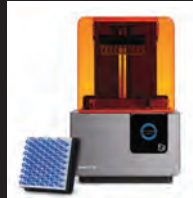


CAM COMPARISON CHART

						
CAM SYSTEM	Asiga PICO 2 & PICO 2 HD	Asiga PRO 2	B9 Core Series 530 & 550	B9Creator V1.2	Digital Wax Systems	
TYPE OF SYSTEM	Additive (DLP)	Additive (DLP)	Additive (DLP)	Additive (DLP)	Additive	
CAD FILE OUTPUT	STL, SLC, STM	STL, SLC, STM	STL	STL	STL, SLC	
OPERATING SYSTEM	Windows, Mac, Linux	Windows, Mac, Linux	Windows XP and 10, Mac OS X	Windows XP and 10, Mac OS X, and Linux 64 bit	Windows	
MAXIMUM BUILD ENVELOPE	PICO2: 64 mm x 40 mm (2.51" x 1.57") PICO2 HD: 71 mm x 40 mm (2.79" x 1.57")	144 mm x 81 mm (5.66" x 3.18")	B9 Core 530: 57.6 mm x 32.4 mm x 127 mm (2.3" x 1.3" x 5") B9 Core 550: 96 mm x 54 mm x 127 mm (3.8" x 2.1" x 5")	104 mm x 75 mm x 203 mm (4.1" x 3" x 8")	150 mm X x 150 mm Y x 100 mm Z (5.9" x 5.9" x 3.9")	
FOOTPRINT SIZE	26 cm x 38 cm (10.23" x 14.96")	45 cm x 49 cm (17.7" x 19.29")	597 mm x 419 mm x 267 mm (23.5" x 16.5" x 10.5")	45 cm x 30 cm x 81 cm (18" x 12" x 32")	15" L x 20" W and 22" L x 30" W (38.1 cm x 50.8 cm and 55.9 cm x 76.2 cm)	
ACHIEVABLE ACCURACY	1 micron arbitrary resolution in Z, 39 micron in XY (PICO2), 27 micron in XY (PICO2HD)	1 micron arbitrary resolution in Z, 50 micron in XY	30 micron X,Y resolution, as low as 10 microns in the Z (B9 Core 530); 50 micron X,Y resolution, as low as 10 microns in the Z (B9 Core 550)	Resolution is variable by build area. X/Y resolutions of 30, 50, or 70 microns are possible. Resolutions in the Z build axis as low as 5 microns.	0.01 mm (10 micron) layer thickness	
BUILD MATERIAL MOLD AND CASTING PROPERTIES	Available. Open material system.	Available. Open material system.	B9R Emerald (high-detail investment casting), B9R Yellow (high-detail investment casting with cleanest burnout), B9R Black (fast printing design verification)	Multiple resins that can be directly cast are available. After printing, using a post-curing device (B9 Model Cure or the B9 Model Cure HD) is recommended. Small models can be cured in 2-3 minutes; large models in 5-10 minutes, depending on thickness and size.	Several resins are available with properties that accommodate a variety of casting and molding needs, including direct castable material and direct LTV and HTV molding material. Casting resins are very durable and flexible enough for easy handling, shipping, and stone-in-place casting with high detail and easy burnout.	

