MULTISENSOR SCANNING TECHNOLOGIES for GREEN & DRY LUMBER SORTING

by MiCROTEC Italy
**MiCROTEC FACTS:**

**Founded:** 1980

**Locations:**
- Brixen (Bolzano) ITALY
- Linz AUSTRIA
- Mestre (Venezia) ITALY

**Turnover:** 24.0M€

**Employees:** 120

Headquarter in Brixen (Bozen) ITALY
Core Business:

Scanner System and Automation Solutions for the global woodworking industry

Accompanying Activities:

Basic research in cooperation with specific universities and institutions.

Research and development of new technologies and software applications.

Conversion of research results into industrial products and system solutions.
Basic system outline for Green & Dry Lumber Sorters:

Snap shot image system, dual laser tracking

IR-scanner systems & differential laser triangulation

Laser-scanner systems, true shape, full 360°

Resonance frequency measurement system

X-ray based density measurement system, multi sensing

Moisture measurement system

Geometrical structure scanner system

Board tracking system

Quality scanner system
Laser-snapshot image system
Shutter time 0,1 ms
Resolution: 0,5 mm
BOARDSCAN

IR-scanner system & differential laser triangulation
300 scans/sec
Up to 8m in length
Resolution:
Length 5 mm
Thickness 0,75 mm
**OPTiEDGE**

Multi CAM scanner system &
differential laser triangulation
Shutter time 0,1 ms
Resolution: 0,5 mm
OPTiSIDE

Single CAM scanner system
Snap shot image
Shutter time 0,1 ms
Resolution: 0,5 mm
240 boards/min
DiSCAN\textsubscript{100}  
The Ultimative Scanner Head
WANESCAN
Laser-scanner systems, true shape, full 360°
Crosswise 200 boards/min
Longitudinal 500m/min
ViSCAN

Non destructive resonance frequency measurement system
Laser based interferometer measurement
Not influenced by any ambient noise
ViSCAN

Non destructive resonance frequency measurement system
Laser based interferometer measurement
Not influenced by any ambient noise
DENS SCAN

X-ray based density measurement system
Records average rough density
Multi tracking
No external cooling
No lead shielded housing
Thickness range <=100mm
150 boards/min
X-ray system general remarks:
Electrically generated, non permanent
power off = X-ray off
No contamination
ViSCAN + DENSSCAN = ViSCAN plus!

Non destructive resonance frequency measurement system for green and dry sorting
Moisture measurement system
Dual head system, up to 12 units
Pre calibrated
Density and size compensation
Easy to use graphic interface
Customized product data base, statistics, reports
CURVESCAN
Laser scanner system, multitracking
Measurement of origin geometrical board structure
Bow, twist, spring
Cross and longitudinal transport
GOLDENEYE 700

Multisensor quality scanner
Longitudinal feeding (serie 700)
Transversal feeding (serie 900)

Modular system structure

X-ray based
Laser scanner modules
Color cam modules

Intuitive user interface

System integration of
ViSCAN
CURVESCAN
M3SCAN
GOLDENYEYE 706

Full version with stress grading application

...keep us again no. 1 innovating the wood!
GOLDEN EYE 900

...keep us again no. 1 innovating the wood!
Thank you!