

# Functional comparison Mensura Genius and Civil 3d

## Functions

	MENSURA GENIUS	CIVIL 3D
<b>Configuration</b>		
Processor powerful	-	+
RAM in Go	2 to 4	8 to 16
Video card (128 Mo Direct3D®)	+	+
<b>Platform and Interface</b>		
Can be used without Autocad platform	Yes	No
Autocad 2013 compatibility	Yes	Yes
Land Xml management	Yes	Yes
Easy Click label increases productivity up to 30 % (Contextual menu associated to the object )	Yes	No
Deliver with Country kits	Yes	No
Import files (Pdf, raster images, Ecw, Geo Tiff, Png etc.)	Yes	Yes
Offers a viewer software able to visualize all the projects	Yes	No
<b>Topography</b>		
Land surveying and projection coordinates	Yes	Yes
Coding tools for land surveying	Yes	No
Import from Google Earth	Yes	Yes
Export to Google Earth	Yes	Yes
Parcels division management	Yes	Yes
<b>Digital Terrain Model (DTM)</b>		
Create DTM (CAD objects, topographic file, ascii file, PDF)	Yes	Yes
Relief analysis and control tools (Catchment areas, 3D flow networks, high and low points, cartography of slopes)	Yes	Yes
Manage terrains	Yes	No
Geological layers model	Yes	No
<b>3D Surface Project</b>		
Create 3D surface from topographic data	Yes	Yes
Create 3D surface depending on the pavement thickness	Yes	No
Slopes depending on geological layers	Yes	No
Specific tools to manage 3D surfaces	Yes	No
Using of the geological model	Yes	No
Volumetric result report	Yes	No
Longitudinal and cross sections	Yes	Yes

<b>Intersections – Swept path analysis</b>		
Swept path analysis	Yes	No
2D & 3D Roundabout design	Yes	Yes
Intersection (T & X) design	Yes	Yes
<b>Linear Project Design</b>		
Creation & drawing of alignment	Yes	Yes
Creation & drawing of longitudinal section	Yes	Yes
Section template editor with pavement structure	Yes	Yes
Calculation of slope according to the standards and design rules	Yes	No
Multi-Alignments assistant (cross and longitudinal section)	Yes	No
Existing road rehabilitation	Yes	No
Cross sections and longitudinal section drawing	Yes	Yes
Using of the geological model	Yes	No
Detailed volumes result report	Yes	No
Urban infrastructures design tools	Yes	No
<b>Urban drainage, Storm and Sewage water model</b>		
Storm water calculation and dimensioning	Yes	No
Storm water and sewage water drawing	Yes	Yes
Ditches and culverts	Yes	No
Longitudinal sections	Yes	Yes
Section templates according to the standards	Yes	No
Using of the geological model	Yes	No
Detailed result report	Yes	No
<b>3D View - Landscaper</b>		
User-friendly and Powerful 3D rendering	Yes	No
3D surfaces manager	Yes	No
Display road markings in 3D model	Yes	No
Movements mode (orbit, path, pedestrian, air view)	Yes	No
<b>Quantity Survey - Price Estimation</b>		
Calculation tools for surfaces, linears, volumes, unit objects	Yes	No
Price estimation manager & editor	Yes	No
Export Price estimation to Excel	Yes	No
<b>Road Markings</b>		
Drawing assistant for longitudinal lines on roadways	Yes	No
Drawing assistant for transverse lines	Yes	No
Drawing assistant for symbols, arrows, crosswalk...	Yes	No