

INTERNATIONAL **MANUFACTURING TECHNOLOGY** (PPURI) FAIR 2016

2016.6.15 (WED)~18 (SAT)

Kimdaejung Convention Center



Host

 Gwangju Metropolitan city

Organizer

 Kimdaejung Convention Center



An Ideal Platform for New Business

3D Printing

3D Printer,
Whatever you imagine,
can be printed out.

3D printing technology has been used for medical and industrial purposes. From manufacturing simple components such as gear wheel and bearing, 3D printing has expanded its area to more complicated structure of machinery components and finished machinery.

Carbon Fiber

New material
that is thinner than a hair,
but stronger than steel.

With the advantage of weight lightening and high functioning, carbon fiber has been used as a core material in universal industrial fields such as aerospace, defense industry, electricity/electronic, and overland/maritime transport.

Smart Factory

“Korean government, promised
on supporting construction of
10,000 smart factories by 2020.”

A factory that acts like an organically linked human body, with three integrated functions: sensing, control, and execution, focused on IoT and Big data.

Introduction

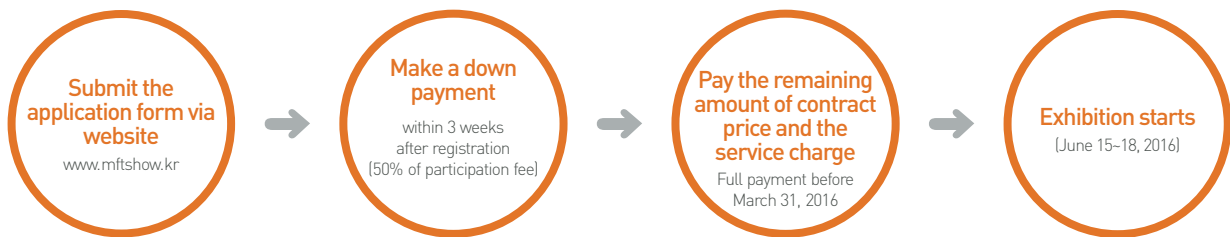


INTERNATIONAL
**MANUFACTURING
TECHNOLOGY**
(PPURI) FAIR **2016**

- TITLE** International Manufacturing Technology (PPURI) Fair 2016
- DATES** June 15~18, 2016 (4 days)
- VENUE** Kimdaejeung Convention Center (Exhibition hall/Conference room)
- SCALE** 9,072m² (300 booths of 150 companies)
- HOST**  Gwangju Metropolitan City
- ORGANIZER**  Kimdaejeung Convention Center




Registration process for exhibitors

| Process |



- **Early Registration(1st)** Until Dec. 31, 2015 (20% Discount)
- **Additional Registration(2nd)** Until Jan. 29, 2016 (10% Discount)
- **Final Registration** Until Mar. 31, 2016
- For re-exhibitors, early bird discount (20% or 10% discount) and re-attending discount (10% discount) can both be applied. (Up to 30% discount possible)











| Booth |

Type	Premium Booth A (Truss)	Premium Booth B (Block)	Standard Booth
Fee	US \$2,600 (minimum participation unit : 2booths)	US \$2,900 (minimum participation unit : 2booths)	US\$2,100
Specification			
	Size 9m ² (3×3m) Package Back&side premium walls, carpet, lighting, fascia, power supply(1kw), reception counter, round table, 3 chairs Benefit E-Newsletter advertisement for once	Size 9m ² (3×3m) Package Back&side premium walls, carpet, lighting, fascia, power supply(1kw), reception counter, round table, 3 chairs Benefit E-Newsletter advertisement for twice	Size 9m ² (3×3m) Package Back&side premium walls, carpet, lighting, fascia, power supply(1kw), reception counter, round table, 3 chairs
	Remarks	*Additional consultation on design	*Additional consultation on design

- **Bank** Kwangju Bank • **Account No.** 055-127-000151 • **Beneficiary** Kimdaejeung Convention Center • **Swift Code** KWABKRSE

