DAVI

PLATE ROLLS

4 ROLLS | e-POWER

MCE SERIES

The **first and only** complete line of **fully electric** plate rolls

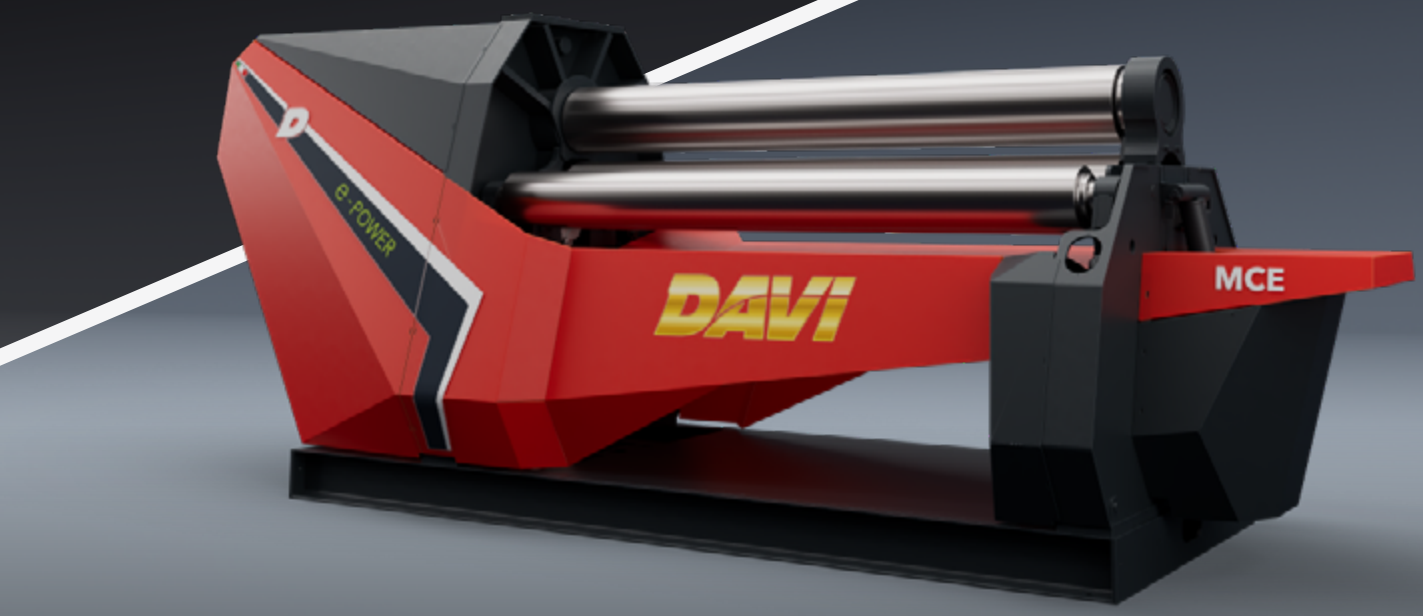


PLATE ROLLING

We changed the game





Components simplification

Fewer parts.
No problems.

Low consumption

Draws power only when needed.

Simultaneous movements

Every axis is independent and all of them can move together.

Increased productivity

Faster, no trade-offs.

Silent operations

58 dB. Like an office conversation.

Reduced maintenance

The simpler the machine, the less it asks of you.

The highest precision

Accurate to the hundredths of a millimeter.

Repeatability assured

The same roll, first piece to thousandth.

Easy integration

Built for what's next.

COMPONENTS simplification

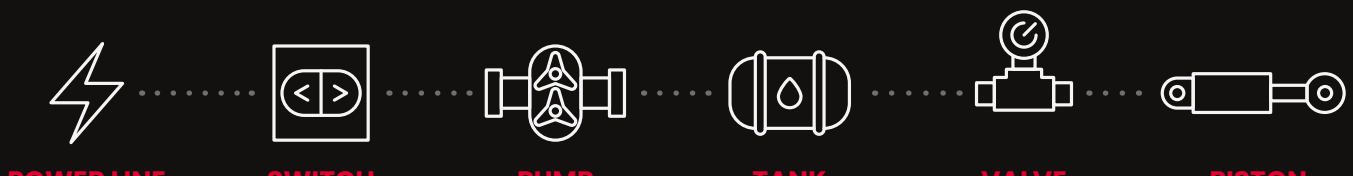
What isn't there, can't break.

