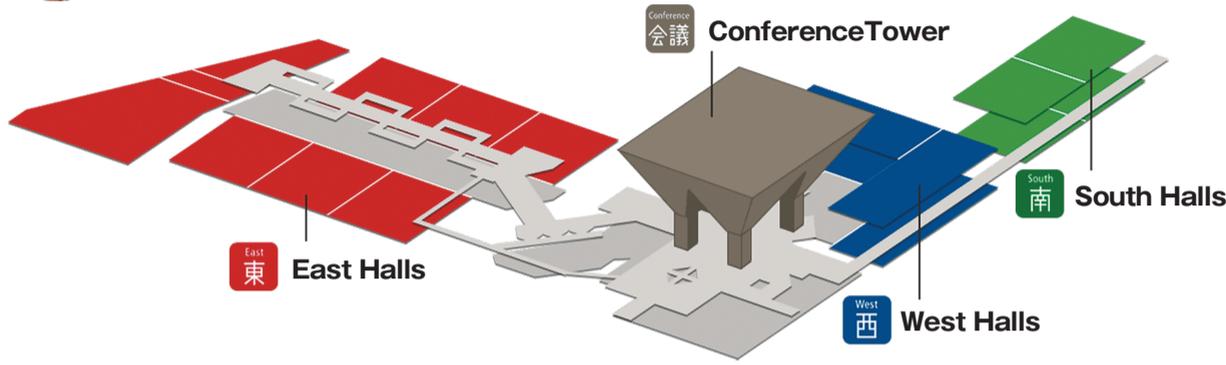




MAP & DAILY NEWS



Looking back on the past 6 days

Today is the last day of JIMTOF2024. The halls showed state-of-the-art machines, technologies and products that will be key to manufacturing going forward, such as proposals of integrated solutions, use of digital technologies, decarbonization and energy-saving approaches, use of robots for automation and labor-savings, and advanced additive manufacturing (AM).

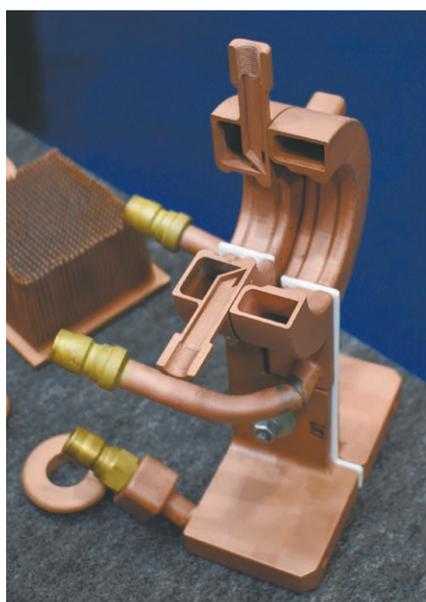
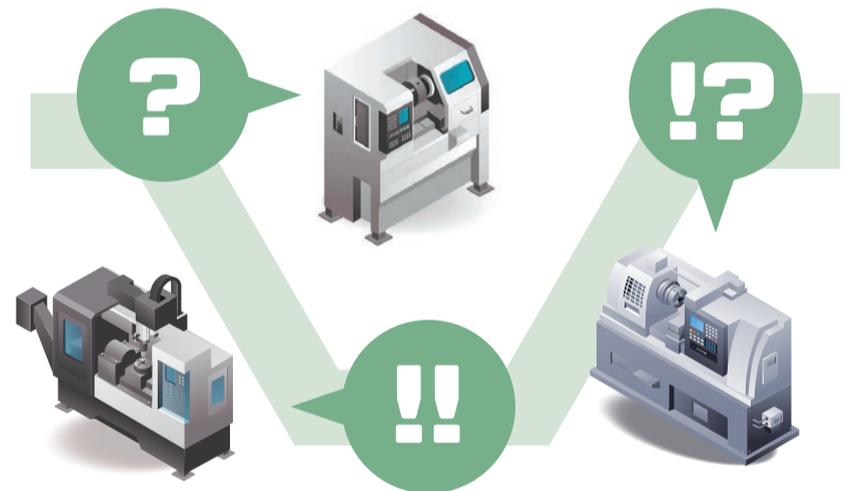


Changing the Image of the Future for Manufacturing, New Trends Toward Value Creation



The Japan Machine Tool Builders' Association organizes the first "Booth Tour" for students interested in the machine tool industry.

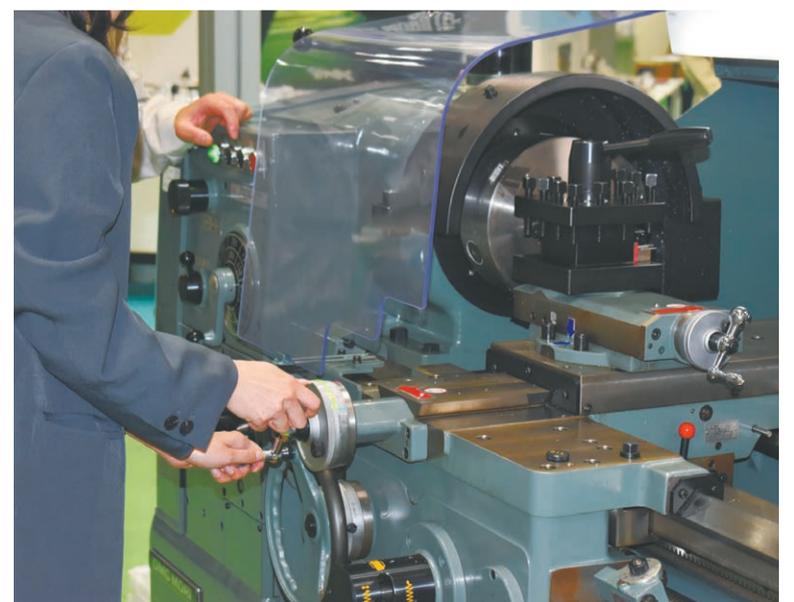
Look for it.



Integrated induction heating (additive manufacturing) coil made by TKE's 3D printer.



Starting with this year's JIMTOF, the venue opens at 9:00 a.m. in the West and South Halls, and 10:00 a.m. in the East Halls



There was also a hands-on experience machining activity using a general-purpose lathe, which was used at the National Skills Competition held in Tokyo.



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

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

Machine tool accessories

Machine tool accessories

Other associated machinery and equipment

Publication

Special Exhibition
Machine Tool Infinity∞
Welcome to the World of Machine Tools,
Carving Out Endless Possibilities

Career Matching Square

IMEC Poster Session

International Information Center

Machine tool accessories

Other associated machinery and equipment

Publication

Metal cutting machine tools

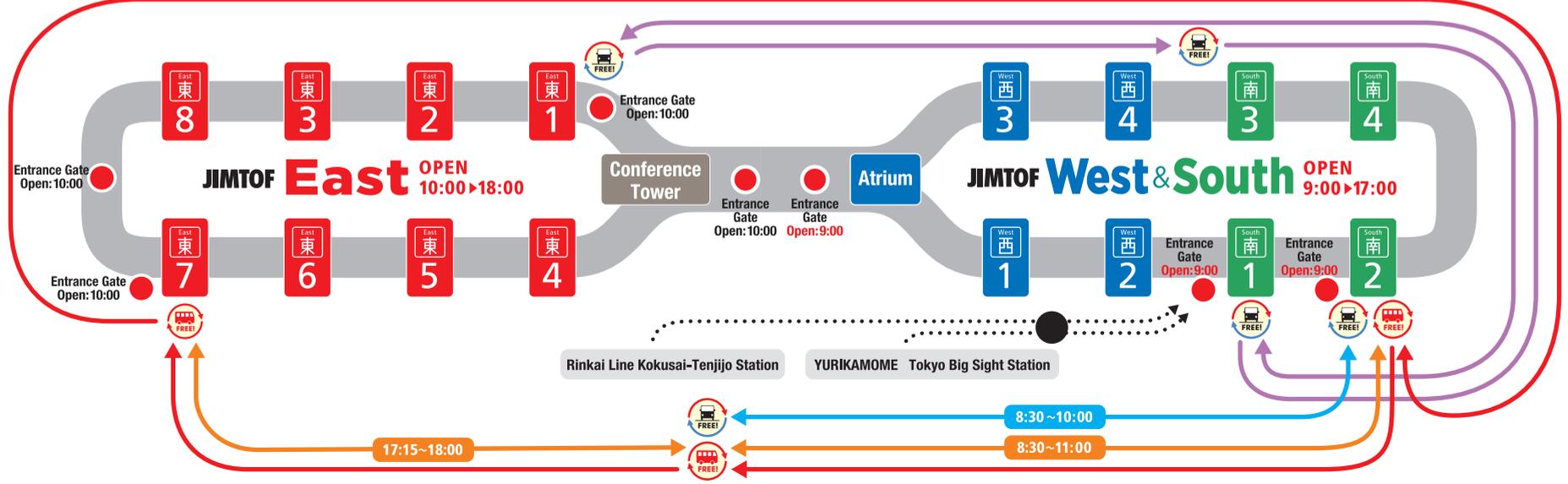
Additive Manufacturing Area

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 10 (Sun.)

 Reception Hall, Conference Tower 1F

10:30 - 11:30

[Special Lecture]
Development of Space Robots
Daily Life of Women in STEM (Monozukuri)

 Additive Manufacturing Area Organizers Main Stage

Manufacturing Revolution: Breaking Through Manufacturing Barriers with Additive Manufacturing

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

14:00 - 15:55

[Additive Manufacturing Pioneering
New Frontiers in Manufacturing:
Unconstrained by Conventional Wisdom]



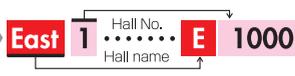
JIMTOF
MAP & DAILY NEWS
will be released daily during JIMTOF2024!
Back issues up to today are also available at Information.
Please note that numbers are limited.





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 cgkcorporation
- 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 FIRSTEC 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 HAMAI 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 HIRAOKA 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 efector 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 & Tessky
- 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.
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J

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- S3095 JCM JAPAN CO.,Ltd.
- E7029 Jeil Mtech Co.,Ltd

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 E7048 JOHOKU CHEMICAL CO.,LTD
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 AM103 Kanematsu KGK Corp.
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 W2011 Kitagawa Corporation
 E1083 KITAISANGYO CO,LTD
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 E1049 Makino Seiki Co.,Ltd.
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 E7052 Masterlink
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 W3075 Meister Incorporated
 S3089 Mena Works Co.,Ltd.
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 E7094 METROL Co., Ltd.
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 E4009 Mikron Switzerland AG, Agno
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 E7105 MITAKA KOHKI CO., LTD.
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 E2042 Mitsui High-tec, Inc.
 WA022 Mitsui Kokuin
 E3033 MITSUI SEIKI KOGYO CO.,LTD.
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 W3113* Morihagurumaseisakusyo
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N

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 E5011 NIIGATA MACHINO TECHN CO.,LTD.
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 W4043 NUNOME ELECTRIC CO.,LTD.

