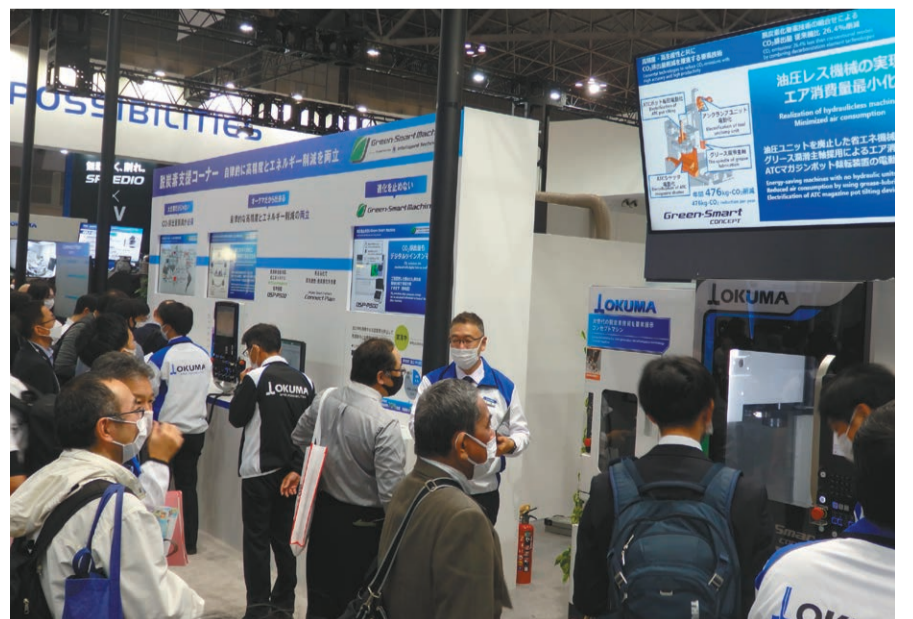
また工作機械そのものに新素材を採用する動きも広がる。その一つが、鋳物の代替として鉱石とエポキシ樹脂で結合させた複合材料「ミネラルキャスト」だ。鋳物に対して製造工程におけるCO₂排出量が大幅に少ない上に、リードタイムも短くできる利点がある。鋳物からミネラルキャストへの代替が進めば、工作機械生産時のCO₂排出量削減や納期短縮の効果も期待できる。

今回、ミネラルキャストを工作機械のコラムやベッドに採用したマシニングセンターを披露するメーカーもある。脱炭素に貢献する工作機械や技術はもちろん、工作機械自体の脱炭素につながる要素にも焦点を当てて会場巡りをするのも楽しみの一つとなりそうだ。

Accelerating and Expanding Responses to Sustainability Worldwide

In the two years since the 31st Japan International Machine Tool Fair in 2022 (JIMTOF 2022), the world's decarbonization efforts have further accelerated and grown.

Renewable energy is being developed and introduced more into companies and households. In Japan and abroad, decarbonization throughout supply chains is accelerating, involving suppliers as well as the transformation of entire business management (green transformation: GX) that comes with it. Services that utilize digital technologies to estimate and visualize carbon (CO₂) emissions in supply chains are also thriving. In the automotive industry, Japanese and overseas manufacturers are actively developing and launching electric vehicles (EV).



カーボンニュートラルへの意識が高まり、関連技術や製品、サービスの提案が増加している（JIMTOF2022の様子）

Awareness for carbon neutrality is rising, leading to more proposals for relevant technologies, products, and services (a scene from JIMTOF 2022)

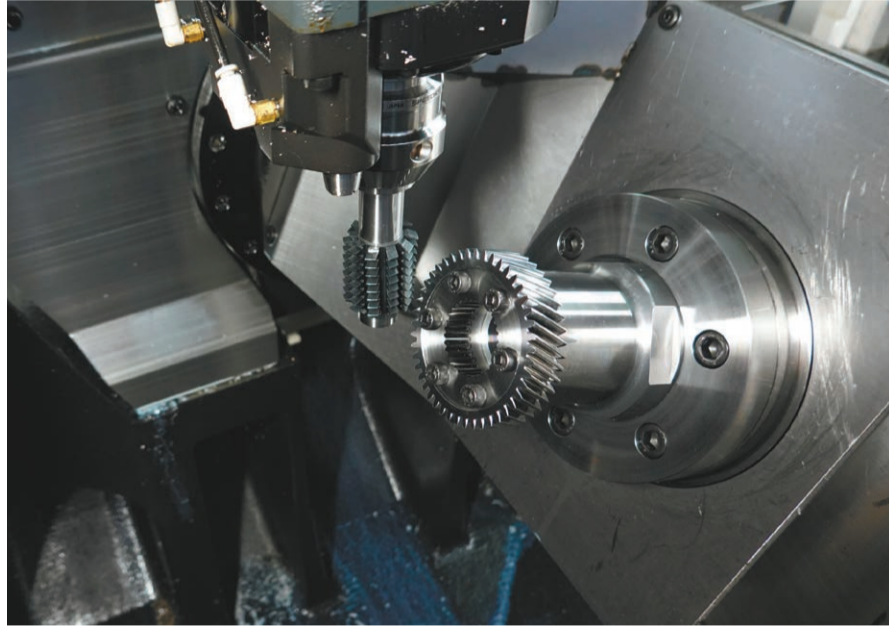
● Keywords are Energy-Saving, Resource-Saving and EV Compatible

At JIMTOF 2024, abundant technologies, products, and services that prominently feature "energy-saving," "resource-saving" and "EV compatible" are on display.

Devised by the Japan Machine Tool Builders' Association (JMTBA), the "Carbon Neutral Action Plan" for the machine tool industry outlines the goal to reduce 225,100 tons of carbon emissions by 2030, which is 38% less than in 2013. In 2022, the machine tool production by price increased significantly to 1.5594 trillion yen year-on-year, but CO₂ emissions were only reduced by 310,900 tons, up 7.8% year on year.

The association has also established guidelines on machine tools' lifecycle assessment (LCA). The guidelines show how to measure and understand CO₂ emissions in every step of the lifecycle, from material procurement to production, consumption, and disposal, making it easy to understand their environmental impact.

Long before carbon neutrality became a global trend, the machine tool industry was already improving the operational efficiency of machine tools



ブラザー工業は歯車加工機能を小型マシニングセンターに搭載した。電動駆動装置「eアクスル」生産への利用が期待できる。
Brother Industries equipped a gear machining feature on a small machining center. It can be used for the production of electrically driven instrument "e-Axle."

through measures such as reducing idle time and optimizing processing requirements, as well as shifting to high-efficiency units that utilize high-performance motors, inverter control, etc. Furthermore, the industry has played a significant role in energy conservation for the industrial sector by developing compound processors that integrate multiple processes into one system and saving power consumption by eliminating hydraulic pressure. JIMTOF 2024 will also fully highlight technologies and products that show how these efforts have been developed further.

