

ezStep-PM's electricity saving commitment

ezStep-PM, save your much more than others

- Strengthen truss structure
- Anti-leakage lubrication design
- Earthquake safety protection function
- Anti-virus handrail design
- Handrail tension auto-adjust function
- Easy plug-in connections
- High rigidity balustrade structure

Electricity bill comparison [Based on 4.5m rise escalator with average 60% loading rate]

Traditional escalator	ezStep-PM escalator
Average power capacity 8kW	Average power capacity 5kW
$\$0.25/\text{kWH} \times 8\text{kW} \times 60\% \times 12\text{Hour/Day} \times 365\text{Day/Year} = \$5,256/\text{Year}$	$\$0.25/\text{kWH} \times 5\text{kW} \times 60\% \times 12\text{Hour/Day} \times 365\text{Day/Year} = \$3,285/\text{Year}$

One ezStep-PM can save you \$2,000 per year.

If you own a shopping mall equipped with 20 ezStep-PM escalators, you can save \$200,000 with in 5 years only in the electricity bill.



Round-curve in step edge



Direction indicator



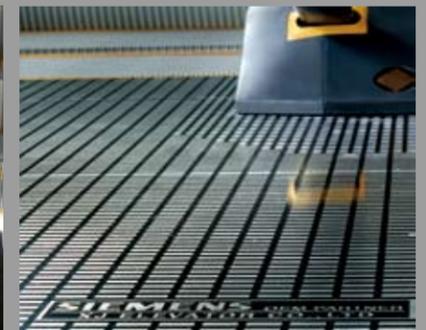
Full load distortion only 1/1200, [1/750 as standard requirements]



Automatic lubrication device



Entrance light



Anti-slippery floor plate



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Pictures in this brochure are computer generated; real product may be slightly different.
Specification and designs are subject to change without prior notice.

Gain more for you

XJ sincerely concerns about your profit, we believe only green product can serve you better in long term.

The first escalator to give electricity saving commitment

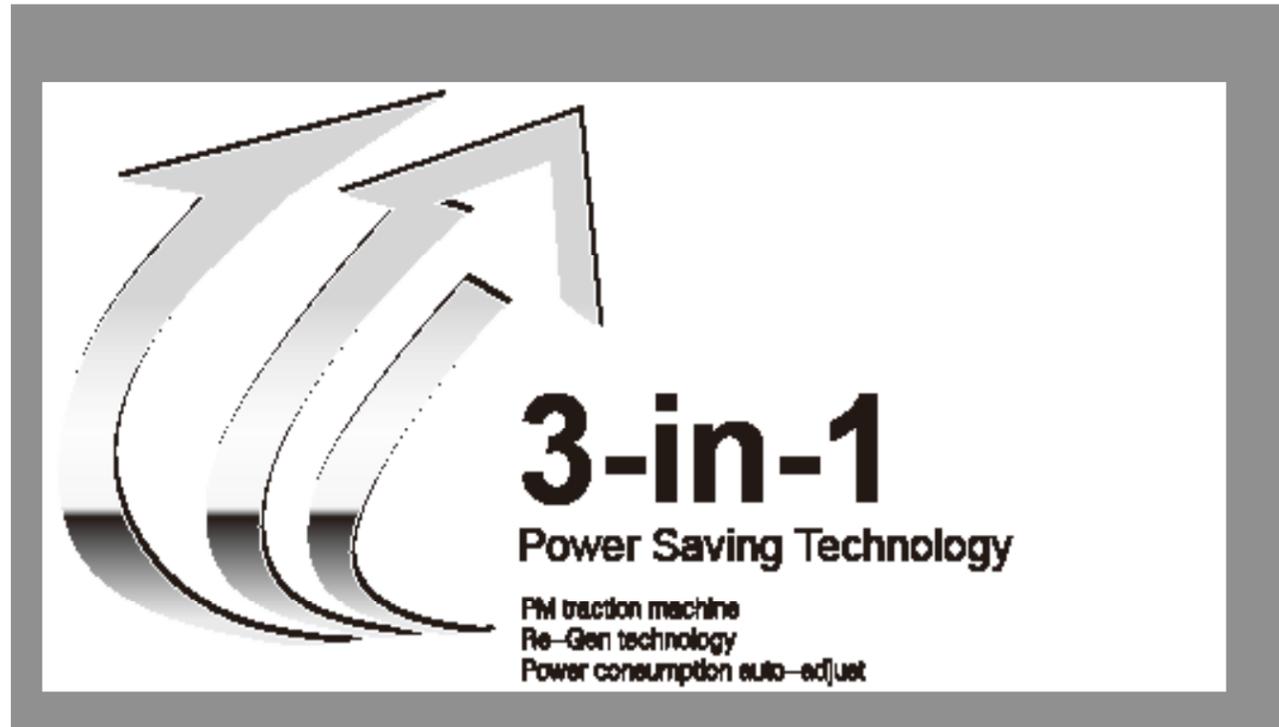
The first escalator to integrate three-in-one power saving technology

