ICEM Mesh Creation

2D Horizontal Structures

Geometric parameters

GEOMETRIC PARAMETERS			SUPPORTED VARIANT
X-COORD	H	Total domain size	All
	h_i	Size of film inlet	All
	h_d	Size of distributor	All
	d_{gr}	Size of grooves	All
Y-COORD	L	Size of film wall	All
	l_s	Size of structures	All
	l_{gr}	Size of grooves between structures	All
	l_i	Size of unstructured wall at inlet	All
	l_o	Size of unstructured wall at outlet	All
	l_{ag}	Size of additional gas space	Inlet Variant 2
STRUCTURES	n_s	Number of structures	All

Meshing Zones

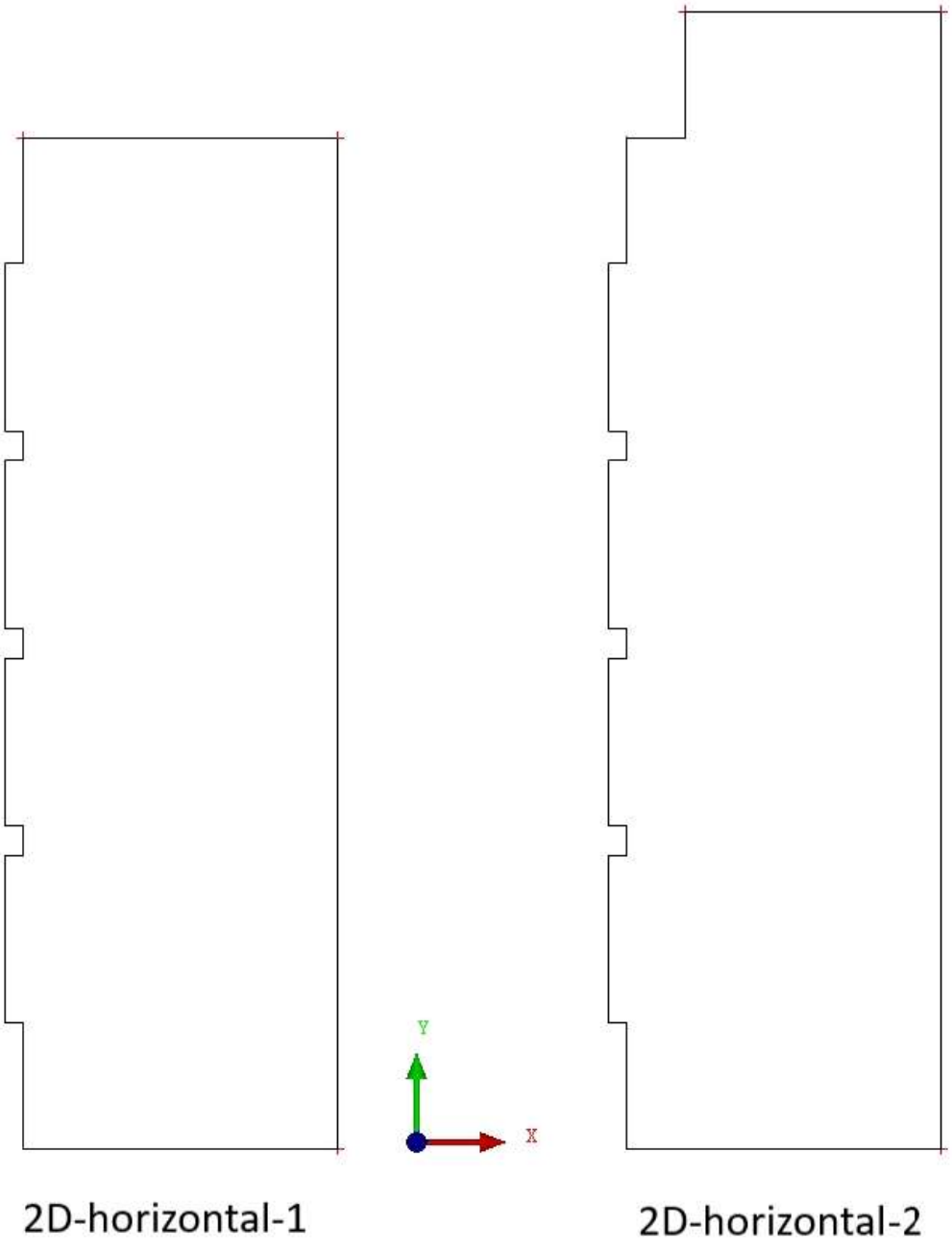
MESHING ZONES		COMMENT	SUPPORTED VARIANT
X-COORD	h_i	Film inlet	All
	h_d	Distributor	All
	h_g	Gas space	All
	d_{gr}	Grooves	All
Y-COORD	l_s	Structures	All
	l_{gr}	Grooves	All
	l_i	Unstructured wall, inlet	All
	l_o	Unstructured wall, outlet	All
	l_{ag}	Add. gas space	Inlet Variant 2