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 W1058 Oerlikon Japan Co., Ltd.
 W3113** OFFICE KIITOS
 W1036 OGASAWARA PRECISION LABORATORY CO. LTD
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 E1059 OHMINE INDUSTRY CO.,LTD
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 E7016 OJIYA SEIKI CO.,LTD.
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P

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 S3051 PRECISION MOTION INDUSTRIES
 WA023 Precision Tool Makers Export Group,Ltd.
 E1088** PRECITRAME MACHINES SA
 E3042-5* Premier Engineering Co.,Ltd.
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S

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 E3017 S.lab Inc.
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 W4083-15 SANJET INTERNATIONAL CO., LTD.
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 E2019 Sanyo Machine Co., Ltd.
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 E4037** Sarix S.A.
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 E7057 Seibu Shoko Co., Ltd
 E6003 SeibuHitec
 E2015 SEIJKOGYO
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 E4026 SENJO SEIKI CO.,LTD.
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 S3030 Shenzhen Danfoo Technology Co., Ltd.
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 E4034 Shenzhen JPT Opto-Electronics Co Ltd
 S3107 Shenzhen Q-mao Precision Technology Co., Ltd.
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 E2043 SHIBAURA MACHINE CO., LTD.
 E1074 SHIBUYA CORPORATION
 E2021 SHIGIYA MACHINERY WORKS LTD.
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 E7045 Shinano Kenshi Co., Ltd.
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 E7148 SHINING 3D Tech Co.,Ltd
 E1057* SHINKO MACHINERY CO., LTD.
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 W1066** SHIN-YAIN INDUSTRIAL CO., LTD.
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 E5008 Siemens
 W1019* SIGA MACHINE TOOL Co.,LTD
 E7109 SIGMA ELECTRONICS Co., Ltd.
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 W3085 Silver Alloy Co., Ltd.
 W3040* SIMOTSU
 E7106* SION DIAMOND Co., Ltd
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 E4046 SOFIX Co., Ltd.
 S3005 SofTool Manufacturing Co Ltd
 S3067 Sokeizai Promotion Council (Ministry of Economy, Trade and Industry)
 E7015 SOKUHANSHA CO.LTD
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 W3004 Sugatsune Kogyo Co., Ltd.
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 W4031 Sumflex Co.,Ltd.
 W1041 Sumitomo Electric Industries, Ltd.
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 W4083-17 SUPER AIR COMPRESSOR TECHNOLOGY CO., LTD.
 E5036 Suzhou Haller Intelligent Equipment Co.,Ltd.
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 E6007 Swiss Technology Co., Ltd
 E5052** SwissChuck AG
 E3032 SYNOWA JAPAN KK
 E2002* system 3R International AB
 E2007* System Engineering Co.

T

E7130 TACC Corporation
 E7131* TACC Corporation
 W4021 TACS CORPORATION
 E5030 TACTX Co.,Ltd.
 W1027** TaeguTec Ltd.
 S3047 TAI CHONG CO., LTD
 E5040* Tainatec.co,Ltd
 W4051 TAISEI KOGYO Co., Ltd.
 E4003-9 Taiwan External Trade Development Council
 W4083-18 Taiwan External Trade Development Council
 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 NIKKANOKOGYO SHIMBUN,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* TOKALOGY 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 Oilanalyst 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* WILLEMIN-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 Yuko 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 SANCO 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



デジタルトランスフォーメーション (DX) / Digital Transformation

機械とデジタル融合 社会・現場課題の解決に加速

Machine and Digital Fusion, Accelerating the Solutions of Social and Workplace Issues

機械技術とデジタル技術それぞれの革新は不離一体だ。人的資源の不足が社会課題化する中、ロボットによる省人化、解析ツールによる手戻りの抑止が、これまで以上に求められる。機械、デジタルを高度に連携させ、課題解決を図る。そんな提案が隆盛だ。

Innovation in mechanical technology and digital technology are inseparable. As the shortage of human resources becomes a social issue, there is a greater need than ever to reduce manpower through robots and prevent rework through analysis tools. Problems are being solved by highly coordinating machines and digital technology. Such proposals are on the rise.

CAEとレーザースキャナーで手作業をデジタルに置換

ヘキサゴンはいずれも自社グループのレーザースキャナーとCAEを融合し、樹脂成形における金型の補正を減らす。樹脂成形は成形品の反り、ひげが発生すると、金型を手作業で補正する職人技が介入する。職人技をデジタルに置換しようとするのがヘキサゴンだ。設計段階にCAEでこれらの不具合のない金型を作り込む。それでも成形品に不具合が生じた際、レーザースキャナーで成形品をスキャンし、設計したモデルデータと比べ、金型に反映する。

CAE and Laser Scanners Replace Manual Work Digitally

Hexagon AB combines its own group's laser scanners with CAE to reduce the need for mold corrections in resin molding. When warping or sink marks occur in resin molding, craftsmen must manually correct the mold. Hexagon is trying to replace craftsmen's skills with digital technology. They use CAE in the design stage to create molds that are free of these defects. If a defect still occurs in the molded product, they scan the molded product with a laser scanner, compare it with the designed model data, and reflect it in the mold.



ヘキサゴンはAMマシニングによる金型補正で手作業を省く Hexagon eliminates manual work by using AM machining to correct die.

デジタルスレッドとデジタルツインで金属AM・ロボット対応

一方、人手不足を背景に中小企業での活用が急速に進むロボットと、普及黎明期の金属積層造形 (AM)。シー

メンスはデジタルスレッドとデジタルツインで、金属AMとロボット対応を進める。デジタルスレッドは製品ライフサイクルにおける製品に関するあらゆるデータを紐付け、管理する。また、システム上で事前検証し工程での不具合、手戻りをなくそうというのがデジタルツインだ。いずれも設計～生産の効率化、省人化につながる。シーメンスは新しい工法であるAMにおいても、設計～生産の広い領域でデジタルツールを網羅する優位性を生かし、デジタルスレッドとデジタルツインを提供している。



シーメンスはAMやロボットにおいてもデジタルツインを活用する Siemens also uses digital twin in AM and robotics.

Digital Threads and Digital Twins for Metal AM and Robotics

Meanwhile, the use of robots is rapidly increasing among small and medium-sized enterprises due to a labor shortage, and metal additive manufacturing (AM) is in the early stages of widespread adoption. Siemens AG is promoting metal AM and robotics with digital threads and digital twins. The digital thread links and manages all data related to products throughout their lifecycle. Meanwhile, the digital twin aims to eliminate defects and rework during processes by verifying design in advance on the system. Both lead to greater efficiency and labor savings from the design to production phases. Even in the new AM method, Siemens is leveraging its advantage of covering digital tools in a wide range of areas from design to production to provide digital threads and digital twins.

加工プログラム作成システムで周辺装置との連携性高める

ほかにも工具研削盤メーカーの牧野フライス精機は、最新の加工プログラム作成システムで自社の工具研削盤の機能を最大化する。新システムは周辺装置との連携性を高められる。例えば、外部の測定機から寸法データを直接取り込み、データ転記の手作業を省く。ほかにもNC装置へのデータ転送速度を1本当たり5秒早くし、また工具データの検索機能を搭載するなど、従来型から大幅に改良している。

Improving Linkage with Peripheral Devices by Machining Program Creation System

Makino Seiki Co., Ltd., a tool grinding machine manufacturer, is also maximizing the functionality of its tool grinding machines with the latest processing program creation system. The new system improves linkage with peripheral devices. For example, it can directly import dimensional data from external measuring machines, eliminating the need for manual data transportation. Other major improvements over the previous model include a data transfer speed to the NC unit that is five seconds faster per transaction and the addition of a tool data search function.



牧野フライス精機は工作機械と周辺装置のデータ連携を強化した Makino Seiki has strengthened the data linkage between machine tools and peripheral equipment.

データ解析と活用を提案 「工作機械関連のソフトウェア・ワークショップ」

Proposal for Data Analysis and Utilization, "Machine Tool-related Software Workshop"

最先端ソフトウェア・計測技術と融合して工作機械の進化を目指す「工作機械関連のソフトウェア・ワークショップ」が、南展示棟のB会議室で7・8日に行われた。両日で11社が自社の技術やサービス、製品を紹介した。

The "Machine Tool-related Software Workshop," which aims to advance machine tools by combining cutting-edge software and measurement technology, was held on November 7th and 8th in Conference Room B of the South Exhibition Hall. On both days, 11 companies introduced their technologies, services, and products.

7日はベッコフオートメーションが、オープン化された制御ソフトウェア「TwinCAT」と、温度やひずみセンサーから得たデータ解析システムのCNC実装により実現できる、低コストで高品質・高精度の加工を提案した。工作機械メーカーで研究に携わる新入社員の男性は「先輩社員がTwinCATを活用しており、勉強に参加を勧められた」と話す。

On the 7th, Beckhoff Automation GmbH proposed an open control software, TwinCAT, and low-cost, high-quality, and high-precision machining that can be achieved by CNC implementation of a data analysis system obtained from temperature and strain sensors. A male new employee involved in research at a machine tool manufacturer said, "My senior colleague uses TwinCAT, so I was recommended to participate in the workshop."

8日に登壇したシーイーシーは「GXを加速させるデジタルデータの利活用提案と、製造DXの取り組み事例」をテーマに発表。導入事例としてファナックとヤンマーパワーテクノロジーの社員を招待し、デジタルデータ活用と標準化展開、DXに向けた取り組みについて具体事例を紹介した。また、メーカーとユーザーの架け橋となるシステムインテグレーターの役割は欠かせないと、存在感の重要性を強調した。

Computer Engineering & Consulting Ltd. (CEC), which took the stage on the 8th, made a presentation on the theme of "Proposals for utilizing digital data to accelerate GX and examples of manufacturing DX initiatives." As examples of implementation, employees from FANUC and Yanmar Power Technology were invited to introduce specific examples of digital data utilization and its standardization, and initiatives toward DX. In addition, CEC emphasized the importance of a strong presence, saying that the role of systems integrators as a bridge between manufacturers and users is vital.



シーイーシーのプレゼンを聴講した工作機器メーカー社員は、「最新CNCと計測の技術に関心があった。とても勉強になった」と話す An employee of a machine tool manufacturer who attended CEC's presentation said, "I was interested in the latest CNC and measurement technology. I learned a lot."

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



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Taiwan International Machine Tool Show
台灣國際工作機械展

Mar. 3 - 7, 2026

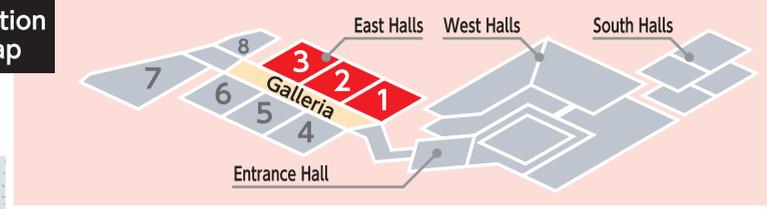
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展出物
金屬切削工作機械、金屬成形工作機械/アクセサリ、コンポーネント、付属品、流体動力及び周辺機器/切削工具、工具保持具、工作物保持具、測定機器、試験機器/スマートマニュファクチャリングシステム、産業用ロボット、制御装置および関連ソフトウェア (CAD、CAM 等)/その他工作機械関連装置・素材・技術及び出版物

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No Photography in halls
 No Smoking on site

Location Map



East Hall 1

Exhibitor Booths:

- YKT (E2008)
- AMADA (E1072)
- Fladder Denmark (E1066)
- MARUKA FURUSATO (E1025)
- Nakaseiki (E1024)
- HSG LASER (E1068)
- MAKANOH-RU KOGYO (E1065)
- cgk (E1064)
- Guangdong Longxin Laser Intelligent Equipment
- SOCO Machinery (E1031)
- HIRO CHIKU (E1030)
- Horima Precision Metalworking (E1026)
- Blue Star R&D (E1019)
- Mamezabu (E1020)
- Nanjing Prima CNC Machinery (E1023)
- FUNASAW (E1017)
- R-GOT (E1021)
- Itaca Japan (E1034)
- ST-LINK (E1028)
- WUHAN NEWWISH TECHNOLOGY
- DURMAZLAR MAKINA SAN VE TIC
- YKT (E2008)
- NK WORKS (E2009)
- Escro (E2006)
- Sanpo Seiki (E2007)
- United Grinding Group Management (E1089)
- EURO TECHN (E1088)
- Bystronic Japan (E1073)
- Freebear Corporation (E1081)
- Tokyo Seimitsu Hatujyoku (E1080)
- koyo giken (E1058)
- Komori Safety Device Laboratory (E1056)
- NUMALLIANCE (E1057)
- Authentec (E1055)
- TRUMPF (E1038)
- E-PLAN (E1035)
- Horitec (E1036)
- ALPHA LASER JAPAN (E1037)
- ASTEC (E1015)
- Chemtec (E1016)
- TOYO (E2005)
- TOYO SEIKI KOSAKUSHO (E2012)
- Vollmer Japan (E2013)
- SCHUNK Intec (E2004)
- Seiko Instruments (E1087)
- TOKYO TAPPING MACHINE (E1086)
- IMAHASHI MFG. (E1085)
- EBA KOGYO (E1084)
- KITAI SANGYO (E1083)
- Samwa Robotics (E1077)
- IKURASEIKI (E1076)
- WADA MFG. (E2018)
- ISHII HYOKI (E2014)
- SEIJO KOGYO (E2015)
- TANI GAWA (E2016)
- Wuhan Raycus Fiber Laser Technologies (E2017)
- Reishauer (E2003)
- KLINGELBERG Japan (E1081)
- MARUEI MACHINE WORKS (E1082)
- ALPSTOOL (E1080)
- NAGASE INTEGEX (E1078)
- IRINO (E1050)
- IRINO KIKO (E1051)
- Kondo Seisakusho (E1050)
- Makino Seiki (E1049)
- Tohshin Technical (E1043)
- HASEGAWA MACHINE WORKS (E1044)
- Nagel Aoba Precision (E1046)
- Nissin Manufacturing (E1045)
- Wuhan Heavy Duty Machine Tool Group (E1010)
- Gutenberg (E1011)
- Kyowa Oil Lubricants (E1008)
- TOYO KENMAZAI KOGYO (E1008)
- FLUJIMOTO YUKA (E1007)
- Heiwa Technica (E1006)
- SANWA KOUJYU (E1004)
- YUSHIRO CHEMICAL INDUSTRY (E1004)
- Kuroda Precision Industries (E2001)
- GF Machining Solutions (E2002)
- SUGINO (E1079)
- TAKAHASHI MACHINERY (E1048)
- KITAMURA MACHINE WORKS (E1047)
- MECTRON (E1001)
- Fuji Honing Industrial (E1002)
- MICRON MACHINERY (E1003)