The first escalator to use PM synchronous traction machine

The first escalator to introduce power consumption auto-adjust feature

XJ SIEMENS
ezStep-PMTM Energy Saving Escalator

ezStep-PM, to build up your green dream



XJ successfully implements its electricity protection experience into Siemens TIA framework, presents ezStep-PM's unique three-in-one power saving platform.

PM traction machine

Unlike the traditional escalator, Easystep adopts PM traction technology. The overall energy saving can be 40%~70%.

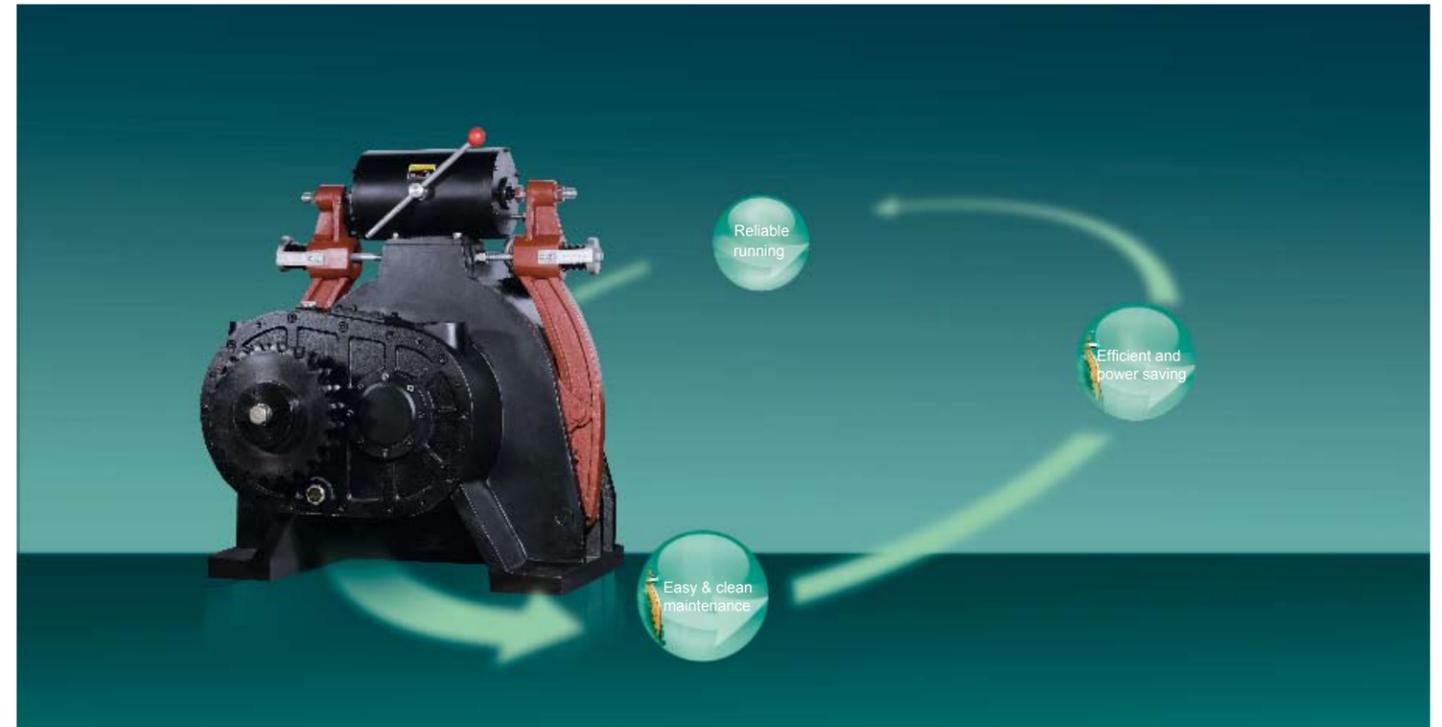
Re-Gen Technology

Re-gen unit can transform the kinetic energy into electricity to realize the Energy Re-Generation.