Parts/Boundaries

PARTS/BOUNDRARIES	COLOR
FILMINLET	RED
FILMWALL	GREEN
FILMOUTLET	VIOLET
GASWALL	LIGHT BLUE
GASTOP	ORANGE
DISTRIBUTOR	DARK BLUE

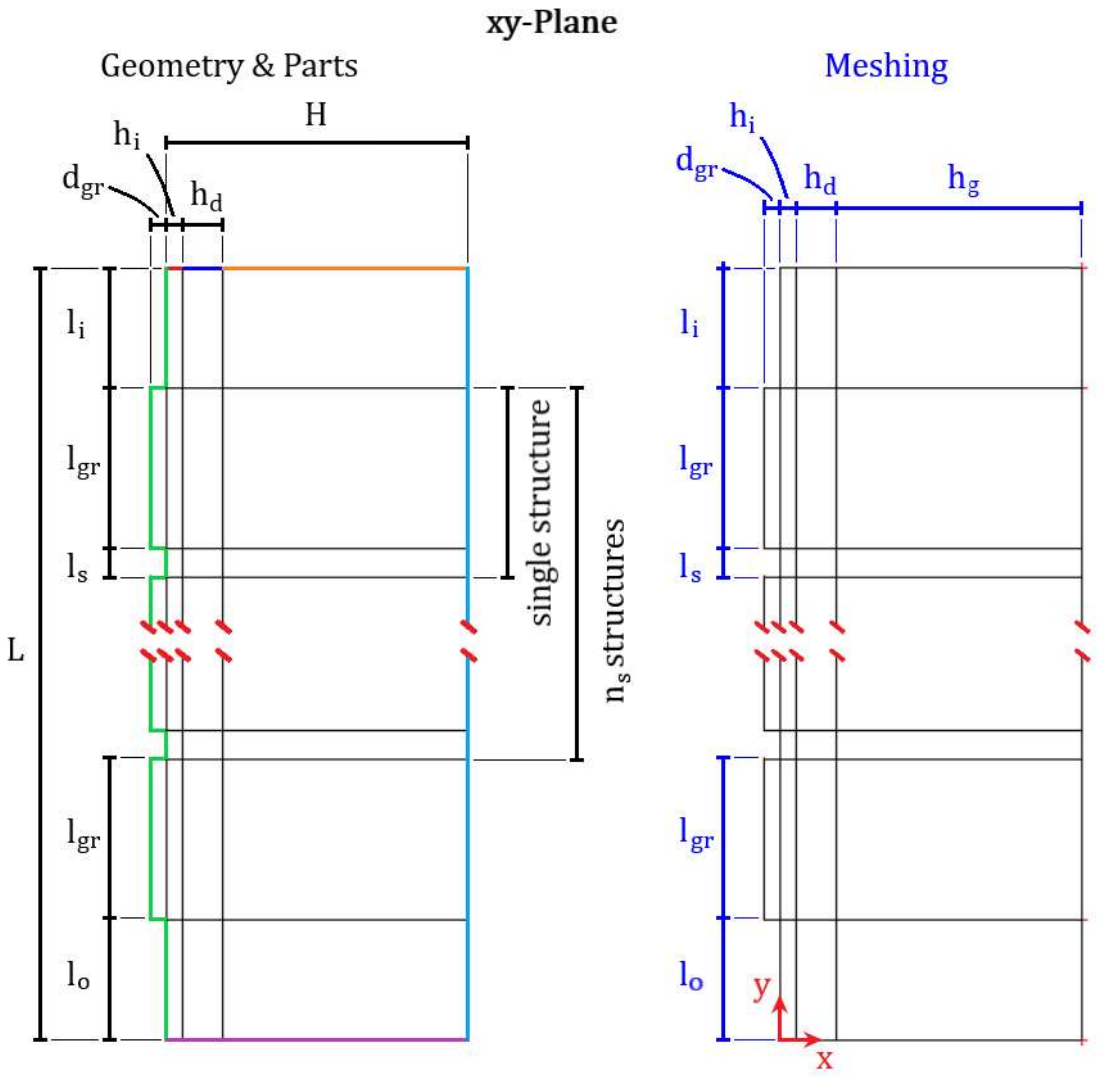
Available geometric variants

VARIANT	INLET TYPE	OUTLET TYPE
2D-HORIZONTAL-1	1: simple inlet	1: simple outlet
2D-HORIZONTAL-2	2: additional gas space	1: simple outlet



2D-horizontal-1: inlet can be configured for periodic boundary conditions. The boundary "FILMINLET" then additionally extends across the boundaries "DISTRIBUTOR" and "GASTOP".

Variant 2D-horizontal-1



Variant 2D-horizontal-2