Responses to the EV sector's anticipated growth are also underway. Even though recent EV-related markets have slowed down a little, the proportion of EV in the entire car market is expected to increase and grow.

To respond to this situation, machine tool manufacturers are focusing on proposals for processing parts that are suitable for EVs.

They will be displaying many products that highlight their strengths through technologies and know-how, such as machining technologies that incorporate the use of aluminum and carbon-fiber-reinforced-plastics (CFRP) to make car parts lighter, as well as high-precision gear-machining designed for quiet operation.

● Compound Material "Mineral Casting" Contributes to Decarbonization in Machine Tool Production

Moves to use new materials in machine tools themselves are also increasing. One of them is mineral casting, a complex material of ores bound with epoxy resin as an alternative to casting. It emits much less CO₂ in manufacturing processes than casting and has a shorter lead time. Shifting from casting to mineral casting is expected to reduce CO₂ emissions and shorten delivery times during machine tool production.

This time, some manufacturers will showcase machining centers that utilize mineral casting in machine tool columns and beds. It will be fun to tour the venue, focusing not only on decarbonizing machine tools and technologies but also on machine tool parts that contribute to decarbonization.



ベッドにミネラルキャストを採用したトーヨーエイトックの横型内面研削盤「THG-35C」
Toyo Advanced Technologies' horizontal internal grinding machine, THG-35C, featuring a mineral casting bed

知っておきたい環境キーワード

Environmental keywords to know



サーキュラーエコノミー

経済システムに投入した原材料や製品ができる限り高い価値を維持したまま循環し続けることを目指す経済モデル。原材料調達や製品・サービス設計の段階から資源の回収や再利用を前提とし、また長期利用を促すことで、地球資源の負荷を軽減していく。

● Circular economy

An economic model that aims at continuously circulating raw materials and products in the economic systems, maintaining as much value as possible. By incorporating recycling and reuse from the stages of raw material procurement and product/service design, and by promoting long-term use, it aims to lessen the burden on the planet's resources.

レトロフィット

古くなったり、性能が低下したりした機械や装置を、改造・改装することで新品同様に復元するほか、新機能を付加して性能を高めること。新品を購入するより安価に設備更新できるケースがあるほか、使い慣れた機械を継続利用できるなどのメリットがある。廃棄物を減らせるなど環境配慮の面でも評価されている。

● Retrofit

Restoring and remodeling machines and equipment that have become old or whose performance has deteriorated so that they will be as good as new, or to add new features to them to improve their performance. This approach can sometimes update facilities more affordably than purchasing new equipment, and there is also a merit of being able to keep using machines that one is familiar with. It is also valued positively for its environmental benefits, such as reducing waste.

グリーン・トランスフォーメーション (GX)

産業革命以来の化石燃料中心の経済・社会、産業構造をクリーンエネルギー中心に移行させることを目的とした経済社会システム全体の変革。

● Green transformation (GX)

The transformation of the entire socioeconomic system aimed at shifting the fossil fuel-based economic, societal, and industrial structures, established since the Industrial Revolution, to a clean energy-centered model.

インバーター

電源とモーターの間に設置し、電気の周波数を変えて、モーターの回転を適正に制御する装置。使用環境により変速運転が必要な箇所など、モーターがそこまで回る必要のない時に、インバーターで適正なレベルに出力を精密に制御することで、大きな省エネ効果を発揮する。

産業機械や電気自動車 (EV)、ロボットや家電製品、鉄道まで幅広く用いられており、長期間の使用でライフサイクルコストの削減をはかることができる。インバーターはIoTにも対応し、予防保全にも活用できる。

● Inverters

Inverters are placed between the power source and the motor to change the frequency, enabling optimal control over motor rotation. It saves energy significantly by precisely controlling the output when the motor does not need to rotate that much, such as when varied-speed operation is required.

Inverters are widely used in industrial machines, electric vehicles (EV), robots, home appliances, and in railways, and they can reduce lifecycle costs with long-term use. Inverters also support IoT and can be used for preventative maintenance.



Event Calendar

November 5 (Tue.)

Time	International Conference Room, Conference Tower 7F	Organizers Main Stage South Hall 1, Additive Manufacturing Area
12:00		
13:00	13:00 - 14:00 Keynote Speech Bring your dreams to manufacturing! THK's pursuit of a new-concept EV	13:00 - 14:00 Changing The Future of Die Casting Leads to the Change of Metal AM of Mold Manufacturing
14:00		14:00 - 16:00 Western companies tackling the challenges of AM head-on
15:00		
16:00		
17:00		

November 6 (Wed.)

Time	Reception Hall, Conference Tower 1F	Organizers Main Stage South Hall 1, Additive Manufacturing Area
12:00		
13:00	13:00 - 14:15 Special Lecture Monozukuri manufacturing is about Developing People	13:00 - 16:15 AM Seminar by Japan Machine Tool Builders' Association
14:00		
15:00		
16:00		
17:00		

November 7 (Thu.)

Time	Reception Hall, Conference Tower 1F	Organizers Main Stage South Hall 1, Additive Manufacturing Area
10:00		10:00 - 12:00 The latest status of social implementation of Japanese 3D printers Morning session
11:00		
12:00		
12:30-18:00	IMEC2024 (The 20th International Machine-Tool Engineers' Conference) Oral Session	13:00 - 16:00 The latest status of social implementation of Japanese 3D printers Afternoon session
13:00		
14:00		
15:00		
16:00		
17:00		
18:00		

November 8 (Fri.)

Time	International Conference Room, Conference Tower 7F Reception Hall, Conference Tower 1F	Organizers Main Stage South Hall 1, Additive Manufacturing Area
10:00		10:00 - 11:00 How the West is working to address the challenges of additive manufacturing
11:00		11:00 - 12:00 ShareLab
12:00		12:00 - 13:00 Mass Production of AM as a Business
13:00	13:00 - 14:00 Special Lecture International Conference Room, Conference Tower 7F Cross-Industry Collaboration in Action: Exploring Open Innovation Management with JSOL at Maeda Corporation Fantasy Marketing Department	13:00 - 16:00 AM utilization starts with automation of overlay welding repair and dissimilar metal coating
14:00		
15:00		
16:00	13:00 - 18:00 Reception Hall, Conference Tower 1F IMEC2024 (The 20th International Machine-Tool Engineers' Conference) Oral Session	
17:00		
18:00		

November 9 (Sat.)