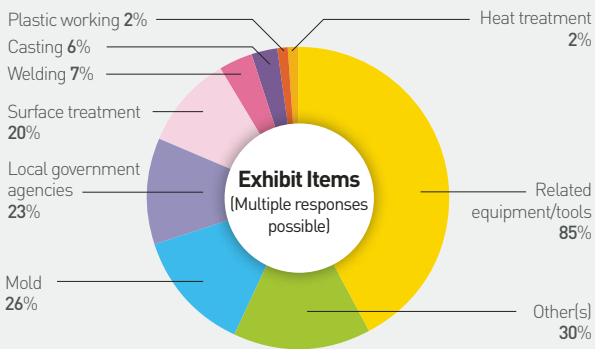
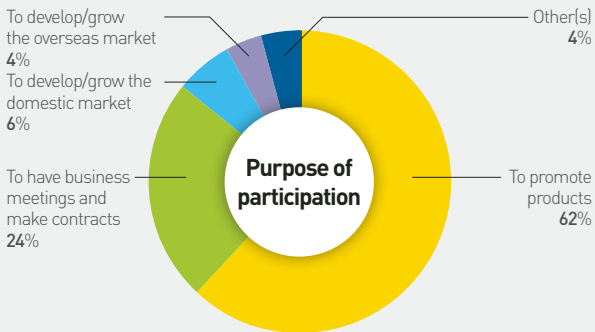
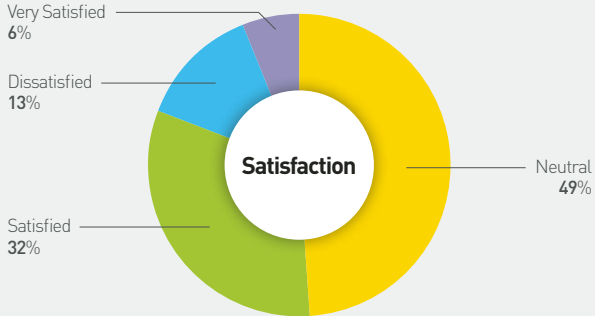


