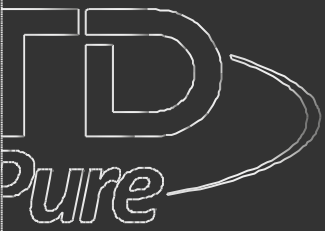


**STD**  
*All Pure*  
pharmaceuticals process innovation





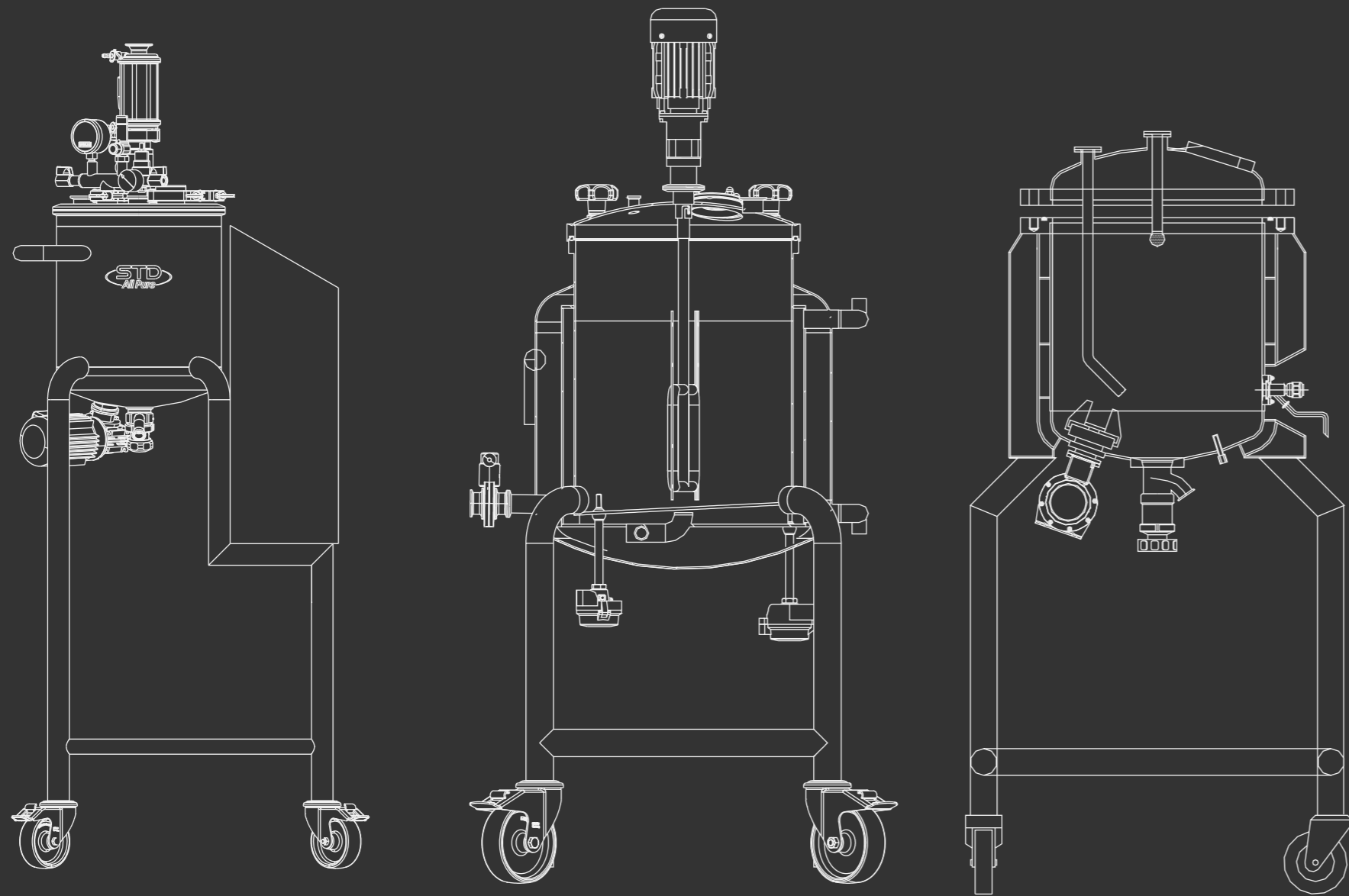
STD focus is to design and build equipments used in pharmaceutical and biotechnological process, compliance with ISPE, PED, CE, FDA, cGMP, ASME BPE and CFR 21 standards. Our mission is to provide innovative solution from design up to turnkey project with installation engineering based on extensive experience, covering all customers needs. STD manufactures equipment for the preparation and fermentation of pharma products, Reactors Dissolvers and Storage tanks for pure fluids; we also design and build preparation rooms and WFI/PW loop for production and distribution.



