

The European manufacturing sector employs more than 30 million people in the Union and represents 22% of the world's manufacturing output. The manufacturing sectors must significantly reduce its pollution and waste, increase their recycling



NON-DESTRUCTIVE INSPECTION SERVICES FOR DIGITALLY ENHANCED ZERO WASTE MANUFACTURING

OBJECTIVE:

TO DEVELOP DIGITAL NON-DESTRUCTIVE INSPECTION SERVICES AS A SET OF STRATEGIC TECHNOLOGIES TO IMPROVE PRODUCTION EFFICIENCY, ZERO-DEFECT AND SUSTAINABLE MANUFACTURING OF EUROPEAN INDUSTRIES.



MONITORING AND CONTROL IMPROVEMENT FOR PROCESS QUALITY ASSURANCE

DIGITALLY ENHANCED REWORK & REPAIR PROCEDURES FOR PART RECOVERY AND SCRAP REDUCTION.

KEY



AREAS



SUSTAINABILITY EVALUATION TO ENSURE THE EFFICIENT USE OF MATERIALS

6 INDUSTRIAL SCENARIOS

MONITORING, CONTROL AND REWORK AFFECTED PROCESSES

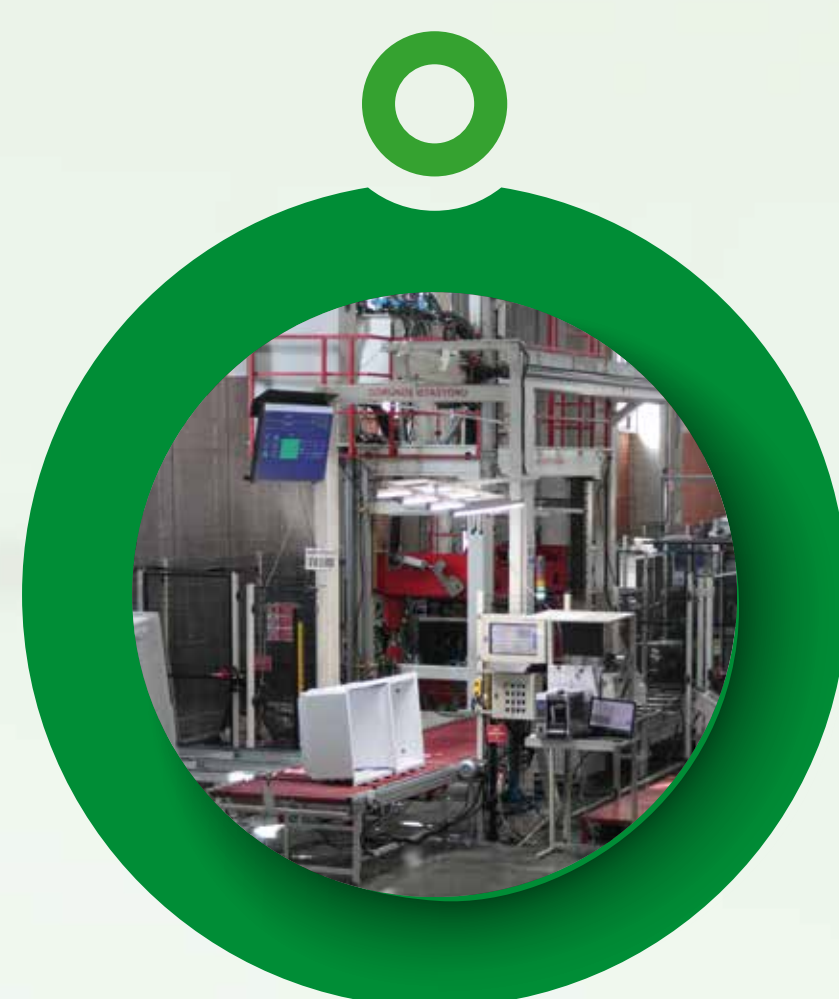
PLASTIC PARTS MASS PRODUCTION QUALITY ASSURANCE



AIM: TO AVOID EXCESSIVE OR UNNECESSARY SCRAP PRODUCTION.