Facilities:

- Restrooms (Male/Female)
- Japan Precision Machine Association
- Japan Forming Machinery Association
- Staircases
- Wheelchair Accessible
- Smoking Area (2F)

Other:

- Jumbo Taxi Stand (FREE!)
- East Hall 1
- North Arrow

オリジナルメーカーによる

再製造

内面研削盤

Before **After**

東1ホール E1051

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E1079 / AM119
 東1ホール EAST 1HALL 南1ホール SOUTH 1HALL

East 東 East Hall 4・5・6



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

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TEL: 03-3808-1711 FAX: 03-3808-1511

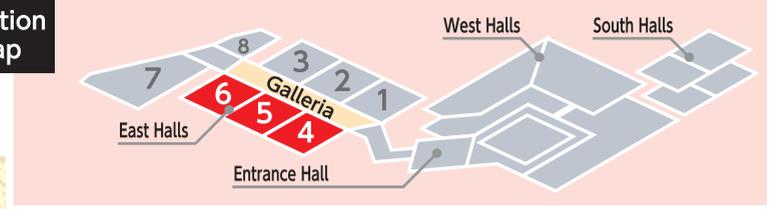
Howa
豊和工業株式会社

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

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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

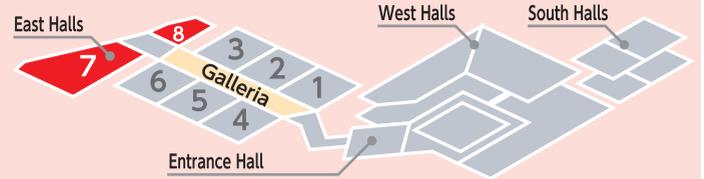
ANCA Machine Tools Japan

50 ANCA YEARS OF INNOVATION

East
東

East Hall 7・8

Location
Map



- Metal cutting machine tools
- Precision measuring machines and instruments / Optical measuring instruments / Testing machinery / Controller and related software (CAD/CAM, etc.) / Other associated machinery and equipment

Jumbo Taxi Touring the Venue

FREE!

East Halls, East Hall 1

To West & South Halls 4F Rooftop

To South Halls 1F, South Hall 1

10:00~17:00

* The bus will take a different route between 8:30 and 10:00 (see "route map" on Page 2 for details)

* The bus runs until 16:00 on the last day of the fair

Shuttle Bus

FREE!

East Halls, East Hall 7

To South Halls 2F, South Hall 2

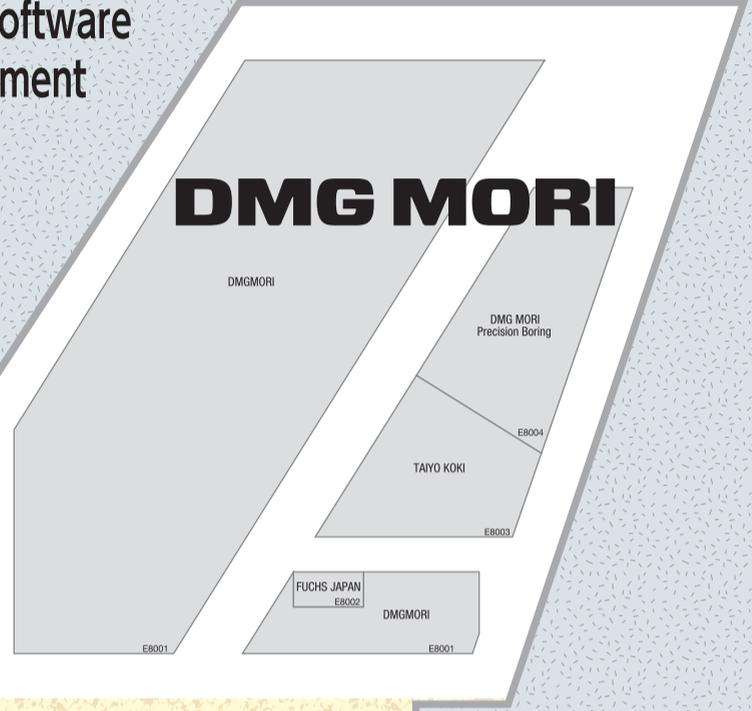
To Rinkai Line Kokusai-Tenjijo Station

11:00~17:15

* The bus will take a different route between 8:30 and 11:00, and between 17:15 and 18:00 (see "route map" on Page 2 for details)

* The bus runs until 16:00 on the last day of the fair

East Hall 8



Link space

To East Hall 1-6

JIMTOF
FOOD FESTIVAL

Shuttle
Bus Stop



East
東 Hall 7

TOYO E7124 NIIGATA RIKEN E7125 HME E7126 Ohway E7127	Champ Casting Industry E7115	TECLOCK E7114	Magnescale E7113	OBISHIKEI SEISAKUSHO E7112	DAI-ICH SOKUHAN WORKS E7017	OJIYA SEIKI E7016	SOKU HANSHA E7015	KOMATANI GAUGE E7014	JAPAN GAUGE E7001
(c/o VDW-Forschungsinstitut e.V.) E7128	Hexagon Metrology E7116	Any Design E7118	EURO TECHNO E7111	Nakamura MFG. E7110	TPR OSAKA SEIMITSU KIKAI E7018	Ametek E7012	Japan Precision Measuring Instruments Manufacturers Association E7013	Waterabe Seimitsu Industries E7002	
YAMAGUCHI SANGYO E7120	PARSONIC Factory Solutions Sales & Engineering Japan	FARO Japan E7119	Metrotec E7120	SIGMA ELECTRONICS E7109	NAGAHAMA SEISAKUSHO E7021	FLUJI TOOL E7020	Mahr Japan E7011	TOKYO BOEKI TECHNO-SYSTEM E7010	DIATEST JAPAN E7003
TACC E7130	Mitutoyo E7131	HEIDENHAIN E7123	MARPOSS E7107	RENISHAW E7026	CKB E7022	Vectrix E7023	Fagor Automation Japan E7008	Kistler Japan E7004	Sangen E7006
NITTO KOGYO E7151	Blum-Novotest E7132	EISEN E7106	CORETECH E7075	EVIDENT E7074	Volume Graphics E7024	Wintech Automation E7025	AWA SPINDLE E7009	Killer Japan E7005	
Horichi Pioneer M&E Technical Development E7150	ASANJIMA GREEN I E7149	MIYAKA KOHKI E7105	OTSUKA OPTICS E7103	CHUO PRECISION INDUSTRIAL E7077	Volume Graphics E7024	Wintech Automation E7025	AWA SPINDLE E7009	Fagor Automation Japan E7008	Killer Japan E7005
SHINING 3D Tech E7148	TAJIMA LIGHT METAL E7147	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
Nichiko Equipment E7146	WINTECH E7145	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
Isamu Paint E7144	KÄRCHER (JAPAN) E7143	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
P&C E7140	Nango E7139	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
YUAN JUN FONG CASTING E7093	AQUA CHEMICAL E7092	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
PETROPLAN E7091	ACO JAPAN E7090	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
ACS E7082	EUCHNER E7081	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
keyence E7059	NATOCO E7038	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047
SAWKE MANUFACTURING E7035	TSUKUBA ENGINEERING E7034	SHORAKU E7102	Nippon Vision Engineering E7100	SOL E7099	SHAN DONG NANO ADVANCED MATERIALS TECHNOLOGY	Polytec Japan E7050	Muratec Frontier E7049	UJIKOKU CHEMICAL E7048	GRAVO TECH E7047

East Hall 7



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)




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- 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

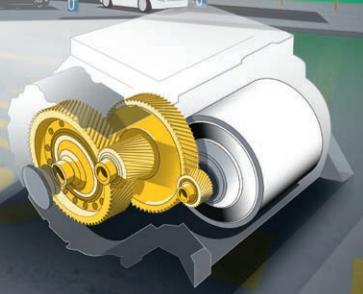


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West Hall 1-2

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**

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

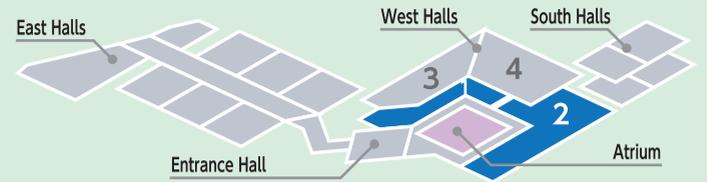
Coolant pressure is boosted to **Max 15MPa** and discharged to prevent chips from wrapping around the workpiece!

BMAL

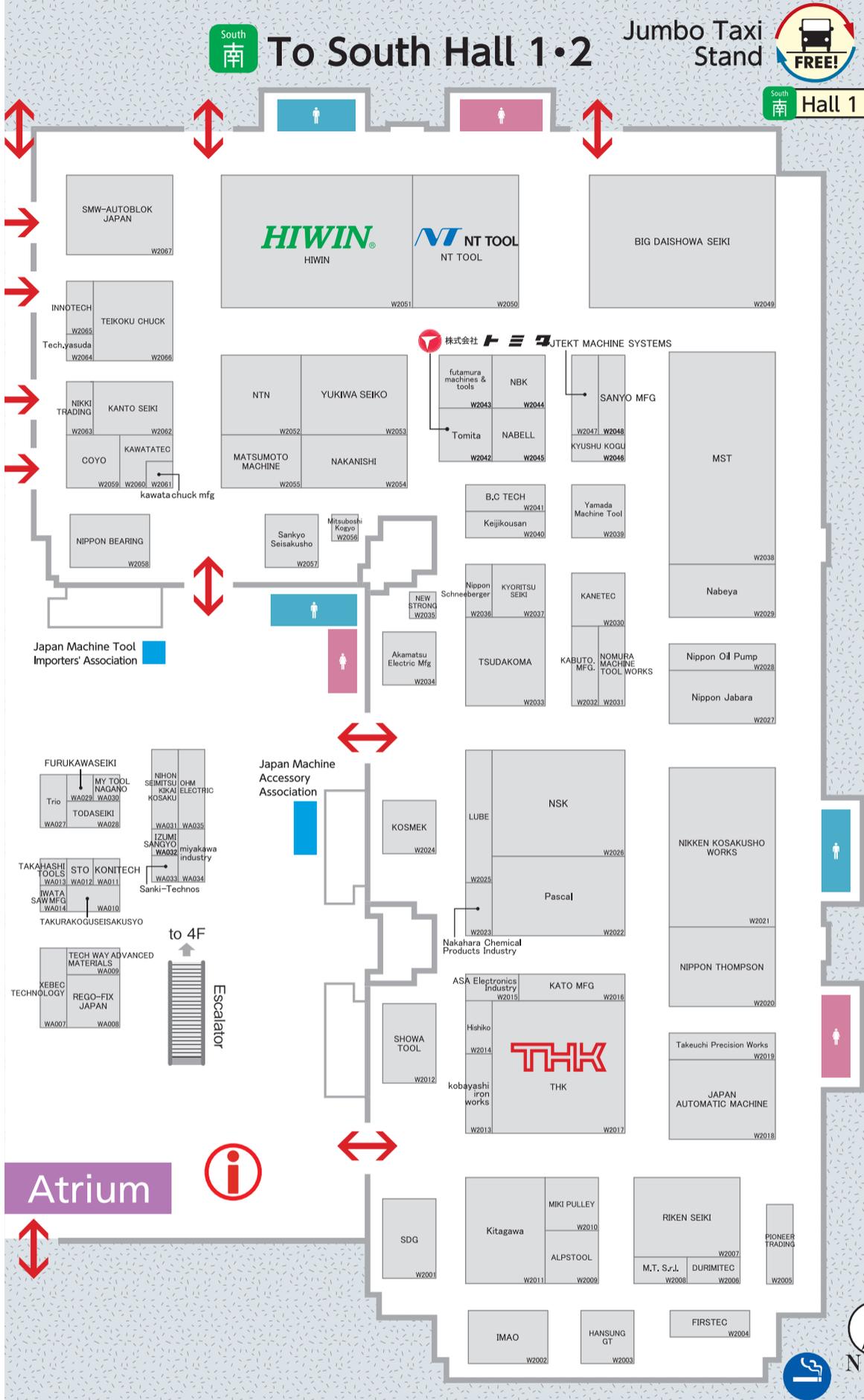
NT TOOL CORPORATION **JIMTOF2024**

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.)