No hydraulic unit. No oil. No filters. No piping. MCE e-POWER eliminates the most common causes of machine downtime at the root. Fewer components mean fewer failures, fewer interventions, fewer concerns. Here, simplicity is an engineering choice.

Fewer parts. No worries.

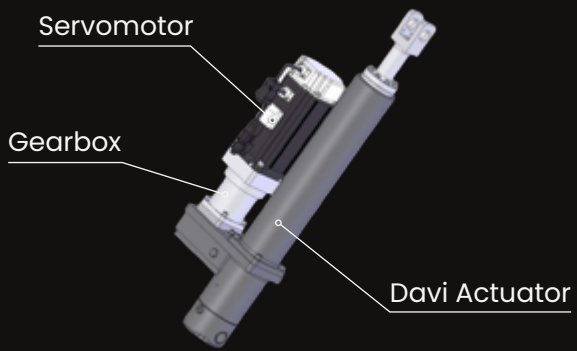
HYDRAULIC SYSTEMS

also hybrid solutions still have the hydraulic unit



MCE e-POWER





LOW consumption

The Start&Stop system brings consumption to zero in standby.

Small motors, low absorption. MCE e-POWER consumes up to 3 times less than an equivalent hydraulic plate roll. This is a structural choice.

Draws power only when needed. Zero when it doesn't.

HYDRAULIC 4-ROLL	2,682 kWh/year
HYBRID SOLUTION	1,743 kWh/year
MCE E-POWER	**929 kWh/year**

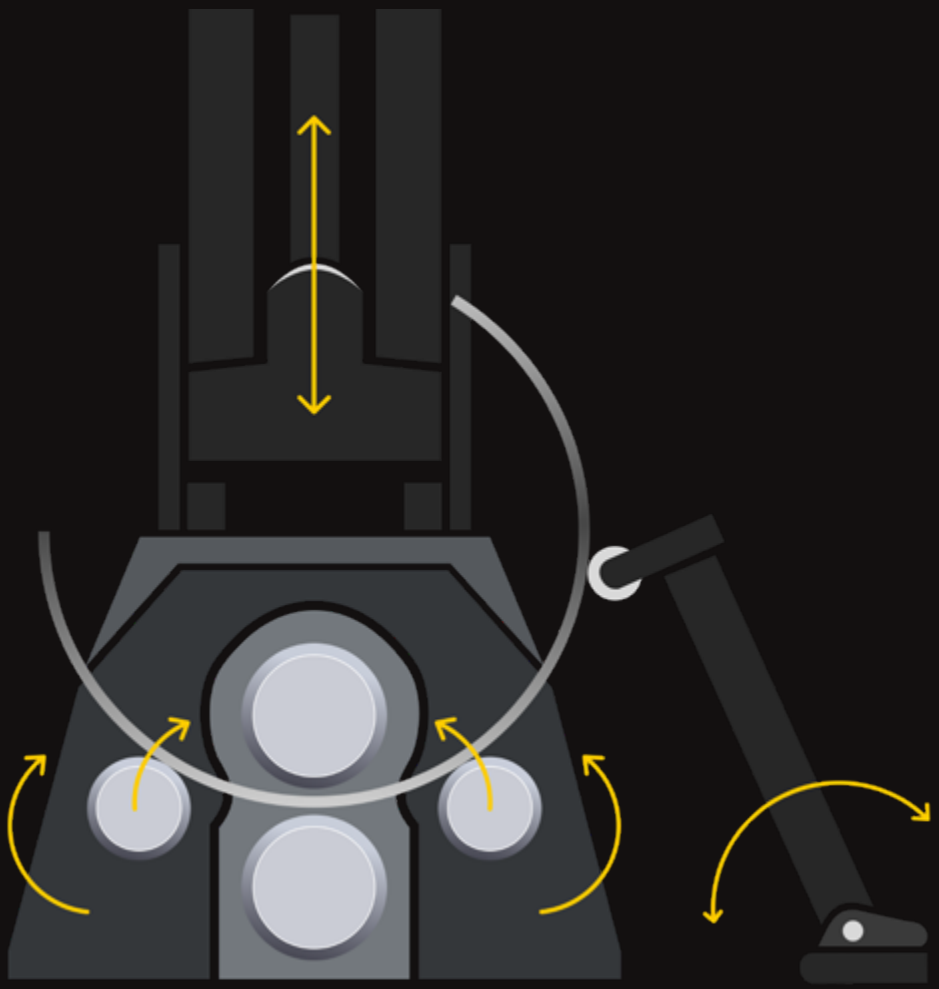
*Real data:
rolling 12 plates/hour,
8 hours/day,
220 days/year.

