TUFTING AUTOMATION PRODUCTS

YARN MANAGEMENT SYSTEMS:
- FIBER OPTIC YARN BREAK DETECTION
- ZERO MEND SYSTEM (US PATENT #7204137)
- TIGHT END DETECTION
- NEW DIMENSION TIGHT END DETECTION
- SERVO MOTOR RETROFIT AND CONTROL FOR YARN FEED SYSTEMS

CARPET INSPECTION SYSTEMS:
- VIDEO MONITORING
- DIGITAL CAMERA INSPECTION
- ILLUMINADA MEND DETECTION

MANAGEMENT AND INFORMATION SYSTEMS:
- SMART TUFTING MANAGEMENT – AUTOMATIC DATA GATHERING AND ANALYSIS
- THE WIRELESS FACTORY
- RFID INVENTORY CONTROL
- SERVO MOTOR CONTROL

WEB GUIDING AND HANDLING SYSTEMS:
- PNEUMATIC BACKING LIFTING DEVICE WITH PASSIVE LET-OFF
- TENSIONLESS BACKING SYSTEM WITH DRIVEN LET-OFF
- AUTOMATIC BACKING GUIDING FROM LET-OFF TO PIN ROLL
- AUTOMATIC BACKING TENSION CONTROL AND ADJUSTMENT
- WEB ALIGNER SYSTEM WITH CONTINUOUS BACKING CHANGE
- BACKING-OUT AND ALARM
- BACKING CHANGE ALERT
- AUTOMATIC CARPET ROLL-UP
- MEND LOCATOR AND POSITIONER
- SERVO MOTOR RETROFIT AND CONTROL – BOTH YARN AND BACKING FEED
- DUAL DIGITAL DISPLAY PRODUCTION COUNTER
ILLUMINATION SYSTEMS:
- LED UNDERCARRIAGE LIGHTING
- ILLUMA-LUX NEEDLE BAR LIGHTING
- ILLUMINADA MEND DETECTION
- PATTERN PERFECT CREEL LIGHTING

WIRELESS COMMUNICATION SYSTEMS:
- WIRELESS FACTORY / SMART DATA GATHERING
- SERVO MOTOR RETROFIT CONTROLS
- BLUETOOTH MACHINE TO OPERATOR COMMUNICATION
- MOTOR VIBRATION MONITOR
- RFID INVENTORY SYSTEMS

HUMAN SAFETY SYSTEMS:
- LIGHT CURTAIN SAFETY MODULES
- SINGLE SENSOR MODULES
- PERIMETER SAFETY SYSTEMS
- CIRCUMFERENCE MODULES

WARPER SYSTEMS:
- FIBER OPTIC YARN BREAK DETECTION
- SINGLE END YARN BREAK DETECTION
- TIGHT END DETECTION
- SMART WARPER MANAGEMENT SYSTEM
- SAFETY PERIMETER SYSTEM
- DIGITAL PRODUCTION COUNTER
- PATTERN PERFECT CREEL LIGHTING

CONSUMMABLE SPARE PARTS:
- ORGAN NEEDLES
- NAKAGAWA CARBIDE LOOPERS
- YARN GUIDE PLATES – COATED AND UNCOATED
- PNEUMATIC VALVES – COBBLE AND YAMAGUCHI
- CERAMIC GUIDES

MISC SYSTEMS:
- PREVENTIVE MAINTENANCE PROGRAM
- SPIDER YARN PROCEDURES