Table 1. Workstation features

	@XI COMPUTER CORP.	BOXX TECH.	HEWLETT-PACKARD	IBM CORP.
	XI 4306 MTOWER SP	3DBOXX H2	HP WORKSTATION xw5000	6219-46U
Star rating	★★★★★	4.5 stars out of 5	4.5 stars out of 5	4 stars out of 5
Phone	800.432.0486	877.877.2699	800.888.9909	800.772.2227
Web site	www.xicomputer.com	www.boxxtech.com	www.hp.com/workstations	www.ibm.com
Estimated street price	$2,699	$2,875	$3,138	$4,184
Warranty coverage				
Labor/parts/on-site (months)	36/36/12	36/36/0	36/36/36	36/36/12
24-hour parts/phone support	Yes/Yes	Yes/No	Yes/Yes	Yes/Yes
CPU type/speed	3.06GHz Intel Pentium 4	AMD 2700+ XP	Intel Pentium 4/3.06GHz	Intel Pentium 4/3.06GHz
L2 cache size/speed	512KB	256KB	512KB/533MHz	512KB/533MHz
Chipset	850E	Nvidia Nforce2	E7205	Intel E72051
Front-side bus speed	533MHz	333MHz	533MHz	533MHz
PCI bus size/speed	32-bit/33MHz	32-bit/33MHz	32-bit/33MHz	32-bit/33MHz
Motherboard vendor/model	Gigabyte/GA-8IHXP	ASUS/A7N8X-Deluxe	Hewlett-Packard/hp xw5000	Intel/NA60B7X053Q
Memory type/speed	RAMBUS/PC1066	400MHz DDR	DDR-266 dual channel	266MHz unbuffered ECC DDR-SDRAM
Memory as tested/maximum	1GB/2GB	1GB/3GB	1GB/4GB	1GB/4GB
Memory sockets (total/free)	4/2	3/1	4/2	4/2
Supports DDR	No	Yes	Yes	Yes
System BIOS; date	AMI; 10/18/2002	1001.G; 12/06/2002	HP v.1.02; 12/13/2002	MGJT17A; 12/05/2002
Power supply vendor/capacity	HEC/350W	Sparkle Power/400W	Varies/320W	Hidro, AcBel/340W
Hard drive vendor	Western Digital	Maxtor	Varies	IBM 124 7200 rpm
Drive size/type	120GB ATA/100 (8MB Cache)	120GB IDE ATA133	120GB ATA/100 EIDE	124GB ATA/100 EIDE
CD-ROM drive vendor	Toshiba	Toshiba	Varies	ON IT Corp.
Drive speed	CDR/W+ DVD 16×10×40×12	16×40×10×12DVD	48× CDR/W	40×12×40×
Sound card	Realtek ALC650 CODEC	Integrated 5.1 Surround	Integrated AC97	Onboard AC97
Pointing device	Logitech 2+ Wheel Mouse	Microsoft Wheel Mouse	HP PS/2 Mouse	IBM PS/2 3-Button Mouse
Expansion slots (PCI/PCI-ISA/ISA)		6/0/0	6/0/0	5/0/0
Filled (PCI/PCI-ISA/ISA)	0/0/0	0/0/0	0/0/0	0/0/0
Drive bays				
Accessible (5.25″/3.5″)	4/2	1/2	3/3	2/2
Internal (5.25″/3.5″)	0/1	0/4	3.3	2/1
Ports				
USB (1.x/2.x)	2/4	0/6 (2 in front)	0/6 (2 in front, 4 in back)	0/4
Serial/parallel	2/1	1/1	1/1	2/1
MIDI/Game; external SCSI	1/1; No	Yes; No	No; Optional	Yes; No
Network card (modem)	Yes	Yes	Yes	Yes
Dimensions (h×w×d)	17″ × 7″ × 20″	17″ × 7″ × 17.5″	17.3″ × 8.3″ × 20.3″	17.38″ × 6.5″ × 19″
Graphics card bus (AGP/PCI)	AGP 4X	AGP 8X	AGP8X Pro50	AGP8X
Graphics card vendor	NVIDIA	NVIDIA	NVIDIA	NVIDIA
Model	Quadro4 980 XGL	PNY VCQ4980 XGL	Quadro4 980 XGL	Quadro4 980 XGL
Chipset	Quadro4 980GPU	Quadro 4 980XGL	Quadro4	Quadro4
Frame-buffer memory	128MB	128MB	128MB	128MB
Driver version	6.13.10.4109	6.13.10.4109	6.14.01.4201	6.13.10.4104
Max 3D resolution; double buffer/ 16bit z-buffer (70Hz min)	2048×1536@75Hz	2048×1536@75Hz	2048×1536@75Hz	2048×1536@75Hz
Colors/refresh	32-bit 32-bit 32-bit	32-bit/75Hz	32-bit 32-bit 32-bit	32-bit
AutoCAD driver version	PowerDraft	PowerDraft	PowerDraft	PowerDraft
Total Weighted Index	79.43	74.75	75.23	79.25
C2001 Total Index	109.04	102.95	103.95	108.38
C2001 Wire frame Index	107.33	102.51	103.78	107.04
C2001 Gouraud shade Index	160.61	155.62	155.49	159.91
C2001 Nongraphics Index	84.78	80.69	77.89	86.40
C2001 2D Graphics Index	83.43	72.98	78.63	80.17
Max Bench v4.0	MAXtreme 4.00.26	MAXtreme 4.00.25	MAXtreme 4.00.26	MAXtreme 4.00.25
Average of high/low scores	47.88	43.27	48.54	49.05
Viewperf v7.0				
Proe-01 test suite	22.16	21.61	15.77	22.04

* All tests run at 1280×1024 resolution in true-color mode.