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NEW

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西2ホール W2051

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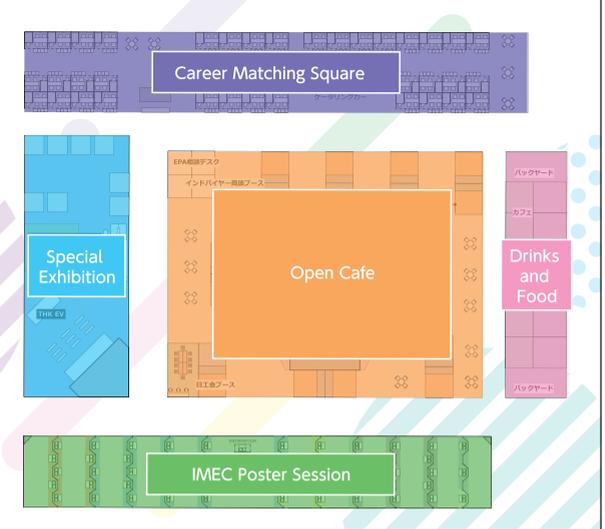
出展詳細



ACADEMIC AREA
アカデミック エリア NEW

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

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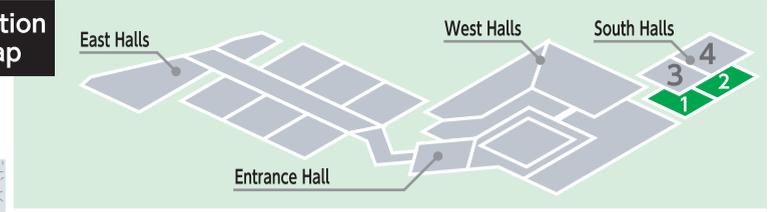


Tipton Corp. JIMTOF2024 West 4Hall W4046

South
南

South Hall 1・2

Location
Map



- Metal cutting machine tools
- Additive Manufacturing Area



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

South
南 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 2

South Hall 1

Shuttle Bus Stop



South
南 Hall 2



West
西 To West Hall 1・2

South
南 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]



サンプルワーク: フクイラブル
モデル提供 / 公立大学法人福井県立大学

Mitsuura
株式会社 松浦機械製作所



環境と技術は、引き算から足し算でイノベーション。

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

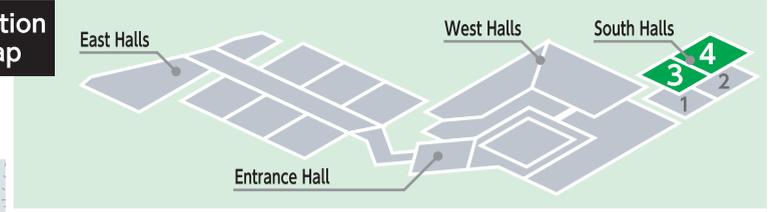
TKE

ティーケーエンジニアリング株式会社

South
南

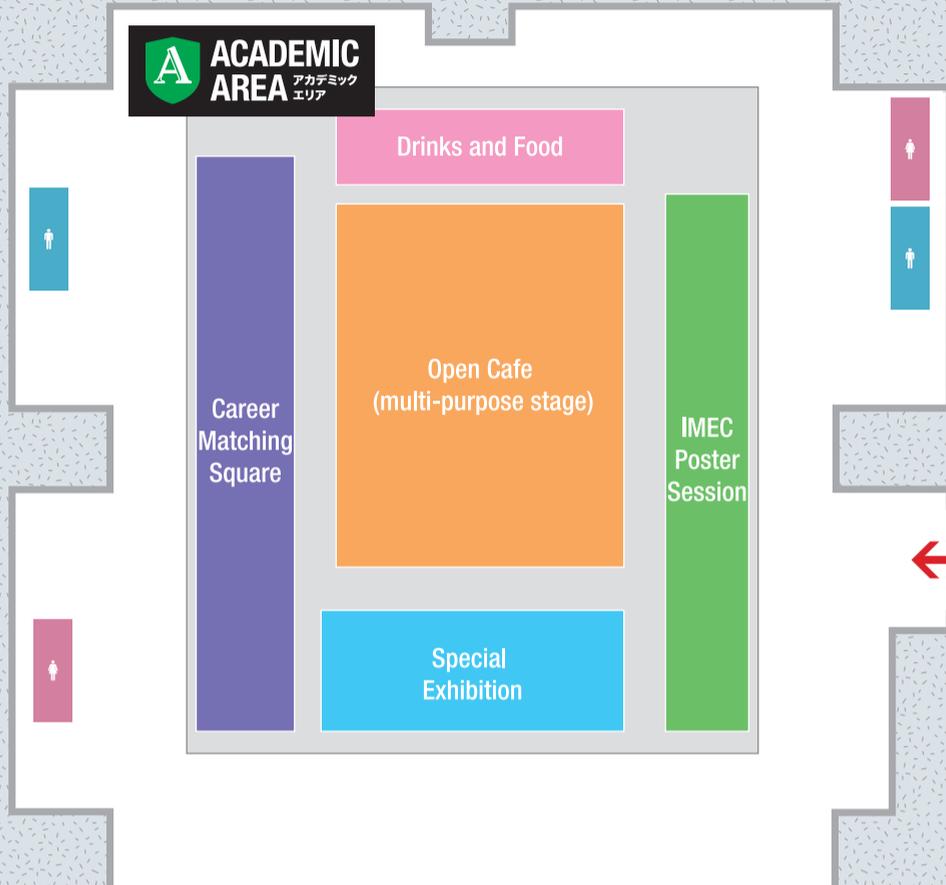
South Hall 3・4

Location
Map

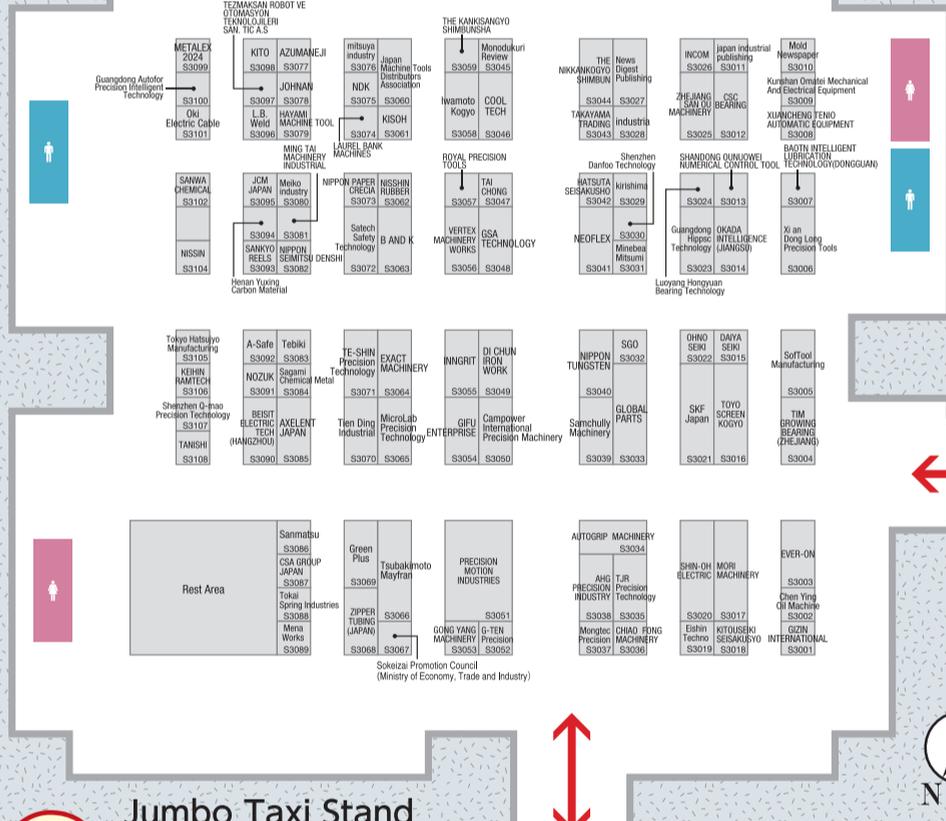


Machine tool accessories/
Other associated machinery and equipment/
Publications

South Hall 4



South Hall 3



Jumbo Taxi Stand

West & South Halls
4F Rooftop

To West Hall 3・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.



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



未来の 工作機械業界を担う

若者の目に映ったJIMTOF

JIMTOF as Seen by the Young People Who Will Lead the Machine Tool Industry in the Years Ahead

JIMTOF2024会場では学生たちの就職活動に役立ててもらおうと、工作機械関連企業の情報発信を行う「アカデミックエリア」が設けられた。出展各企業はビジネスだけでなく、優秀な人材獲得にも注力する必要があるからだ。将来の業界を担う若者の目に、未来の工作機械業界はどのように映ったのか。会場を訪れた学生たちにインタビューした。

At JIMTOF2024, an “Academic Area” was set up for machine tool-related companies to provide information to students with the aim of helping them with their job hunting activities. It is because exhibitors need to focus not only on business but also on recruiting excellent talent. How did young people who will lead the industry in the future view the future of the machine tool industry? We interviewed students who visited JIMTOF.

会場が広く、企業を周り切れないほどでした。訪れた企業の中でも、ヤマザキマザックのブースの大きさにびっくりです。今回の見学を大学院の授業で提出するレポートに活用するだけでなく、これからの就職活動に生かしていきたいです。

The venue was so large that I couldn't visit all the companies. Out of the companies I visited, I was amazed at how big Yamazaki Mazak's booth was. I want to make use of this visit not only for the report I will submit for my graduate school class, but also for my future job hunting activities.



埼玉大学大学院 理工学研究科 男性
Male Student, Graduate School of Science and Engineering, Saitama University

山形県からクラス全員で来ました。大きなマシンが所狭しと置かれていて、学校設備の工作機械と違う最先端のマシンに心が躍りました。企業の担当者からたくさん話を聞けたため、多くの企業に興味を持つことができたことが収穫です。

We came all the way from Yamagata as a whole class. There were huge machines everywhere. It was so exciting to see these state-of-the-art machines that are different from the machine tools at our school. We spoke with many company representatives, and the result was that we became interested in many companies.



