



ProJet[®] X60 Series

INCLUDES:

ProJet[®] 160

ProJet[®] 260C

ProJet[®] 360

ProJet[®] 460*Plus*

ProJet[®] 660*Pro*

ProJet[®] 860*Pro*

Description:

This procedure serves as a checklist to ensure that all site requirements are properly communicated to and carried out by customers prior to installation of a 3DPrinter, a Core Recycling Station (CRU).

Computer Requirements:

Each Printer Type listed requires the Recommended System to run 3DPrint advanced operations such as part labeling and Fixture generation. These system configurations may require a higher performance computer depending on file size and type. For complex models (>5 million facets) or for more than 25 parts in one build, follow the recommendations for High Performance Printers.

Operating Systems

Operating System compatibility differs slightly for 3DPrint/3DEdit and for 3DEdit Pro. If you are specifying a new computer, we recommend Windows 7 Professional, 64-bit.

3DPrint

3DPrint version 1.0 and is compatible with:

- Windows Vista Business, Ultimate or Enterprise, 32-bit or 64-bit
- Windows 7 Professional or Ultimate, 32-bit or 64-bit

3DEdit Pro

Version 1.0 and above is compatible with:

- Windows Vista Business or Ultimate, 32-bit or 64-bit
- Windows 7 Professional or Ultimate, 32-bit or 64-bit

Note that both 3DPrint is a 32-bit application, and when run on a 64-bit operating system will operate in 32-bit mode. 3DEdit Pro comes with both 32 and 64 bit installers,

Computer Hardware

The appropriate hardware set differs depending on which 3DPrinter you wish to support. If you are specifying a new computer, follow the recommendations for High Performance Color Printers.

Monochrome Printers (ProJet® 160 & 360)

Recommended System:

- Operating System: Any listed above
- Processor: Intel® Core2 or Core i5 series processor or better, dual (or more) cores; 2 Ghz or better
- Video: Open GL accelerated graphics card, 256MB or more of dedicated (not shared) graphics memory (see note below)
- Memory: 2 GB or better
(Note: If using a 64-bit version of Windows, 6-8 GB is recommended)
- Hard Drive: 1 GB of free space (plus space for model files)
- Ethernet 10/100/1000 Base T

Note: Intel built in graphics (e.g., Intel GMA and GMA HD) previous to the current version (HD Graphics 2000 and HD Graphics 3000) are not recommended due to performance and driver compatibility issues.

Color Printers (ProJet® 260C & 460C)

Recommended System:

- Operating System: Any listed above
- Processor: Intel® Core2 or Core i5 series processor or better, dual (or more) cores; 2.5 Ghz or better
- Video: Open GL accelerated graphics card, 256MB or more of dedicated (not shared) graphics memory (see note below)
- Memory: 4 GB
(Note: If using a 64-bit version of Windows, 6-8 GB is recommended)
- Hard Drive: 1 GB of free space (plus space for model files)
- Ethernet 10/100/1000 Base T

Note: Intel built in graphics (e.g., Intel GMA and GMA HD) previous to the current version (HD Graphics 2000 and HD Graphics 3000) are not recommended due to performance and driver compatibility issues.

High Performance Color Printers (ProJet® 660Pro & 860Pro)

Recommended System:

- Operating System: 64-bit version of Windows 7 or Vista

Note: if using a 32-bit version of Windows, use 3GB tuning (see Microsoft KB articles #291988 and 316739)

- Processor: Intel® Core i5 or i7 series processor, dual (or more) cores; 2.5 Ghz or better
- Video: Separate graphics card (not Intel embedded graphics), 512 - 1024MB of dedicated (not shared) graphics memory and hardware Open GL acceleration (Examples: nVidia Quadro FX1800; ATI/AMD Radeon HD5750)
- Memory: 4 GB
(Note: If using a 64-bit version of Windows, 6-8 GB is recommended)
- Hard Drive: 1 GB of free space (plus space for model files)
- Ethernet 10/100/1000 Base T

Site Requirements:

ProJet® 160 & 260C and Core Recycling Units

Printer Power requirements:

90-100V, 7.5A
110-120V, 5.5A
208-240V, 4.0A

Core Recycling Unit Power requirements:

Unit in operation

100 - 120V~, 50-60 Hz, 1.4 Amps.
230V~, 50-60 Hz, 0.7 Amps.

