WindowManagement® solutions

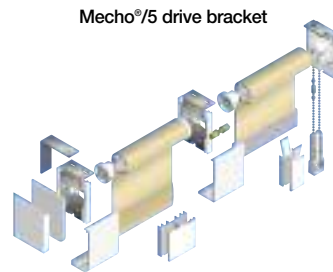

MechoShade Systems
The Architect's Choice™

MechoShade Systems, Inc., is the leading provider of window-shading solutions to architects and interior designers. We produce a wide range of window and solar-shading systems using visually transparent shade-cloths. The SolarTrac® automated WindowManagement® system and its new, advanced Brightness-Override Module manage and control excessive daylight and brightness at the window wall. A brief overview of several of our products and services is provided here.

First Hawaiian Bank Tower. Honolulu, Hawaii.
Gensler, Interiors. Dealer: Window World.

The manual MechoShade® system

- A manual, chain-operated system
- Improved, patented system
- 25-year-project lifetime warranty
- Available in standard, pocket, and extended-bracket sizes with accessories
- Removable SnapLoc® shadecloth-mounting spline and SnapLoc® fascia
- DoubleShade® brackets for sunscreens and room-darkening shades
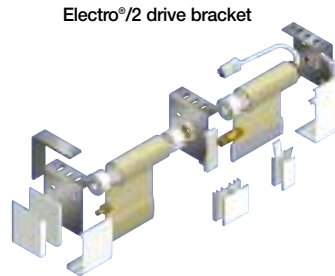- Available as bottom-up shades

For more information visit: mechoshade.com/manualshades

Mecho®/5 drive bracket

Phillips Plastic. Origen Center. Wisconsin.
James + Snow Architects. Dealer: House of Roland.

The motorized ElectroShade® system

- A motorized roller-screen shading system
- Available in 40mm and 50mm tubular-motor systems in a broad range of bracket and tube and window sizes
- DualShade® brackets that efficiently nest two tubes for the installation of room-darkening and sunscreen shadecloths
- SnapLoc® shadecloth mounting spline and SnapLoc® fascia

For more information visit: mechoshade.com/motorizedshades

Electro®/2 drive bracket

BankBoston. Conference Room. São Paulo, Brazil.
Dealer Headquarters: Uniflex.

Motor control and system interface

IQ/MLC® — Dry-contact one-way communication

- Four-motor and one-motor shade controls or cost-effective roller-shade control
- Low-voltage, dry-contact control: Multi-level operation (master, group, and individual motor control)
- Five alignment points including three programmable intermediate set points
- Accessories for a variety of user-interface and control possibilities
- Four-motor IQ/MLC® and Single-Motor Control (SMC)

IQ/485™ — Two-way communication

- 485 bus-network solutions, integration, unification, automation
- Two-way low-voltage communication network to IQ/MLC®, Single Motor Control (SMC), and WhisperTrac™ motorized drapery system
- Unified rollershade and drapery controls
- Photosensor control
- Modular upgrade
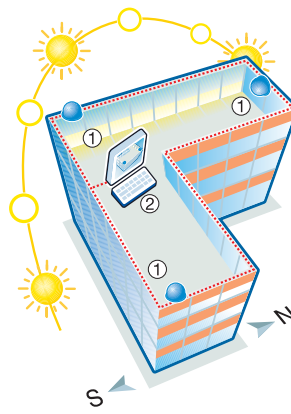- Integration to the 3rd-party controls of building management systems via RS232 and IP

I-Con®/LonWorks® two-way control network and communication

- Two-motor bus interface and one-motor control over LonWorks® free-topology wiring capability
- Integration with building management systems
- Flexible wiring topology and flexible wiring design
- Precision shade alignment with intermediate stop positions (up to four positions)
- Low-voltage dimming; A/V and 3rd-party integration

For more information visit: mechoshade.com/electroniccontrolsystems

The WindowManagement® solution to daylighting

MechoShade Systems' SolarTrac® is a unique WindowManagement® software-based control system designed to automatically adjust the positions of the shades incrementally on windows to protect people and work surfaces from direct sun and from excessive brightness and glare. In addition, it maximizes daylighting while offering a view to the outside.
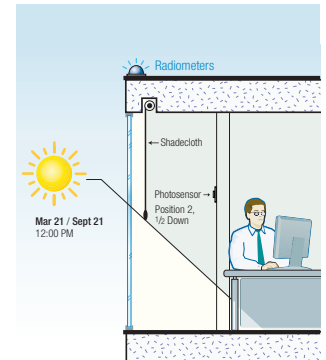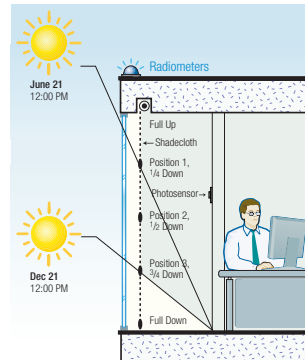

① Three solar sensors on the roof determine if it is clear, cloudy, or bright/overcast.