Exhibition items

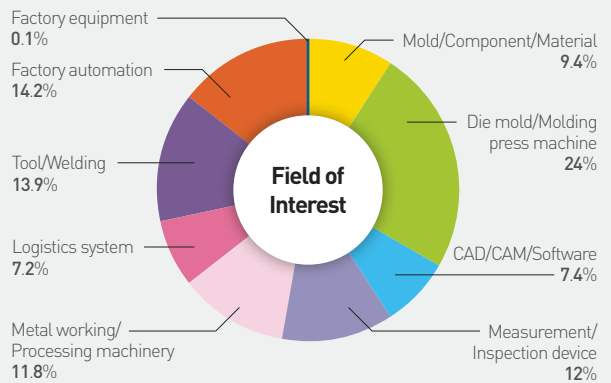
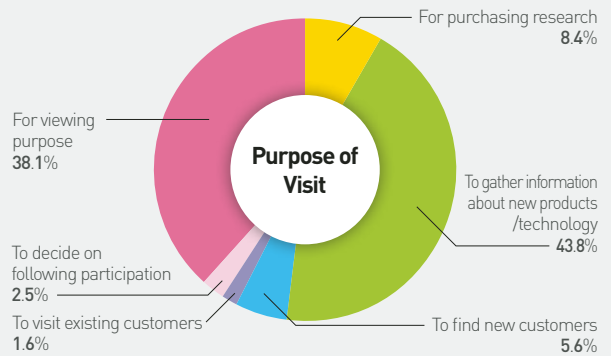
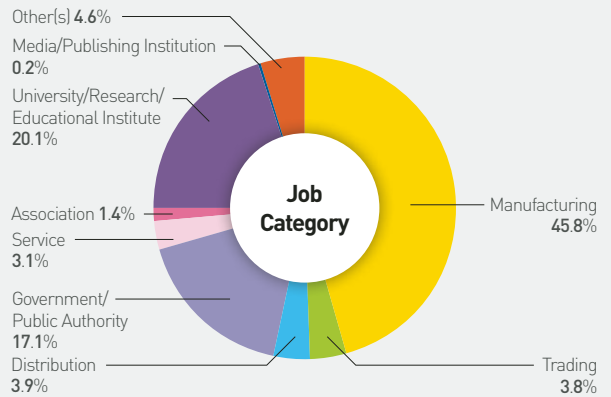
Category	New manufacturing technology		Related industry (product/ part/ material)	
	Field	Specific technology		
6 essential Manufacturing (PPURI) Technologies	 Casting	Die casting	Aluminum die casting, Magnesium die casting	Automobile(Engine part, Transmission, Crank case), Cell phone(Case), ITC(Computer case), Etc.
		Sand casting	Cast iron, Cast steel, sand casting, non-ferrous sand casting	Automobile(Cylinder), Ship-building(Large part), Etc.
		Special casting	Metal casting, Precision casting	Precision machine(Precision part), Etc.
	 Mold	Injection mold	Digital metal molding design, Ultra-fine processing and assembly, Micro injection, Large-surface injection	Electric appliance(Case), Automobile(Interior part, Gauge part), Cell phone(Case), Etc.
		Press mold	Digital metal molding design, Ultra-fine processing and assembly, Fine blanking and foaming die manufacturing, Stamping of hard-to-form material	Automobile(Body frame and chassis part), Cell phone (Connector), semiconductor(IC routing part), Various functional part, Etc.
		Special mold	Multi-color, Multilateral injection forming, Blow forming, Plastic-metal integration forming, IMA(in mold assy) forming	<ul style="list-style-type: none"> Cell phone(2-color case), Convergence manufacturing Display(LCD ultra-slim filter) Pharmacy and food industry(Container), Camera(Lens and optical part), Etc.
	 Plastic working	Forging	Heat/Cold/Warm forging, Complex forging	Automobile(Steering, Engine part, Gear), Bicycle (Transmission, BB), Power generation system (Axial flow part, Hydraulic pump part, Compressor part), Heat pump(Heat exchanger), Etc.
		Extrusion	Extrusion, Hydrostatic extrusion, Variable section extrusion, Direct/Indirect extrusion, Shock extrusion	Automobile(Body frame, Chassis, Bolt, Bumper), Heat pump (Heat exchanger), Bicycle(Frame, Suspension, Handle), Etc.
		Press	Shear, Bending, Extrusion, Drawing processing	Electronic panel, Cutting tool, Injection-base nut, Etc.
		Drawing	Drawing, Variable section drawing	Wire drawing, tube drawing, aluminum extruded shape
		Rolling	Hot rolling, Cold rolling	Air conditioner and automobile(Cooling/heating, FIN material), Electronic part(Condenser foil), Transformer, Aluminum foil for various construction materials and pipes
		Form rolling	Screw form rolling, Gear form rolling, Die form rolling	Gear, Screw, Bolt, Ring, Axle, Etc.
		Powder metallurgy	Powder material, Mix/stamping technology	Bearing(Steel, Steel billet, Brass), Balance weight for A/C compressor motor(Brass), Etc.
	 Welding	Electric packaging	Water level packaging, Electronic module manufacturing, Pb free soldering packaging	Display, Electric appliance, Automobile, Cell phone(IC packaging), Etc.
		Welding	Laser welding, Arc welding, Resistance welding, Steel welding, Non-ferrous welding, Etc.	Ship-building(Block part), Automobile(Body frame and chassis part), Construction machine(Excavator boom and arm part), Construction(Bridge, steel structure), Heavy industry(Plant), Bicycle
		Welding & Packaging material and system	Welding material technology, Electric packaging material technology, Welding power source, Packaging system	Ship-building(Material, electric power source, Wire feeder for welding), Automobile(Electric power for welding and adhesion material), Electronics(Packaging material and equipment), Etc.
	 Surface treatment	Dry coating	DLC technology, Light coating	Automobile(Cylinder and piston ring), Industrial machine(Lens mold/cutting device), Cell phone (Packaging), Construction machine(Abrasion part)
		Plating	General electric plating, Electroless plating chemical conversion treatment, Anodic oxidation	Automobile(Cylinder, Wheel, Pipe), Semiconductor (Cable/ Connector), Steel (Continuous casting mold, Structure), Precision machine (Miniature part), Solar cell(Electrode, absorption plate)
PCB surface treatment		Electric plating, Electroless plating, Solder plating	Cell phone(Flexible board), Electric appliance(Circuit board), Display(COG), Electronic/electric(FCCL), ICT(COF), Electronic appliance(Circuit board), etc.	
 Heat treatment	Heat treatment	Nitriding, Carburizing, Tempering	Automobile(Gear, Hub, Clutch, Filler), Construction machine(Cylinder, Bushing, Axle), Industrial machine (Injection mold, Press mold), Energy(Bearing), Etc.	
High-tech Manufacturing (PPURI) Technologies	 New material	Carbon fiber	Only a quarter of steel weight, Strength enhanced 10times higher	Carbon fiber molding material, Leisure equipment, Structural frame for automobile: CNG Pressure vessel for fuel, Material for aerospace
		High-manganese steel	As the major consuming industries such as automobile and shipbuilding are growing, POSCO and Daewoo Shipbuilding & Marine Engineering cooperated and made a new material by developing heat treatment technology and adding manganese in steel material.	Other new materials: (Engineering plastic, Fiber-reinforced metal, Shape memory alloy, amorphous metal material)
	 Smart factory	Smart factory	Strengthening energy-efficiency of factory operation system, manufacturing automation, process simulation, and super precision mold by adding IT to manufacturing factory.	Process control system, SCADA, MMI, HML, S/W, DCS, MES, Environmental process control, Touch panel
	 Hydrogen vehicle	Hydrogen vehicle	Up to 594km drivable with a single charge, Low temperature start-ability under -20 degree Celsius, High efficiency, Eco-friendly & Zero-emission, Unlimited fuel	Hydrogen fueled car, Fuel-related component, Cylinder block, Auto transmission, Crankcase, Hydrogen fueled tank, Wheel
	 3D printing	3D printing	Large sized printer for metal structures, Printer for composite processing (AM/SM), Multi-complex SLC printer, High speed/high precision stereolithography printer, etc.	Dentistry, Figuration, Automobile, Aerospace, Military supplies, Design, Food, Education, Fashion, etc.