鶴岡工業高等専門学校 機械学科4年 男性
Male Student, Department of Mechanical Engineering, National Institute of Technology, Tsuruoka College

会場規模や出展の多様性に圧倒されました。制御システムを中心に見学していたところ、ファナックの大きなロボットアームが他社ブースでも多く使われていることに気づき、新しい発見がありました。就職先の選択肢が広がりました。

I was overwhelmed by the size of the venue and the wide variety of exhibits. I was mostly visiting control systems and discovered that FANUC's large robot arms were used extensively in other company booths too. The visit expanded my job options.



埼玉大学大学院 理工学研究科 / 機械科学系専攻 機械工学コース 修士1年 男性
1st year Male Student, Mechanical Engineering Course, Department of Mechanical Science and Engineering, Graduate School of Science and Engineering, Saitama University

教授からJIMTOFを紹介され、初めて同級生と一緒に来場しました。まず驚いたのは会場の広さです。焦点を合わせるが大変になるくらいでした。たくさんの企業が出展しているので、将来の選択肢を広げるまたとない機会となりました。

My professor told us about JIMTOF and I visited for the first time with my classmates. The first thing that surprised me was the size of the venue. It was almost hard to focus on any one thing. There were so many companies exhibiting, so it was a great opportunity to expand my options for the future.



上智大学大学院 理工学研究科 / 機械科学系専攻 修士1年 女性
1st year Female Student, Department of Mechanical Engineering, Graduate School of Science and Technology, Sophia University

大学の設備にはない、複雑な3次元(3D)形状の工作物を、優れた精度で加工できる5軸制御立型マシニングセンターの高い性能に驚きました。将来は高品質な一品モノの楽器を製造するような工作機械に携わってみたいです。

I was amazed at the high performance of a standing 5-axis vertical machining center, which can machine complex 3D workpieces with extreme precision. This is something the equipment at my university cannot do. In the future I would like to be involved in machine tools that produce high-quality, one-of-a-kind musical instruments.



明星大学 理工学部 総合理工学科2年 男性
2nd year Male Student, Department of Interdisciplinary Science and Engineering, School of Science and Engineering, Meisei University

THKのブースで目にした免震体験車のデモンストレーションの迫力を目を見張りました。来春からは社会人としてメーカーに勤務します。就職活動を控える後輩には、JIMTOFは企業研究のための大切な機会となることを伝えたいです。

I was completely taken by the dramatic demonstration of the seismic isolation experience vehicle that I saw at THK's booth. I will start working for a manufacturer next spring. I want to tell younger students who are about to start their job hunting activities that JIMTOF is an important opportunity for researching companies.



慶応義塾大学 理工学部4年 女性
4th year Female Student, Faculty of Science and Technology, Keio University

ポスターセッション

Poster session

ポスターセッションを侮るなかれ。南4ホールでは、大学などの研究機関が工作機械関連の研究成果をポスター形式で発表する「IMEC(国際工作機械技術者会議)ポスターセッション」が実施された。会場には企業の研究開発担当者が多数訪れ、最先端の研究を自社の開発製品に応用しようと説明員の話に興味を寄せた。

東京科学大学(旧東京工業大学)工学院機械系・田中智久研究室は、曲面薄板材に適用可能なボールバニシング加工システムの開発をテーマに発表。神谷凌孔(修士課程2年)さんは「部品両面からプレスすることで、薄板部品加工時に変形する欠点を克服した。自由曲面部品にも適用できる」と胸を張る。企業側の関心も高く「想像よりも多くの企業研究者が訪れてくれた」(神谷さん)と手応えを感じた。

ポスターセッションを産業界とのつながりの糸口に参加する研究機関もある。人工知能(AI)による研削工具作業面の定量的評価について展示する佐世保工業高等専門学校(長崎県佐世保市)の川下智幸教授は、「大手工作機械との共同研究が実り、解析ソフトウェアが製品化できた。産業界向けに発表する機会は非常に重要だ」と強調した。

IMECポスターセッション 研究機関と産業界つなぐ IMEC Poster Session, Connecting Research Institutes and Industry

Don't underestimate the poster session. In South Hall 4, the IMEC (International Machine Tool Engineers' Conference) Poster Session was held, where universities and other research institutes presented the results of their machine tool-related research in poster format. Many corporate R&D personnel visited the venue, and were interested in the talks of the presenters, hoping to apply cutting-edge research to their own products developed in house.

The Tomohisa Tanaka Laboratory of the Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo(formerly Tokyo Institute of Technology) made a presentation on the theme of developing a ball burnishing processing system that can be applied to curved thin plate materials. Ryohkoh Kamiya (a second year master's student) proudly stated, "By pressing the parts from both sides, we have overcome the drawback of deformation during processing of thin plate parts. It can also be applied to free-form surface parts." There was also a high level of interest from companies, and Kamiya felt a sense of accomplishment. "More corporate researchers came than we expected," he said.

Some research institutes are participating in



the poster session as a way to connect with industry. Professor Tomoyuki Kawashita of National Institute of Technology, Sasebo College (Sasebo, Nagasaki Prefecture), who exhibited a quantitative evaluation of grinding tool working surfaces using artificial intelligence (AI), emphasized, "We were able to commercialize analysis software thanks to our joint research with a major machine tool manufacturer. Opportunities to present research results to industry are extremely important."

三和商工株式会社
SANWA SHOKO CO.,LTD.

西4ホール
West Hall 4
W4035

金型補修もプラントメンテナンスも全方位対応
All-round support for mold maintenance and plant maintenance

三和商工は金型補修機器を製造販売しています。また、金型補修の技術と経験を生かし、業種の垣根を越えた効率化を図るご提案をいたします。「歪みがなく、補修後の寿命が長い金型補修の技術」はプラントメンテナンスや金属加工分野にも活用されています。JIMTOFでは超高精度肉盛溶接機、放電被覆装置や各種省力化機器のほか、新開発の溶接材供給機の試作品を展示します。ご興味をお持ちの方は、ぜひお越しください。



We manufacture and sell mold maintenance equipment. In addition, we utilize our technology and experience in mold maintenance to propose ways to improve efficiency across industry boundaries. Our mold maintenance technology, which is distortion-free and has a long life after repair, is also used in plant maintenance and metal processing. At JIMTOF, we will be exhibiting Ultra-precision Mold Padding Welder, Discharge Deposition Machine, various labor-saving devices, and a prototype of a newly developed welding material supply machine. If you are interested, please come and visit us.

E-MAIL

contact@sanwashoko.co.jp

株式会社三協リール
SANKYO REELS, INC.

南3ホール
South Hall 3
S3093

ホースやコードを巻き取るリールの専門メーカー
Hose / Cable reel specialist

1968年から半世紀以上リールと向き合い、安全で快適な作業環境を提供するべくTRIENS (トライアンス) ブランドとしてサイズや用途に豊富な品ぞろえのリールを取りそろえています。海外にも製造・販売拠点があり、世界150カ国以上のあらゆる産業で活用され、お客様の声にお応えして、さまざまなものを巻き取ってきました。展示会ではスパイラルホースに代わる新製品など、安全で効率的な製品を多数出展しています。南棟4Fの南3ホールでお待ちしています。



Since 1968, for over half a century, we have been dedicated to manufacturer reels under the TRIENS brand to ensure safe and efficient working environments by offering a wide variety of sizes and types. With manufacturing and sales locations abroad, our reels are used in over 150 countries across various industries. Responding to our customers' needs, we have continuously developed solutions for a wide range of applications. At this exhibition, we are showcasing numerous safe and efficient products, including new alternatives to spiral hoses. We look forward to welcoming you at South Building, 4th floor, Hall 3.

E-MAIL

info@triens.jp



JIMTOF2024 会場ピックアップ
What Did You Discover at JIMTOF2024?



いよいよ最終日自慢の製品・技術をアピール

The final day is here!
Many products and technologies have been promoted.

連日、多くの来場者でにぎわうJIMTOFも、最終日となった。各社とも見本市に向けて開発した自慢の製品・技術に手応えを感じている。

The final day of JIMTOF, which has been bustling with visitors every day, has come. Each company is feeling confident about the products and technologies they have developed for the trade fair.



マイクロレベルで位置調整できる4モーター内蔵の電動チャック
An electric chuck with four built-in motors that can adjust the position at a micro level



連日、多数の来場者が押しかけた
A large number of visitors flocked to the fair every day



各社は協働ロボットでの自動化を提案
Each company proposes automation using collaborative robots.



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

長時間大型ワーク加工を
多彩な機能で自動化・効率化

軽量＆コンパクトな機体で
難削材の微細精密加工実現

精密切削加工の自動化に向け
多彩なシステムをご提案



リニアモータ駆動
超精密
ワイヤ放電加工機

AX350L iG+E



リニアモータ駆動
高速・高性能
精密形彫り放電加工機

AL40G+



リニアモータ駆動
高速・高性能
大型ワイヤ放電加工機

ALN800G iG+E



New Model

リニアモータ駆動
フェムト秒レーザー加工機

LSP4040



リニアモータ駆動
マシニングセンター
& オートワークチェンジャ

UX650L & SR12

※ 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。



株式会社 ソディック



JIMTOF2024
特設サイトへは
こちらから
GO!

レポート
Report

大型EV部品加工に焦点～独自技術で解決策提示

Focusing on Machining of Large EV Parts, Providing Solutions with Unique Technologies

第32回日本国際工作機械見本市 (JIMTOF2024) が最終日を迎えた。会場では加工工程の集約や自動化、自動車の車体構造部品を一体成形する「ギガキャスト」に対応した工作機械やロボット、人工知能 (AI) 技術など、多彩な製品やサービスが集結している。今回のJIMTOFを振り返りつつ、労働人口の減少や環境負荷低減といった社会的な課題に対する各社の解決策 (ソリューション) をまとめた。

The 32nd Japan International Machine Tool Fair (JIMTOF2024) has reached its final day. A wide variety of products and services are on display at the fair, including machine tools and robots for integrating and automating machining processes, and Gigacasting, a process that integrally molds automotive body structural parts, as well as artificial intelligence (AI) technology. Looking back on this year's JIMTOF, we have summarized each company's solutions to social issues such as a declining workforce and reducing environmental impact.

2主軸搭載ターニングセンター 国内初公開

DMG森精機は5軸・複合加工機、金属積層造形 (AM) 機による工程集約、生産性向上に貢献する自動化システム、グリーン・トランスフォーメーション (GX) の取り組み、情報の収集や分析を行うデジタルソリューションを紹介している。

工作機械では二つの主軸を搭載したターニングセンター「NLX2500/700 2nd Generation」を国内で初めて公開。NLX2500シリーズは同社のベストセラー機で、第5世代として全面改良した。右の主軸も左の主軸と同等の10インチチャックを搭載できるようにし、左右両面での連続加工を実現。刃物台ではミーリング能力を同社従来機比40%高め、マシニングセンター (MC) と同等の性能を備えた。

主軸に棒状のワーク「バー材」を通す直径115mmの大貫通穴径を設けたほか、バー材を供給する「バーフィーダー」と組み合わせることで夜間の無人運転などにも対応する。栗谷龍彦執行役員は「バー材からMC加工が可能で、さらなる自動化を実現できる」と強調する。



DMG 森精機「NLX2500/700」
DMG MORI, NLX2500/700

アルミ加工機充実

電気自動車 (EV) 向けのラインアップの充実に注力しているヤマザキマザックは、ギガキャストで製造したアルミニウム製のサブフレームなど、量産加工に特化した横型MC「FF-1250H」をアピールする。最大で直径1600mm×高さ1100mmの大型のワークを積載可能なチルト・ロータリーテーブルを搭載し、形状が複雑なワークでもワンチャッキングでの多面加工で工程集約を実現する。

また、EVの中・小物部品の加工に最適な立型マシニングセンター「FF-400V/30」も出展。30番テーパの主軸を搭載し、高速・高剛性に特化した構造にした。従来よりもX・Y・Z軸の加減速を向上、サイクルタイムを短縮しつつ、アルミのほか鋳物、鉄系などの重切削もできるようにしている。



ヤマザキマザックの横型 MC「FF-1250H」
Yamazaki Mazak's horizontal MC, FF-1250H

会場でひときわ目を引くのがギガキャストに対応したファナックの新型ロボット「M-1000/550F-46A」だ。ギガキャストで製造した部品の取り出しや、金型から部品を取り出しやすくする離型剤スプレーの用途を見込む。スプレー塗布には精密制御や環境配慮の面からも自動化が求められている。可搬質量は550kgで型締め力1万tクラスのギガキャストで製造した大型部品で使用可能なほか、可動範囲も4・6mのロングリーチを実現。12月に投入し、建設機械や物流倉庫向けにも訴求し大型化需要を取り込む。

AI主軸診断機能 タップにも

オークマは工作機械などの損傷を防止するAI関連の技術の進化した姿を見せている。AIにより機械の主軸軸受の損傷を検知する「AI主軸診断機能」について、従来のミーリング主軸に加え、旋盤主軸を対応させた。突発的な工具破損を防ぐ「AI加工診断機能」もタップ加工向けを新たに開発。いずれも今後、順次展開する。

主軸診断機能は制御装置に搭載したAIが機械の主軸・送り軸に対して異常有無を診断し、異常があった場合にその部位を特定。保全コストを削減する。

また、従来はドリル向けだった加工診断機能では、タップ加工でも加工状態をリアルタイムで診断し、加工中に異常を検出すると工具を自動退避して、突発的な工具破損を防げるようにした。



旋盤用の AI 機能を搭載したオークマの旋盤
Okuma lathe equipped with AI functions for lathes.