SIMULTANEOUS movements

Independence becomes speed.

In MCE e-POWER, every axis has its own servomotor, its own inverter, its own control logic. When the process allows it, they all move in parallel, with no interference, and no waiting. The result is a faster work cycle, with zero impact on precision.

Every axis is independent and all of them can move together



MCE e-POWER

INVERTER

LOGIC CONTROL

SERVOMOTOR

INCREASED productivity

Every second saved is a second earned.

The ability to move multiple axes simultaneously accelerates every phase of the rolling cycle. Cycle time is reduced and production increases: the process can be programmed with the highest precision, and every plate of the batch will be always consistent.

Faster.
No trade-offs.



HYDRAULIC 4-ROLL



MCE E-POWER*

+25 %

SILENT operations

A real impact on the working environment.

A traditional hydraulic plate roll emits up to 65 dB during operation, comparable to highway traffic. The MCE e-POWER operates at just 58 dB, equivalent to a conversation in a room. In standby mode, it is completely silent.

58 dB. Like an office conversation.

40% NOISE REDUCTION

HYDRAULIC 4-ROLL

65 dB. =



CARS IN THE HIGHWAY AT 130KM/H

MCE E-POWER

58 dB. =



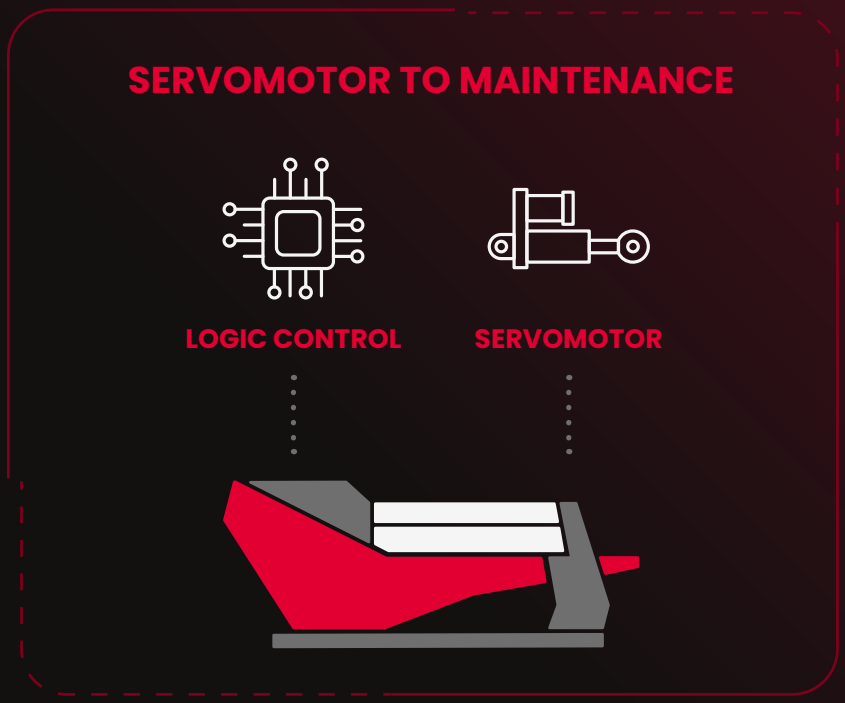
PEOPLE TALKING IN A ROOM

REDUCED maintenance

The best maintenance is the kind you never have to do.