HOW: USING THE INSPECTION SERVICES OFFERED BY ZDZW VISUAL INSPECTION SUITE - 100% PRODUCED PARTS INSPECTED.

THERMOPLASTICS FORMING EXCELLENCE



AIM: TO ACHIEVE 100% CONTROL OF THE PRODUCTION LINE OF THE REFRIGERATOR INNER BODY.

HOW: INTEGRATING ZDZW THERMAL INSPECTION SUITE THAT BRING TOGETHER INNOVATIVE AI-ENHANCED THERMAL IMAGING AND PROCESSING FEATURES.

WIND TURBINE PRODUCTION ENHANCEMENT



AIM: TO REDUCE DEFECTS OF WELDING AND PAINTING TO MINIMISE REPAIR AND REMANUFACTURING COST OF DEFECTIVE PARTS.

HOW: USING ZDZW INTEGRITY AND THERMAL INSPECTION SUITES TO PROVIDE QUALITY DATA AND EARLY DEFECT IDENTIFICATION.

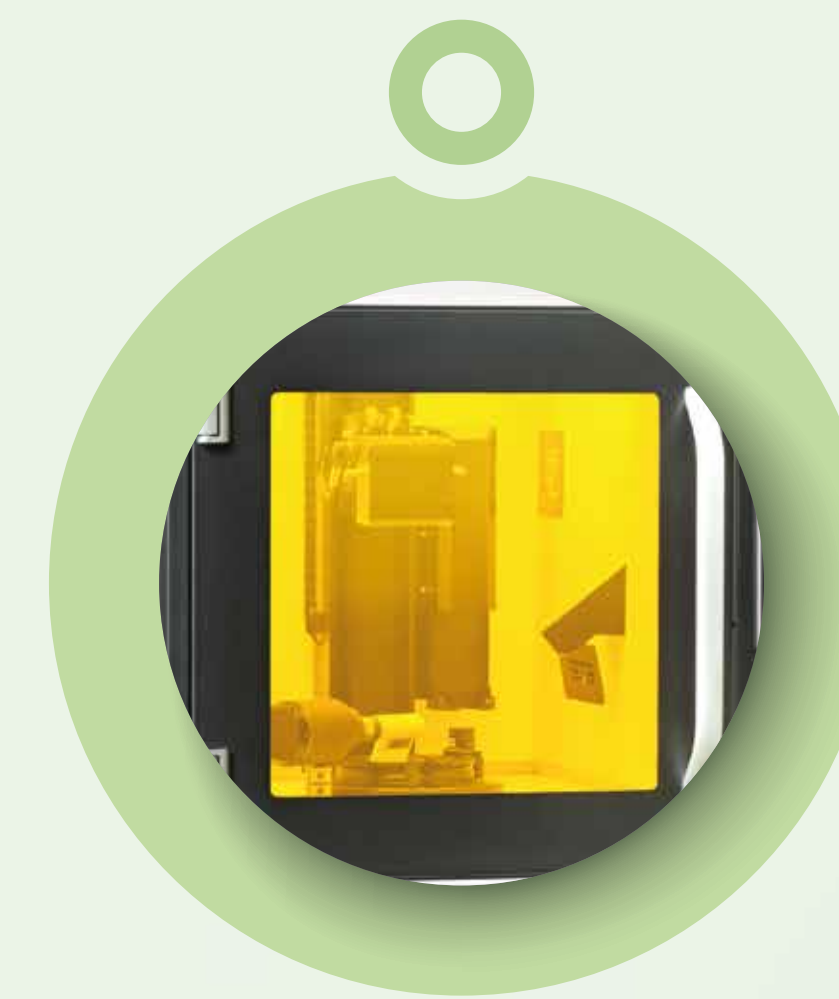
DURABLE FASTENING SOLUTIONS PRODUCTION



AIM: TO PROVIDE PRODUCTS WITH IMPROVED MECHANICAL PROPERTIES:

