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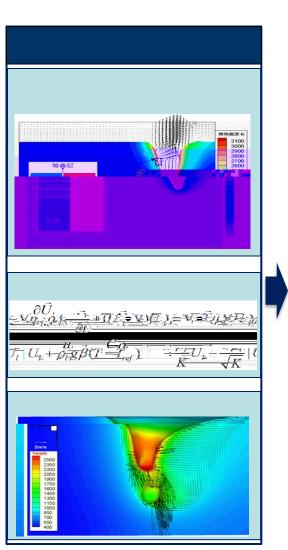


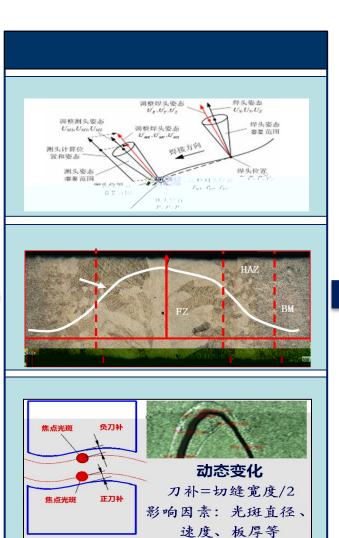


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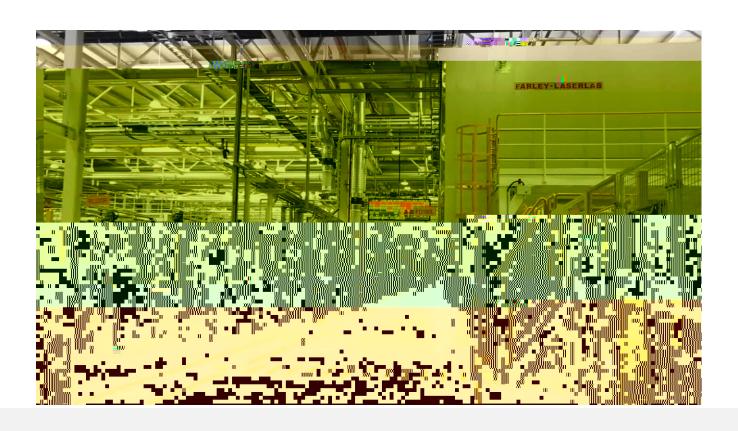
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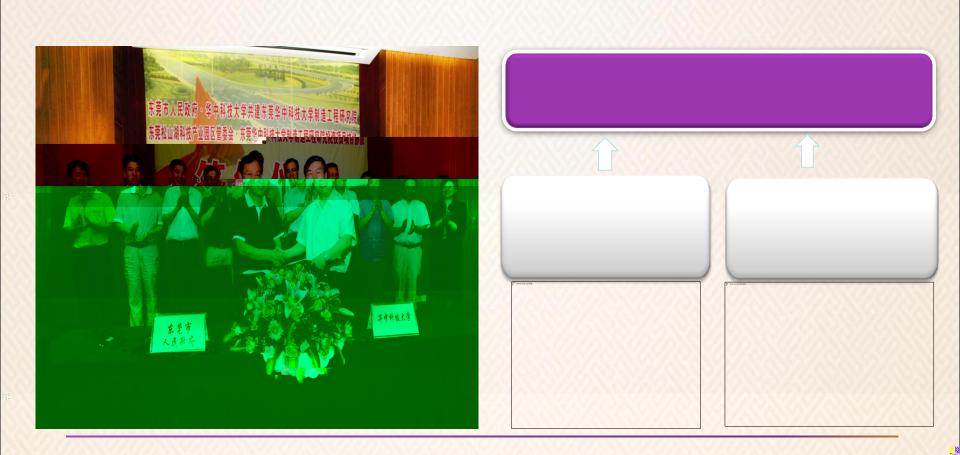






























