The Access Loader (AL) series delivers all the performance and reliability you expect from Milacron, plus added features and benefits at no extra cost. A hinged filter lid opens easily, without tools, tilts back and locks out of the way leaving both hands free for safety and comfort. Filter cleaning blowback is a standard feature.

The powerful vacuum motor is covered by a sound-dampening plastic housing that is both attractive and durable. For more robust loading applications, the AL can be ordered with a long-life, extra-powerful brushless motor.

Units are equipped with the Easy Loading Controls (ELC) featuring bright, clear readouts displaying when the loader is conveying and when it is in demand for material. Additional control functions are available with the addition of the optional ControlMate pendant.

**VALUE-ADDED FEATURES AT NO ADDITIONAL COST**

- **The world’s most reliable discharge valve**
  Now in cast aluminum, for years of trouble-free performance.

- **Select option packages to suit your needs**
  Popular options are combined for easy selection and integrated into your loader purchase.

- **Full-featured control**
  The Easy Loading Control (ELC) and optional ControlMate pendant govern all aspects of your Access Loader including: load time, material demands, purge, ratio and many other loading parameters.

- **Optional customizable ratio valve**
  The ratio valve’s top and bottom material inlets can be conveniently positioned facing forward or backwards for convenient connection to your material lines.

Cleaning and maintaining your loaders is now faster, easier and safer than ever before. That’s because the unique angled canister design of the Milacron Access Loader (AL) means workers don’t need to climb as high or work as hard to service the drop-in filter or wipe out the stainless steel canister.
HOW IT WORKS

Loading Control
The ELC-M displays the loader’s sequence within its conveying cycle with icons and associated LEDs. The control has precise, reliable electronics for operation, programming and alarms.

A signal from the loader’s demand switch indicates to the ELC-M on the loader that it requires material to be conveyed to satisfy its demand. The ELC-M sends a signal to the vacuum motor on the loader to energize and start a loading cycle. The material is then drawn in by the loader’s vacuum motor. If the hopper is filled, the demand switch will remain open (Fig. 1) and no further load cycles will be needed. However, if the demand was not satisfied and the demand switch closes (Fig. 2) the loader will continue with loading cycles until the demand is satisfied.

CONTROLMATE™ PENDANT (OPTIONAL)

ELC ControlMate™ Pendant
The ControlMate pendant consists of eight LEDs, a three-digit numeric display and three push buttons.

The ControlMate comes with an ethernet cable that supplies power and communications to the pendant from the main ELC control.

Interchangeable programming - One optional pendant can be used to control all ELC controls within your system. The ControlMate pendant can be used with either the ELC-M or ELC-16.

Change up to 16 parameters - Eight standard control parameters are accessible through User Level 1. An additional eight parameters are accessed through User Level 2. These additional parameters activate loading options such as: priority demand, fill sensor logic, demand sensor logic, fill sensor present, load and hold, purge/Adjustable Purge Valve (APV) installed, ratio installed, blow back installed.

Easy-to-read display - Both the ControlMate pendant and the ELC control use icons and associated LEDs to symbolize various loading functions.

Control Function

1. Push the Function button until the appropriate LED indicator is illuminated to change any loading parameter.
2. Use the (+) or (-) buttons located to the left of the Function button to change a loading parameter to your requirements.
3. Once your parameters are changed there is no need for further key strokes, all parameters are instantly saved to the ELC control.

ControlMate User Level 1 Parameters

- On/Off
- Load Attempts
- Ratio Percentage
- Load Time
- Unload Time
- Ratio Layers
- Purge Time
- Blowback
**FEATURES**

Stainless steel cylindrical, angled body provides easy access to internal

All material contact surfaces are built of pristine stainless steel or aluminum to prevent corrosion.

New ELC-M loading control with intuitive loader display. Enhanced control capabilities are possible with the optional ControlMate pendant.

**OPTIONS**

- **Stainless Steel Hopper (JIT)**
  Mounts directly to a machine throat with a stainless steel hopper (JIT). Three sizes are available: 10 lb hopper for the AL-2 model loader and 20 and 40 lb hoppers for the AL-5 model. An air tight seal is not required at the base of the Access Loader due to the included isolator valve. A simple grate magnet may also be included in the cast base to catch tramp metal. A remote demand sensor bracket is included with 20 and 40 lb hoppers.

- **Glass Hopper**
  Mounts directly to a machine throat with a direct feed glass hopper. Three sizes are available for the AL-2 model loader only. An air tight seal is not required at the base of the Access Loader due to the included isolator valve. Quick-disconnect clamps allow easy loader removal for thorough cleaning. A simple grate magnet is available as an option and may be installed in the cast base to catch tramp metal. A remote demand sensor bracket is included.

- **Gravity Discharge Valve**
  The gravity discharge valve uses a non-contact, magnetic reed switch to signal loader demand. Stand-offs provide a rugged guard to prevent discharge valve damage. The large opening eliminates material bridging.

- **Remote Demand Sensor**
  To trigger the operation of the loader (demand) from a location other than directly below the loader, a remote demand sensor may be used. The remote demand sensor is useful on oversized drying hoppers to sense material through a sight glass. Extension cables are available.