スギノマシン (富山県滑川市) は一部改良したウォータージェット切断機「アプレシブ・ジェット・カッター CL」を披露した。切断に用いる超高压水発生ポンプの最大吐出圧力を同社従来機比約1割高め、切断速度を同約8%速めた。

日本で流通する3×6尺 (約910mm×1820mm) の板材の加工に適したモデル。超高压水発生ポンプに使う油圧ポンプの駆動源にサーボモーターを採用したことで、回転数を最適に制御できるようになり消費電力を従来機比30%削減した。ポンプや制御盤などを一つの架台に集約し省スペース化につなげた。

First Public Exhibition of Twin-spindle Turning Center in Japan

DMG MORI Co., Ltd. is showcasing its 5-axis multi-tasking machines, process integration using metal additive manufacturing (AM) machines, automation systems that contribute to improving productivity, its Green Transformation (GX) initiatives, and digital solutions for collecting and analyzing information.

In terms of machine tools, the company unveiled the turning center equipped with two spindles, NLX2500/700 2nd Generation, for the first time in Japan. The NLX2500 series is the company's best-selling machine and has been fully remodeled as the 5th generation. The right spindle can now be equipped with a 10-inch chuck equivalent to the left spindle, enabling continuous machining on both the left and right sides. The milling capacity of the tool post has been increased by 40% compared to the company's previous model, and it has the same performance as a machining center (MC).

The spindle is provided with a large through-hole diameter of 115 mm through which the rod-shaped workpiece (barstock) passes through, and by combining it with a bar feeder that supplies the barstock, it can be operated unmanned at night. Executive Officer Tatsuhiko Kuriya emphasizes that "MC processing is possible from barstock, which allows for further automation."

Full Lineup of Aluminum Processing Machines

Yamazaki Mazak Corporation, which is focusing on expanding its lineup for electric vehicles (EVs), is promoting the horizontal MC, FF-1250H, specialized for mass production machining, such as aluminum subframes cast with Gigacasting. Equipped with a tilt rotary table that can accommodate large workpieces up to 1,600 mm in diameter and 1,100 mm in height, it achieves process integration by performing multi-sided machining in one chucking, even for workpieces with complex shapes.

The company is also displaying the FF-400V/30, a vertical machining center ideal for machining small and medium-sized parts for EVs. Equipped with a No. 30 taper spindle, it has a structure specialized for high speed and high rigidity. Compared to previous models, it has improved acceleration and decel-

eration on the X, Y, and Z axes, reducing cycle times while also enabling heavy cutting of aluminum as well as castings and iron.

One robot that particularly catches the eye at the venue is FANUC's new robot M-1000/550F-46A, which is compatible with Gigacasting. It is expected to be used to remove parts cast with Gigacasting and to spray mold release agents to make it easier to remove parts from molds. Spray application requires automation in terms of precision control and environmental considerations. With a payload of 550 kg, it can be used with large parts cast with Gigacasting, which has a clamping force of 10,000 tons, and it also has a long reach of 4.6 meters. It will be launched in December and will be promoted for use in construction machinery and logistics warehouses to capture demand for larger machines.



ファナック 「FANUC Robot M-1000/550F-46A」
FANUC Robot M-1000/550F-46A

AI Spindle Diagnostic Function for Tapping

Okuma Corporation is showing the evolution of AI-related technology to prevent damage to machine tools, etc. The AI spindle diagnostic function, which uses AI to detect damage to the spindle bearings of machines, is now compatible with lathe spindles in addition to conventional milling spindles. The AI machining diagnostic function, which prevents sudden tool damage, has also been newly developed for tapping. Both will be rolled out in the future.

The spindle diagnostic function uses AI installed in the control device to diagnose the presence or absence of abnormalities in the machine's spindle and feed axis, and if an abnormality is found, identifies the location, thereby reducing maintenance costs.

In addition, the machining diagnostic function, which was previously only available for drills, can now diagnose the machining status in real time, even during tapping. It automatically retracts the tool if an abnormality is detected during machining, preventing sudden tool damage.

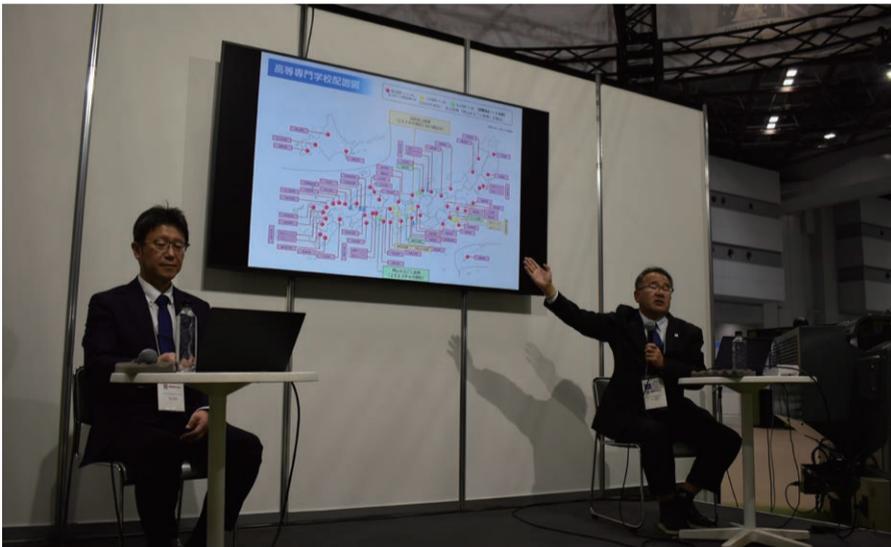
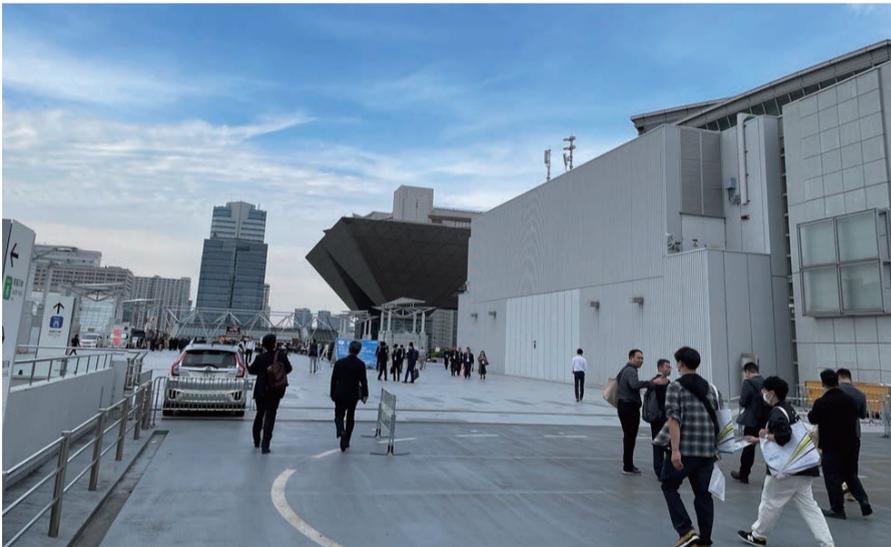
Sugino Machine Limited (Namerikawa, Toyama Prefecture) unveiled a partially improved water jet cutting machine, Abrasive Jet Cutter CL. The maximum discharge pressure of the ultra-high pressure water generating pump used for cutting has been increased by about 10% compared to the company's previous model, and the cutting speed has been increased by about 8%

This model is suitable for processing plate mate-

rials of approximately 910 mm x 1,820 mm that are distributed in Japan. By adopting a servo motor as the driving source of the oil-hydraulic pump used in the ultra-high pressure water generating pump, the rotation speed can be optimally controlled, and power consumption has been reduced by 30% compared to the previous model. The pump, control panel, etc. have been integrated into a single stand to save space.



スギノマシンのウォータージェット切断機
「アブレシブ・ジェット・カッター CL」
Sugino Machine's water jet cutting machine,
Abrasive Jet Cutter CL





会場発! 海外だより 世界のつながりを一層、強固に Overseas News from JIMTOF! Strengthening Global Ties

海外プレスカンファレンス実施 Overseas Press Conference Held

JIMTOF2024に合わせて来日取材を行っている海外メディアや団体関係者に向けたプレスカンファレンスが日本工作機械工業会（日工）と東京ビッグサイトの主催で実施された。稲葉善治日工協会会長は、「機械単体だけでなく、出品された機械を使って得られる生産性向上などサービス提供の動きに注目してほしい」と呼びかけ、「コトづくり」の広がりによる複合的なソリューション提案が増えていると強調した。またデジタル技術の活用拡大と、脱炭素・省エネ関連のアプローチなど、今年のトレンドを解説した。日工から発表された受注見通しや、今年のJIMTOF来場者数などを踏まえ、メディア陣からは「パンデミック前と今年の来場

者比較」や「AIの進展スピードはどう見るか」、「欧州ではEV車の普及が停滞している。日本の工作機械市場もマイナスの影響を受けるのか?」、「インドで工作機械が輸出産業に育つまでどれくらいとみるか」といった、活発な質疑が飛び交った。

参加した米国の雑誌記者は「米国企業と日本企業の考え方の違いなどを感じながら、会場を見ている」とし、帰国後のレポートを準備しているという。

The Japan Machine Tool Builders' Association and Tokyo Big Sight held a press conference for the overseas press and associated groups that are visiting Japan to cover JIMTOF2024. The Association's chairman Yoshiharu Inaba said, "Focus not just on the machines themselves but how manufacturers are providing services,

such as improving productivity using the machines on display," emphasizing that proposals on combined solutions are increasing and expanding services. Inaba also provided commentary on this year's trends such as the increased use of digital technologies and decarbonization/energy-saving approaches. Based on the forecast of machine tool orders that the Association announced, and on the number of visitors to this year's JIMTOF, a lively discussion was held with the members of the press in which they asked about the differences in the number of visitors to JIMTOF before the pandemic and this year, what the association's view is on the speed of AI's development, whether the stagnant sales of EV in Europe is going to negatively affect Ja-

pan's machine tool market, and how long it will take India's machine tool industry to be an export industry.

A magazine journalist from the United States said that they are writing a report to be published after going back to the States, saying "I have been looking at the exhibits and seeing differences such as in the views of U.S. companies and Japanese companies."