						
	EnvisionTEC Micro Plus Advantage & Perfactory Micro Hi-Res	EnvisionTEC Perfactory Aureus & 4 Mini XL	EnvisionTEC Micro Plus cDLM	Formlabs Form 2	ProJet CPX 3600 W MAX	Solidscan 3ZMAX, 3ZPro, & 3ZStudio
	Additive	Additive	Additive	Additive	Additive	Additive
	STL	STL	STL	STL, OBJ	STL, SLC, CTL	STL, SLC
	Windows 7 (SP3) or higher	Windows 7 (SP3) or higher	Windows 7 (SP3) or higher	Mac OS X, Windows	All	ModelWorks included, runs on Windows
	Micro Plus: 65 mm x 40 mm x 100 mm (2.36" x 1.77" x 3.94") Micro Hi-Res: 45 mm x 28 mm x 100 mm (1.77" x 1.10" x 3.94")	Aureus: 60 mm x 45 mm x 80 mm (2.4" x 1.8" x 3.15") 4 Mini XL: 115 mm x 72 mm x 220 mm (4.5" x 2.8" x 8.66")	45.4 mm x 28.5 mm x 75 mm (1.8" x 1.1" x 2.95")	5.7" x 5.7" x 6.9" (145 mm x 145 mm x 175 mm)	7" x 11" x 6" (17.8 cm x 27.9 cm x 15.2 cm)	152.4 mm X x 152.4 mm Y x 101.6 mm Z (6" x 6" x 4")
	22.86 cm x 24.13 cm x 63.5 cm (9" x 9.5" x 25")	Aureus: 45 cm x 78 cm x 45 cm (17.72" x 30.71" x 17.72") 4 Mini XL: 73 cm x 48 cm x 135 cm (29" x 19" x 53")	22.86 cm x 24.13 cm x 63.5 cm (9" x 9.5" x 25")	13.5" x 13" x 20" (34.2 cm x 33 cm x 50.8 cm)	29" x 47" x 59" (73.7 cm x 119.4 cm x 149.9 cm)	21.4" W x 18" D x 16" H (55.8 cm x 49.5 cm x 41.9 cm)
	25-75 microns Z, 60 microns X and Y	Aureus: 25-35 microns Z, 43 microns X and Y 4 Mini XL: 15-150 microns Z, 30 microns X and Y	1 micron Z, 39.8 microns X, 31.25 microns Y	25, 50, or 100 microns Z-layer settings available by software, +/- 50 microns X/Y precision	0.001 inch – 0.002 inch per inch	±0.001" per inch (±0.0254 mm) across the XYZ dimensions
	PIC100 M (thermo polymer-filled for direct casting), EC500 M (wax-filled for direct casting), EC3000 M (highest wax content for direct casting) and Photosilver M (HTV molding with high temperature resistance and excellent surface finish)	Q-View (general purpose fast building for design and fit verification), PIC100 (thermo-polymer-filled for direct casting), EC500 (wax-filled for direct casting), RC70/RC90 (HTV molding with high temperature resistance and excellent surface finish), and HTM140 (HTV molding with high temperature resistance and excellent surface finish)	PIC100 C thermo polymer-filled for direct casting	Resins available for prototyping, direct investment casting, and molding. Materials are durable, can be post-cured with UV light, and provide superior detail and surface quality.	Same as injection wax. Casts under normal burnout in normal investment.	No ash, no residue or shrink, no post-processing work or special equipment needed

CAM, continued

CAM SYSTEM	Asiga PICO 2 & PICO 2 HD	Asiga PRO 2	B9 Core Series 530 & 550	B9Creator V1.2	Digital Wax Systems	
BUILD MATERIAL	Investment casting wax, investment casting resin, high-temp resin	Investment casting resin, high-temp resin	Photopolymer resin	Photopolymer resin	Photopolymer resin	
MINIMUM ACHIEVABLE MODEL SIZE	39 micron (PICO 2); 27 micron (PICO2HD)	50 micron	140 micron minimum feature size	170 micron minimum feature size	0.25 mm	
PRICE	\$6,990-\$8,990 (PICO2); \$11,990 (PICO2 HD)	\$24,990	\$9,955	\$4,595	\$12,500 (DWS009J+), \$62,500 (DWS028J+), \$115,000 (DWS029J+)	
COST OF CONSUMABLES	\$350 per 500 mL	\$350 per 500 mL	\$179-\$199 per 1 kg (2.2 lbs) bottle	Resins: \$127-\$199 per 1 kg (2.2 lbs) bottle; B9 resin vat: \$69	Approximately \$600/kg resins, approximately \$145 and \$187 for resin trays	
ON-SITE SERVICE	Reseller dependent	Reseller dependent	No	No	Available	
WARRANTY	One year	One year	One year	One year	One year, manufacturer; two years, Rio Grande	
POST-WARRANTY MAINTENANCE COSTS	Unlimited lifetime technical support included	Unlimited lifetime technical support included	Annual DuraVat replacement: \$990	\$600 on average (includes changing the X motor, Z motor, and the projector lamp)	Should the machine require repair, the customer is responsible for cost of parts and on-site service, but phone and e-mail support is always free.	
TRAINING OPTIONS	Via reseller	Via reseller	Remote factory start-up offered with each machine. Additional training available.	Training course for new users, with more extensive training available for \$449. Training is conducted online or at training facility in San Diego, California.	Two days at Rio Grande facilities with free training. Live internet-based audio/video and phone training and support is available in most areas. On-site training negotiable.	
TECHNICAL SUPPORT	Via Asiga support desk, reseller, Asiga forum	Via Asiga support desk, reseller, Asiga forum	Remote factory start-up with every machine, phone support, virtual connectivity, community forum support	Phone support, virtual connectivity, community forum support	Free e-mail and phone support through Rio Grande	
CONTACT INFORMATION	Asiga 2, 19-21 Bourke Road Alexandria, Sydney Australia 1-877-689-9998 info@asiga.com asiga.com	Asiga 2, 19-21 Bourke Road Alexandria, Sydney Australia 1-877-689-9998 info@asiga.com asiga.com	B9 Creations LLC 525 University Loop, Ste. 115 Rapid City, SD 57701 1-605-787-0652 info@b9c.com b9c.com	B9 Creations LLC 525 University Loop, Ste. 115 Rapid City, SD 57701 1-605-787-0652 info@b9c.com b9c.com	Rio Grande 7500 Bluewater Road NW Albuquerque, NM 87121 1-800-545-6566 info@riogrande.com riogrande.com	