Unit in Sleep Mode - 0.5 W

100 - 120V~, 50-60 Hz, 0.004 Amps.
230V~, 50-60 Hz, 0.002 Amps.

Printer dimensions

29 x 31 x 55 inches
(74 x 79 x 140 cm)

Core Recycling Unit dimensions

With glass closed: 23" wide x 23" deep x 28" high (59cm wide x 59cm deep x 72cm high).
With glass open: 23" wide x 23" deep x 49" high (59cm wide x 59cm deep x 125cm high).

Printer weight

365 lbs (165 kg)

Core Recycling Unit weight

51 pounds (23kg)

Ventilation

Printer: None
Core Recycling Unit: None

Post Processing: Visit 3DS Central at <https://3dscentral.3dsystems.com/>

Operating Conditions

Ambient Temperatures:

- Maximum Temp. Range: 55-80° F (12.7-26.6° C)
- Recommended Temp. Range: 55-75° F (12.7-23.8°C)

Ambient Relative Humidity

- Maximum RH Range: 15-65%, non-condensing
- Recommended RH Range: 20-55%, non-condensing
- May experience sub-optimal performance at extremes.

Noise Levels

- During Printing = 57dB
- Emptying Overflow = 66dB
- Vacuuming - Cover Open = 86dB

ProJet® 360

Printer Power requirements:

90-100V, 7.5A
110-120V, 5.5A
208-240V, 4.0A

Printer dimensions

48 x 31 x 55 inches
(122 x 79 x 140 cm)

Printer weight

395 lbs (179 kg)

Ventilation

Printer: None
Core Recycling Unit: None

Post Processing: Visit 3DS Central at <https://3dscentral.3dsystems.com/>

Operating Conditions:

Ambient Temperatures:

- Maximum Temp. Range: 55-80° F (12.7-26.6° C)
- Recommended Temp. Range: 55-75° F (12.7-23.8°C)

Ambient Relative Humidity

- Maximum RH Range: 15-65%, non-condensing
- Recommended RH Range: 20-55%, non-condensing
- May experience sub-optimal performance at extremes.

Noise Levels

- During Printing = 57dB
- Emptying Overflow = 66dB
- Vacuuming - Cover Open = 86dB
- Fine Core Removal = 80dB

ProJet® 460Plus

Printer Power requirements

90-100V, 7.5A
110-120V, 5.5A
208-240V, 4.0A

Note: At 100-115V, a 20A circuit is required and the system ships with the appropriate 20A plug. Due to high amperage, a dedicated circuit is strongly recommended.

Approximately 52 watts are required when the printer is in Sleep mode.

Printer dimensions

48 x 31 x 55 inches
(122 x 79 x 140 cm)

Printer weight

395 lbs (179 kg)

Ventilation

Printer: None
Core Recycling Unit: None

Post Processing: Visit 3DS Central at <https://3dscentral.3dsystems.com/>

Operating Conditions:

Ambient Temperatures:

- Maximum Temp. Range: 55-80° F (12.7-26.6° C)
- Recommended Temp. Range: 55-75° F (12.7-23.8°C)

Ambient Relative Humidity

- Maximum RH Range: 15-65%, non-condensing
- Recommended RH Range: 20-55%, non-condensing
- May experience sub-optimal performance at extremes.

Noise Levels

- During Printing = 57dB
- Emptying Overflow = 66dB
- Vacuuming - Cover Open = 86dB
- Fine Core Removal = 80dB

ProJet® 660Pro

Printer Power requirements

100-240V, 7.5A – 15A

Note: At 100-115V, a 20A circuit is required and the system ships with the appropriate 20 A plug. Due to high amperage, a dedicated circuit is strongly recommended.

Approximately 78 watts are required when the printer is in Sleep mode.

