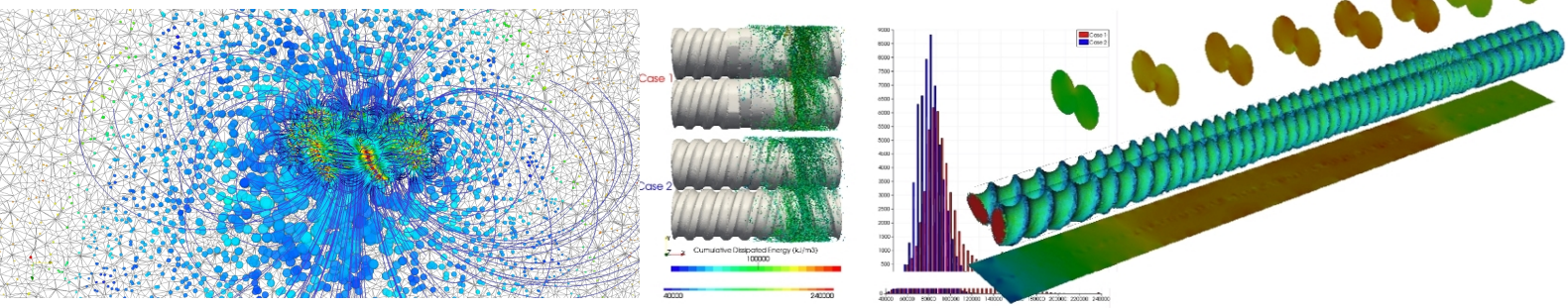
The solution for Twin-Screw extrusion
Local numerical analysis

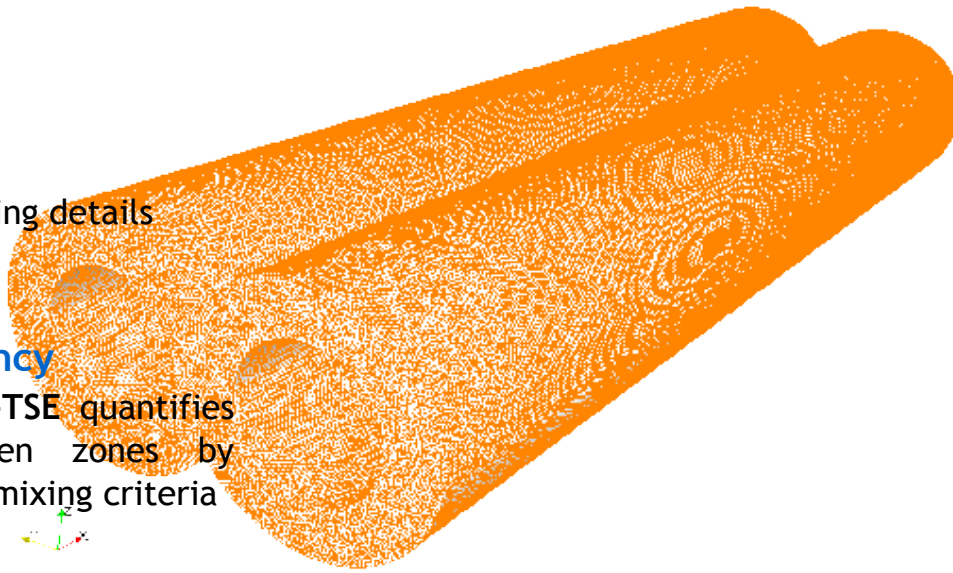


XimeX® TSE

Features 3D efficiency functionnalities for twin-screw extruders local analysis. XimeX-TSE simulates your own equipment with user's meshfree SCC specific technology : no numerical skills required !