Time	International Conference Room, Conference Tower 7F	Organizers Main Stage South Hall 1, Additive Manufacturing Area
10:00		10:00 - 11:00 Applications and challenges as repair techniques for metal AM
11:00		11:00 - 13:00 ShareLab
12:00		
12:30-15:10	Students only Top Seminar by Machine-Tool Manufacturers for Students	13:00 - 14:00 A Practical Guide to 3D Printing
13:00		
14:00		14:00 - 15:00 Technology and Business Trends in Additive Manufacturing and 3D Printing from Global viewpoint
15:00		
16:00		
17:00		

November 10 (Sun.)

Time	Reception Hall, Conference Tower 1F	Organizers Main Stage South Hall 1, Additive Manufacturing Area
10:00		10:00 - 13:55 Manufacturing Revolution: Breaking Through Manufacturing Barriers with Additive Manufacturing
10:30 - 11:30	Special Lecture 10:30 - Development of Space Robots 11:00 - Daily Life of Women in STEM (Monozukuri)	10:00 - 10:55 Utilization of metal AM for aluminum die-casting dies 11:00 - 11:55 The Production of Die-Casting Mold Components Using Multi-Laser AM Equipment and Future Developments 12:00 - 12:55 Giga cast technology trends and die-casting technology 13:00 - 13:55 Achievements for mold repair and technology development by 5-axis DED hybrid machine
11:00		
12:00		
13:00		
14:00		14:00 - 15:55 「Additive Manufacturing Pioneering New Frontiers in Manufacturing: Unconstrained by Conventional Wisdom」
15:00		
16:00		
17:00		



South Hall 4 Academic Area

IMEC2024 Poster Session

November 5 (Tue.) - 10 (Sun.) 9:00-17:00

* Personnel who give explanations from participating organizations are scheduled to be present from 9:00 to 12:00 on November 7 (Thu.) and 8(Fri.) 9 (Sat.)

Open Cafe

A free space for visitors, with Wi-Fi and drinks. Enjoy a break and the multi-purpose stage!

See the multi-purpose stage program here (Japanese Only) ▶





Lectures / Seminars

Free of charge

* Pre-registration is required for lectures and seminars.
* On-site registration is accepted on a space available basis only.

J Japanese (including interpretation) **E** English
M Multilingual Translation (AI Translation included)

International Conference Room, Conference Tower 7F / Reception Hall, Conference Tower 1F

Keynote Speech

J E M

International Conference Room, Conference Tower 7F November 5 (Tue.) 13:00~14:00

Bring your dreams to manufacturing! THK's pursuit of a new-concept EV

THK was the first company in the world to develop the LM Guide, which is a critical element of machine tools. As a result of honing this technology alongside our ball screw expertise, we were able to unveil our original EV prototype that features the latest in EV technology, the LSR-05, at JMS 2023. In this talk, SNDP's Shiro Nakamura (formerly from Nissan) and I will discuss the path that led us to today as well as the road ahead.



THK CO., LTD.

Chairman/CEO **TERAMACHI Akihiro**



SN Design Platform

President **NAKAMURA Shiro**



LSR-05

Special Lecture

J E M

Reception Hall, Conference Tower 1F November 6 (Wed.) 13:00~14:15

Monozukuri manufacturing is about Developing People

Manufacturing is facing a turbulent era with CN and digital transformation on the horizon. Hence, we always value "honing people for the coming era". With our "Genba First" mindset, based on our experiences by always being present on-site, We will give you presentation about value for honing people.



TOYOTA MOTOR CORPORATION

Executive Fellow **KAWAI Mitsuru**

Special Lecture

J E M

International Conference Room, Conference Tower 7F November 8 (Fri.) 13:00~14:00

Cross-Industry Collaboration in Action: Exploring Open Innovation Management with JSOL at Maeda Corporation Fantasy Marketing Department

The Maeda Corporation Fantasy Marketing Department began in 2003 as a cross-industry co-creation public relations activity and achieved success by being adapted into stage plays and movies. Together with JSOL employees, we will discuss the management methods and idea generation techniques that create something from nothing as concrete examples of co-creation



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Maeda Corporation Executive Officer
Department of Transportation Systems Engineering,
College of Science and
Technology, Nihon University, Visiting Professor
IWASAKA Teruyuki



JSOL Corporation
Engineering Technology Div.
Section manager **ODA Hodaka**



JSOL Corporation
Engineering Technology Div.
AMANO Shinichi

Special Lecture

J E M

Reception Hall, Conference Tower 1F November 10 (Sun.) 10:30~11:30

Development of Space Robots

With expansion of the space exploration, the robot application, "Service Robot in Space" (SRS), providing service becomes popular to a human in space. Several JAXA space robot systems will be presented and the attendees will understand the process how to manufacture the complicated systems.



JAXA, Human Spaceflight Technology Center

Senior Manager **OTSUKA Akiko**

11:00~11:30

J E M

Daily Life of Women in STEM (Monozukuri)

Through the panel discussion among women in STEM (engineer in private company, researcher in university and/or engineer in research organization), attendees can catch the clue to enter the manufacturing world.



JAXA, Human Spaceflight
Technology Center

Senior Manager **OTSUKA Akiko**



Astroscale
Guidance, Navigation Control Engineer

IWASAWA Aria



Nihon University,
College of Science and Technology,
Department of Aerospace Engineering

Associate Professor **TAKAHASHI Akiyo**



Yamaguchi University,
Department of Mechanical Engineering,
Graduate School of Sciences and
Engineering for Innovation

Associate Professor **BANNO Ayana**



IHI AEROSPACE Co., Ltd.,
Corporate Planning Department,
Business Development Group

General Manager **FUKUNAGA Mihoko**

IMEC2024 (The 20th International Machine Tool Engineers' Conference)

Oral Session

J E Fees required

Reception Hall A, Conference Tower 1F November 7 (Thu.) 12:30~18:00/November 8 (Fri.) 13:00~18:00

Overall theme "Manufacturing technology to create future societies"

Various speakers from Japan and overseas give the speeches on the latest technology trends in four sessions, "Challenges and the future of manufacturing towards a sustainable society", "Digital technology changing the future of manufacturing industries", "Continuously evolving automation technology", "Machining technologies for new value creation".



For the registration and inquiries for Oral Session

Japan Machine Tool Builders' Association IMEC Office

+81-3-3434-3961
<https://www.jmtba-imec.jp/>
Email: imec@jmtba.or.jp

Top Seminar by Machine Tool Manufacturers for Students

Free of charge Students only

International Conference Room, Conference Tower 7F November 9 (Sat.) 12:30~15:10

*A networking event with companies will be held after the seminar.



