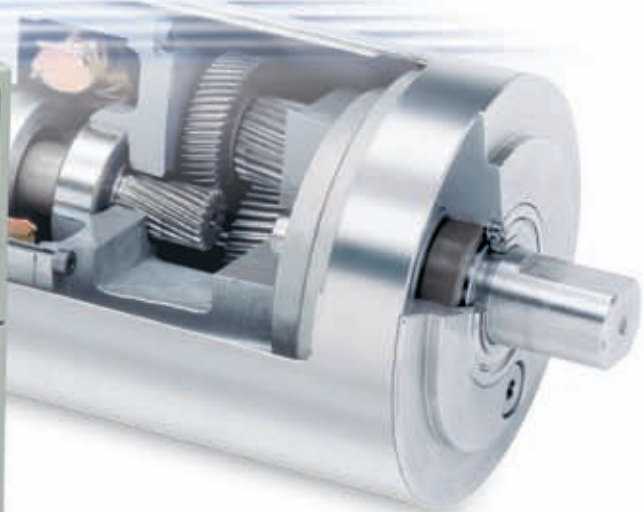




WE MAKE THE WORLD MOVE



# INTERROLL FREQUENCY CONVERTERS

OPTIMISED EFFICIENCY FOR DRUM MOTORS



**INDUSTRIAL MAGZA**  
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The combination of asynchronous Interroll Drum Motors and perfectly tuned frequency converters provide higher flexibility of speed, control and process parameters for your conveyor systems/applications.

- Quick and easy installation
- Large and Variable speed range
- Multi speed application
- Higher flexibility of speed and control of conveyors and process
- Smooth start/stop facility (smooth handling of loads and/or packages, less mechanical stress on motor components)
- Increasing of start/stop capacity compared to a direct power supply motor connection
- Energy saving on Start/Stop applications by optimising power usage
- Optimal torque
- Monitoring of Motor/Drive status
- Can replace single phase motors and increase efficiency
- Motors can be de-rated for cool running with modular belt applications
- For quick stop applications, the dynamic braking feature of the frequency converter can replace the need for a special mechanical brake in the drum motor

**A perfectly harmonized solution**

Although you may use other frequency converters with the Interroll Drum Motor product range there are several good reasons why you should use the complete package – Interroll Drum Motor together with the parameterized frequency converter.

- **Minimized start-up time:** Optimal parameterization generally requires know-how as well as time for testing and validation. Using the complete Interroll package you can skip right to the start-up stage.

• **Safer operation:** Interrolls' parameter set-up is functionally validated. That means that by using the specific parameter set given, incorrect settings which could lead to considerable damage through improper loading – will be avoided.

• **Longer lifetime:** Even if errors in operation are not detected, the optimal parameterization between the Interroll Drum Motor and the converter ensures a longer service life of both. The frequency parameters are preset according to the motor data, thus ensuring gentle, error-free operation.

**System integration**

These frequency converters can easily be integrated into simple or more complex control solutions (field bus interfaces and PLC controlled closed loop systems). Interroll Drum Motors with integrated encoders or resolvers are also available.

**Technical data:**

- Input
  - SJ200/X200
    - 1-200 -240 VAC, +10%, -15%, 50/60 Hz ±5%
    - 3-380 -480 VAC, +10%, -15%, 50/60 Hz ±5%
  - L100-M
    - 1-100 -120 VAC, +5%, -10%, 50/60 Hz ±5%
- Output frequency range: 0.5 to 400 Hz
- Power range from 0.2 to 7.5 kW (0.25 hp and 10 hp)
- Built in front potentiometer
- Intelligents programmable input/output terminals
- Pure analog monitor output (8-bit, 0-10 V DC)
- External thermistor terminal (PTC or thermal cut)
- Cooling-fan on/off
- Instantaneous power failure recovery
- Second motor setting
- Over-voltage suppression at deceleration
- 3-wire control
- Analog input selection and calculate function
- Second acceleration/deceleration setting
- Jogging
- Auto-carrier frequency reduction
- Unattended Start Protection (USP)
- RS-485 Serial port with Modbus®-RTU
- 16 stage multispeed



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ERFUL BENEFITS



# THE CHOICE IS YOURS



Interroll offers a drum motor/frequency converter package with two different series of converters complying with all of today's widely-used standards.

## **SJ200 – Featuring enhanced ISPM-technology with sensorless vector control**

The SJ200 offers outstanding performance and design characteristics, such as superior torque for demanding applications and exceptionally compact size.

It is suited for various applications that need high dynamic and constant torque at low frequency.

- Intelligent sensorless vector control
- Constant torque at very low frequencies
- Starting torque up to 200 %
- Optimised efficiency
- Dynamic braking and regenerative braking circuit
- Optional EMC filter to EN 61800-3
- Removable terminal strips for easy wiring

## **Quality of motor control**

The new "Intelligent Sensorless Vector Control" no longer requires a complicated auto-tuning process to achieve optimal performance.

The new "Intelligent Sensorless Vector Control" ensures maximum starting torque and optimum dynamic response under changing loads.

The software ensures accurate torque and speed control throughout the entire frequency range, even with general purpose motors.

- 100 % continuous operating torque within a 1:10 speed range (5 to 50 Hz/6 to 60 Hz) without motor de-rating



## **X200 – The economic drive solution for simple applications**

The X200 offers a standard "Emergency Stop" function and provides additional functionality and cost effectiveness

- V/f control
- Low load detection
- Integrated EMC filter EN 61800-3

## **L100 M – single phase 100 V inverter class**

- MFU2 models for USA
- Output 3~ 0 to 240 VAC (corresponding to 2 times input voltage)
- V/f control
- Dynamic braking
- Low load detection

## **Features/functions**

- Ready/standby
- Enable
- Start/Stop
- Speed up
- Slow down
- 1 or 2 stage ramp (Linear or S curve)
- Parking (DC braking)
- Alarm output relays
- Error information
- Temperature control
- Overload protection
- Automatic start
- PID controller
- Output timing and logical functions
- Output driver protection
- 87 Hertz setting (please consult Interroll)
- side-by-side installation

## **Additional components and accessories**

- Drive option: External key pad for quick and easy access
- Removable key pad for SJ200. Optional key pad kit for X200. Increases security by preventing access
- NEMA4X Optional Kit for Remote Mounting of OPE-SRmini
- AC line reactors
- DC link chokes
- EMC Filters
- Braking units



Conformity to global standards CE, UL, c-UL und c-Tick approvals



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