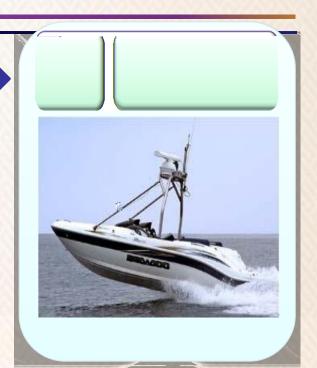










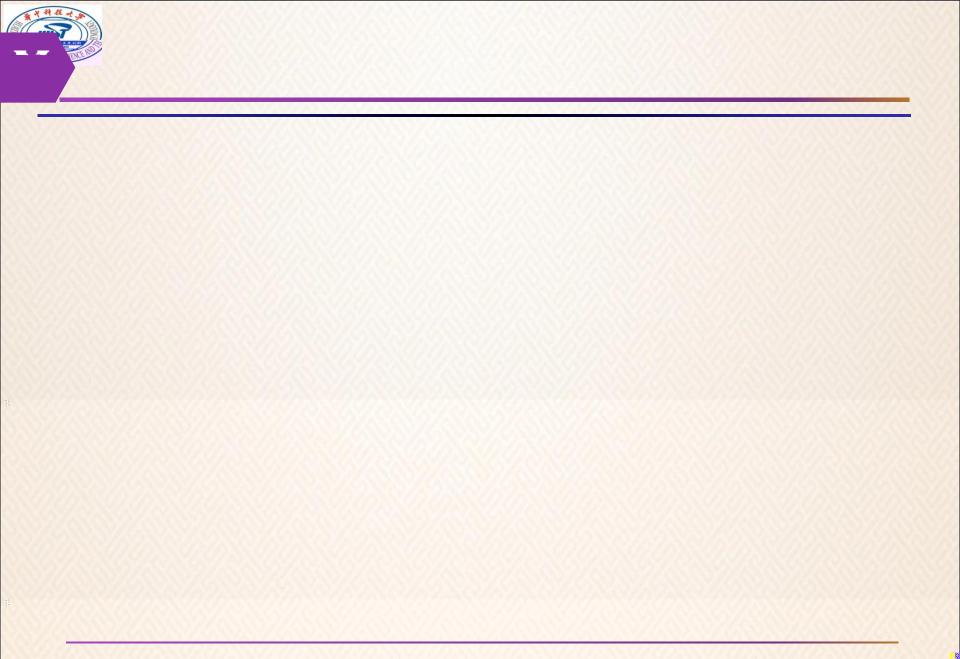




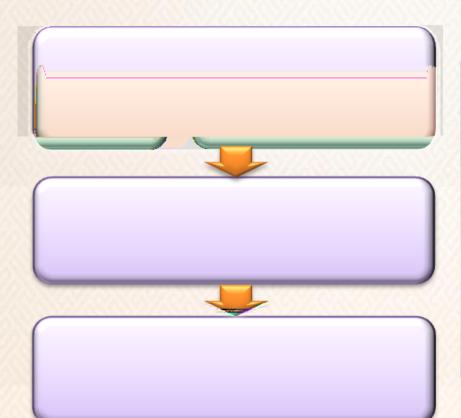




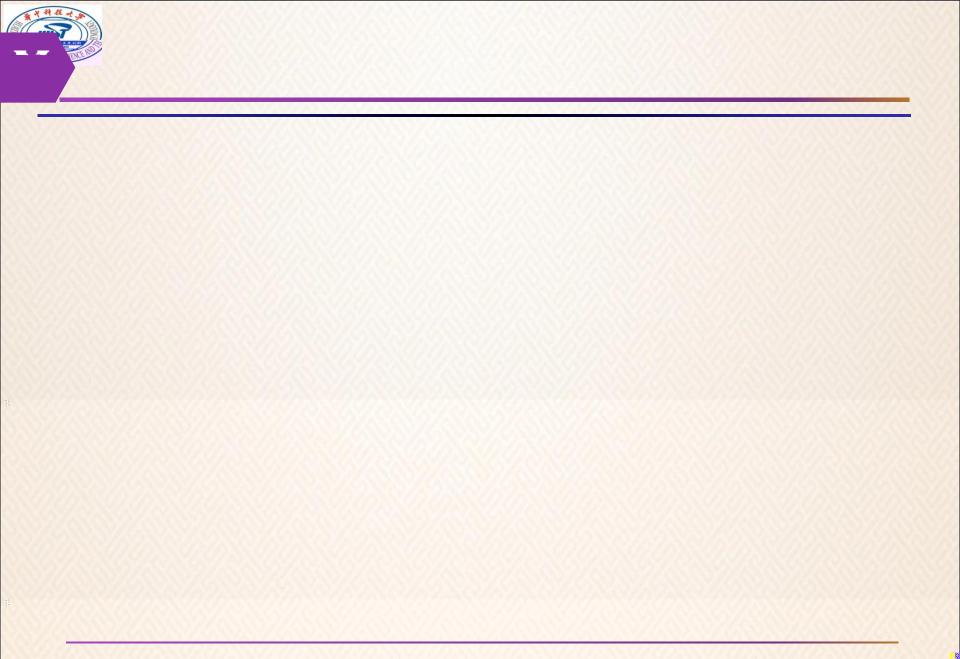




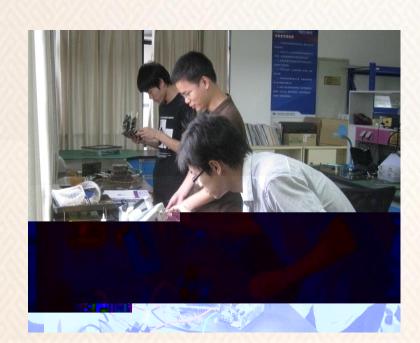






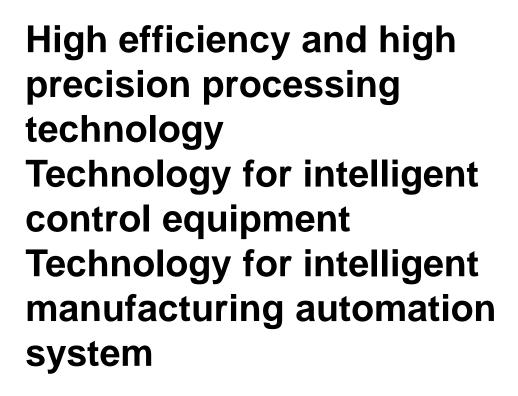






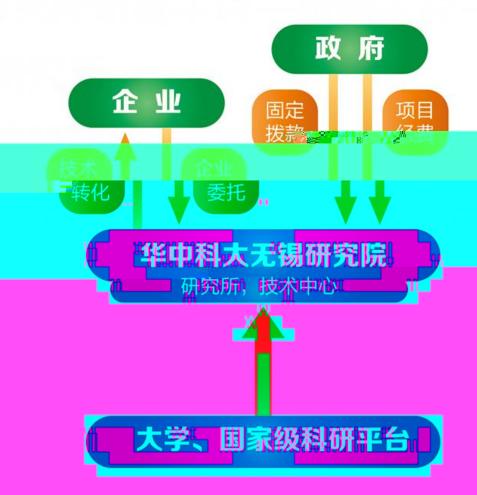








Learning from the Fraunhofer-gesellschaft mode, the institute guide talents, technology and funding elaborately balanced and stimulate scientific achievements. products and service transforming to industry





#### **Case Studies**

#### **WRI**

International cooperation by working with experts from American, Germany and Japan in research and development, as well as personnel training.



Signatures on behalf of
State Key Laboratory of Digital Manufacturing Equipment and Technology
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Director Fraunhofer IFAM Group Manager Fraunhofer IFAM
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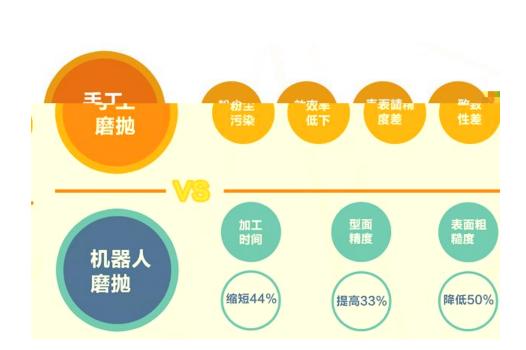