For inquiries for the Seminar

Technical Dept., Japan Machine Tool Builders' Association

+81-3-3434-3961
<https://www.jmtba.or.jp/news/news2024/>
Email: topseminar@jmtba.or.jp



Lectures / Seminars in AM Area

South Hall 1 - Organizers Main Stage

November 5 (Tue.)

13:00 | 14:00 **Changing The Future of Die Casting Leads to the Change of Metal AM of Mold Manufacturing** J

NIHON SEIKI Co., LTD.
Managing Director **MATSUBARA Masato**

14:00 | 16:00 **Western companies tackling the challenges of AM head-on** J
E
M

14:00 | 14:30 **Challenges of Adopting Large Metal Powder Bed Fusion Printers**

Additive Industries
Account Manager **Tim Julsing**

14:30 | 15:00 **A Multi-Grid Modeling approach to thermomechanical simulation of AM parts**

PanOptimization LLC
Principal Engineer **Tyler Nelson**

15:00 | 15:30 **Software-defined inspection with industrial X-ray CT**

Lumafield
Co-Founder and Head of Product **Andreas Bastian**

15:30 | 16:00 **Sustainable Manufacturing for a Circular Economy**

Continuum Powders
President - Asia Pacific **Phil Ward**

November 6 (wed.)

13:00 | 16:15 **AM Seminar by Japan Machine Tool Builders' Association** J

13:00 | 15:15 **Introduction of latest technology AM equipment manufactures**

⟨Presenters⟩ SIEMENS K.K., C&G SYSTEMS INC., MITSUBISHI ELECTRIC CORPORATION, YAMAZAKI MAZAK CORPORATION, OKUMA CORPORATION, DMG MORI CO.,LTD., JEOL LTD., MATSUURA MACHINERY CORPORATION, SODICK CO., LTD.

15:15 | 16:15 **Panel Discussion**

⟨Facilitator⟩ Prof. Dr. **FURUMOTO Tatsuaki** (Kanazawa University)
⟨Panelistr⟩ Prof. Dr. **SASAHARA Hiroyuki** (Tokyo University of Agriculture and Technology) and Seminar Presenter

November 7 (Thu.)

10:00 | 12:00 **The latest status of social implementation of Japanese 3D printers (Morning session)** J

10:15 | 11:10 **Developments and Prospects of Next-Generation Industrial 3D Printers - Laser Beam System -**

TRAFAM/Kindai University
President/Emeritus Professor **KYOGOKU Hideki**

11:10 | 12:00 **Research and Development in Electron Beam type Additive Manufacturing**

New Industry Creation Hatchery Center, Tohoku University
Professor Emeritus (Institute for Materials Research) **CHIBA Akihiko**

November 7 (Thu.)

13:00 | 16:00 **The latest status of social implementation of Japanese 3D printers(Afternoon session)** J

13:00 | 13:20 **Trends in the machine parts and tooling industry and expectations for additive manufacturing**

Ministry of Economy, Trade and Industry
Manufacturing Industries Bureau
Machine Parts and Tooling Industries Office
Manager **HOSHINO Masashi**

13:20 | 13:50 **Applications of the domestic sand casting 3D printer "SCM-1800" to the production of general industrial machinery parts**

TSURUMI MANUFACTURING CO.,LTD. Technical Division
General Manager **KATSURADA Nobuya**

13:50 | 14:20 **Application example of sand 3D printer "SCM-800 II".**

PROTO CO., LTD.
PRESIDENT **HASEGAWA Yoshinari**

14:30 | 15:00 **Pioneering the future of manufacturing! Latest large-scale metal 3D printer application technology and additive manufacturing for plants and industrial machinery**

JFE Engineering Corporation, Planning Section, Tsurumi Works, Infrastructure Engineering Sector
Manager **MIZUGUCHI Kazuo**

15:00 | 15:30 **3D additive manufacturing development of copper by selective electron beam melting and its application for manufacturing induction heating coils**

NDK Inc.
Department General Manager **OHNUMA Ippei**

15:30 | 16:00 **[GENERAL DISCUSSION] The latest status of social implementation of Japanese 3D printers**

⟨MODERATOR⟩ TRAFAM/Kindai University
President/Emeritus Professor **KYOGOKU Hideki**
⟨PANELIST⟩ Each Presenter

November 8 (Fri.)

10:00 | 11:00 **How the West is working to address the challenges of additive manufacturing** J
E
M

Lead Consultant, Layered Ltd
CEO
Peter Rogers

Additive Industries
Account Manager
Tim Julsing

PanOptimization LLC
Principal Engineer
Tyler Nelson

Lumafield
Co-Founder and Head of Product
Andreas Bastian

Continuum Powders
President - Asia Pacific
Phil Ward

11:00 | 12:00 **ShareLab** J

業務用3Dプリンター / AM技術の情報ポータル

12:00 | 13:00 **Mass Production of AM as a Business** J

TÜV SÜD Japan Ltd.
Additive Manufacturing Expert
NAGANO Chiyo

Free of charge

* Pre-registration is required for lectures and seminars.
* On-site registration is accepted on a space available basis only.

J Japanese (including interpretation) **E** English **M** Multilingual Translation (AI Translation included)

November 8 (Fri.)

13:00 | 16:00 AM utilization starts with automation of overlay welding repair and dissimilar metal coating. **J**



〈Chairmanship〉
Japanese Society of Additive Manufacturing
managing director
SAWAKOSHI Toshiyuki



Ministry of Economy, Trade and Industry
Machine Parts and Tooling Industries Office
Manufacturing Industries Bureau
YONEHARA Makiko

BattleTalk 1 (30 Mins.)

Latest technology and mass production parts with Additive Manufacturing of DMGMORI

DMG MORI CO., LTD.
Operating Officer for R&D In charge of AM
General Manager, AM Department
HIRONO Yoko, P.E. Jp.



BattleTalk 2 (30 Mins.)

Introduction of TNSC's Advanced AM Solution: Wire DED Metal 3D Printers

TAIYO NIPPON SANSCO CORPORATION
Sales & Marketing Dept. Innovation Div.
Innovation Unit
General Manager **ASAI Junichiro**



BattleTalk 3 (30 Mins.)

Latest Technological Trends in the DED-Type 3D Metal Additive Manufacturing Machine, LAMDA

NIDEC MACHINE TOOL CORPORATION
Machining Center Division Development Group 2 Team 5
Team Leader **TAUCHI Hiroyuki**



BattleTalk 4 (30 Mins.)