We design and manufacture Cleaning and Sterilization systems (CIP/SIP) for productions equipments and self-powered LAF trolleys. Our services includes all project phases, from design to the installation up to validation (DQ/ IQ/OQ and PQ) and post-installation. Every day, we work to develop products e solution to meet our customers needs.



# SPR REACTOR



<i>Model</i>	<i>SPR</i>
<i>Capacity</i>	<i>10lt - 500lt</i>
<i>Thermostated</i>	✓
<i>Insulated</i>	✓

Built in Stainless Steel 316L; used for pharmaceutical and biotechnological process, compliance with cGMP, FDA, ISPE, PED and CE standards.

These reactors are supplied with magnetic, pneumatic or electric mixer with top or bottom installation; the internal surface undergo a passivation process and finished with mirror polishing with a roughness <math><0.5 Ra</math>, while externally can be mirror polished or satin.

The control cabinet will be equipped with PLC, DCS or SCADA and can be mounted on Reactor body or at wall; the control system will be developed according to customer requests and production needs. The environment variables will be recorded during the production phases in order to be analyzed or exported to remote drive through the company network or USB drives.

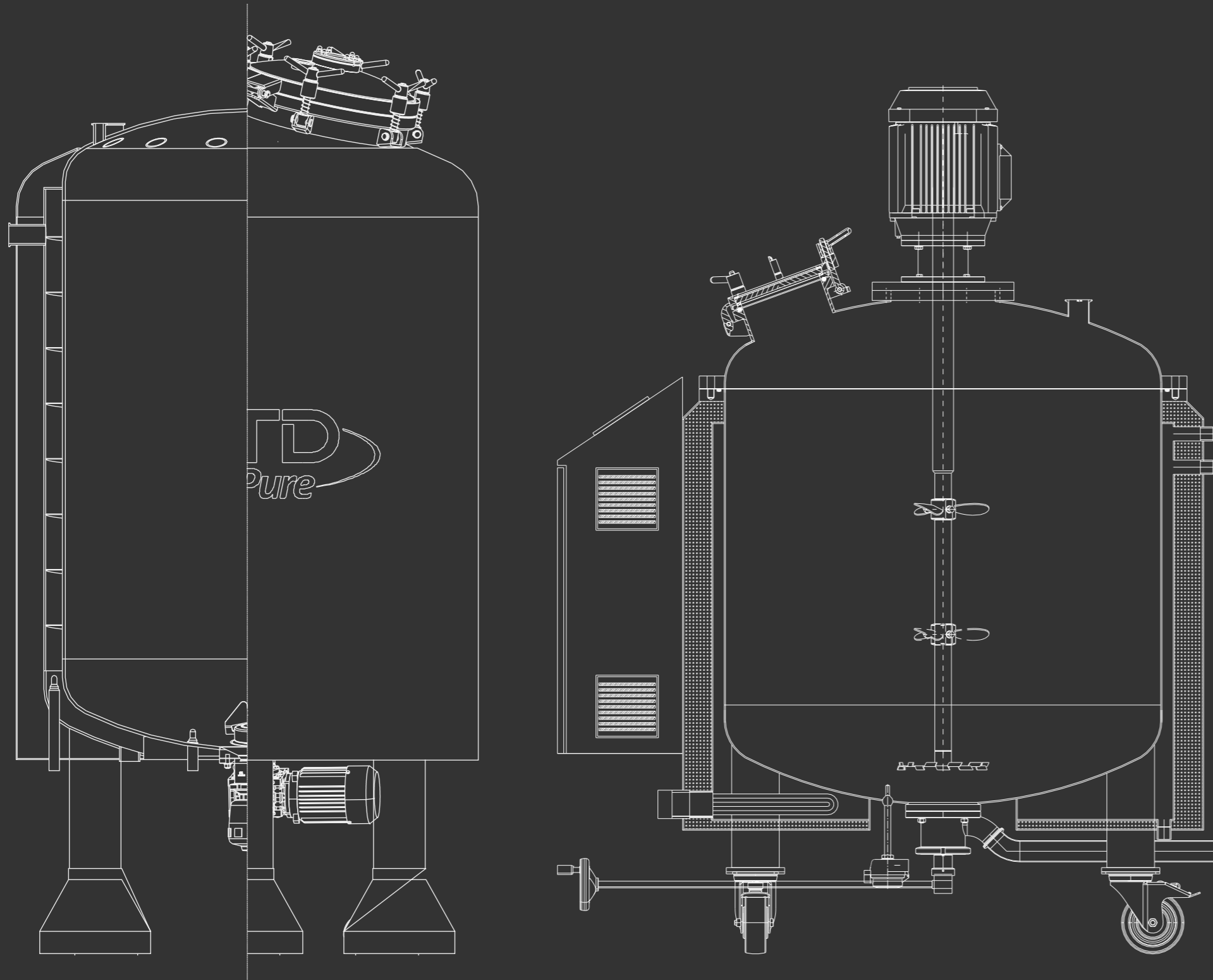


Certified  
Roughness



Passivated

# SPD DISSOLVER



Model	SPD
Capacity	50lt - 1500lt
Thermostated	✓
Insulated	✓

The construction of dissolvers for pharmaceutical and biotechnology process requires special attention to the design phase. The characteristics of the products to be processed and the type of instrumentation required make the design unique and tailor-made. It can be supplied with a control system based on PLC, DCS or Scada. Built compliance with cGMP, FDA, ISPE, PED and CE standards.

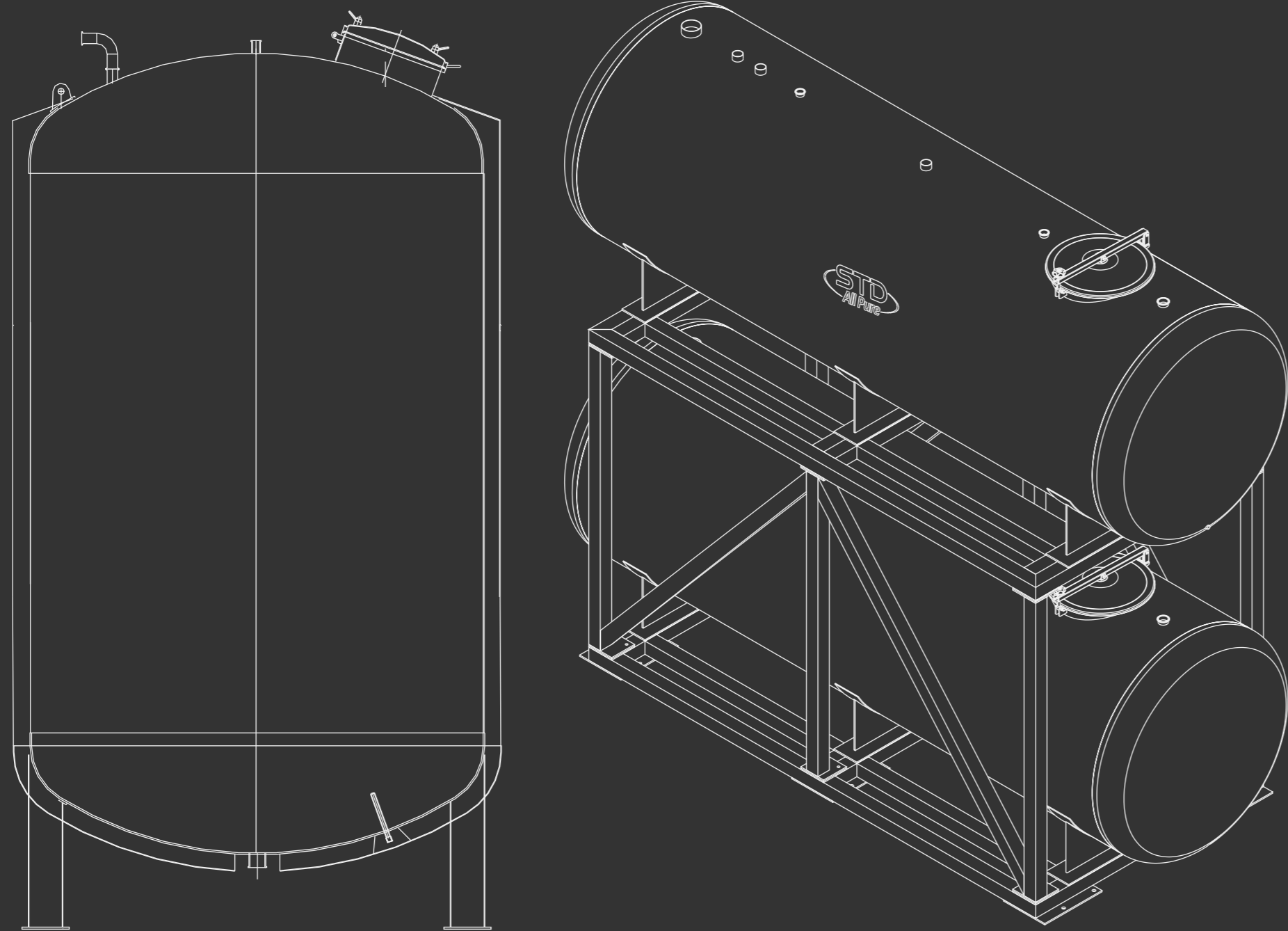


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Roughness



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# SST STORAGE



Model	SST
Capacity	20lt - 20.000lt
Thermostated	✗
Insulated	✓

Built in Stainless Steel 316L, compliance with cGMP, FDA, ISPE, PED and CE standards. Internal surface undergo a passivation process and finished with mirror polishing with a roughness <math><0.5 Ra</math>, while externally can be mirror polished or satin scotch brite.