世界の成長センター インドの工作機械・製造技術展

World's Growth Center,
Indian Machine Tool and Manufacturing Technology Exhibition

今年のJIMTOFではインド関係者からの発信や商談が随所で目立った。インド工作機械工業会（IMTMA）は、世界経済をけん引する存在として、インド製造業の成長と工作機械関連の投資状況などを説明した。2025年1月にバンガロール国際展示場で開かれる「IMTEX2025」について、20カ国から1100社以上の出展が決まっているとし、世界から12万人程度の来場を見込んでいるとした。

同工業会の副会長であり、表面仕上げ機やバリ取り機などを手がけるGrindMaster Machinesのモヒニ・ケルカーDirectorは、インド政府の強力な製造業振興策などを解説しながら、同展示場の近くに整備される、工作機械関連業種専用工業団地の情報などを紹介。「日本の関連企業にも同工業団地へ進出し、インドのエコシステムを活用してほしい」と呼びかけた。

This year's JIMTOF saw prominent releases and business deals from associates from India. As a leader of world economy, the Indian Machine Tool Manufacturers' Association explained how India's manufacturing is growing,

and the state of investments in machine tool and related industries. It announced that over 1,100 companies from 20 countries are already set to participate in IMTEX2025, which will be held at the Bangalore International Exhibition Center in January 2025, with around 120,000 visitors expected from around the world.

Mohini Kelkar, vice chairperson of the association and Director of GrindMaster Machines which manufactures surface finishing machines and deburring machines discussed the Indian government's strong support measures to the manufacturing industry, as well as about an industrial complex designated for the machine tool and related industries that is set to be built near the exhibition center, saying "We hope Japan's related industries set up in the industrial complex and utilize India's ecosystem."



インド金型協会 日本企業への期待

The Tool and Gauge Manufacturers Association of India,
Expectations for Japanese Companies

インド金型協会（TAGMA INDIA）は、メディア向けに、インドでの金型関連市場（金型や治具など）の概況を解説した。市場規模は現在、28億ドル程度になっており、自動車関連を中心にした成長や、今後のエレクトロニクス関連などの伸長へ期待を発表しつつ、現状は80%を輸入に頼っていることから、インド国内での生産拡大やクオリティーの高い金型技術の投資が必要だと呼びかけた。

また2026年4月開催の「Die & Mould Exhibition」を紹介。DEVARAYA M SHEREGAR会長は、「インドの金型市場の入り口としてこの展示会を活用し、パートナーシップをつくるチャンスにしてほしい」と日本企業の出展へ期待を示した。

The Tool and Gauge Manufacturers Association of India (TAGMA INDIA) a commentary to the media on the overall state of India's mold (molds and jigs)-related markets. The market is now worth around 2.8 billion dollars, growth for cars and related industries is expected, as well as growth

in electronics, and that currently 80% is being imported so more production within India and investments for high-quality molding technologies are needed.

The association also tapped into the "Die & Mould Exhibition" that will be held in April 2026. Chairman Devaraya M Sheregar said, "We hope Japanese companies utilize this exhibition as a gateway to India's mold market and use it as an opportunity to build partnerships," expressing his expectations to Japanese companies.



ブースツアー開催 台湾メーカー16社が製品・ソリューションを発表 Booth Tour Held, 16 Taiwanese Manufacturers Present Their Products and Solutions

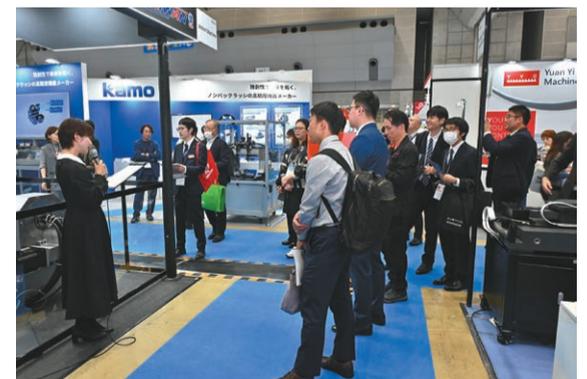


台湾經濟部国際貿易署は、5-8日にブースツアーを実施した。「未来へ受け継ぐ 台湾のモノづくり」をテーマに、機械や部品など台湾の出展メーカー16社が自社製品やソリューションを発表した。4日間で約200人が参加した。徳川機械（detron Machine）はダイレクトドライブモーター搭載のチルト・ロータリーテーブルなどをアピールした。

台湾貿易センター（TAITRA）のブースでは映像や製品展示で出展各社を紹介。TAITRA 東京事務所の鄧之誠所長は、「台湾の機械産業は価格競争力があり、迅速で柔軟なカスタマイズ対応が特徴だ」と力説した。台湾では2025年3月3-8日に台北国際工作機械見本市（TIMTOS2025）が開催される予定。

Taiwan's International Trade Administration, Ministry of Economic Affairs held booth tours from November 5th to 8th. Under the theme of "Passing on Taiwanese Manufacturing to the Future," 16 Taiwanese manufacturers of machinery and parts presented their products and solutions. Approximately 200 people participated over the four days. A Taiwanese manufacturer, detron Machine, promoted its tilt rotary table, etc. equipped with a direct drive motor.

The Taiwan External Trade Development Council (TAITRA) booth introduced the exhibitors by videos and displaying their products. Jason Deng, director of the



TAITRA Tokyo office, emphasized that "Taiwan's machinery industry is price competitive and characterized by its quick and flexible customization response." The Taipei International Machine Tool Show (TIMTOS2025) is scheduled to be held in Taiwan from March 3rd to 8th, 2025.



中小企業の人手不足と生産性向上の課題解決

Solving the Labor Shortage and Productivity Improvement Issues for Small and Medium-sized Enterprises

日本のモノづくりを裾野から支える中小企業。近年、高齢化や少子化の影響で人材確保が難しくなっている。こうした中小企業の悩みを解決しようと、さまざまな自動化・省力化機器やツールが提案されている。

Small and medium-sized enterprises (SMEs) support Japan's "Monozukuri," making things, from the ground up. In recent years, it has become difficult for SMEs to secure human resources due to the aging population and declining birthrate. In order to solve these problems for SMEs, various automation and labor-saving devices and tools have been proposed.

独自技術を駆使した製品をアピール

Promoting Products Utilizing Unique Technology

多品種少量生産品の無人化加工提案

Proposal for Unmanned Processing of High-mix Low-volume Production

近藤製作所（愛知県蒲郡市）は中小企業向け機械加工の自動化システムを提案している。作業台車に協働ロボットを搭載した「ロボ台車」に同社製ワークストッカーを組み合わせてワーク供給と機械への脱着を自動化するシステムを構築した。ロボ台車は手で旋盤などの機械の前まで移動でき、固定・位置決めは機械が標準だが、カメラで機械との位置を把握して自動補正する高機能タイプも用意する。また、機械に装着されているチャックのツメの自動交換システムを搭載すれば、異なるワークサイズにも対応でき、多品種少量品の無人化加工が可能になる。Kondo Seisakusho Co., Ltd. (Gamagori, Aichi Prefecture) is proposing automated machining systems for small and medium-sized enterprises. They have built a system that automates the supply of workpieces and the loading/unloading of workpieces onto/from machines by combining a Robot-Cart, which is a work cart equipped with a collaborative robot, with a work stocker manufactured by the company. The Robot-Cart can be manually moved to the front of machines such as lathes. The fixing and positioning of the Robot-Cart is mechanically done as standard, but a high-performance type is also available that uses a camera to determine its position relative to the machine and automatically corrects it. In addition, if an automatic replacement system for the jaws of the chuck attached to the machine is installed, it can also accommodate different workpiece sizes, enabling unmanned processing of a wide variety of small quantities.



近藤製作所はロボットと自社製ストッカーで自動化を提案
Kondo Seisakusho proposes automation using robots and stockers manufactured in house.

切りくずの問題を高圧クーラントで解決

Solving Chip Problems with High-pressure Coolant



エヌティーツールのMC用ブーストマスター
NT TOOL's Boost Master for MCs

エヌティーツール（愛知県高浜市）はクーラント増圧ツール「ブーストマスター」2機種を効率化、自動化ツールとしてアピールしている。旋盤用の「同BMAL型」はクーラントを最大15MPaに増圧・吐出することで、加工中の切りくずの分断を促し、加工対象物への切りくず巻き付きを防ぐ。また、マシニングセンター（MC）用の「同BMA型」も最大15MPaのクーラント圧力を利用し、加工穴やワークに付着した切りくずを洗い流し除去する。自動工具交換装置（ATC）に搭載可能で、加工の自動化を支援する。

NT TOOL CORPORATION (Takahama, Aichi Prefecture) is promoting two models of its coolant boosting tool, Boost Master, as a tool for improving efficiency and automation. The Boost Master BMAL for lathes boosts and discharges coolant to a maximum of 15 MPa, promoting the breaking up of chips during machining and preventing them from wrapping around the workpiece. The Boost Master BMA for machining centers also uses a maximum coolant pressure of 15 MPa to wash away and remove chips adhering to machining holes and workpieces. It can be installed in an automatic tool changer (ATC), supporting the automation of machining.

多関節ロボット使い切削加工

Cutting Process Using Articulated Robots

ロボット加工技術研究会（岡丈晴会長）に参画する企業の共同ブースではロボットマシニング加工を実演している。大型多関節ロボットの先端に主軸ユニットを取り付け、専用工具でアルミ

ニウムを加工する。加工精度は100分の1mmレベルを実現する。トライエンジニアリング（名古屋守山区）の岡丈晴専務は「ロボット性能が向上し、精密な動作が可能になったことと低抵抗切削工具が高精度加工を実現した」と胸を張る。同工具は独自の刃先形状でワークへの接触面積を小さくして切削抵抗を抑えた。同工具を提供するイワタツール（名古屋守山区）の岩田昌尚社長は「抵抗が少ないため加工時の熱の発生も抑えられる」と明かす。熱の影響を受けないためアルミや薄物の高速加工も可能になり、切削加工の可能性が広がりそうだ。

At the joint booth of companies participating in the Robot Machining Technology Symposium (Chairman: Takeharu Oka), robot machining is demonstrated. A spindle unit is attached to the tip of a large articulated robot, and aluminum is machined using a special tool. Machining precision is achieved at the level of 1/100 of a mm. Takeharu Oka, Managing Director of TRI ENGINEERING Ltd. (Moriyama-ku, Nagoya), proudly stated, "The improved robot performance has enabled precise operation, and the low-resistance cutting tool has enabled high-precision machining." The tool's unique cutting edge shape reduces the contact area with the workpiece, thereby reducing cutting resistance. Masanao Iwata, president of Iwata Tool Ltd. (Moriyama-ku, Nagoya), which provides the tool, said, "Because resistance is low, heat generation during machining is also reduced." As it is not affected by heat, it is possible to machine aluminum and thin materials at high speeds, which is likely to expand the possibilities of cutting.



ロボット加工技術研究会のロボットマシニング加工に多くの来場者が足を止める
Many visitors stop by to see the Robot Machining Technology Symposium's robot machining.