Future manufacturing using the Wire Laser Metal 3D Printer AZ600

Mitsubishi Electric Corporation Industrial Mechatronics Systems Works
Additive Manufacturing System Design Section
Laser Systems Dept.
Senior Manager **KOBA Ryogo**



BattleTalk 5 (30 Mins.)

Introduction of fine-DED system [ALPION] and application examples

MURATANI MACHINE MANUFACTURE CO.,LTD.
Product Development Department
SAKON Yu



November 9 (Sat.)

10:00 | 11:00 Applications and challenges as repair techniques for metal AM **J**

National Institute of Advanced Science and Technology
Senior Researcher
SATO Naoko



11:00 | 13:00 ShareLab **J**

業務用3Dプリンター / AM技術の情報ポータル



ShareLab

13:00 | 14:00 A Practical Guide to 3D Printing **J**

Japan 3D Printing Industrial Technology Association
Researcher
YAMAGUCHI Kiyoshi



14:00 | 15:00 Technology and Business Trends in Additive Manufacturing and 3D Printing from Global viewpoint **J**

Japan 3D Printing Industrial Technology Association
Managing director / researcher
MATSUOKA Tsukasa



November 10 (Sun.)

10:00 | 13:55 Manufacturing Revolution: Breaking Through Manufacturing Barriers with Additive Manufacturing **J**

〈Chairmanship〉
Value Finder., Inc.
CEO

OYANAGI Hirofumi



10:00 | 10:55 Utilization of metal AM for aluminum die-casting dies

Production Engineering Development Center,
CS Project & Aluminum Engineering Dept. Compressor Div.
TOYOTA INDUSTRIES CORPORATION
Project Leader **SATO Ryosuke**



11:00 | 11:55 The Production of Die-Casting Mold Components Using Multi-Laser AM Equipment and Future Developments

Castec Inc.
Group Leader **HOSOBUCHI Natsumi**



12:00 | 12:55 Giga cast technology trends and die casting technology

Research and Development Department
Die Casting Planning and Development Division RYOBI LIMITED
Chief Advisor **KAMI Shigetake**



13:00 | 13:55 Achievements for mold repair and technology development by 5-axis DED hybrid machine

FUJI CO., LTD.
General Manager of AM Technology Department **YOSHIDA Natsuki**



14:00 | 15:55 [Additive Manufacturing Pioneering New Frontiers in Manufacturing: Unconstrained by Conventional Wisdom] **J**

〈Facilitator〉



Value Finder., Inc.
CEO

OYANAGI Hirofumi



KANAGATA SHINBUN CO.,LTD.
manager

YAMAMOTO Yoshihiro

〈Panelist〉



Production Engineering Development Center,
CS Project & Aluminum Engineering Dept.
Compressor Div.
TOYOTA INDUSTRIES CORPORATION
Project Leader **SATO Ryosuke**



Castec Inc.
Group Leader

HOSOBUCHI Natsumi



Research and Development Department
Die Casting Planning and Development Division
RYOBI LIMITED
Chief Advisor **KAMI Shigetake**



FUJI CO., LTD.
General Manager of AM Technology Department

YOSHIDA Natsuki



NIHON SEIKI Co., LTD.
Managing Director
MATSUBARA Masato



Exhibitor Workshops

Conference Room 605-608, Conference Tower 6F

J Japanese (including interpretation) E English

November 5 (Tue.)	11:00 12:00	605 Conference Room	A1-① W1054 MITSUBISHI MATERIALS CORPORATION	J
		New Endmill High-efficiency, high-precision machining Lecturer:Yuki Matsuoka		
		606 Conference Room	A1-② E5029 Vero Software KK	J
		Introduction of Hexagon solutions (measuring machines, CAD/CAM, CAE) for labor saving in design and manufacturing Lecturer:Yuichi Kondo :Business Development,Metrology & Production Software Business Unit		
	13:00 14:00	607 Conference Room	A1-③ W2004 FIRSSTEC CORPORATION (+81)-72-960-3340	J
		How to use magnetic chucks and improve productivity Lecturer:Yasuhiro NAKAI, CEO Firstec Corporation		
		608 Conference Room	A1-④ S3046 COOL TECH LTD.	J
		Mix alkaline ionized water with cutting fluid for environmental protection! Lecturer:Hiroki Sugioka		
	15:00 16:00	605 Conference Room	A2-① E2043 SHIBAURA MACHINE CO., LTD.	J
		Requirements of precision machining and introduction of the machines that meet them Lecturer:Yu Murofushi		
		606 Conference Room	A2-② W1047 Fuji Die Co.,Ltd (+81)-3-3759-7124	J
		Introduction of the cemented carbide V series for motor core molds Lecturer:Fuji Die Co., Ltd. Technical Development division Materials Development Department Assistant General Manager Kouhei Wada		
11:00 12:00	607 Conference Room	A2-③ S3106 KEIHIN RAMTECH Co., Ltd. (+81)-45-620-6460	J	
	Basic Characteristics of Synchronized Stir Welding and its Prospects Lecturer:IPPEI SATO			
	608 Conference Room	A2-④ W1029 Mizuho Industries Co., Ltd. (+81)-6-6471-4721	J	
	Special surface modification treatment Lecturer:Osawa Fumikazu			
15:00 16:00	605 Conference Room	A3-① E7107 MARPOSS K.K.	J	
	Your first step to machine and process monitoring. Start reducing since tomorrow your tool costs and monitoring your machine Lecturer:Yasuhiro Kurahashi, Group Manager, MMS Technical Development Group			
	606 Conference Room	A3-② E4007 ENEOS Corporation	J	
	Contribution to Carbon Neutrality by Using ENEOS Lubricants Lecturer:Lubricants R&D Department, General Manager, Koji Hoshino, Ph.D.			
11:00 12:00	607 Conference Room	A3-③ E7116 Hexagon Metrology K.K.	J	
	Automation technology in measurement Lecturer:Junichi Goto			
	608 Conference Room	A3-④ AM103 Kanematsu KGK Corp. (+81)-3-5579-5863	J	
	Introduction for JINGDIAO- Precision CNC machine tool Examples of Precision Machining Solutions Lecturer:New Business Promotion HQ New Business Promotion Dept. New Business Development and Technical Sales Support Office			