POLYWELL 880NF2-2700XGL	POLYWELL 7205G1-3000XGL	SYS TECHNOLOGY POWERHOUSE 3066	TRI CAD/CAM SYSTEMS TRI-STAR
★★★★★	4 stars out of 5	★★★★★	4.5 stars out of 5
800.999.1278	800.999.1278	800.613.9963	800.800.1714
www.polywell.com	www.polywell.com	www.sys.com	www.tricadcam.com
$1,750	$2,799	$2,995	$2,995
60/36/24	60/36/24	60/36/12 (72 on CPU/ RAM)	36/36/onsite options extra
First year/First year	First year/First year	Yes, if part is in stock/Yes	Yes/Yes
AMD AthlonXP 2700+	3.06GHz Intel Pentium 4	3.06GHz Intel Pentium 4	3.06GHz Intel Pentium 4
256KB	512KB	512KB	512KB
nForce2	Intel 7205	Intel E7205 (Granite Bay)	Intel D845PE
333MHz	533MHz	533MHz	533MHz
32-bit/33MHz	32-bit/33MHz	32-bit/33MHz	32-bit/33MHz
Leadtek/K7NCR18DP	Gigabyte/GA8INX	ASUSTeK/P4G8X Deluxe	Intel/Intel D845PESV
DDR-333 (Twinbank 128-bit)	DDR-266 ECC (dual-channel)	PC2100 DDR SDRAM (DDR266), 266MHz	Corsair PC2700 CAS 2
1GB/3GB	1GB/4GB	1GB/4GB	1GB/2GB
3/2	4/2	4/0	2/0
Yes	Yes	Yes	Yes
Award; 2002	Phoenix; 2002	Award; 1002	Intel P06; 12/17/2002
SPI/300W	SPI/350W	Enermax/431W	Enlight/420W
Wester Digital	Western Digital	Western Digital	Western Digital
2×80GB WD8000JB	2×80GB WD8000JB	180GB ATA/100 (8MB cache)	120GB ATA/WD1200JB
Toshiba DVD/CD	Toshiba DVD/CD	Lite-On (model LTR-48246S)	Pioneer
16×DVD/40×CD	16×DVD/40×CD	48×24×48	4× DVD-R/2×DVD-RW/ 16×CD-R,8×CD-RW
Onboard 5.1 Digital	On-board AC'98	ALC650/AC97, integrated	Onboard AC97
Wireless Chieftec mouse/keyboard	Wireless Chieftec mouse/keyboard	Logitech Mouse/Keyboard	Microsoft Wheel Mouse
5/0/0	5/0/0	5/0/0	5/0/0 6/0/0
4/0/0	4/0/0	0/0/0	0/0/0
4/2	4/3	3/1	4/2
0/4	0/5	0/4	0/4
0/6	0/6	0/5 (1 in front)	0/6
2/1	2/1	2/1	1/1
1/1; No	1/1; No	Yes; No	No; No
Yes	Yes	Yes	Yes
17.6″ × 7.9″ × 19.3″	17.6″ × 8.4″ × 19.4″	21.3″ × 8.4″ × 17.5″	20.6″ × 8.1″ 18.6″
AGP8X	AGP 8X	AGP 8X	AGP 4X
NVIDIA	NVIDIA	NVIDIA	NVIDIA
NVIDIA 380 XGL	NVIDIA 980 XGL	NVIDIA Quadro4 980 XGL	PNY Quadro4 980 XGL
Quadro4	Quadro4	Quadro4 980 XGL	Quadro4
64MB	128MB	128MB	128MB
6.3.10.4109	6.13.10.4109	6.13.10.4104	6.13.10.4104
2048×1536@75Hz	2048×1536@75Hz	2048×1536@85Hz	2048×1536@75Hz
PowerDraft	PowerDraft	PowerDraft	PowerDraft
75.76	66.33	78.43	74.72
105.06	91.01	107.66	102.54
103.48	97.72	108.26	104.33
157.96	145.63	161.27	154.30
84.24	58.64	81.63	76.75
74.57	62.04	79.49	74.77
MAXtreme 4.00.25	MAXtreme 4.00.26	MAXtreme 4.00.25	MAXtreme 4.00.26
41.84	38.13	46.54	44.12
21.79	20.49	22.62	21.84