Printer weight

750 lbs (340 kg)

Printer dimensions

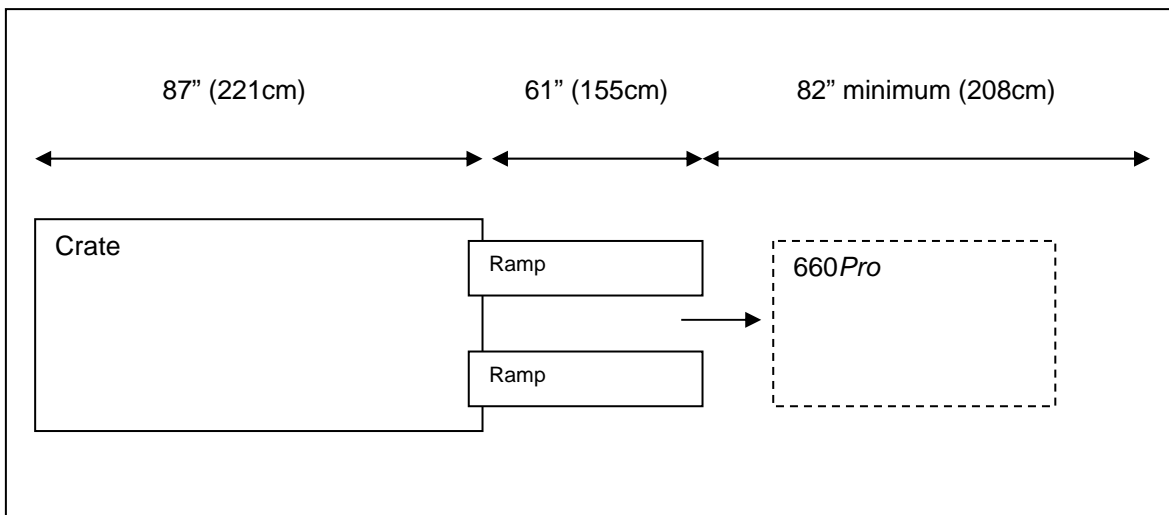
76 x 31 x 57 inches
(193 x 79 x 145 cm)

- Floor standing model on six casters. Two front casters are lockable.
- Full color capability; color shell thickness = .025".
- Integrated core removal and vacuum units.

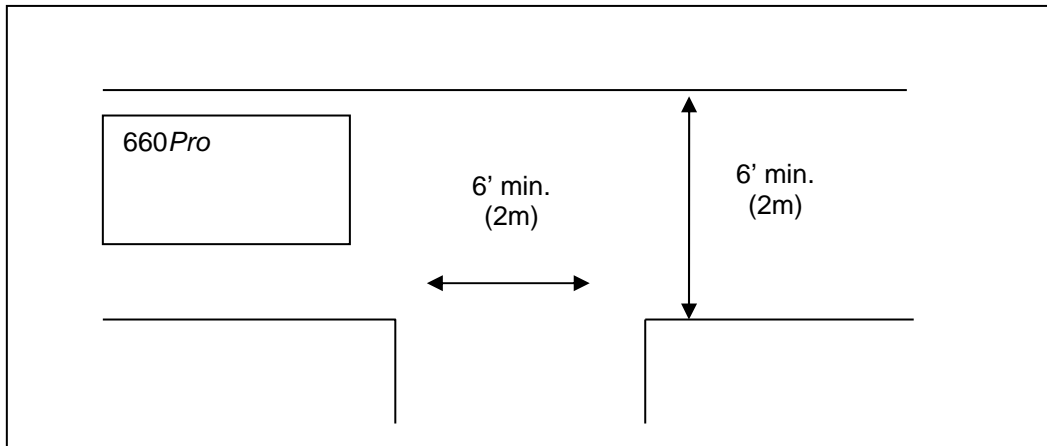
Crated Dimensions

- Length 86.25" (219.075cm) x Width 48" (121.92cm) x Height 63.5" (161.29cm)

Unpacking Dimensions



Turning Dimensions



Operating Conditions:

Ambient Temperatures:

- Maximum Temp. Range: 55-80° F (12.7-26.6° C)
- Recommended Temp. Range: 55-75° F (12.7-23.8°C)

Ambient Relative Humidity

- Maximum RH Range: 15-65%, non-condensing
- Recommended RH Range: 20-55%, non-condensing
- May experience sub-optimal performance at extremes.

(May experience sub-optimal performance at extremes)

Noise Levels

- During Printing = 57dB
- Emptying Overflow = 66dB
- Vacuuming - Cover Open = 86dB
- Fine Core Removal = 80dB

Post Processing: Visit 3DS Central at <https://3dscentral.3dsystems.com/>

ProJet® 860Pro and Core Recycling Unit

Printer Power requirements

100-240V, 15-7.5A

Note: At 100-115V, a 20A circuit is required and the system ships with the appropriate 20 A plug. Due to high amperage, a dedicated circuit is strongly recommended.

