



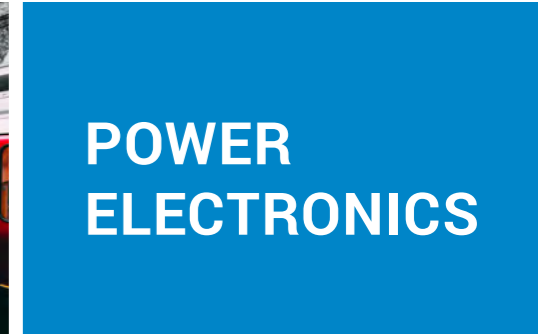
**POWER  
CAPACITORS  
& COMPONENTS**

Power capacitors





ZEZ SILKO s.r.o. is a reputable manufacturer of power capacitors, capacitors for power electronics, capacitors for induction heating and many other capacitor types. Company ZEZ SILKO s.r.o. provides complete power factor correction service including: power system evaluation including harmonic analysis, technical and commercial quotations, capacitor banks production and commissioning. Components for power factor correction and regulation of electrical energy are also supplied. ZEZ SILKO products are being exported to countries all around the world. They are for use on traction systems (locomotives, trams, trolleybuses), green energy generation (wind and photovoltaic power plants), energy sector (power factor correction) and also induction heating equipment. ZEZ SILKO s.r.o. has always been and will continue to be your reliable business partner.



## DC link capacitors

> DC filters of power converters

**Voltage:** up to 6 kV DC  
**Capacitance:** up to 20 000  $\mu$ F  
**Low stray inductance**



## AC filter capacitors

> Power converters (AC current filtering)

**Voltage:** up to 3,5 kV AC  
**Capacitance:** up to 600  $\mu$ F



## Snubber capacitors

> Semiconductors protection (IGBT, SCR)

**Voltage:** up to 10 kV DC  
**Capacitance:** up to 25  $\mu$ F  
**Extremely low stray inductance**



European manufacturer of capacitors



Tradition of capacitor production since 1930



Emphasis to quality of products



Quality control system (ISO 9001) since 1999



IRIS certification since 2014



Products are exported to countries all around the world





# POWER FACTOR CORRECTION



## Low voltage power capacitors

- › Power factor correction and harmonic filtering

**Voltage:** 230 – 1 000 V AC

**Frequency:** 50 / 60 Hz

**Power:** up to 100 kvar



## Low voltage banks

- › Standard and detuned capacitor banks
- › Thyristor switched capacitor banks
- › Substation banks



## Detuning reactors

- › Protection of capacitors and harmonics filtering

**Voltage:** 230 – 1 000 V AC

**Frequency:** 50 / 60 Hz

**Power:** up to 100 kvar



## Medium voltage banks

- › Fixed capacitor banks
- › Automatic capacitor banks



## Medium voltage power capacitors

- › Power factor correction and harmonics filtering

**Voltage:** up to 24 kV AC

**Frequency:** 50 / 60 Hz

**Power:** up to 1 000 kvar

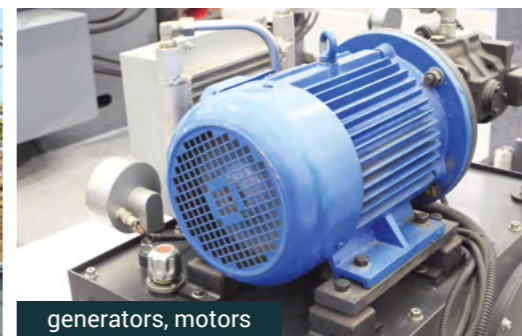


## Components for PFC

- › Microprocessor controllers
- › LV contactors with resistor switching
- › MV contactors
- › Thyristor modules
- › Measuring current transformers
- › Network analyzers



# INDUCTION HEATING



# MV SURGE PROTECTION

## Water cooled capacitors

> Power factor correction and circuits tuning

**Voltage:** up to 3 000 V  
**Capacitance:** up to 1 000  $\mu$ F  
**Power:** up to 8 000 kvar  
**Frequency:** up to 200 kHz



## MV surge capacitors

> Protection of MV motors, generators, transformers

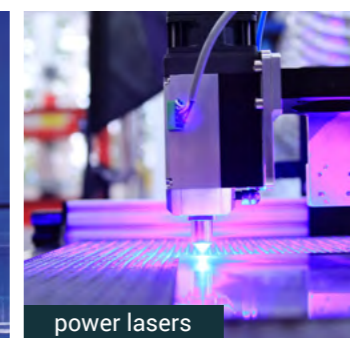
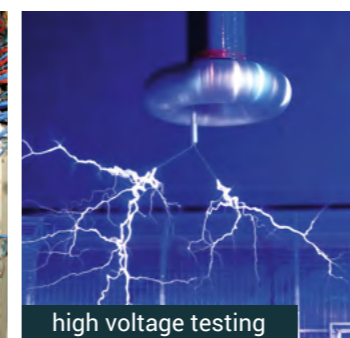
**Voltage:** up to 24 kV AC  
**Capacitance:** 0,1 – 0,6  $\mu$ F



## Coax type capacitors

> Power factor correction and circuits tuning

**Voltage:** up to 2 000 V  
**Capacitance:** up to 12  $\mu$ F  
**Power:** up to 1 000 kvar  
**Frequency:** up to 400 kHz



# ENERGY STORAGE

## Air cooled, low frequency capacitors

> Power factor correction and circuits tuning

**Voltage:** up to 800 V  
**Capacitance:** up to 4 400  $\mu$ F  
**Power:** up to 360 kvar  
**Frequency:** up to 50/60 Hz



## Impulse capacitors (energy storage)

> Charging and discharging (high peak impulses)

**Voltage:** up to 100 kV







ALL AROUND THE WORLD

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[WWW.ZEZ-SILKO.COM](http://WWW.ZEZ-SILKO.COM)



**ZEZ SILKO, s.r.o.**

Pod Černým lesem 683  
564 01 Žamberk  
Czech Republic

+420 465 673 111  
[zez@zez-silko.cz](mailto:zez@zez-silko.cz)

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