November 6 (wed.)	11:00 12:00	605 Conference Room	B1-① W1020 OSG Corporation (+81)-533-82-1118	J
		Press conference for OSG new products Lecturer:Tetsuya Mizoguchi, Takahiro Yamamoto		
		606 Conference Room	B1-② W1034 IWATA TOOL Co.,Ltd. (+81)-52-739-1080	J
		Methods and examples of reducing machining time Lecturer:Iwata Masanao		
	13:00 14:00	607 Conference Room	B1-③ E7123 HEIDENHAIN K.K. (+81)-3-3234-7781	J
		Advanced Encoder Technology Lecturer:Mr. Helmut Kugel / Mr. Yuzo Ogata		
		608 Conference Room	B1-④ E6035 ModuleWorks GmbH	J
		Target Digital Factory: Smarter Machines and Digitalization for Solving the Manufacturing Challenges on the Shop Floor Lecturer:Fabian Tarara and Sven Odendahl		
	15:00 16:00	605 Conference Room	B2-① E1089 United Grinding Group Management AG (+81)-566-71-1666	J
		New Laser machining by WALTER Lecturer:Dr. Claus Dold		
11:00 12:00	606 Conference Room	B2-② E7111 EUROTECHNO Inc. (+81)-3-3391-1311	J	
	How to choose the suitable 3D measurement system Lecturer:Fumihiko Ohara (Eurotechno), Soichi Akimoto (Bruker Japan)			

November 6 (wed.)	13:00 14:00	607 Conference Room	B2-③ W2017 THK CO., LTD. (+81)-3-5730-3845	J
		Further developments are expected in the near future of OMNledge Lecturer:THK CO., LTD. Managing Executive Officer Industrial Machinery FA Solution Sales Division FA Solution Sales Division, Head Takuya Sakamoto		
		608 Conference Room	B2-④ E7069 HARTING K.K.	J
		Maintenance Solutions for Machine Tools and Equipment: from Connectors to IoT Products Lecturer:TBD		
	15:00 16:00	605 Conference Room	B3-① E7131 Mitutoyo Corporation	J
		The Future of Manufacturing Opened Up by 3D Measurement Lecturer:Mitutoyo Corporation Fellow Makoto Abe		
		606 Conference Room	B3-② WA002 IHI Corporation	J
		IHI Hauzer and IHI Bernex Advanced Deposition Technologies Lecturer:Masaaki Takizawa, Daniel Schranz		
		607 Conference Room	B3-③ W1035 TANOI MFG.CO.,LTD. (+81)-48-092-1731	J
		What is Robot Machining?! Lecturer:Takeharu Oka		
608 Conference Room	B3-④ AM103 Kanematsu KGK Corp. (+81)-3-5579-5863	J		
Introduction for JINGDIAO- Precision CNC machine tool Examples of Precision Machining Solutions Lecturer:New Business Promotion HQ New Business Promotion Dept. New Business Development and Technical Sales Support Office				

November 7 (Thu.)	11:00 12:00	605 Conference Room	C1-① E4012 FUJI-DENSHI (+81)-72-991-1361	J
		Carbon Neutrality and the Potential of High Frequency Induction Heating Lecturer:Manabu Dohsaka, Genshi Shiota		
		606 Conference Room	C1-② W1057 NS TOOL CO.,LTD.	J
		Effective use of high-precision small diameter end mills to reduce machining errors from 0.01mm to 0.002mm. Lecturer:Satoshi Chida, Manager, Research and Development Division, Development Group, Development Department, NS Tool Co., Ltd.		
	13:00 14:00	607 Conference Room	C1-③ E2008 YKT CORPORATION (+81)-3-3467-1252	J
		USACH's high-efficiency grinding technology for SiC boules and PEMTEC's high speed Precision Electrochemical Machining technology for tungsten carbide and difficult-to-machine materials Lecturer:YKT CORPORATION		
		608 Conference Room	C1-④ E1025 MARUKA FURUSATO CORPORATION	J
		ARUM Inc. Lecturer:TAKAYUKI HIRAYAMA		
	15:00 16:00	605 Conference Room	C2-① W1056 NACHI-FUJIKOSHI CORP.	J
		Introduction to Burrless Series Lecturer:Toshihiro Hoshiba		
		606 Conference Room	C2-② W1058 Oerlikon Japan Co., Ltd.	J
		BALINIT® ALCRONA EVO - A PVD coating for outstanding performance and significant tool cost savings Lecturer:Ivan Iovkov		
	11:00 12:00	607 Conference Room	C2-③ E7119 FARO Japan, Inc. (+81)-52-890-5011	J
		New measurement methods using FARO's 3D measuring devices Lecturer:Koichi Fujinaka		
608 Conference Room		C2-④ E3042 YONEZAWA KOKI CO., LTD. (+81)-3-3703-2131	J	
Traceability Issues and Countermeasures in Manufacturing (Individual Identification by Image Recognition) Lecturer:GAZIRU,INC. PRESIDENT SHIGEKAZU FUKUZAWA				
13:00 14:00	605 Conference Room	C3-① W1039 Sandvik K.K. (Dormer Pramet) (+81)-90-9136-6802	J	
	Introduction to Dormer Pramet Lecturer:Koji Ijuin			
	606 Conference Room	C3-② E7056 Universal Robots (+81)-3-3452-1202	J	
	Introducing PolyScope X, the next gen cobot system development platform Lecturer:TBC			
15:00 16:00	607 Conference Room	C3-③ E5018 ITOCHU Techno-Solutions Corporation (+81)-80-3697-6096	J	
	The new approach for the cutting simulation Lecturer:Eto Hisao			
	608 Conference Room	C3-④ S3021 SKF Japan Ltd.	J	
	Introduction of SKF engineering support and super precision bearings with new materials for high-speed and high-load spindles Lecturer:Koji Kaneko			