Local analysis focused

Modeling the mixing processes for
- getting indeep details on the mixing details
- optimizing the processes

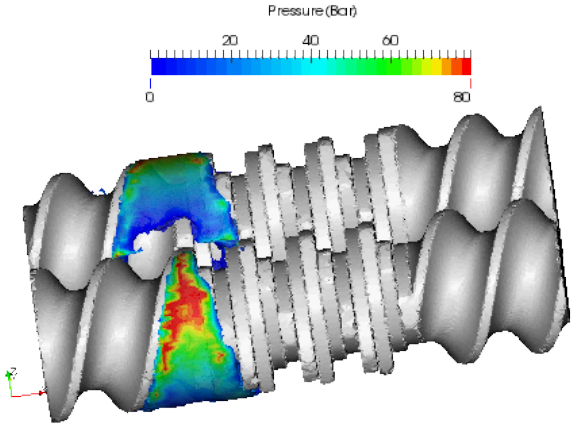


Quantifying the mixing effiency

With a particles analysis, **XimeX-TSE** quantifies the mixing efficiency on given zones by identifying dispersive/distributive mixing criteria

Process optimization at the finger tips

XimeX-TSE simulations scan the optimization potentiality of a couple process/products



Spreading the simulation benefits

With fully parallelized computation, **XimeX-TSE** provides fast and reliable results for spreading the simulation benefits in a glance

Control the Process to Control the Product

Sciences Computers Consultants
Saint Etienne France

SCIENCES COMPUTERS CONSULTANTS

Sciences Computers Consultants Inc.
Montréal (Québec)

XimeX-TSE is designed on the basis of XimeX strategic Initiative : A research project dedicated to mixing processes simulation platform, lead with a pool of industrials companies and supported by SCC and CEMEF lab from MinesParisTech.

Numerical technology

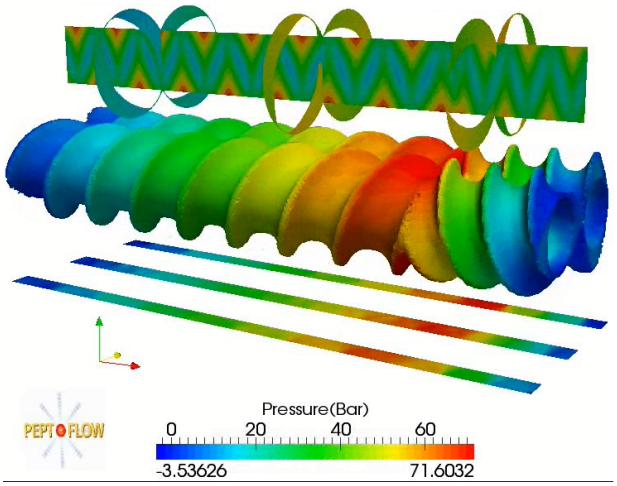
The XimeX development platform introduces a single mesh multi domain developed at Cemef (Cimlib®). This allows to adress easily complex geometries and kinematics. No more troubles to generate meshes !

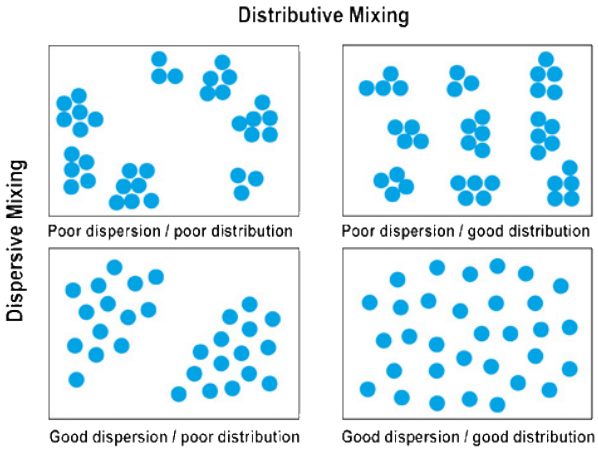
Material Rheology

When adressing mixing objectives, rheology of material is the key point. XimeX uses a Cemef designed algorithm to solve FEM problems even with extremely complex rheologies (threshold , non newtonian …)

Process Optimization

Computation accuracy is used for testing the whole functioning window for a given equipment. This makes easier the process optimization in a few results analysis.





Cemef
CENTRE DE MISE EN FORME DES MATERIAUX

The particles statistical analysis allows to track particles on the material flow to identify the physical phenomena and quantify the mixing of a given equipment.
Particles can be analysed from different point of views : position, velocity, strech, erosion, entropy ...

Control the Process to Control the Product

Based on a 30-year experience, SCC is your partner in manufacturing processes optimization with applied engineering simulation solutions.

Continuous innovation brought by our R&D collaborations and activity provide our customers the most suitable and efficient process simulation solutions.

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