Approximately 78 watts are required when the printer is in Sleep mode.

Core Recycling Unit

- 200-240 VAC, 10.9-10.2A, 50-60Hz

Important: A licensed electrician will need to wire a junction box according to applicable local standards. A 20A circuit is required and the system ships with appropriate 20A connector and cable. Due to high amperage, a dedicated circuit is strongly recommended. A licensed electrician will need to wire the provided connector plug and cable (P/N 22-50892) to the junction box.

Printer weight

- 800 lbs (363 kg)

Core Recycling Unit weight

- 575 lb (260 kg)

Printer dimensions

47 x 46 x 68 inches
(119 x 116 x 162 cm)

Core Recycling Unit dimensions

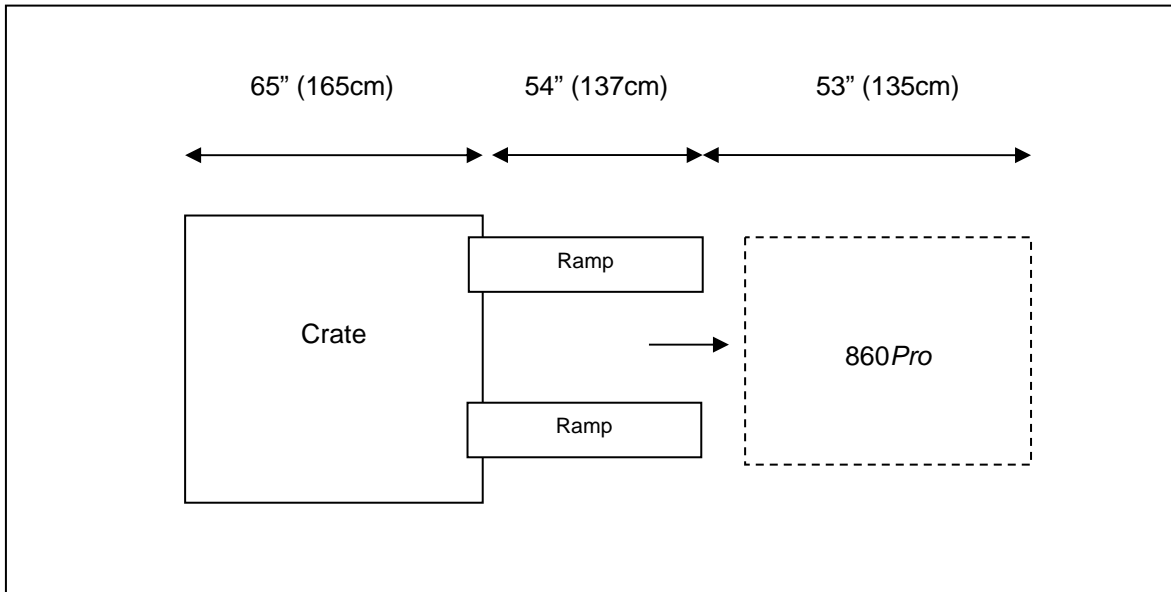
- In operation: Length 34" (86cm) x Width 44" (112cm) x Height 72" (183cm)
- With core tray extended: Length 34" (86cm) x Width 71" (180cm) x Height 72" (183cm)