During the 3 months cooperation with WTB, the institute had successfully processed 7 OGV blades and had finished continuous process production of 5 OGV blades in the second batch production (over 200 dimensional parameters all meet requirement, for with WTB has not reach this level of standard after two years of development)









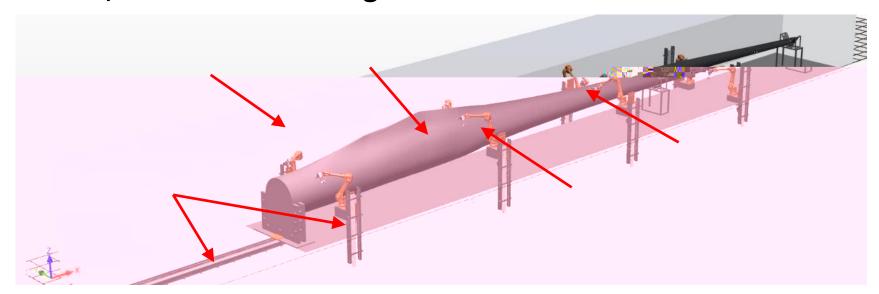


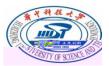




low production efficiency, poor working conditions, high cost of large wind power blade, ——multiple cooperative robotic grinding system for wind turbine blades composite material, over 40 meters long



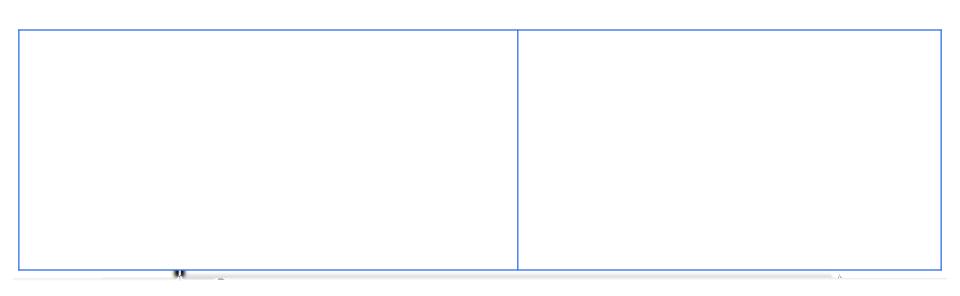








#### Case Studies WRI

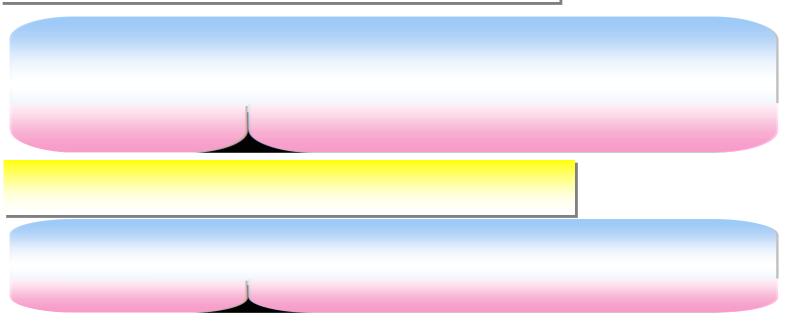






The joint laboratory was founded in 2009, aims at new technology, new process, new materials, patent transformation and talent cultivation.











- (1) 51 cooperation research projects (32 finished), 60 million cooperation fund, average 300 million direct profit per year;
- (2) 42 joint patent applications, 5 software copyrights, 7 achievement identifications, 100 high-level research papers, multiple national/provincial projects.



(3) Trained 700 more talents, held 200 more forums, approved the graduate workstation by Hubei province and the national demonstrative university-enterprise joint training base for graduate students.





( to utilize waste industry water, reduce consumption of new water,)

(Provide technical support to utilize waste industry water, reduce consumption of new water, decrease pollution.)

(Confirmed by field test and water quality analysis, the total amount of reused water increased from 1500 to 12800 m³/h, saving 100 million tons new water per year)



### 人才培养与培训 (Talent cultivation and training)











# 谢 谢!