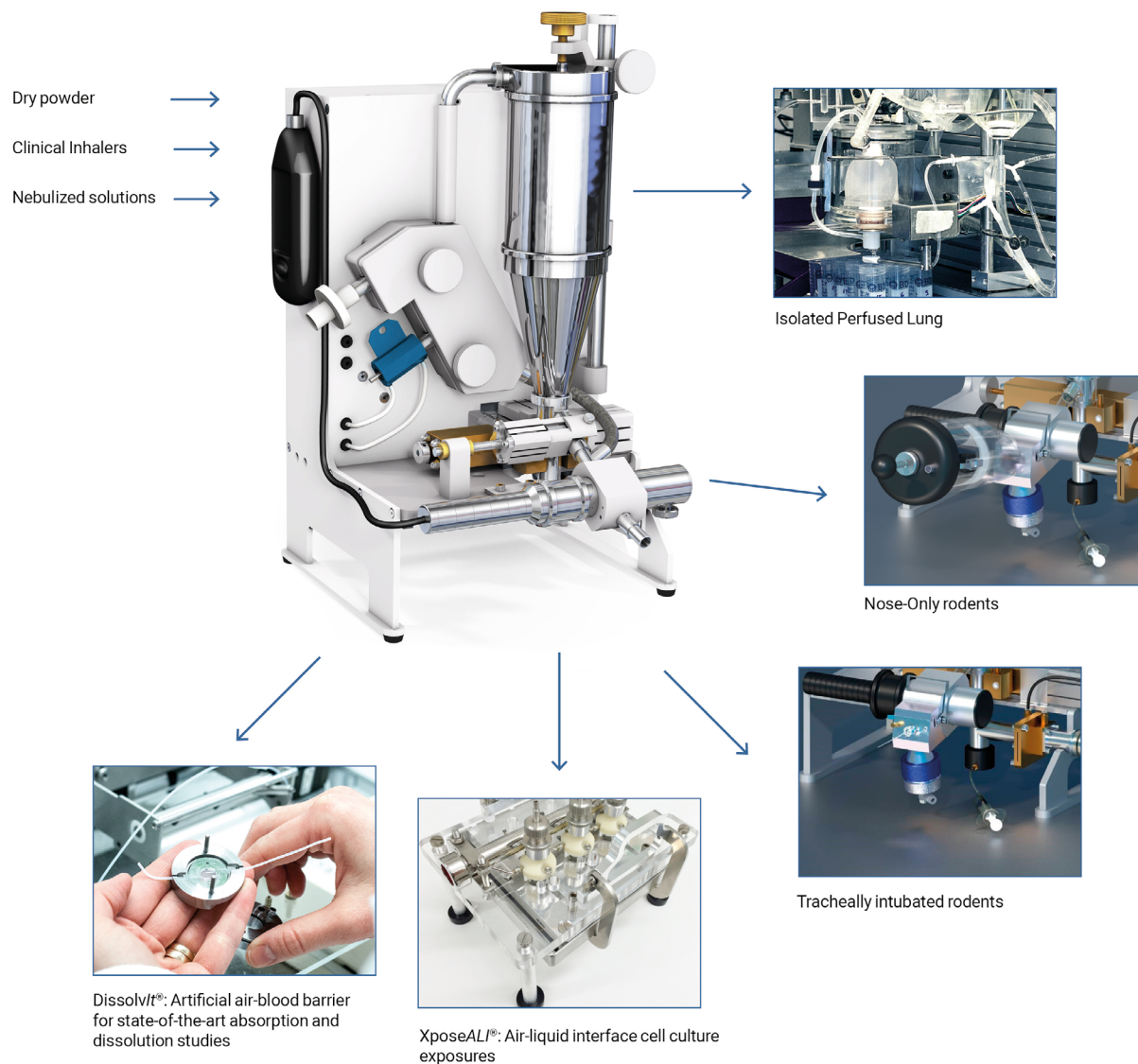


PreciseInhale® - The aerosol switchboard



A wide range of exposure modules

Because the aerosol produced by PreciseInhale is controlled, it is easily exposed in a range of exposure modules. The aerosol can be sourced from dry powders, inhalers or nebulized solutions, optimizing conditions for a wide range of substrates. PreciseInhale works as an exposure platform for small-scale inhalation experiments by precisely dosing animals *in vivo*, lungs *ex vivo*, and depositing material for *in vitro* exposure and dissolution testing.

Reach out to us for more information about inhalation products:

TSE Systems GmbH

Louisenstr. 65
61348 Bad Homburg, Germany
Phone: +49-6172-789-0
E-Mail: info@TSE-systems.com
Internet: www.TSE-Systems.com

A quality-not-quantity methodology

The precision dosing methodology creates big benefits from working on a meticulous scale. Tailoring each exposure, and using small, precise amounts, one-animal-at-a-time, generates exceptionally accurate, reliable results - reducing the number of tests needed and the amount of test substance required.

100 mg

As little as 100 mg or less of test substance can run a full PK study



PreciseInhale[®] reduces development time by indentifying the right candidate drug early on

< 10% SD

Generates data on precise dosing with a typical standard deviation of less than 10%

IVNC

One aerosol across a range of exposure modules producing predictive, comparable data, with less translational issues

< 5 μ m

Customized dose setting gives consistent particle size distribution from nano particles upwards

3R

One-animal-at-a-time method plus *in vitro* capabilities reduces, refines & replaces animals