materialise

innovators you can count on

Scripting functions with callback notification support

Materialise 3-matic 19.0

Data

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
copy_to_part	√				obj_created exist only if destination is empty.
delete		√			
duplicate	√				
merge	√	√			
move_to_part	√				obj_created exist only if destination is empty.

Types

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
name			√		
visible				√	Supports only Show and Hide. Show Only is out of scope.

Analyze

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
create_point	√				
create_line	√				
create_line_fit_ruled_surface	√				
create_line_plane_intersection	√				
create_line_direction_and_length	√				
create_arc_3_points	√				
create_arc_normal_center_radius	√				
create_circle_arc_3_points	√				
create_circle_arc_fit	√				
create_circle_arc_normal_center_radius	√				
create_cylinder_axis	√				
create_cylinder_fit	√				
create_cone	√				
create_sphere_center_radius	√				
create_sphere_fit	√				
create_plane_1_point_parallel_plane	√				
create_plane_1_point_perpendicular_2_planes	√				
create_plane_2_points_perpendicular_1_plane	√				
create_plane_3_points	√				
create_plane_average_existing	√				
create_plane_fit	√				
create_plane_midplane	√				
create_plane_normal_origin	√				

Design

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
boolean_intersection	√	√			
boolean_subtraction	√	√			
boolean_union	√	√			
circular_sweep	√				
convert_analytical_to_mesh	√				
create_box_around_part	√				
create_box_part	√				
create_cone_part	√				
create_connections_automatic	√				
create_cylinder_part	√				
create_part	√				
create_part_by_surfaces	√				
create_sphere_part	√				
create_pyramid	√				
create_pyramid_part	√				
cut	√	√			
extrude	√				
loft	√	√			obj_deleted exist only if merge is true.
sweep	√				
sweep_loft	√				
wrap	√				

File

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
import_part_stl	√				
open_project	√				

Lattice

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
attach_graph_to_mesh	√				
convert_lattice_to_organic_mesh	√			√	
convert_lattice_to_regular_mesh	√			√	
create_uv_based_conformal_lattice	√			√	
create_uv_based_dual_conformal_lattice	√				
unit_cell_based_lattice	√			√	

Remesh

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
create_non_manifold_assembly_intersection	√	√			

SSM

Scripting functions	obj_created	obj_deleted	obj_label_changed	obj_visual_state_changed	Remark
warp_part	√				