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

次のうち回転工具を使って加工しない機種はどれですか。

- A 放電加工機
- B マシニングセンター
- C 中ぐり盤

Q.2

5軸マシニングセンタ、5軸制御工作機械の「5軸」とは、何を指すのでしょうか。

- A 主軸が5本
- B 機械の送り軸が5軸
- C 機械の設置が5本足

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





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 - 15:00 Technology and Business Trends in Additive Manufacturing and 3D Printing from Global viewpoint
14:00		
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		11:00 - 11:55 The Production of Die-Casting Mold Components Using Multi-Laser AM Equipment and Future Developments
12:00		12:00 - 12:55 Giga cast technology trends and die-casting technology
13:00		13:00 - 13:55 Achievements for mold repair and technology development by 5-axis DED hybrid machine
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

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

10:30~11:00

J E M

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** JSAM



〈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 **J**
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 **J**
Castec Inc.
Group Leader **HOSOBUCHI Natsumi**

12:00 | 12:55 Giga cast technology trends and die casting technology **J**
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 **J**
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〉
OYANAGI Hirofumi (Value Finder., Inc. CEO)
YAMAMOTO Yoshihiro (KANAGATA SHINBUN CO.,LTD. manager)

〈Panelist〉
SATO Ryosuke (TOYOTA INDUSTRIES CORPORATION Project Leader)
HOSOBUCHI Natsumi (Castec Inc. Group Leader)

KAMI Shigetake (RYOBI LIMITED Chief Advisor)
YOSHIDA Natsuki (FUJI CO., LTD. General Manager of AM Technology Department)
MATSUBARA Masato (NIHON SEIKI Co., LTD. Managing Director)



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: Yasuhito 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
	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			
	11:00 12:00	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		
		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		
	15:00 16:00	608 Conference Room	B2-④ E7069 HARTING K.K.	J
		Maintenance Solutions for Machine Tools and Equipment: from Connectors to IoT Products Lecturer: TBD		
	13:00 14:00	605 Conference Room	B3-① E7131 Mitutoyo Corporation	J
		The Future of Manufacturing Opened Up by 3D Measurement Lecturer: Mitutoyo Corporation Fellow Makoto Abe		
	15:00 16:00	606 Conference Room	B3-② WA002 IHI Corporation	J
		IHI Hauzer and IHI Bernex Advanced Deposition Technologies Lecturer: Masaaki Takizawa, Daniel Schranz		
	13:00 14:00	607 Conference Room	B3-③ W1035 TANOI MFG.CO.,LTD. (+81)-48-092-1731	J
		What is Robot Machining?! Lecturer: Takeharu Oka		
15:00 16:00	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

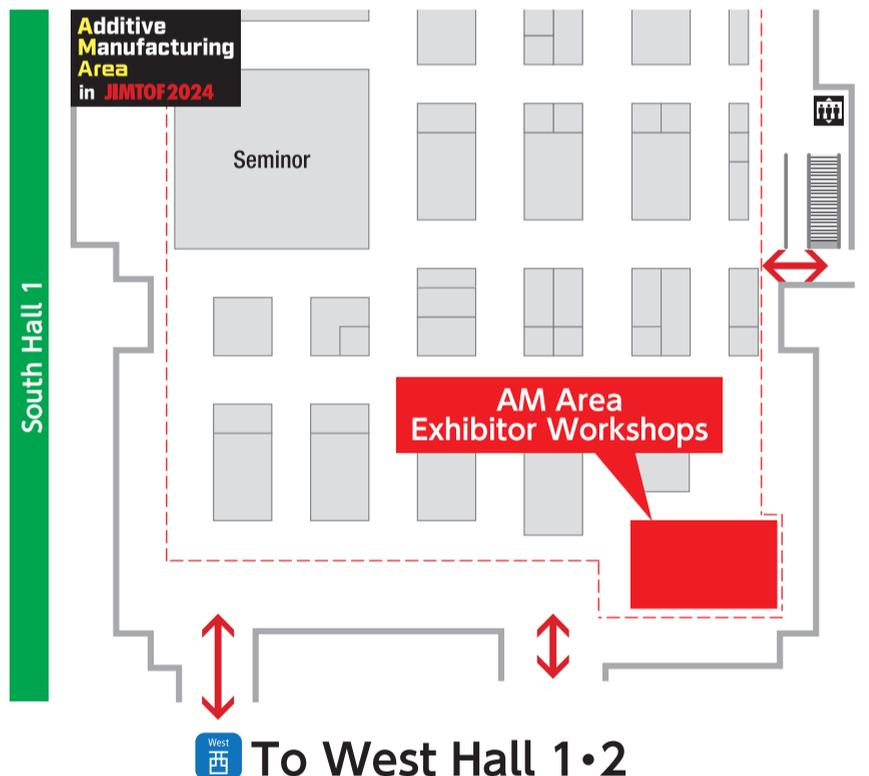
South Hall 1,
Exhibitor Workshops Venue

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

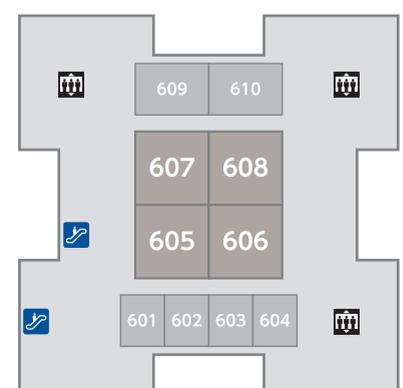
November 8 (Fri.)	11:00 12:00	605 Conference Room	D1-① S2001 FANUC CORPORATION ①Solve labor shortages with FANUC robots! Machining automation using easy to use collaborative robots even for first-time users ②Case Study of Data Improvement at FANUC Factory Lecturer:①Masahiro Morioka ②Yoshihito Sasuga	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
	13:15 14:15	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
	13:15 14:15	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
	13:15 14:15	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



2024-2025年 世界の工作機械関連展示会

International Machine Tool Related Exhibitions Between 2024-2025

会期 Exhibition period	展示会名 Title	開催場所 Location
11月19日~11月22日 Nov.19-22	フォームネクスト Formnext - The Industry Hub for Additive Manufacturing	フランクフルト国際見本市会場 (フランクフルト/ドイツ) Messe Frankfurt (Frankfurt / Germany)
11月20日~11月23日 Nov.20-23	メタレックス2024-工作機械・金属加工展 METALEX 2024 - Machine Tools & Metalworking Exhibition	バンコク国際貿易展示場 (バンコク / タイ) Bangkok International Trade & Exhibition Centre (BITEC) (Bangkok / Thailand)
11月26日~11月29日 Nov.26-29	大湾区工業博覧会 DMP 2024 - Greater Bay Area Industrial Expo	深センワールドエキシビション&コンベンションセンター (深セン / 中国) Shenzhen World Exhibition & Convention Center (Shenzhen / China)
12月3日~12月5日 Dec.3-5	アルジェリア国際産業見本市 SINAA Expo Industries 2024 - International Industry Fair in Algeria	サフェックス (アルジェ / アルジェリア) SAFEX (Algiers / Algeria)
12月4日~12月7日 Dec.4-7	製造業分野別工程関連展示会 Manufacturing Indonesia 2024	ジャカルタ国際博覧会 (ジャカルタ / インドネシア) Jakarta International Expo Kemayoran (Jakarta / Indonesia)
12月12日~12月14日 Dec.12-14	マハテック産業展示会 MAHATech Vashi 2024	CIDCOエキシビションセンター (ナビムンバイ / インド) CIDCO Exhibition Centre (NaviMumbai / India)
1月13日~1月16日 Jan.13-16	スチールファブ機械技術設備展 SteelFab 2025 - Machinery Technology Equipment	シャルジャ・エキスポセンター (シャルジャ / アラブ首長国連邦) Expo Centre Sharjah (Sharjah / United Arab Emirates)
1月21日~1月23日 Jan.21-23	金属加工技術、機械、工具見本市 WARSAW METALTECH 2025 - Trade Fair for Metal Processing Technologies, Machinery and Tools	プタワルシャワエキスポ (ワルシャワ / ポーランド) Ptak Warsaw Expo (Warsaw / Poland)
1月23日~1月29日 Jan.23-29	工作機械とモノづくり技術展 IMTEX 2025 - Machine Tool and Manufacturing Technology Show	バンガロール国際展示場 (バンガロール / インド) Bangalore International Exhibition Centre (Bangalore / India)
1月23日~1月29日 Jan.23-29	ツールテック 2025 Tooltech 2025	バンガロール国際展示場 (バンガロール / インド) Bangalore International Exhibition Centre (Bangalore / India)
1月29日~1月31日 Jan.29-31	3Dプリンティング & AM技術の総合展 TCT Japan 2025	東京ビッグサイト (東京 / 日本) Tokyo Big Sight (Tokyo / Japan)
2月1日~2月3日 Feb.1-3	スラト産業展 15th Engiexpo 2025 Industrial Exhibition in Surat	ヴァニーター・ヴィシュラム見本市会場 (スラト / インド) Vanita Vishram Ground (Surat / India)
2月6日~2月9日 Feb.6-9	マハテック プネー 2025 MAHATech Pune 2025	農業大見本市会場 (プネー / インド) Agricultural College Ground New, Shivaji Nagar (Pune / India)
3月3日~3月8日 Mar.3-8	台北国際工作機械見本市 TIMTOS 2025 - Taipei Int'l Machine Tool Show	南港展覽館 (台湾 / 台北) Nangang Exhibition Center, Hall (Taipei / Taiwan)
3月26日~3月29日 Mar.26-29	第26回深セン国際工業製造技術設備展示会 ITES 2025 - The 26th Shenzhen International Industrial Manufacturing Technology and Equipment Exhibition	深センワールドエキシビション&コンベンションセンター (深セン / 中国) Shenzhen Worlds Exhibition & Convention Center (Shenzhen / China)
4月16日~4月18日 Apr.16-18	インターモールド2025/金型展2025/金属プレス加工技術展2025 INTERMOLD / Die and Mold Asia / JAPAN METAL STAMPING TECHNOLOGY EXHIBITION	東京ビッグサイト (東京 / 日本) Tokyo Big Sight (Tokyo / Japan)
4月21日~4月26日 Apr.21-26	中国国際工作機械展覧会 CIMT 2025 China International Machine Tool Show	中国国際展示場 (北京 / 中国) China International Exhibition Center (Beijing / China)
5月10日~5月12日 May.10-12	第25回中国 (広州) 国際春季産業展示会2025 25th China (Guangzhou) International Spring Industry Exhibition 2025	中国輸出入商品交易会展示館 (広州 / 中国) China Import and Export Fair Pazhou Complex (Guangzhou / China)
6月18日~6月21日 Jun.18-21	自動車部品製造技術展示会 Automotive Manufacturing 2025	バンコク国際貿易展示場 (バンコク / タイ) Bangkok International Trade & Exhibition Centre (Bangkok / Thailand)
6月18日~6月21日 Jun.18-21	インターモールドタイ2025 InterMold Thailand 2025	バンコク国際貿易展示場 (バンコク / タイ) Bangkok International Trade & Exhibition Centre (Bangkok / Thailand)
6月18日~6月21日 Jun.18-21	ものづくりEXPO2025 Manufacturing Expo 2025	バンコク国際貿易展示場 (バンコク / タイ) Bangkok International Trade & Exhibition Centre (Bangkok / Thailand)
6月19日~6月21日 Jun.19-21	ベトナム産業・製造フェア VIMF 2025 - Vietnam Industrial & Manufacturing Fair	世界貿易センタービーズオン新都市 (ビーズオン / ベトナム) WTC Binh Duong New City (Binh Duong / Vietnam)
7月16日~7月19日 Jul.16-19	MF-TOKYO 2025 第8回プレス・板金・フォーミング展 MF-TOKYO 2025 The 8th METAL FORMING FAIR TOKYO	東京ビッグサイト (東京 / 日本) Tokyo Big Sight (Tokyo / Japan)
8月13日~8月16日 Aug.13-16	カンボジア国際機械産業見本市 CIMIF 2025 - Cambodia Int'l Machinery Industry Fair	ダイヤモンドアイランド コンベンション&エキシビションセンター (プノンペン / カンボジア) Diamond Island Convention & Exhibition Center (Phnom Penh / Cambodia)
9月22日~9月26日 Sep.22-26	EMOハノーバー2025 EMO Hannover 2025	ハノーバー国際見本市会場 (ハノーバー / ドイツ) Hanover Fairground (Hanover / Germany)
10月21日~10月24日 Oct.21-24	板金加工国際見本市 Blechexpo 2025 - International Trade Fair for Sheet Metal Working	シュトゥットガルト見本市市場 (シュトゥットガルト / ドイツ) Messe Stuttgart (Stuttgart / Germany)
10月22日~10月25日 Oct.22-25	メカトロテック ジャパン 2025 MECHATRONICS TECHNOLOGY JAPAN 2025	ポートメッセなごや (愛知 / 日本) Port Messe Nagoya (Aichi / Japan)

NEXT JIMTOF 2026年10月26日(月) - 10月31日(土) 2026.Oct.26(Mon)-Oct.31(Sat) **東京ビッグサイト TOKYO Big Sight**

6日間ありがとうございました! Thank you for the past six days!

ご意見・ご感想がありましたら、JIMTOF Map & Daily News 編集チームまでお寄せください。
If you have any comments or feedback, please send them to the JIMTOF Map & Daily News Editorial Team.

k-info@media.nikkan.co.jp

SEE YOU NEXT TIME!!

JIMTOF 2024

November 5-10, 2024 (Tue-Sun)

Tokyo Big Sight ▶ East Hall 8 10:00-18:00*

▶ South Hall 1 9:00-17:00*

*Nov. 10th until 4:00 p.m.

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