

GEOMAGIC DESIGN X

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- > scanning model - point cloud data
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INTRODUCTION	USER INTERFACE
<ul style="list-style-type: none"> • Course presentation 	<ul style="list-style-type: none"> • Mouse controls • Toolbars and docks • Customize dialog trees
SCANNING MODEL – POINT CLOUD DATA	SCANNING MODEL – MESH EDITION
<ul style="list-style-type: none"> • Point cloud editing • Point cloud to mesh 	<ul style="list-style-type: none"> • Fill holes • Boundary edit • Smart brush • Mesh enhancement • Mesh buildup wizard
AUTO SURFACING	Scan Regions
<ul style="list-style-type: none"> • Evenly distributed network • Feature following network 	<ul style="list-style-type: none"> • Auto region • Edit regions • Reference Geometry
ALIGN	BASIC CONCEPTS
<ul style="list-style-type: none"> • Align scan data to global coordinate system • Align scan data to CAD data 	<ul style="list-style-type: none"> • Mesh sketch • Fitting surfaces • Extrude/Extrude cut • Fillets • Accuracy analyzer • Quick modeling
MESH FREEFORM SURFACE	HYBRID MODELING
<ul style="list-style-type: none"> • Surface adjust • Surface edit • Surface trace • 3D Sketch 	<ul style="list-style-type: none"> • Global remesh • Enhance shape • Optimaze mesh • Autosurfacing • Sketch • Extrude
IMPELLER	FAN BLADE
<ul style="list-style-type: none"> • Rotational mesh sketch • Loft wizard • Revolve 	<ul style="list-style-type: none"> • Loft wizard • Surface modeling • Revolve • Patterns