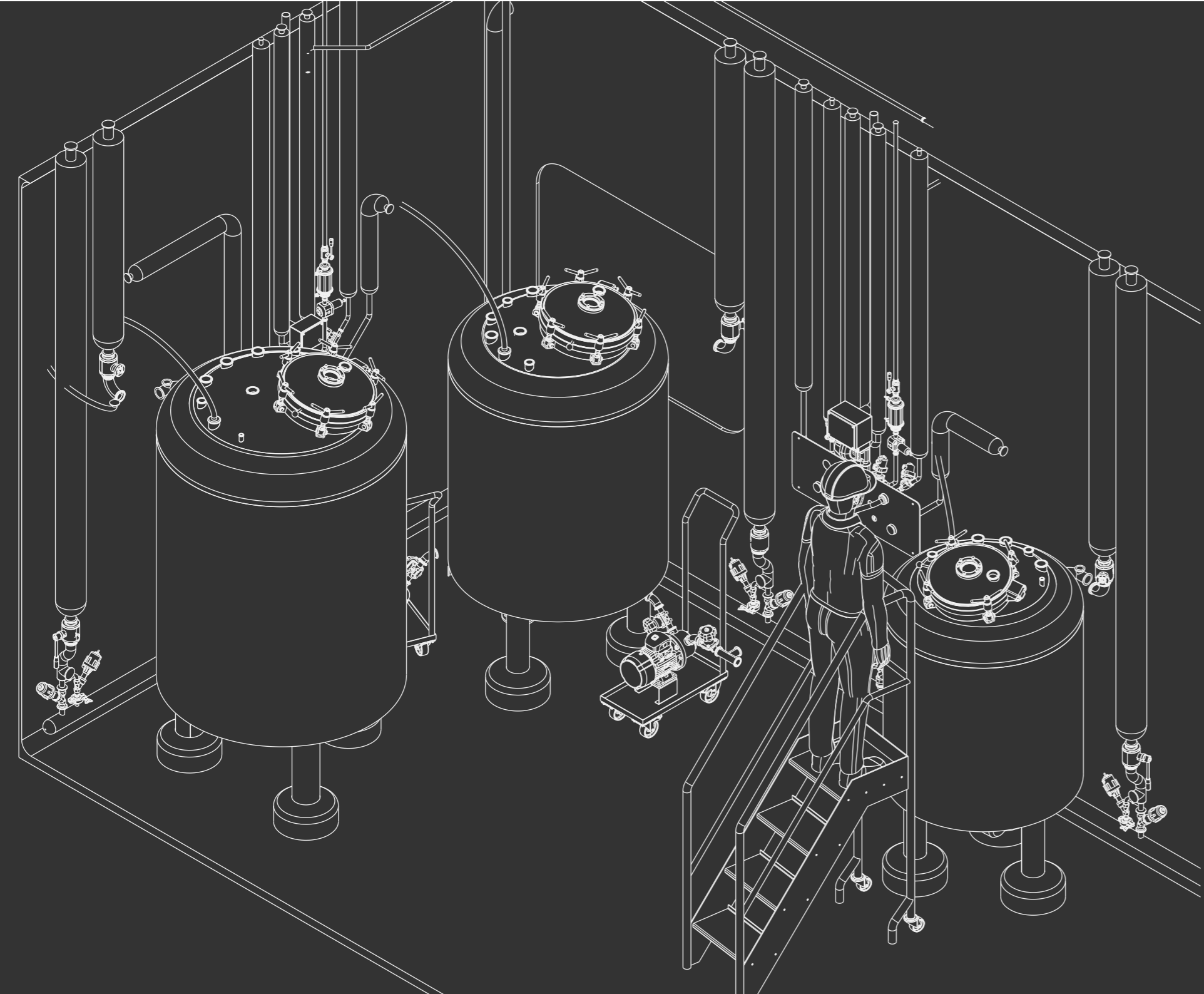


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# PREPARATION ROOMS



We design and manufacture turnkey PREPARATION ROOMS complete with everything necessary, starting from piping, mixer and tanks up to the automation control system based on PLC, DCS and Scada technologies in accordance with cGMP, FDA and ASME BPE standards. STD services cover all phases of the work, from design to validation (DQ IQ OQ and PQ).





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