The absence of a hydraulic unit eliminates the most frequent and most costly maintenance items. All it takes to move an axis is physically two things: the actuator on the axis and its dedicated inverter. Faults are localized. Routine maintenance drops dramatically. Unplanned downtime virtually disappears.

The simpler the machine, the less it asks of you.



THE HIGHEST precision

Twenty times more precise.

Hydraulic plate rolls control position to the first decimal place. MCE e-POWER controls it to the third decimal place. Each axis is managed by the CNC at a resolution with no precedent in this class of machine.

Accuracy down to hundredths of a millimeter.

PRE
CIS
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TWENTY TIMES MORE PRECISE

HYDRAULIC 4-ROLL

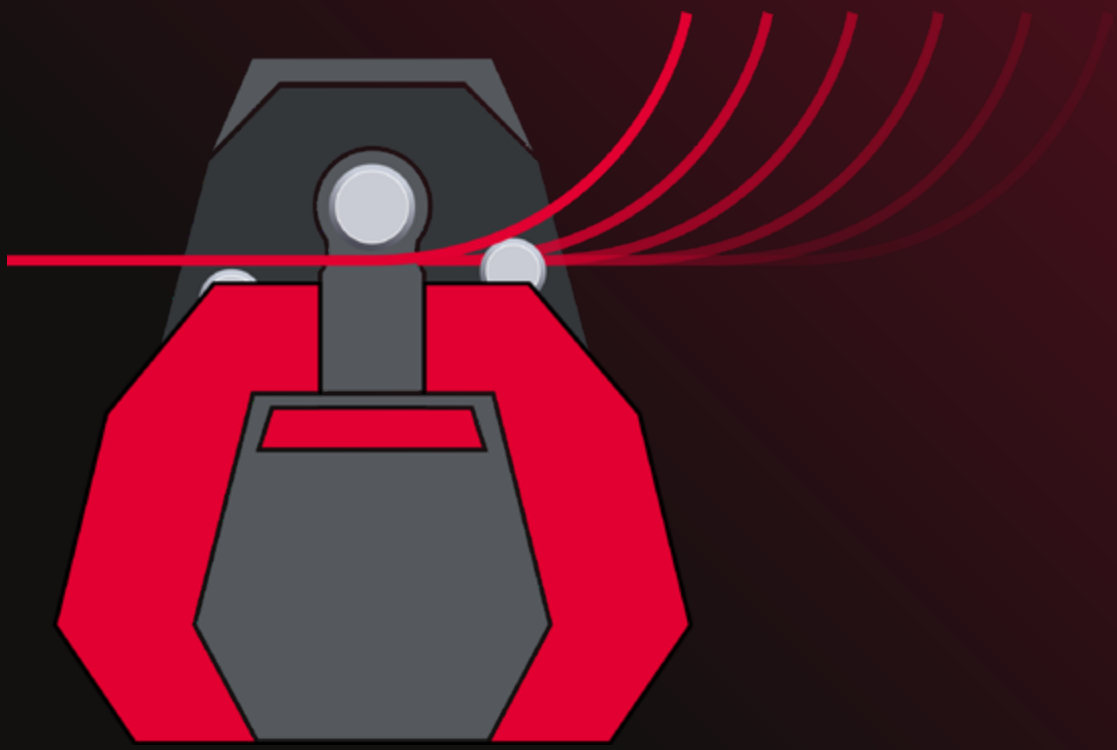
PRECISION

REPEATABILITY assured

Precision means nothing if it isn't consistent.

Achieving the correct radius on the first piece is essential. Achieving it on the hundredth piece, the thousandth piece, under the same conditions, that's another big test. MCE e-POWER guarantees roll positioning repeatability at the highest precision available on the market, eliminating the variables that turn every job into a gamble.

The same roll on the first and the thousandth piece.



EASY integration

Three technologies. One vision. Infinite potential.

MCE e-POWER is the ideal platform for integrating with AI-Vision, the laser radius measurement system with real-time self-correction. Only a machine capable of achieving this level of precision can fully leverage the corrections that AI-Vision applies in real time. With iRoll eXtreme, these three elements form a unique ecosystem, Autorolling®: the machine that rolls, the system that sees, and the CNC that corrects.

Built for what's next.



