Summary of Visit to

IWST - Advanced Wood Working Training Centre, Bangalore on 01-oct-2021

https://iwst.icfre.gov.in/awwtc/awwtc.htm

1. **Objective**: To explore opportunities for machine tool industries in Wood Working Machinery and allied activities

2. Participants:

- Mr. Nikhil Agrawal, Managing Director, Nagel Special Machines Pvt. Ltd.
- Mr. Shuvo Mukhopadhyay COO Taurus Private Limited
- Mr. S Satish Kumar, Sr. Advisor, IMTMA

3. Introduction:

Institute of Wood Science and Technology (IWST), is a Research institute situated in Bangalore in Karnataka. It works under the Indian Council of Forestry Research and Education of the Ministry of Environment and Forests, Govt. of India. The Advanced Woodworking Training Center (AWTC) is located at the Institute of Wood Science & Technology (IWST). The AWTC was started as the first Training Center in India and its basic aim is to enhance the quality of Indian wood products manufacturing industries so as to attain global competitiveness by using the state of art machineries from Italy. This center will help the Industrialists to have an exposure of various wood working machineries.

Visit to IWST - Advanced Wood Working Training Centre, AWTC, Bangalore, was meant for capturing first-hand information about various wood working machineries, types of woods, wood processing aspects, basics of seasoning and also exploring and generating opportunities for machine tool industries to build machinery and equipments for the Wood Working and Furniture manufacturing industries.

3.1.1 Summary of the visit :

Wood working task force members visited IWST- Advanced Wood Working Training Centre (https://iwst.icfre.gov.in/awwtc/awwtc.htm) and Wood Museum and interacted with staff and faculty and witnessed demonstration of wood profiling/routing, edge banding, sanding, boring, sawing, seasoning machines and equipments.

AWTC is having, conventional machines and CNC machines which are used for imparting skill training to participants. They also conduct one year residential diploma course in wood working. Faculty of AWTC demonstrated the various wood working machinery listed below:

- 1) Sliding table Panel Saw
- 2) Surface thickness planar VEBA-FS400
- 3) Multiple spindle boring machine VITAP
- 4) Stapler for making frames, photo frames
- 5) Narrow belt sander, conventional machine
- 6) Profile cutter / copy profiler
- 7) Universal Oscillating sander ACM-OBS-150
- 8) ORMA Hydraulic Press, 150bar, for hot and cold lamination
- 9) Wood turning lathe
- 10) CNC Router Roverk 1224 used for nesting for panel machining
- 11) CNC Work Centre Rover A3 3 heads, used for boring-vertical and horizontal, routing and sawing
- 12) Through feed edge banding machine
- 13) Seasoning equipments

Opportunity for members:

- For study of various Wood working machines features and operation and processes
- Open atmosphere and easy access Can visit the AWTC with prior appointment to understand the process
- Facility can be used for testing of wood samples
- Facility can assist in providing seasoning of small batch of wood
- They can offer customised training in wood processing for a small batch of participants

IWST- Advanced Wood Working Training Centre facility:

This unit offers short term, medium term and diploma courses in skilling



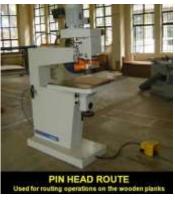






















(Courtesy: AWTC)

(Source : AWTC) Glimpse of machines at AWTC

3.1.2 Opportunity for Machine Tool membership:

- ✓ Most of the machines listed above can be realised by our membership OEM's.
- ✓ Safety aspects are very critical and needs to be addressed for each of the equipments/ machines

3.1.3 Contact Details:

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3.1.4 Annexure:

<u>Information about Machines used in IWST - Advanced Wood Working Training Centre</u>

1. BIESSE Rover K FT - 1224



| WORKING FIELD | | × | | 7 | |
|-----------------|---------|---------|---------|-------------------------------|--------------------------------|
| | | | | WITHOUT / WITH SWEEPER ARM | WITH ROLLERS HOLD-DOWN UNIT |
| ROVER K FT 1224 | mm/inch | 2465/97 | 1260/50 | 170/7 | 90/4 |

| SPEED | | | | | VECTOR SPEED | | | |
|----------------|----------|----------|---------|------------|----------------|----------|------------|--|
| | Х | Y | Z | | | | | |
| m/min foot/min | 25/82,0 | 60/196,9 | 25/82,0 | low speed | m/min foot/min | 65/213,3 | low speed | |
| m/min foot/min | 60/196,9 | 60/196,9 | 25/82/0 | high speed | m/min foot/min | 85/278,4 | high speed | |

https://www.biesse.com/in/wood/cnc-work-centres/rover-k-ft

2. BIESSE Rover A3



https://www.biesse.com/in/wood/cnc-work-centres

Specifications

X stroke 3528 mm

Y stroke 1635 mm

Z stroke 200 mm

Axis nbr 3

Tool changer positions 10

Vacuum pump 250 m³/h

CNC type BIESSEWORKS

Description

- Machining Center Biesse Type A3 ROVER
- Working areas: X = 3060 mm, Y = 1260mm, Z = 150 mm
- Stroke of axis: X = 3528 mm, Y = 1635 mm, Z = 200 mm 6 shots ATS-L = 1200 mm