

Ever since it was founded in 1984, Automatisation JRT Inc. has specialized itself in the field of automation and the manufacturing of control panels for a majority of industrial sectors, such as the wood industry, food & beverage, water system networks, etc.

AUTOMATISATION
JRT INC.

DESIGN AND INTEGRATION
OF ADVANCED SYSTEMS

CRP 360L

MSR GRADING MACHINE

JRT's CRP 360L MSR is a double deflection unit, designed to precisely stress grade your wood using calibrated load sensors. Its grading algorithm is based on the *Center Point Deflection Method*. The MOE (modulus of elasticity) is computed every 25 mm, ensuring reliable and precise calculations for the entire piece of lumber.

Being a double deflection unit, there are in effect two sets of deflectors: one for the downward deflection, and the other for the upward deflection. This setup practically eliminates any deflections errors due to gravity.

The CRP 360L MSR is homologated to CEN EN14081 (*Timber structures. Strength graded structural timber with rectangular cross section – General requirements*). As such, it is approved for use in Europe, provided it is homologated for the species, provenance, and size of lumber to be graded.



Overview of double MSR 360L



View of upward deflection unit in operation

405, avenue Galilée, Québec (Québec) G1P 4M6

Tél. : 418 871-6016

Fax : 418 871-6292

www.jrtinc.com

AUTOMATISATION
JRT INC.

DESIGN AND INTEGRATION
OF ADVANCED SYSTEMS

CRP 360L

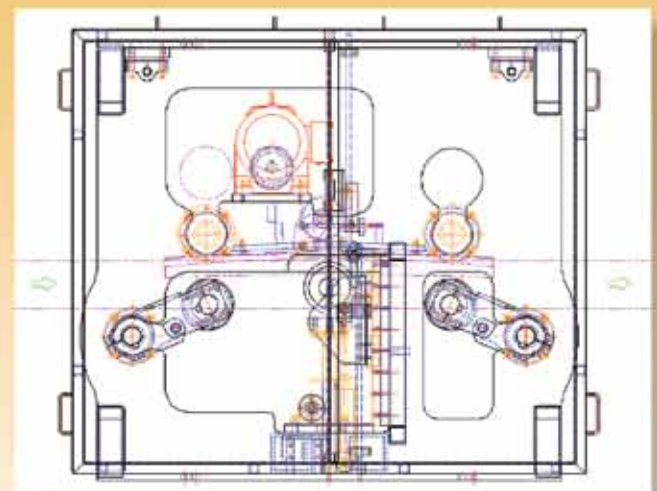
MSR GRADING MACHINE

A Windows™-based Human-Machine Interface is used to calibrate and run the CRP 360L MSR machine, as well as process the data to be sent to the JRT SCANWOOD vision scanner/optimizer.

SPECIFICATION	VALUE	UNIT
Homologated production speed	0 to 250	m/min
Thickness of measured product	25 to 75	mm
Width of measured product	75 to 225	mm
Length of measured product	1.2 to 5.5	m
Resolution (length)	±10	mm
Distance between measurements	25	mm
Applied deflection	0 to 20	mm
Deflection measurement resolution	±0.1	mm
VFD screw jack loading system positioning	0 to 3	mm/s
Loading system positioning resolution	±0.1	mm
Two 4545 kg load cells in parallel per MSR machine used as weight measuring system	0.02% of full scale	-

Always at the cutting edge of current automation technologies and innovations, **Automatisation JRT Inc.** is well positioned to offer you the best solution to your process control projects, at the best possible cost. Our dedicated professional staff endeavors to offer the best support to customers throughout the project, from quote to start-up.

For projects in the wood industry, we work closely with our longtime partner, Conception R.P. Inc. They are well-known for their series of finger-joint machines, high speed cross-cut saws, and other wood transformation related machinery.



Our partner


CONCEPTION R.P. INC. info@conceptionrp.com