After Show Report 2015

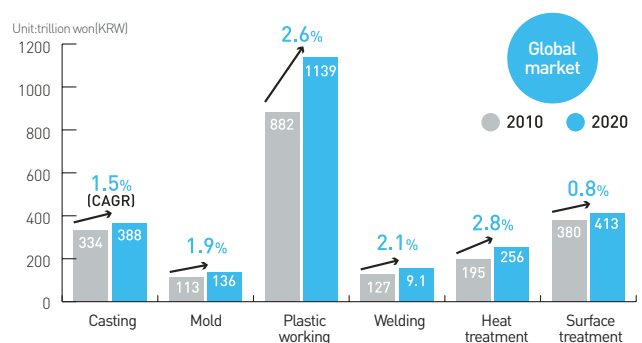
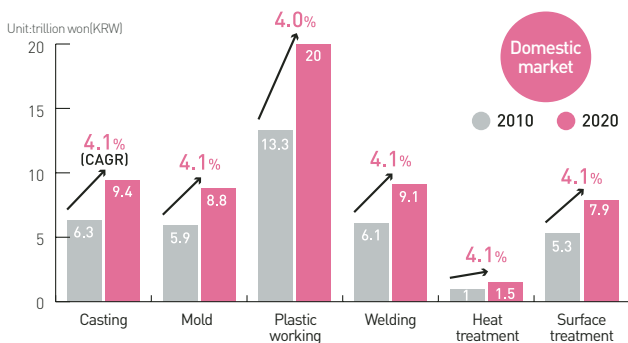
Exhibitors' Survey Results



Visitors' Survey Results



Manufacturing Technology Market Prospect



Source: Industry & Economic information provided by Korea Institute for Industrial Economics & Trade

PPURI industries do not show on the surface of the products, just like PPURI (tree roots), but be inherent in finished products and form essential elements to enhance their quality competitiveness.

