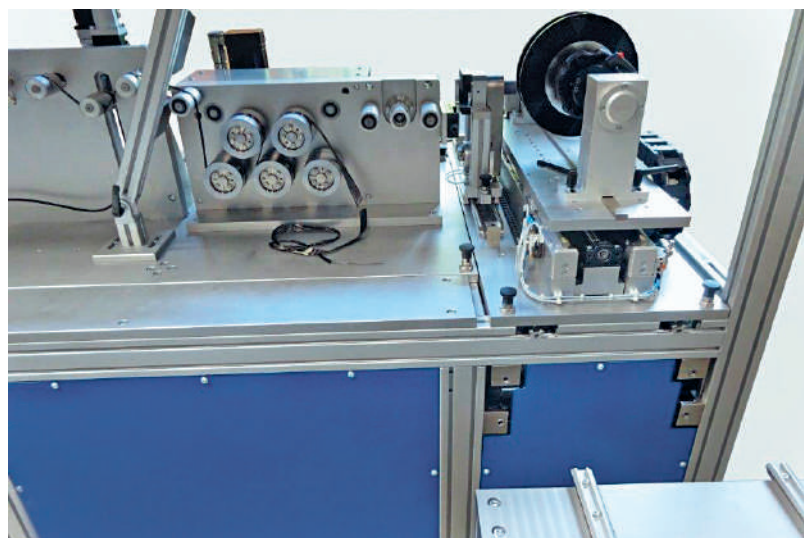
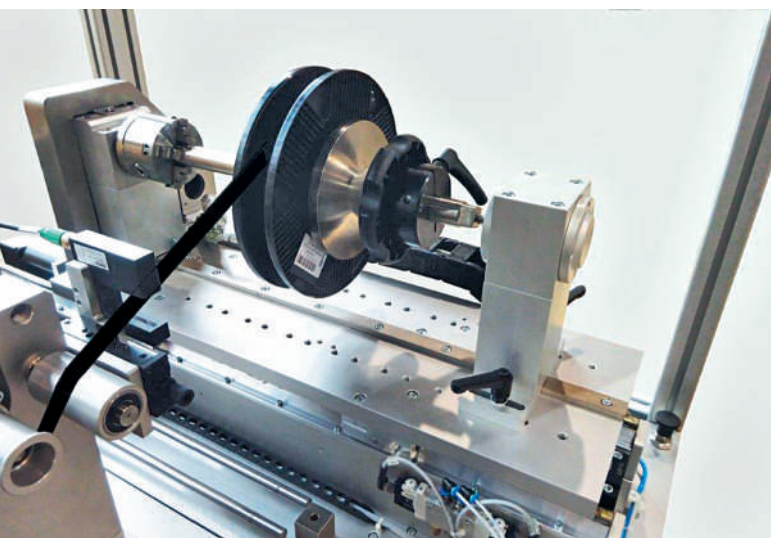


OPEN FIBER SYSTEMS

Modular Fiber Discovery

DISCOVER THE MODULAR FIBER WORLD

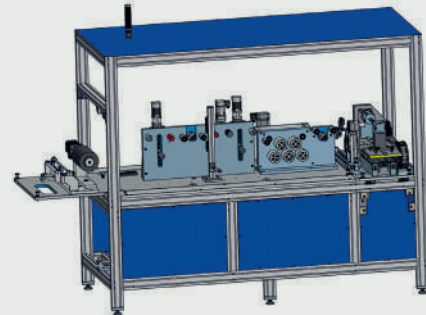


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MASCHINEN- & APPARATEBAU GMBH



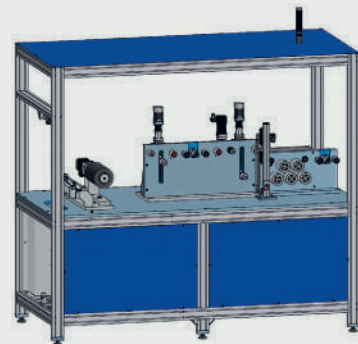
OPEN FIBER SYSTEMS

PROJECT FOR IFB STUTT GART 2021 STARTING CONFIGURATION

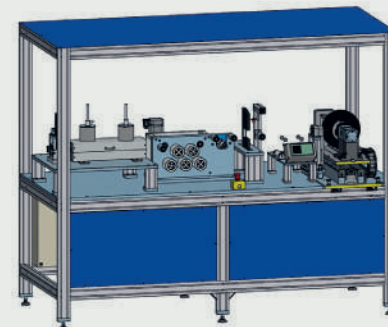
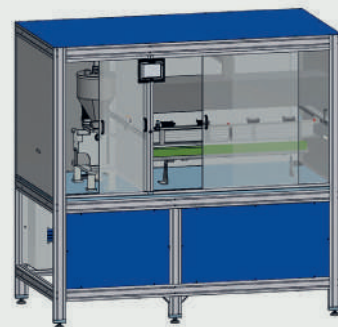