Crated Dimensions

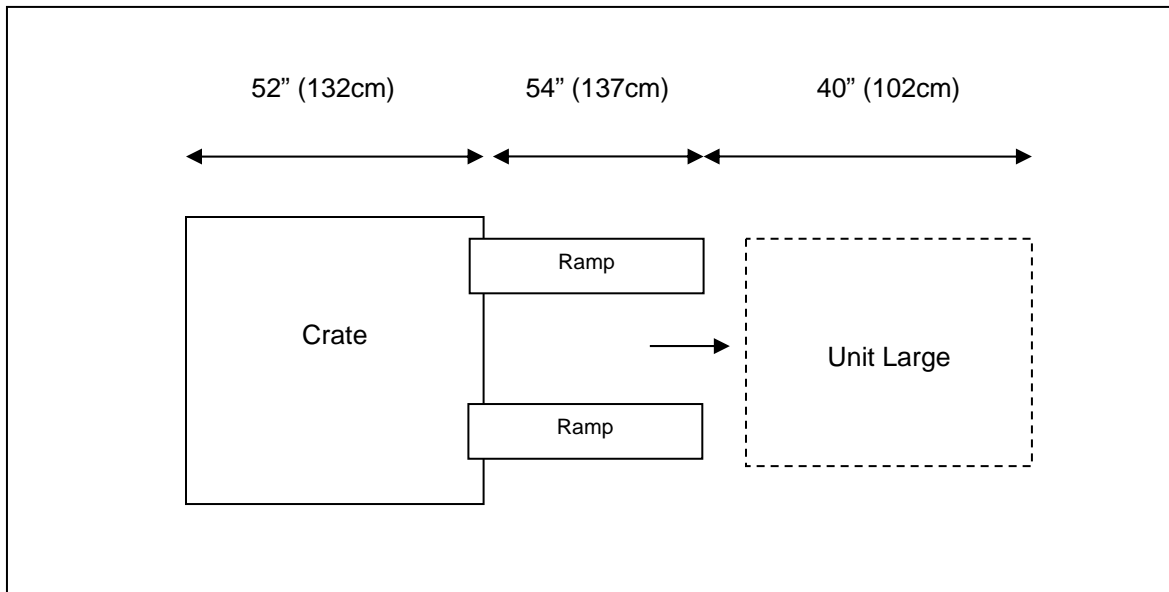
- Printer: Length 64" (163 cm) x Width 58" (147 cm) x Height 70" (173 cm)
- Core Recycling Unit: Length 51" (130 cm) x Width 54" (137 cm) x Height 80" (203 cm)

Unpacking Dimensions

- Printer:

