

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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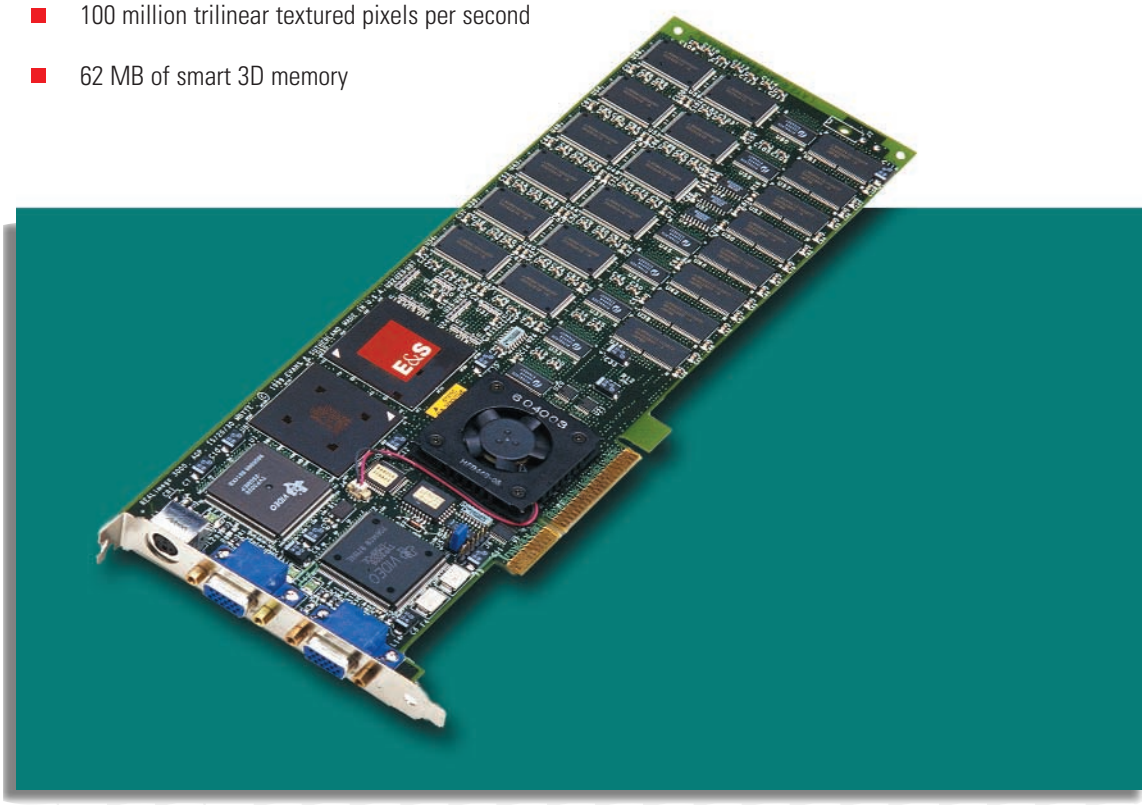
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EVANS & SUTHERLAND

E&S Tornado 3000™

Full-Featured, High Performance 3D Solution for Creative Professionals

- DYNAMICgeometry™ for scalable performance
- REALimage™ 3000 technology
- Dual screens at true color
- Support for stereo viewing
- Up to 1920 x 1200 resolution at true color
- Highest quality, full-speed antialiasing and transparency
- Up to 5 million triangles per second
- 100 million trilinear textured pixels per second
- 62 MB of smart 3D memory



3D with a REAL difference™

technical data

EVANS & SUTHERLAND

E&S Tornado 3000™

E&S Tornado 3000™ Specifications

Graphic features available simultaneously

- Gouraud shading
- Alpha blending for transparency
- High-quality antialiasing
- Texture:
  - Bilinear, trilinear filtering
  - Perspective correction
  - MIP mapping
- Per pixel depth cueing
- Transparency, fog, overlays, and stencils

Software Support

- OpenGL®
- Microsoft Windows NT® 4.0
- DX 6 on Windows 2000

Graphics Performance[1,2]

• 3D vectors[3]	5M per second
• 3D triangles[4]	5M per second
• Texture fill rate	100M pixels/sec

Hardware Features

- E&S REALimage™ 3000 technology
- Built-in VGA support
- 8-bit, double-buffered overlay or alpha
- Stencil planes (4-bit)
- Window IDs (4-bit)
- AGP 2X interface

1 All performance rates are with 1280 x 1024 resolution @85Hz, and 24-bit truecolor.
2 Performance may vary by CPU and bus implementation.
3 3D vectors are 10 pixels, antialiased with 16-subpixel positioning accuracy.
4 3D triangles are Gouraud-shaded, textured, alpha-blended, and Z-buffered.

Evans & Sutherland
US: 1-408-546-2100
Europe: +44-1905-726782
Japan: +81-3-5325-3077
All Others: 1-408-546-2100

Total Memory

- 30MB 3DRAM (frame & local buffer)
- 32MB CDRAM (texture)

System Requirments

- 100% IBM-compatible PC with an Intel Pentium®II or Pentium®III processor
- One available AGP slot (may require one adjacent PCI slot to guarantee power availability)
- Power consumption <38W

Service and Support

- High-quality technical support via a select group of VARs and system manufacturers
- Direct support line
- Web site for access to software driver updates and technical support



Compatibility

- UL 1950. Certified FCC Class B.

  CE Mark

Warranty

- Three years (parts and labor)

Supported Display Modes

Single-screen modes

Resolution	Color Depth	Z-buffer	Texture Memory	Refresh Rate Hz
640 x 480	24-bit	24-bit	32 MB	72, 75, 85, 120
800 x 600	24-bit	24-bit	32 MB	60, 75, 85, 120
1024 x 768	24-bit	24-bit	32 MB	60, 75, 85, 120
1280 x 1024	24-bit	24-bit	32 MB	60, 75, 85, 120
1600 x 1024	24-bit	24-bit	32 MB	60, 85
1600 x 1200	24-bit	24-bit	32 MB	60, 85
1920 x 1080	24-bit	24-bit	32 MB	72
1920 x 1200	24-bit	24-bit	32 MB	76

Stereo modes

Resolution	Color Depth	Z-buffer	Texture Memory	Refresh Rate Hz
1024 x 768	24-bit	24-bit	32 MB	120 (60 Hz per screen)
1280 x 1024	24-bit	24-bit	32 MB	120 (60 Hz per screen)

Dual-screen modes

Resolution	Color Depth	Z-buffer	Texture Memory	Refresh Rate Hz
2048 x 768 (1024 x 768 per screen)	24-bit	24-bit	32 MB	60, 75, 85, 120
2560 x 1024 (1280 x 1024 per screen)	24-bit	24-bit	32 MB	60, 75, 85

For more information, visit our website at www.es.com/wg.

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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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