Power consumption auto-adjust

ezStep-PM adopts intelligent electricity management system, which is able to analyze the current loading and dynamically arrange the proper power supply. It greatly increases ezStep-PM's overall efficiency and cut down the power consumption in empty or non-full-loading condition.

ezStep-PM, a trouble-free escalator



The first PM motor driven escalator in the world

XJ introduces 6 invention patents into its PM traction machine driven escalator - ezStep-PM. Different with traditional designs, ezStep-PM is born with many outstanding advantages to maximally benefit our customers.

- High output torque – 25% higher than traditional machine
- High carrying ability – up to 180kN static load
- Excellent overloading performance – up to 290% rated load
- Low electricity consumption - 40%~70% energy saving



Traction machine energy saving

Compare to traditional worm-gear machine, PM machine can save 40% electricity consumption



Low noise

Traction machine operation noise is only 43dB in empty load condition.



Environmentfriendly

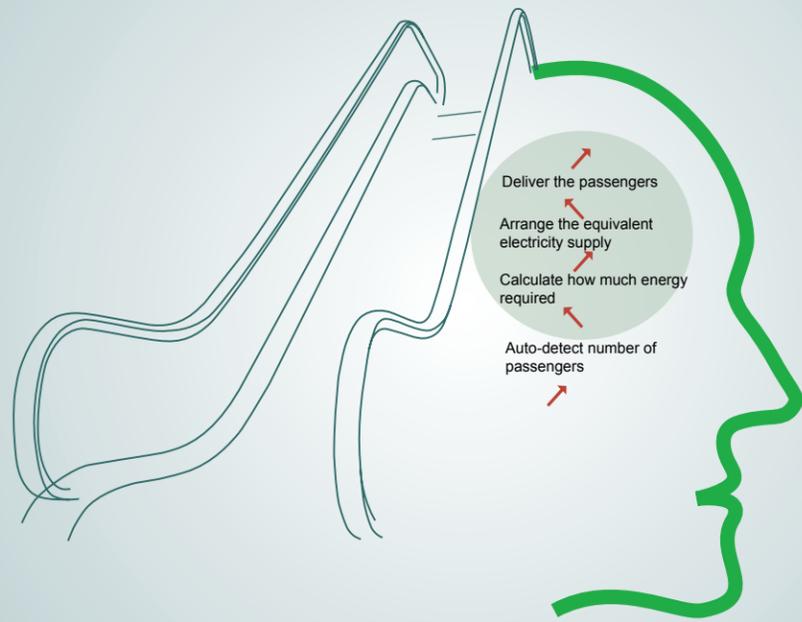
Low oil leakage, low electricity consumption and low EM radiation



Low temperature

Only 41K temperature rise after long time running.

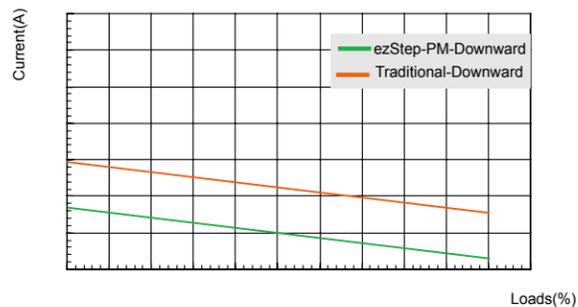
ezStep-PM, an intelligent escalator



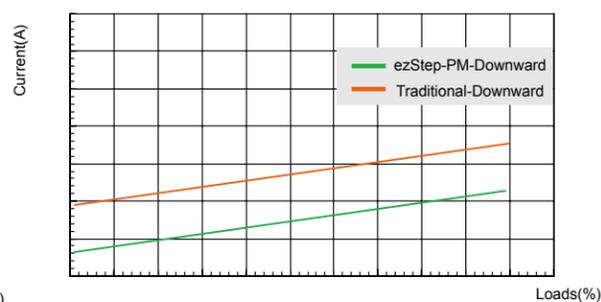
The first power auto-adjust escalator in the world

Power supply auto-adjusting function implants a brain into ezStep-PM's control system. ezStep-PM can intelligently regulate system power supply based on the actual escalator loading to greatly reduce the electricity wastage.