② Local switches can override the system. It regains control at 5 a.m. the following day.

SolarTrac® system

SolarTrac® reacts to local solar climactic variables such as sunny or cloudy conditions. The system adjusts shades incrementally on windows according to the solar profile angle and BTU load relative to each zone or orientation. The position of the shades is determined for each zone based on the window geometry, orientation, optical glazing properties, allowable solar penetration, and real-time sunny or cloudy conditions. The goal is to provide shading on windows when and where needed, while leaving as much of the windows unshaded to maximize daylight and view.
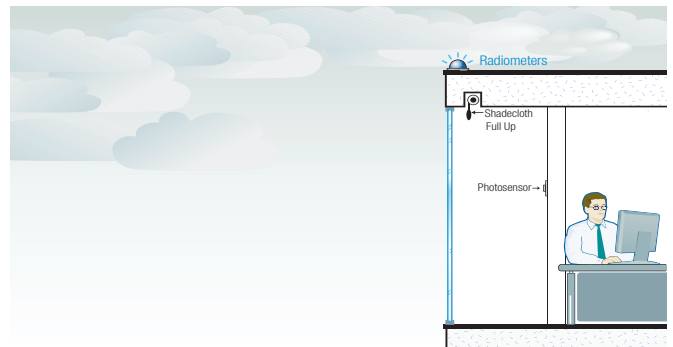
For more information visit: mechoshade.com/solartrac

SolarTrac® Brightness-Override Module

The Brightness-Override Module is a focused system that measures window-brightness levels using internal light sensors mounted to ceilings and columns. If the brightness exceeds specified levels, the Brightness-Override Module lowers the shades to the appropriate position to mitigate excess brightness. This overrides the system's calculated SolarTrac® geo-position of the shades, which may be higher. Shades can be retracted to the default geo-positions preset by the system when the bright condition no longer exists.

For more information visit: mechoshade.com/solartrac

The WindowManagement® touch screen

Color touch screens can be incorporated to access intuitively multiple shade zones for ease of operation to the user. A single touch screen can replace numerous switches and graphically inform users about which shades they can control. Touch screens operate on a RS485 network and interface with SolarTrac® for two-way communication with the system so that the system knows at all times which shades are on manual override.
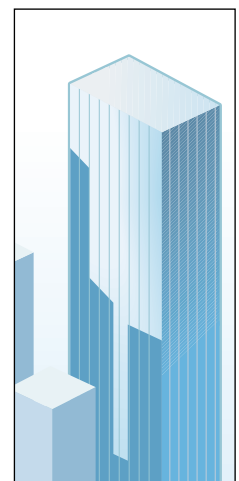
For more information visit: mechoshade.com/solartrac

Shadow-Override Module

In the center city or otherwise impacted area, the optional Shadow-Override Module adjusts the shades to rise in any zone in shadow. This allows for more daylight without direct sun and maximizes the view to the outside. In-tandem, dimmable lighting systems can be controlled to save energy and money. This option requires a digitized 3-D cityscape map of surrounding buildings.

For more information visit: mechoshade.com/solartrac

Cover: IAC/InterActiveCorp Headquarters, New York City-architects: Gehry Partners. Photography by Seong Kwon.
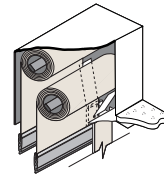
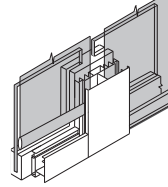## Room-darkening and A/V applications

• Heavy-duty hardware
• Limitless installation types
• Side and sill channels for areas such as A/V
or theater rooms that require room darkening

