

EDEN[®]

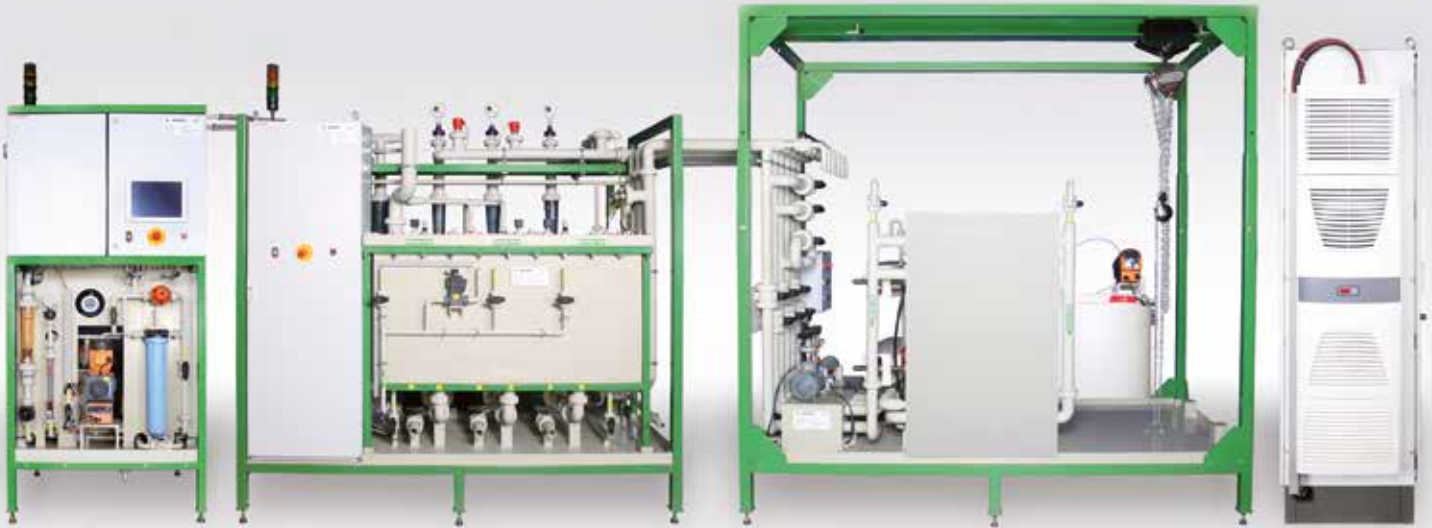
Electrodialysis system for electroless nickel



General Metal Finishing

Electroless nickel

atotech.com



Boost electroless nickel plating productivity



EDEN[®] complies with the high quality requirements of the automotive industry

The EDEN[®] system

The EDEN[®] (electrodialysis for electroless nickel) system is MKS' Atotech answer to all concerns about conventional electroless nickel operation.

Combining process chemistry and equipment, EDEN[®] regenerates the electroless nickel bath by removing by-products and keeping the concentrations of all ingredients within a defined range. This allows constant deposit quality over a potentially unlimited bath life. In addition, customers benefit from reduced chemical usage and waste.

Integrated, highly specialized production system



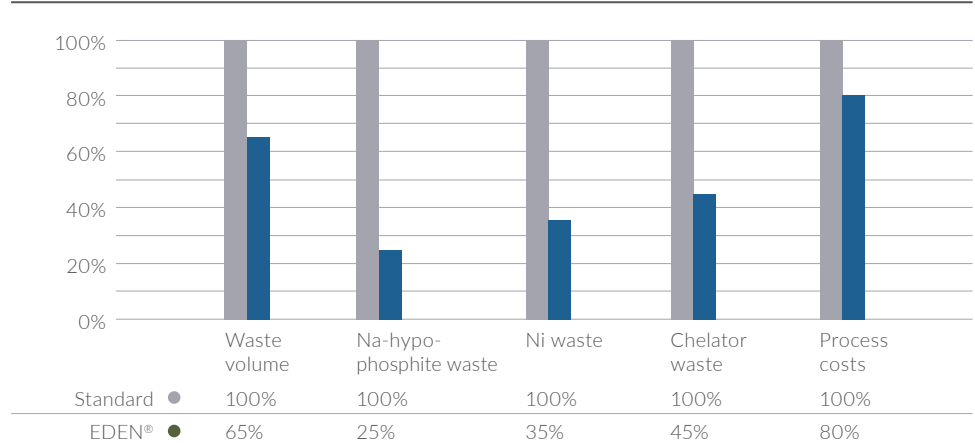
Figure 1-2:
Parts plated with
EDEN® technology



ELV and RoHS-compliant system chemistry

	Phosphorus content	Operating temperature	pH	Plating rate (µm/h)	Hardness as plated (HV _{0.1})	Appearance
EDEN® 113	8 - 10%	88 - 92 °C	4.8 - 5.3	11 - 18	550 - 650	Semi-bright
EDEN® 115	10 - 12%	86 - 91 °C	4.6 - 5.0	8 - 12	520 - 620	Bright

EDEN® vs. standard operation for high P electroless nickel application



Features and benefits

- Theoretical unlimited bath-life extension
- Consistent operating parameters
- Higher process stability
- Higher bath loading
- Higher productivity
- Consistent high quality coating
- Easy automation, flexible installation
- Suitable for ISO 9000/14000 operation