Load-Current Chart – Downward running

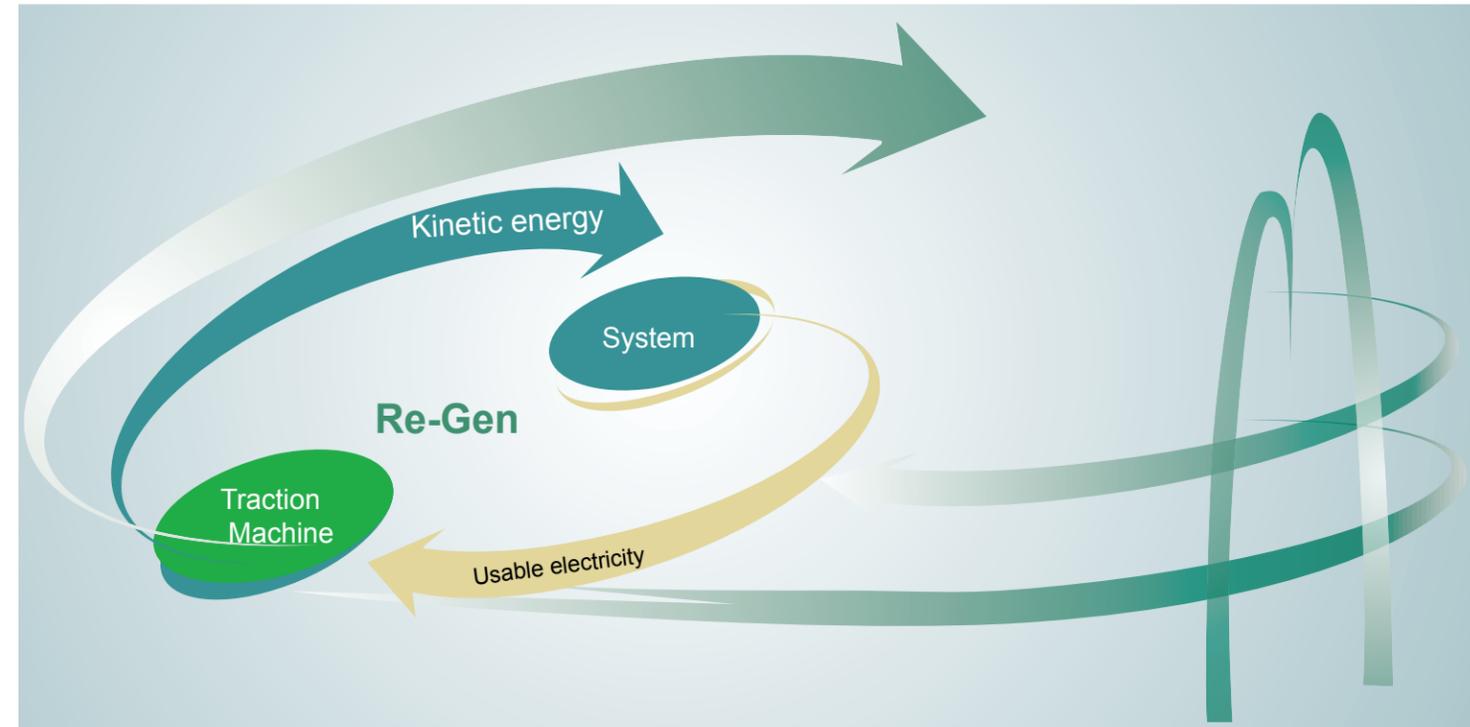


Load-Current Chart – Upward running



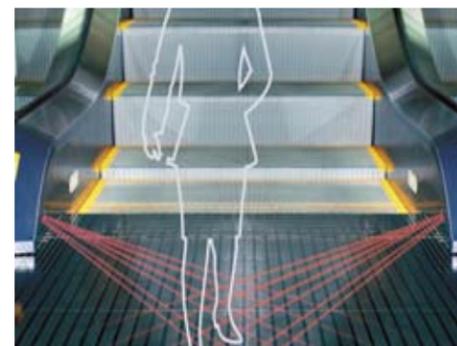
Under the same loading condition, ezStep-PM's power consumption is far below the traditional escalator.

ezStep-PM, an escalator with Re-Gen function



Electricity Regeneration

After adding re-gen function into ezStep-PM, the system can collect the downward running kinetic energy, transform it into re-usable electricity, and feedback back to other upward running escalator/travelators or local /public grid. From statistics, the ezStep-PM can save further 28% electricity consumption on average with reg-gen function.



Auto-Start/Stop Function



Intelligent Inverter