For more information visit: mechoshade.com/roomdarkening
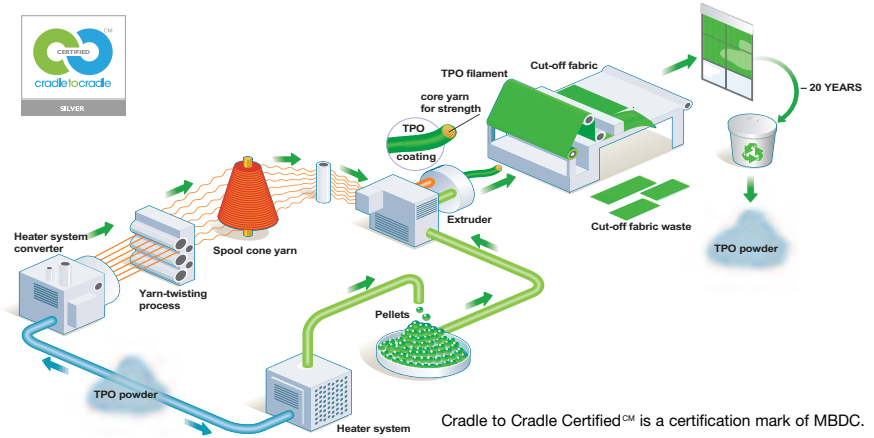
Pockets and accessories

• Custom pocket design
• Pockets ranging from exposed extruded aluminum with
removable closures to those with extruded aluminum trim

For more information visit: mechoshade.com/pockets

DualShade® pocket

Center channel

GE Capital. Stamford, CT. Corporate Planning
Group Architects. Dealer: Triple "S."

EcoVeil® shadecloth

EcoVeil®, inspired by McDonough and
Braungart's book *Cradle to Cradle*, is an
eco-effective solar shadecloth that can be
reclaimed and recycled. It was the first envi-
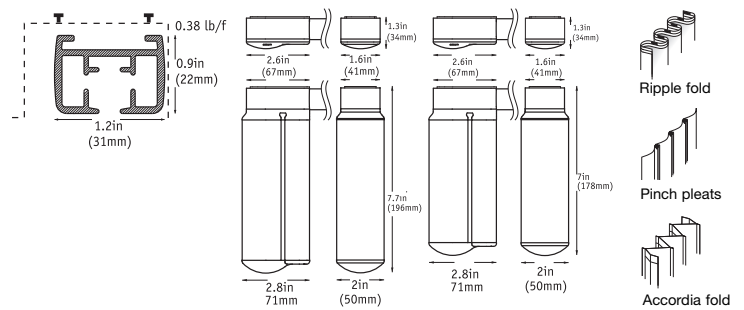ronmentally-certified product of its kind.

• Manual Mecho®/5 with EcoVeil®, the first
complete window-treatment solution to be
Cradle to Cradle Certified℠ silver by MBDC

• Optimization by MBDC

• One of *Environmental Building News*' Top
10 Green Building Products of 2004

Cradle to Cradle Certified℠ is a certification mark of MBDC.

WhisperTrac™ motorized drapery system

• 24VDC
• IR remote control
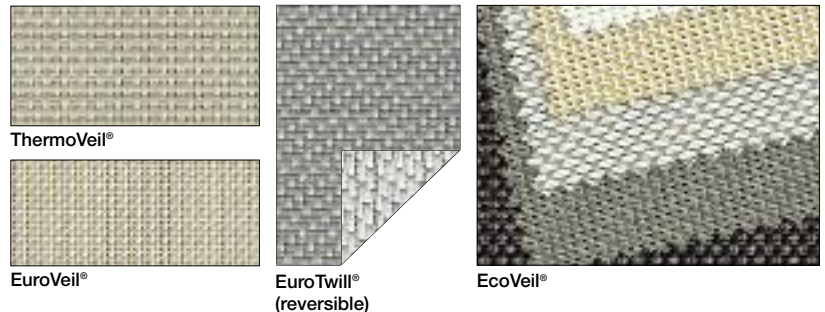• Integrated for RF control
• Dry-contact control
• Quiet up to 44db

Single-motor standard
Max. weight up to 132 lbs.
Double-Motor standard
Max. weight up to 220 lbs.

Single curved
Max. weight up to 110 lbs.
Double curved
Max. weight up to 99 lbs.

For more information visit: mechoshade.com/whispertrac

Ripple fold

Pinch pleats

Accordia fold

MechoShade Systems' full range of shadecloths

Our ThermoVeil®, EuroVeil®, and EuroTwill™
lines of shadecloths are specifically designed
to complement all types of window glazing.
MechoShade Systems pioneered the
concept of "visually transparent shading."
Our shadecloth filters natural light and
controls glare and heat gain while providing
a partial view through the shade.

For more information please visit: www.mechoshade.com/shadecloths

ThermoVeil®

EuroVeil®

EuroTwill®
(reversible)

EcoVeil®

MechoShade Systems
The Architect's Choice™

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