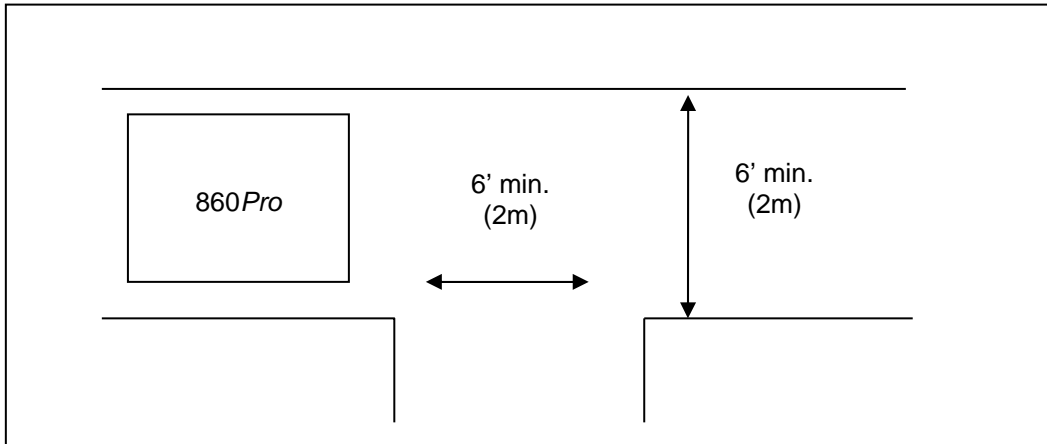


- Core Recycling Unit - Large

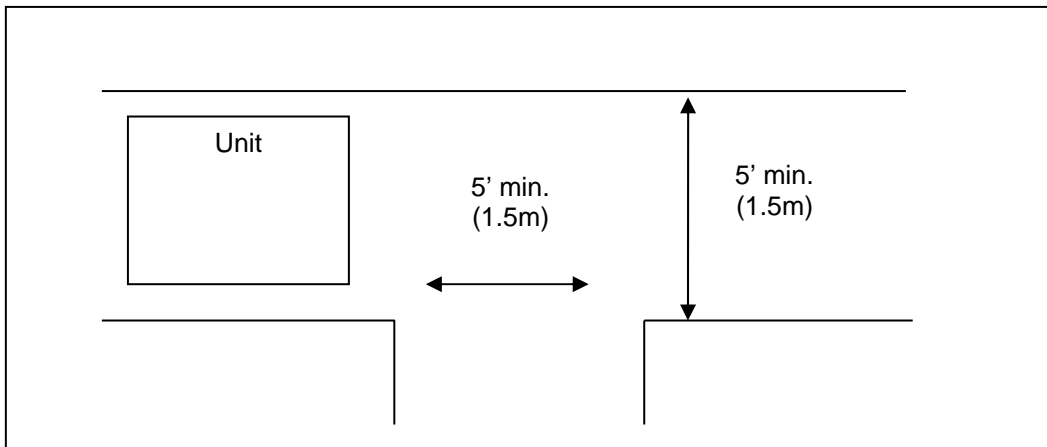


Turning Dimensions

- Printer

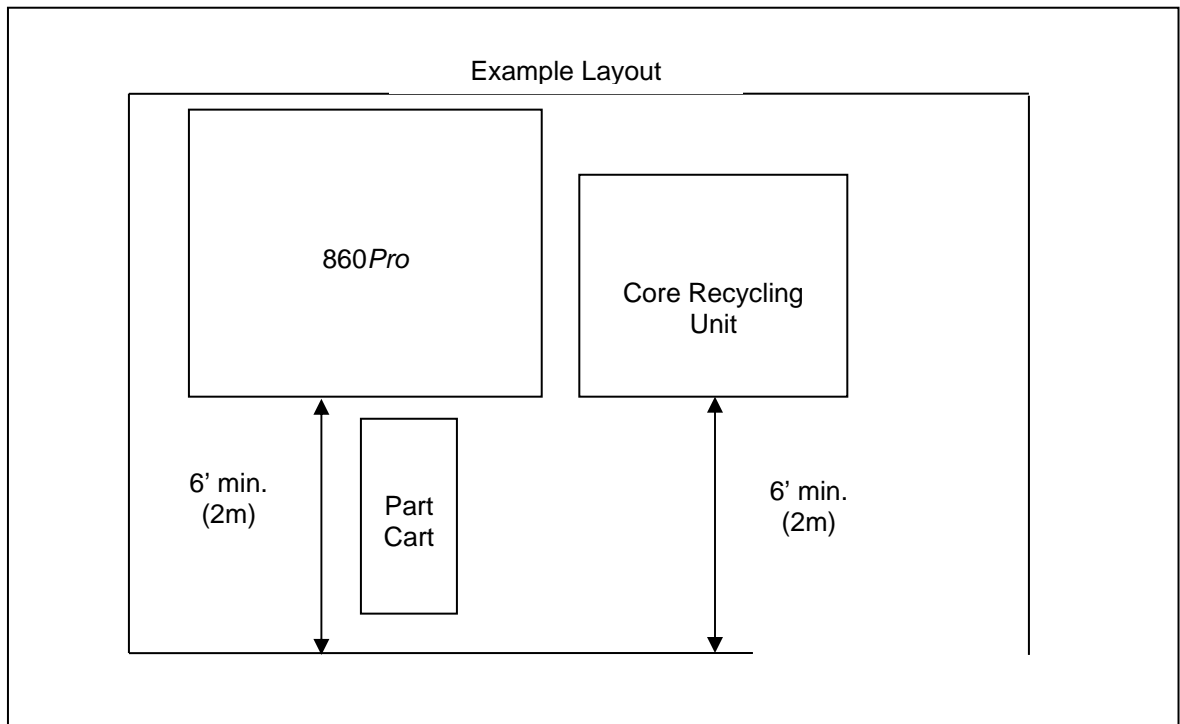


- Core Recycling Unit



Operating dimensions:

- If Part Cart is to be used: 6' minimum distance in front of Printer and Core Recycling Unit.



Operating Conditions:

Ambient Temperatures:

- Maximum Temp. Range: 55-80° F (12.7-26.6° C)
- Recommended Temp. Range: 55-75° F (12.7-23.8°C)

Ambient Relative Humidity

- Maximum RH Range: 15-65%, non-condensing
- Recommended RH Range: 20-55%, non-condensing
- May experience sub-optimal performance at extremes.

(May experience sub-optimal performance at extremes)

Noise Levels

- During Printing = 57dB
- Emptying Overflow = 66dB
- Vacuuming - Cover Open = 86dB

Core Recycling Unit Noise Level

- System on = 89dB
- While removing the fine core from the part with Air Wand or Air Gun = 95dB

Post Processing: Visit 3DS Central at <https://3dscentral.3dsystems.com/>

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