- » Single Roving UD Winding
- » Spreading
- » Tension Regulation
- » Rewinding

FOLLOW UP PROJECT FOR IFB STUTT GART 2022



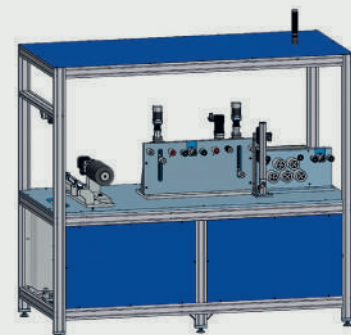
- » Powder Dispenser
- » Infrared heating



- » Cooling
- » Tension regulation
- » Constant width measuring
- » Rewinding

PROJECT FOR FRAUENHOFER ICT

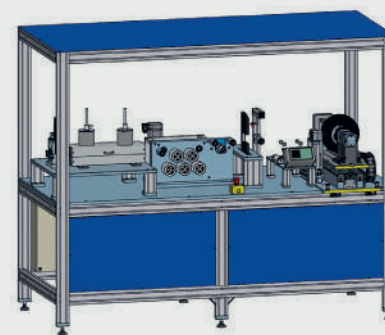
ADD YOUR OWN MACHINE MODULES VIA XML CONFIGURATION EXTERNAL IMPREGNATION MODULE



Stand-alone Module

- » Extruder
- » Mold for thermoplastic tapes

Customer Module

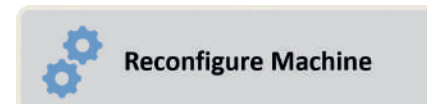


Stand-alone Module

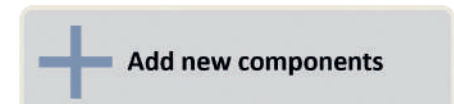
OPEN FIBER SYSTEMS

MODULAR SOFTWARE ARCHITECTURE ©

- » Electrically controlled machine components are programmed as building blocks
- » Building blocks are based on XML files
- » Building blocks are connected analogous to electrical circuit diagram



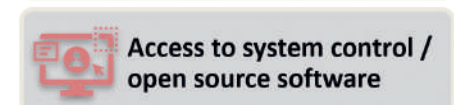
Reconfigure Machine



Add new components

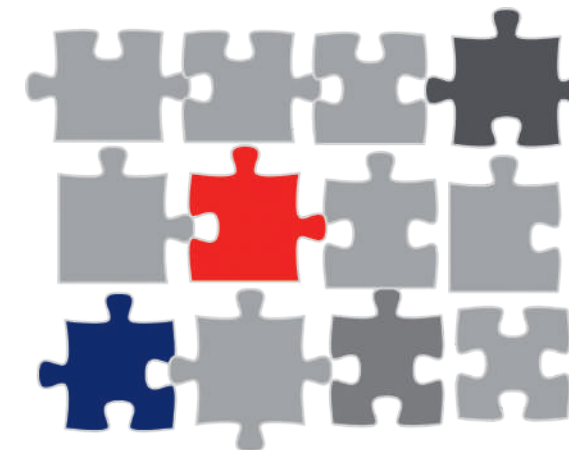


XML Configuration



Access to system control / open source software

MODULAR SOFTWARE ARCHITECTURE ENABLES FLEXIBLE HARDWARE CONFIGURATION



Select software building blocks from library



Connect software building blocks =
Machine configuration 1



Reconfigure software building blocks =
Machine configuration 2



Expand with more machine functions.
Add new electrical hardware with software
building blocks = Machine configuration 3



WHO WE ARE

M&A Dieterle is a medium-sized family-owned business with a workforce of 100 people. We have more than 60 years of experience in tailor-made machinery manufacturing. Our interdisciplinary team of engineers customizes each machine to your specific requirements. We offer remote machine training and service via augmented reality glasses.

MACHINES FOR FIBER PROCESSING

- » Spreading
- » Powder Impregnation
- » Infiltrated Tow Preg
- » Dry Fiber Tape Production
- » Dry fiber, Pre Preg, Infiltrated Tow Preg Placement
- » Tow Preg Winding
- » Customized Trials



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