AUTOROLLING ©
No skilled operators

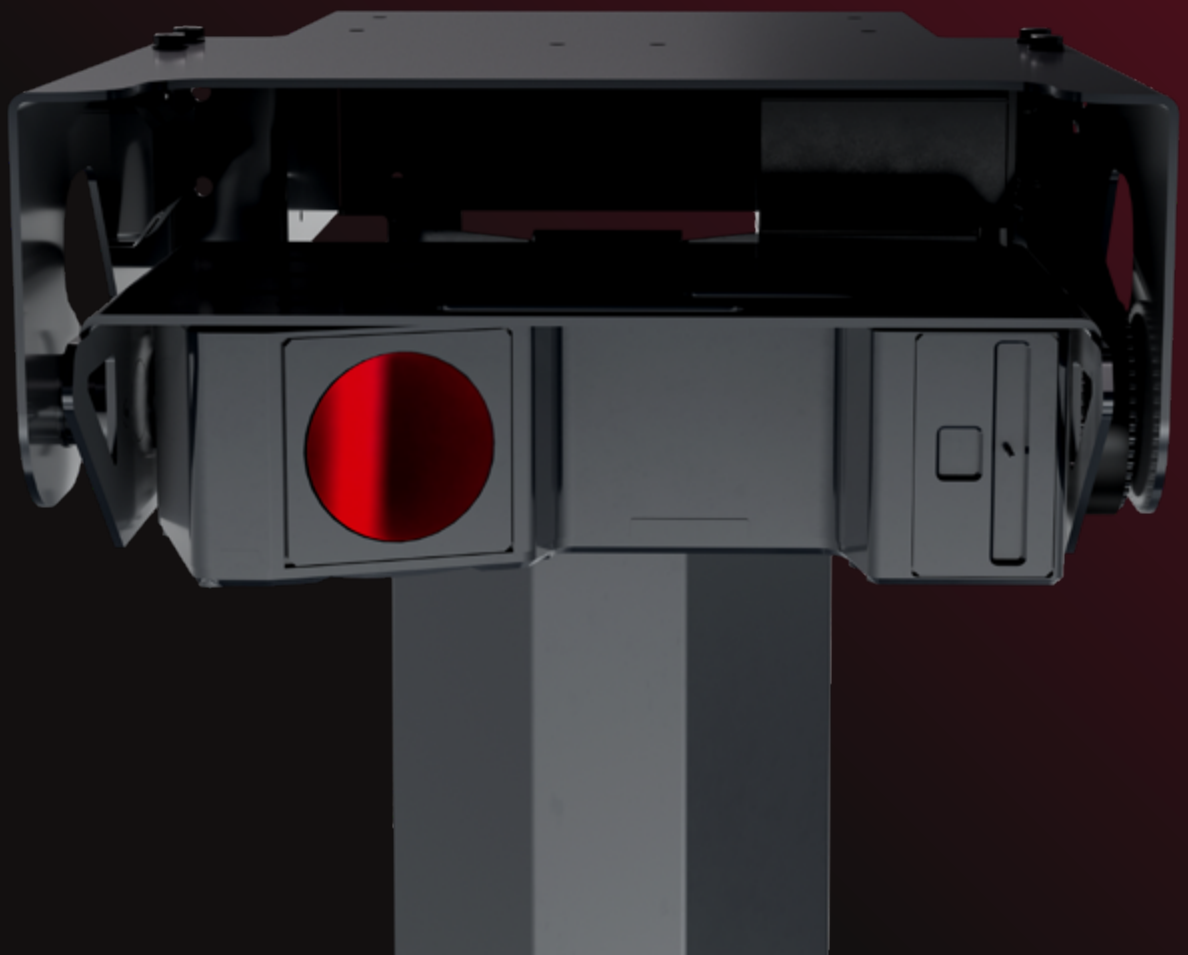


AI-VISION
SEE BEYOND

Autonomous correction, zero waste.

AI-Vision reads, understands, and adjusts in real time, correcting deviations automatically, eliminating trial-and-error and material waste. Format changes are handled seamlessly, minimizing test scrap when switching from one part to another.

SEE BEYOND
The skill gap.
Material waste.
Time loss.



DAVI

INSTALLATIONS

all over the











WORLD







DAVI

www.davi.com