AM Area Exhibitor Workshop

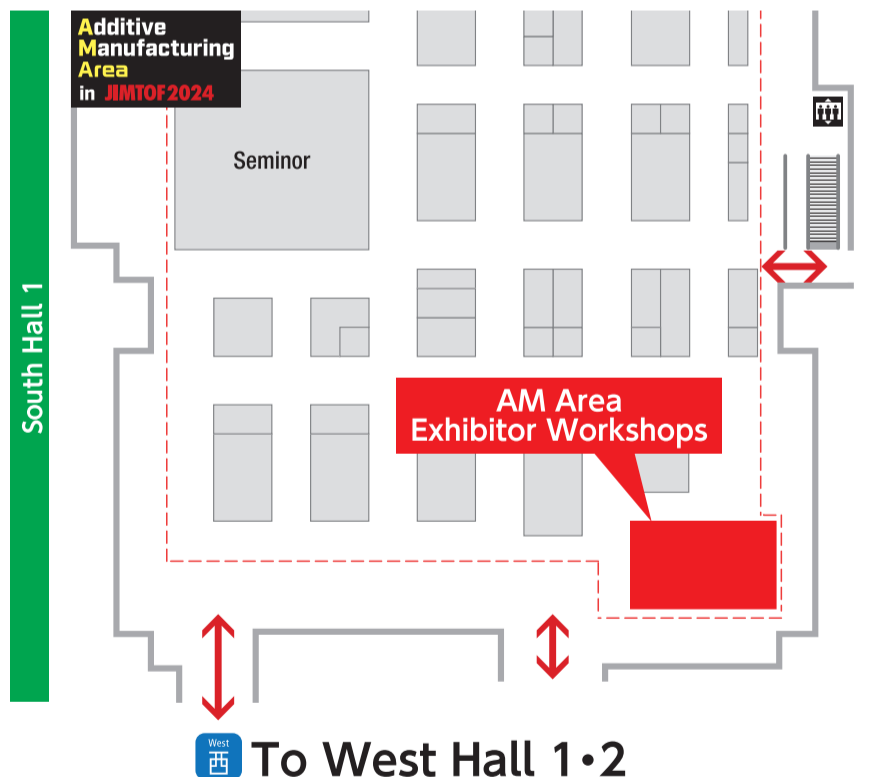
South Hall 1,
Exhibitor Workshops Venue

J Japanese (including interpretation) **E** English

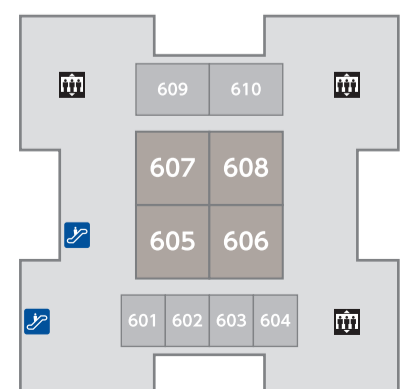
November 8 (Fri.)	11:00 12:00	605 Conference Room	D1-① S2001 FANUC CORPORATION ①Solve labor shortages with FANUC robots! Machining automation using easy to use collaborative robots even for first-time users ②Case Study of Data Improvement at FANUC Factory Lecturer:①Masahiro Morioka ②Yoshihito Sasuga	J
		606 Conference Room	D1-② S2002 Mitsubishi Electric Coporation AI Diagnostic Tool for CNC Machining [NC MachiningAID] ~The Fully Automated Line Aimed by Mitsubishi Electric CNC~ Lecturer:Tetsushi Ishida	J
		607 Conference Room	D1-③ E7132 Blum-Novotest K.K. (+81)-568-74-5311 The imminent reality of the manufacturing site. Start on-machine measurement and automation. Lecturer:Ryo Takamura	J
		608 Conference Room	D1-④ E5019 Beckhoff Automation K.K. Monitoring research for cutting process and research cases at German research institutes by using PC-based CNC Lecturer:Junichi Kouguchi	J
	13:00 14:00	605 Conference Room	D2-① E3034 MAKINO MILLING MACHINE CO.,LTD. Proposal of high value-added die & mold machining realized by the next generation V series Lecturer:Mishima Takahiro	J
		606 Conference Room	D2-② E1072 AMADA CO.,LTD. The next-generation manufacturing pioneered by AMADA's laser welding solution Lecturer:Harumi Nishiyama	J
		607 Conference Room	D2-③ E2043 SHIBAURA MACHINE CO., LTD. New Machining Technology for Manufacturing, ~What is Friction Stir Welding (FSW)?~ Lecturer:Ken Ito	J
		608 Conference Room	D2-④ W2021 NIKKEN KOSAKUSHO WORKS, LTD. Tooling & Rotary Table : Nikken unique Dual-technology Lecturer:Takahiro Kawata	J
	15:00 16:00	605 Conference Room	D3-① E5034 CITIZEN MACHINERY CO., LTD. Support functions to reduce customers' business task. Lecturer:Application Development Section, Development Dept. Manager Kazuyuki Izumi	J
		606 Conference Room	D3-② W1043 DIJET INDUSTRIAL CO., LTD (+81)-6-6794-0160 About deep digging processing technology by carbide shank arbor and high-performance aluminum indexable tools Lecturer:Yoshihide Kurashiki	J
		607 Conference Room	D3-③ W1015 UNION TOOL CO. (+81)-3-5493-1023 Tips for Optimizing Milling Experience : High Precision and Efficient Milling Techniques with Our Latest End Mills Lecturer:Watanabe Masahide Manager Milling Tool Development Section 2nd Tool Engineering Department	J
		608 Conference Room	D3-④ W1071 Kobe Steel, Ltd. PVD coating technology for Cutting and Molding tools Lecturer:Kohei Otsuka	J
November 9 (Sat.)	13:00 14:00	605 Conference Room	E2-① E4056 Data Design Co., Ltd. (+81)-52-953-1588 Proposal for improvement of machined surface quality by cutting force analysis software "Toolzyer" Lecturer:Taiki Izawa	J
		605 Conference Room	E3-① E5022 Computer Engineering & Consulting Ltd. (+81)-3-5789-2455 Proposals for utilizing digital data to accelerate GX and examples of manufacturing DX initiatives Lecturer:Naoki Ichimura	J
	15:00 16:00	606 Conference Room	E3-② WA019 Ayabo Corporation (+81)-566-71-1060 A Quarter Century of Major Change! The Reach of the Latest Coatings and the Time-Delayed Self-Excited Oscillation Model - Cutting Tools Lecturer:Ayabo Corporation Katsushi Fujii, Naoyuki Hirata / OITA UNIVERSITY Takahiro Ryu / KAGOSHIMA UNIVERSITY Kenichiro Matsuzaki	J
		607 Conference Room	E3-③ E5042 CGTech (+81)-3-5911-4688 Fllexible Machining by CAM-POST Lecturer:TODA RACING Co.,Ltd. Shigeru Nakagawa	J
608 Conference Room	E3-④ AM103 Kanematsu KGK Corp. (+81)-3-5579-5863 Introduction for JINGDIAO- Precision CNC machine tool Examples of Precision Machining Solutions Lecturer:New Business Promotion HQ New Business Promotion Dept. New Business Development and Technical Sales Support Office	J		

