

**PRECISION WORKHOLDING DEVICES**

**TRUMPF (India) Pvt Ltd**  
www.trumpf.com  
Hall 4, Booth 101

# Together to Win

Playing the perfect partner in mutual growth, TRUMPF (India) has displayed Forms and Gears' smarter welding jigs at its booth.

TRUMPF is the world leader for sheet metal machinery and lasers. The company has partnered with several other Indian integrators to facilitate its growth in the country. Forms and Gears, the country's oldest and largest fixture building company, is one of TRUMPF Laser integration partners. TRUMPF has displayed, at its booth at IMTEX FORMING 2020, Forms and Gears' Virtual Reality

Laser SPMs for Railways Bogie Welding and Laser Hardening SPMs. In addition to doing laser integration with TRUMPF, Forms and Gears also specialize in welding jigs, which are the backbone of any body/sheet metal shop of an auto plant. Forms and Gears has now come up with a revolutionary new Industry 4.0 product called Smartfix 4.0 that can be installed even on existing

Welding Jigs, making them smarter, more intelligent and with the ability to communicate with the end user on a mobile platform.

**Smart Laser Welding**

Smartfix 4.0 is a Precision Workholding Device with the ability to collect, transmit and analyze data in a useful format for the end-user. Developed for the first time in the world, it takes workholding

devices and fixtures into the digital and cyber space.

Data from the sensors is continuously sent to the cloud wirelessly where it is parsed and stored for analysis. The raw data is then analysed using Data Analytics and Artificial Intelligence tools and sent back to a custom-built Dashboard of the end user, which resembles their factory floor, showing the entire layout in action as well as a quick summary of the critical parameters of each welding jig.

Useful data like the number of components produced per jig per day, operator efficiency analytics, the number of cycles the jig has run, preventive maintenance schedules, cost per component analytics, consumable analytics etc. are sent to the end user's computers on their mobiles.

**Partners in innovation**

Smartfix has been jointly developed by ASM, a publicly-

listed company specialising in Engineering Design and Engineering related Artificial Intelligence, Machine Learning and Analytics, and Forms and Gears, one of the pioneers of Fixture building in the country. Reji Varghese, Managing Director, Forms and Gears, says, "ASM's strengths in electronics, AI and Analytics and our 47 years of Fixture building experience helped us in developing this product. Smartfix 4.0 is the easiest and most cost-effective way to make the whole body shop / sheet metal shop Industry 4.0 enabled. We believe this product can improve productivity, improve quality, reduce rejections and reduce downtime."

Forms and Gears has now forayed into the design and manufacture of Laser Integration using TRUMPF Laser support for Welding, Cutting and Hardening Special Machines.



Source: Magic Wand Media

(L-R): Pradeep Patil, MD, TRUMPF (India); and Reji Varghese, MD, Forms and Gears at the TRUMPF booth

10

**PLANET MATTERS**

# Making Indian Exhibitions Green



With the aim to promote sustainable lifecycle practices in exhibitions that balance quality, environment and economics with compliance to health and safety obligations, IMTMA, since IMTEX CUTTING 2019, has constituted the ECO DESIGN AWARD.

**Green Initiatives**

The attempt is towards encouraging exhibitors to use eco-friendly materials in building stalls at exhibitions and reducing waste. The concept has been well appreciated by the participants and has brought in a paradigm shift in the thought process of the exhibitors, stall designers and the industry fraternity.

**Acknowledgement**

The efforts have continued this edition of IMTEX FORMING with the deserving getting conferred with the ECO DESIGN AWARD 2020.



Source: IMTMA

Eco Design Award Winners

**Eco Design Awardee**

TOOLTECH / IMTEX	Company Name	Hall No	Stall No	Alloted Space	Jury Decision
IMTEX	Neumatica Technologies Pvt. Ltd	2A	B108	32	Top Performer
IMTEX	Light Mechanics	4	C110	36	Commitment to Excel
TOOLTECH	Ampco Metal India Pvt. Ltd	3A	L103	30	Top Performer
TOOLTECH	Givi Misure Pvt. Ltd	3A	K101	30	Commendation for Achievement
TOOLTECH	Ortlinghaus Drive Technology India Pvt. Ltd	3A	M103	30	Commendation for Achievement
IMTEX	Carl Zeiss India (Bangalore) Pvt. Ltd	3A	A126	75	Top Performer
IMTEX	Balluff Automation India Pvt. Ltd	3A	A122	56	Commendation for Achievement
TOOLTECH	Mitutoyo South Asia Pvt. Ltd	3A	A134	60	Commendation for Achievement
IMTEX	ETA Technology Pvt. Ltd.	2A	A112	130	Top Performer
IMTEX	Salvagnini Machinery India Pvt. Ltd	4	C101	182	Top Performer
IMTEX	Yangli Group Corporation Ltd	4	A125	121	Commitment to Excel
IMTEX	Amada (India) P. Ltd	4	B111	450	Top Performer
IMTEX	Messer Cutting Systems India Pvt. Ltd	2A	A110	324	Commendation for Achievement
IMTEX	Trumpf (India) Pvt. Ltd	4	B101	408	Commendation for Achievement

Source: IMTMA