	EnvisionTEC Micro Plus Advantage & Perfactory Micro Hi-Res	EnvisionTEC Perfactory Aureus & 4 Mini XL	EnvisionTEC Micro Plus cDLM	Formlabs Form 2	Projet CPX 3600 W MAX	Solidscape 3ZMAX, 3ZPro, & 3ZStudio
	Castable photopolymers with wax and resin and/or photopolymers with ceramic particles for high temperature rubber models or metal plating	Castable photopolymers with wax and resin and/or photopolymers with ceramic particles for high temperature rubber models or metal plating	PIC100 C thermo polymer-filled for direct casting, Q-View C for extremely fast fit and design verification models	Photopolymer resin	Real wax	3ZModel (proprietary wax-like material formulated specifically for casting)
	0.2 mm x 0.2 mm x 0.2 mm	0.2 mm x 0.2 mm x 0.2 mm	0.1 mm x 0.1 mm x 0.1 mm	150 micron	Not quoted	0.01 inch (0.254 mm) feature size
	\$10,000 (Micro Plus Advantage); \$16,000 (Micro Hi-Res)	\$42,000 (Aureus) \$118,000 (4 Mini XL)	\$34,900	\$3,499	\$90,000 - \$100,000	\$55,650 (MAX) \$45,650 (Pro) \$24,650 (Studio)
	\$300 - \$450 per 0.5 kg (makes 275-300 average size jewelry pieces)	\$350 - \$595 per kg (makes 500-600 average size jewelry pieces)	\$350 per 0.5 kg bottle (makes 250-300 average size jewelry pieces)	\$149-\$299 per 1L cartridge, 500-1,000 rings per liter; \$59 resin tray	Consumable material (\$290 per pound); support (\$75 per pound)	\$3 per average piece
	No	Yes	Yes	No	Available	Yes
	One year, parts and labor	One year, parts and labor	One year, parts and labor	One year, parts and labor	One year, full on-site; five year, print head	One year
	\$2,150 extended warranty per year	Aureus: \$5,000 extended warranty per year 4 Mini XL: \$7,500 extended warranty per year	\$3,499 extended warranty per year	\$800 flat fee per repair; optional Pro Service Plan available for \$499 per year	\$8,900 per year, bumper-to-bumper premium plan, other options available	3ZMAX and 3ZPro: \$5,000 annual service contract covers labor and parts; 3ZStudio: \$3,750 annual service contract covers labor and parts
	Online or in the Dearborn, Michigan, office	Two days on-site	Two days on-site	Free forum and tutorial user guides; video and live web with Pro Service Plan	Included in installation	Intuitive start-up is supported by regional reseller. Solidscape user training classes available for purchase.
	Online, telephone, and on-site	Online, telephone, and on-site	Online, telephone, and on-site	Free forum and e-mail; Pro Service Plan includes phone and expedited e-mail	Phone support available 8 a.m. to 8 p.m. EST	Provided by local reseller, backed by factory technicians at no charge
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