ROTOCAV
An innovative cavitator designed by E-PIC S.r.l.

Maximize your profitability with an advanced cavitational technology

Smaller.....
......Safer
Cleaner......

Benefits of the ROTOCAV include:
- modular design,
- outstanding performance in micro-mixing,
- fully continuous operation,
- compact system with multiple process steps in one equipment (mixing, disintegration, homogenization),
- versatility, the system can process liquids with different viscosities, in the presence of gases and/or solids,
- short processing time,
- small mixing hold-up,
- easy scale-up

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**Working principle and processing**

ROTOCAV intensifies traditional processes, optimizing mass transfer and diffusivity phenomena. It speeds up reactions thanks to the continuous generation of microjets that promote the generation of many and confined points of contact between the reagents. ROTOCAV can be easily integrated in existing processing plants, allowing their intensification with few modifications. Liquids, mixtures and suspensions passing through the cavitation chamber are subjected to several physical phenomena:

- Intensive micro-volume mixing
- Pressure waves and cavitation
- High shear stresses
- Turbulence

**Standard models - Characteristics**

**Motor:**
- standard or ATEX
- IE3, IC416, IP55
- 380/400V, 50 Hz, or other voltage/frequency on request
- 4 kW - 75 kW

**Cavitation chamber:**
- rotor and stator in special alloy with specific composition to improve erosion, corrosion and abrasive resistance

**Seals:**
- high quality and top reliability seals, mechanical, double, with dedicated locking vessels

**Base frame:**
- for the safe installation of the machine

**Materials:**
- stainless steels, duplex steels, or other materials on request

**Flow rate:**
- up to 40 m³/h

**Op. pressure:**
- 1 / 8 bar

**Op. temperature:**
- +10 / +110 °C

Explosion proof manufacturing on request, according to ATEX guidelines 2014/34/UE (zone 1 or 2)