November 6 (wed.)	11:30 12:30	H2 AM132 NIDEC MACHINE TOOL CORPORATION The Latest Application Examples of 3D metal additive manufacturing machines (powder DED / Binder jetting) Lecturer:Yuiko Egawa	J
		H3 AM105 JAPAN 3D PRINTER Co.,Ltd Factory Floor 3D Printing in Carbon Fiber & Metal Materials Lecturer:Thomas Pang	J
November 7 (Thu.)	11:30 12:30	I2 AM133 SK Fine Co.,Ltd. (+81)-77-566-1201 Ceramic 3D printer business introduction and future prospects Lecturer:Tadakatsu Asano	J
		I3 S2002 Mitsubishi Electric Coporation Introducing efforts towards practical application in the manufacturing field Lecturer:Satoshi Hattori	J
	15:00 16:00	I4 AM117 3D Systems Japan (+81)-3-5798-2500 3D SYSTEMS New Products Introduction Lecturer:Takao Namiki	J
November 8 (Fri.)	11:30 12:30	J2 E4015 Sodick Co., Ltd. (+81)-45-330-4816 Application Examples and Proprietary Technologies for Die-Casting Molds Created by Sodick Metal 3D Printer Lecturer:Nahoko TAWARA	J
		J3 E7024 Volume Graphics Co., Ltd. Hexagon's Additive Manufacturing Solutions Lecturer:Shuhei Kinoshita	J

AM Area Exhibitor Workshop



Conference Tower 6F
Conference Room
605-608

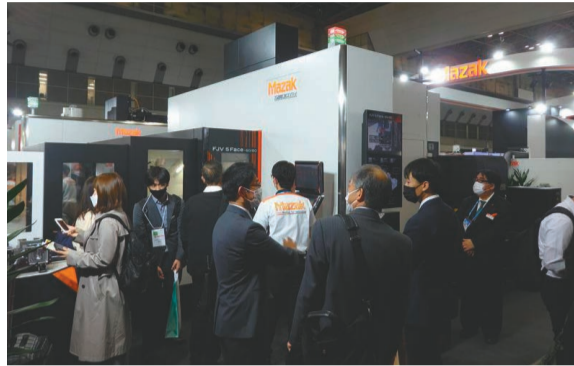


JIMTOF2024 開幕! ~技術のタスキで未来へつなぐ~

JIMTOF2024 begins! ~Technologies passed down to the future offer unlimited possibilities.~

工作機械とその関連機器・技術が集まる「第32回日本国際工作機械見本市 (JIMTOF2024)」が開幕した。今回は「アカデミックエリア」が新設され、学生の来場増加も見込まれる。

The 32nd Japan International Machine Tool Fair (JIMTOF2024) trade show is underway, bringing together machine tools and related equipment and technologies. This year, a new "Academic Area" has been established, and the number of students visiting the trade show is expected to increase.



最新の工作機械とその関連機器・技術が集まる (JIMTOF2022の様子)

The latest machine tools and related equipment/technologies on display (scenes from JIMTOF2022)

海外企業の出展増 過去最大規模で開催

JIMTOF2024のテーマは「技術のタスキで未来へつなぐ」。前回開催の2022年から175社・団体増え、1262社・団体が5743小間出展し、過去最大規模での開催となった。前回と比べて海外企業の出展が特に増え、中国や台湾、ドイツ、スウェーデン、アメリカ、インドなど19カ国・地域から、230社・団体が出展している。

産業界では環境対応やデジタル技術の活用などがキーワードとなっており、これらの関連製品・技術が多く紹介されることが予想される。また単に機械単体を販売する

だけでなく、機械を活用した生産性向上などのサービスを提供する動きが広がっており、総合的なソリューションの提案が期待される。

学生向け「アカデミックエリア」新設

南4ホールには「アカデミックエリア」が新設された。モノづくり業界の次代を担う学生と出展者をつなぐことで、学生のモノづくり業界への興味・関心を高めることが狙い。

汎用旋盤やCAMシミュレーターによるモノづくり体験や、免震車による免震体験などができる企画展示「マシンツール・インフィニティ」が用意されるほか、企業の総務・人事担当者と交流できる「キャリアマッチングスクエア」が設置されている。また、国内の大学や研究機関が研究発表を行う「IMEC(国際工作機械技術者会議)ポスターセッション」も行われる。オープンカフェ内の多目的ステージではミニセミナーやトークショーなどが開催される。

AM製品・技術が集まる特別併催展 も開催

前回に続き、南1・2ホールでは特別併催展「Additive Manufacturing Area in JIMTOF2024」が行われている。53社・団体が最新の積層造形 (AM) 技術を披露する。

More companies from overseas participating, with the largest number of exhibitors ever

The theme of JIMTOF2024 is "Technologies passed down to the future offer unlimited possibilities." With 175 more companies/groups participating than the last JIMTOF in 2022, 1,262 companies and groups are exhibiting in 5,743 booths, making it the largest JIMTOF trade show to date. Compared to the previous show, there has been a significant increase in the number of overseas companies exhibiting, with 230 companies and groups participating from 19 countries and regions including China, Taiwan, Germany, Sweden, the United States and India.

Environmental response and the use of digital technology have been keywords in the industrial world, with many related products and technologies

expected to be introduced. Manufacturers are not just selling machines anymore but increasingly providing services that improve their use, such as improved productivity, from which proposals for integrated solutions are expected.

"Academic Area" for students opens

The "Academic Area" has been newly established in South Hall 4. The aim is to increase students' interest in the manufacturing industry by connecting students who will lead the next generation of manufacturing with exhibitors.

The Academic Area offers Special Exhibit "Machine Tool Infinity," which allows students to experience manufacturing using multi-purpose lathes and CAM simulators and experience seismic isolation in a seismic isolation experience vehicle, and a "Career Matching Square" to interact with exhibitors' general affairs and HR personnel. There will also be an "International Machine Tool Engineers' Conference (IMEC) Poster Session" for Japanese universities and research institutions to present their research. The multi-purpose stage inside the open café will also host mini seminars and talk shows.



新設されたアカデミックエリアで学生と出展者をつなぐ
The New Academic Area connects students and exhibitors

A special display of additive manufacturing products and technologies

Just like the last time, a special display, "Additive Manufacturing Area in JIMTOF2024," has opened in South Halls 1 and 2, with 53 companies and groups exhibiting the latest additive manufacturing (AM) technologies.

台北国際工作機械見本市



TIMTOS

2025年3月3日(月)~8日(土)



台北南港第1、第2展示ホール (TaiNEX 1 & 2)
台北世界貿易センター第1展示ホール (TWTC Hall 1)

www.timtos.com.tw



出展内容

- 金属切削機械 ■ 金属成形機械 ■ 切削工具・ツーリング・アクセサリ ■ ワイヤー・チューブ・シート加工装置
- レーザー加工設備 ■ 溶接・表面処理設備 ■ 検査・測定 ■ AI・制御系統&スマート・マニファクチャリング
- 部品・アクセサリ ■ 革新的応用とソリューション ■ ナショナル・パビリオン

主催者:  台湾貿易センター  台湾機械工業同業公会

30th
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