HOW: WITH ZDZW INTEGRITY INSPECTION SOLUTION TO EXCEL QUALITY REQUIREMENTS AND REDUCING REQUIRED DESTRUCTIVE TESTS

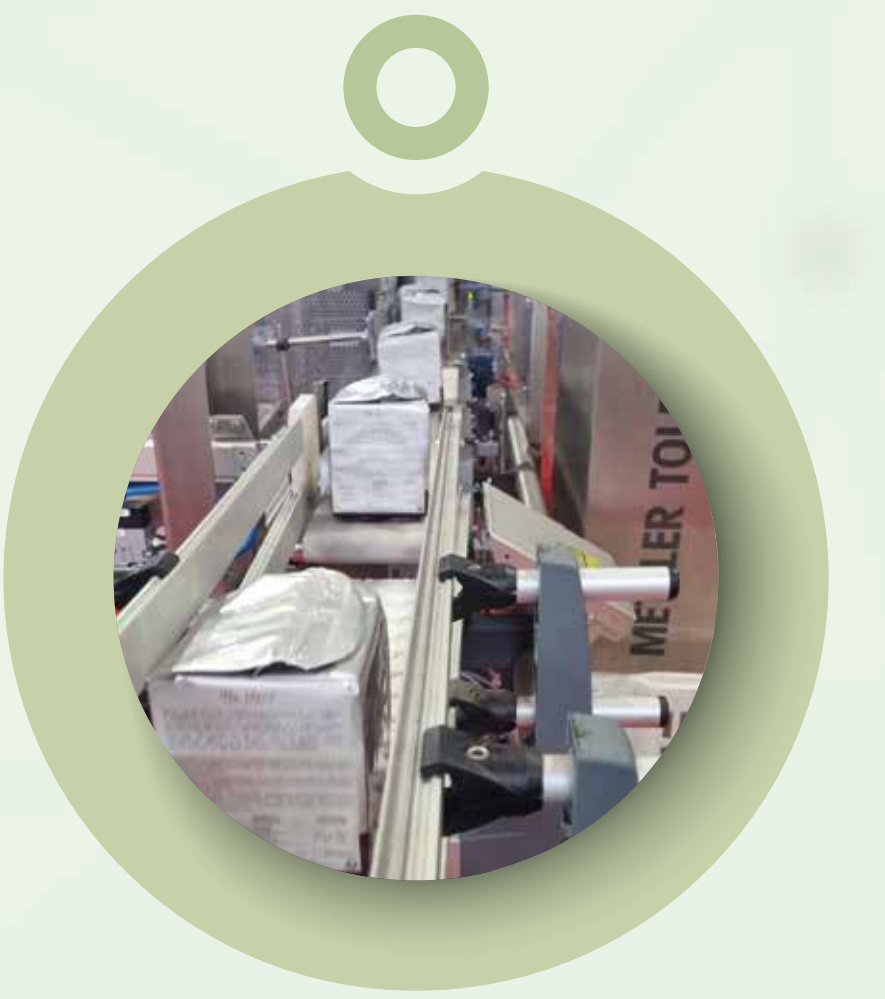
LITHOGRAPHY-BASED HEALTH PARTS PRODUCTION



AIM: TO ACHIEVE HIGH VOLUME PRODUCTION OF AIR CERAMIC ANTENNA MODULE WITH FILL PROCESS CONTROL AND ZERO-DEFECT TOLERANCE

HOW: INTRODUCING IN-LINE INSPECTION IN THE 3D PRINTING MACHINES IN THE ZDZW INTEGRITY INSPECTION SUITE

COFFEE CAPSULE AV AI-BASED QUALITY CONTROL



AIM: TO INCREASE THE CAPACITY TO CARRY OUT QUALITY CONTROL THAT INTERCEPTS CAPSULE DEFECTS

HOW: USING ZDZW VISION INSPECTION SUITE TO IMPLEMENT REAL-TIME CONTROL OF THE CAPSULE FORMING PROCESS & MONITORING THE QUALITY OF INDIVIDUAL COMPONENTS PROCESS.



ZERO DEFECTS WASTE



IMAGINE A WORLD WHERE **ZERO WASTE** IS PRODUCED. AMBITIOUS, BUT **NOT IMPOSSIBLE**.



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THANKS FOR STOPPING BY!



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