- **Ratio Valve**
  A dual inlet, single outlet material valve that is mounted directly to the Access Loader allows the loading of a second material to be layered along with virgin material. Ratio Valve field retrofit kits are available.

- **Volume Fill Sensor**
  Provides automatic shut-off of the loader’s vacuum sequence when the loader is full. A LED will illuminate on the ELC control if the vacuum sequence has not satisfied the loader’s demand.

- **Left-side Material Inlet**
  Rotates the position of the loader’s material inlet 180°.

- **High-wear Kit**
  T-1 tool steel deflector plate is added to the inside of the loader’s body to reduce wear from highly abrasive materials, such as glass-filled compounds.
SELF-CONTAINED VACUUM LOADERS

DIRECT FEED MODEL (Stainless Steel Hopper) JIT

MODEL | AL 2 | AL 5 | AL 5*
--- | --- | --- | ---
Performance characteristics
Loader Volume, ft³ [liters] | 0.2 (6.0) | 0.5 (14.0) | 0.5 (14.0)
Loader body diameter, inches [mm] | 8.0 (203.0) | 12.0 (304.0) | 12.0 (304.0)
Material/vacuum line diameter, inches [mm] | 1.5 - 2.0 (38 - 51) | 1.5 - 2.0 (38 - 51) | 1.5 - 2.0 (38 - 51)
Loader maximum temperature rating, °F [°C] | 180 (82) | 180 (82) | 150 (66)
Vacuum motor | 5/8 Hp - 2 Brush | 7/8 Hp - 4 Brush | 1.3 Hp - Brushless
Nominal throughput, lbs/hr [kg/hr] | 200.0 | 500.0 | 1000.0
Maximum conveying distance, ft [m] | 50.0 (15.2) | 75.0 (22.9) | 120.0 (36.6)
Loader diameter, inches [mm] | 8.0 (203.0) | 12.0 (304.0) | 12.0 (304.0)
Discharge type | Gravity flapper | Integrated reed switch/Remote capacitance sensor (optional)
Demand sensor
Dimensions [in [mm]]
A - Height above mounting plate | 20.4 (518.2) | 23.2 (588.5) | 23.2 (588.5)
B - Height above mounting plate with open lid | 29.7 (754.4) | 34.0 (863.6) | 34.0 (863.6)
C - Depth below mounting plate | 4.9 (124.5) | 8.1 (206.3) | 8.1 (206.3)
D - Height to center of material inlet | 8.8 (223.5) | 8.6 (219.5) | 8.6 (219.5)
Mounting Details | See FIG. 1 | See FIG. 2 |

Approximate weight [lb [kg]]
Installed | 28 (13) | 49 (22) | 49 (22)
Shipping | 50 (23) | 65 (30) | 65 (30)
Compressed air requirements, psi recommended | 80 | 80 | 80
Voltage/Full load amps @ VAC | 110, 4 @ 220 | 110, 7 @ 220 | 110, 7 @ 220

DIRECT FEED MODEL (Glass Hopper)

MODEL | AL 2 | AL 5
--- | --- | ---
Performance characteristics
Viewing bin model | 10 lb. | 11 lb | 21 lb
Viewing bin capacity, lb [kg] | 11.1 (5.1) | 24.3 (11.0) | 41.5 (18.4)
Isolator valve | standard | standard | standard
Dimensions [in [mm]]
E - Height above mounting plate | 34.3 (871.2) | 42.1 (1069.3) | 45.2 (1148.1)
F - Height to center of material inlet | 22.6 (574.0) | 27.7 (703.6) | 30.8 (782.3)
Mounting Details | See FIG. 3 |
Approximate weight [lb [kg]]
Installed | 45 (20) | 80 (30) | 85 (30)
Shipping | 67 (30) | 96 (44) | 101 (46)

DIRECT FEED MODEL (Stainless Steel Hopper JIT)

MODEL | AL 2 | AL 5
--- | --- | ---
Performance characteristics
Viewing chamber model | 3 lb. | 11 lb | 21 lb
Viewing chamber capacity, lb [kg] | 3.0 (1.4) | 11.0 (4.9) | 21.0 (9.5)
Isolator valve | standard | standard | standard
Dimensions [in [mm]]
E - Height above mounting plate | 32.4 (822.5) | 38.1 (966.7) | 49.6 (1260.6)
F - Height to center of material inlet | 20.8 (527.1) | 26.5 (672.6) | 38.0 (965.2)
Mounting Details | See FIG. 4 |
Approximate weight [lb [kg]]
Installed | 43 (19) | 49 (22) | 59 (27)
Shipping | 65 (30) | 71 (32) | 82 (37)

SPECIFICATION NOTES:

* Available with brushless motor as standard.
† Throughputs beyond the recommended ratings should not be attempted unless you are conveying virgin material from close distances. Higher throughputs could result in shortened brush and/or filter life. For higher throughputs, consult Milacron for a quote on central vacuum loaders.
‡ Brushless motors are available in 220V/60Hz, but not in 220V/50Hz.

All Access Loaders are shipped with 10 ft [3.048 m] of flex hose and a vertical feed tube.
Specifications can change without notice. Contact your Milacron representative for the most current information.