

DELL NEW PRECISION™ WORKSTATIONS



Han, SangOk
DELL MARKETING

DELL PRECISION™ : THE WORLD'S MOST TRUSTED W/S BRAND

DATE	MILESTONE	WW SHARE
2009	Dell's 9 th consecutive year as world leader (unit shipments)	>40%
2005	1 st Tier 1 vendor to launch a dual-core workstation	>40%
2001	1 st Tier 1 vendor to launch a mobile workstation	>30%
2000	#1 in Total Workstations (units shipments)	>20%
1998	#2 in Personal Workstations (unit shipments)	>10%
1997	Dell enters the market in July	<3%

Source: IDC WW Quarterly Workstation Tracker, February 2009



DELL PRECISION™ DELIVERING ON CUSTOMER NEEDS

- Why rely on Dell Precision?
 - Performance first
 - Engineered for the task
 - Reliable and dependable
 - Full range of systems
 - Certified for key applications

Dell Precision™ Workstations



DELL PRECISION™ DELIVERING ON CUSTOMER NEEDS

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Performance first

- Engineered for the task
- Reliable and dependable
- Full range of systems
- Certified for key applications

All Dell Precision systems are designed to deliver the best application performance possible



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All Dell Precision systems are designed with relevant performance technologies



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All Dell Precision systems are designed with thermal headroom for reliable levels of sustained performance



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- Why rely on Dell Precision?
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 - Engineered for the task
 - Reliable and dependable

Full range of systems

- Certified for key applications

With 3 mobile, 3 tower and a rack system the Dell Precision family provides excellent choice



DELL PRECISION™ DELIVERING ON CUSTOMER NEEDS

- Why rely on Dell Precision?
 - Performance first
 - Engineered for the task
 - Reliable and dependable
 - Full range of systems

Certified for key applications

Delivering systems tuned to run complex advanced applications in multiple different industries.



WHAT ARE WE LAUNCHING?

Major Refresh of Tower Workstation Offerings

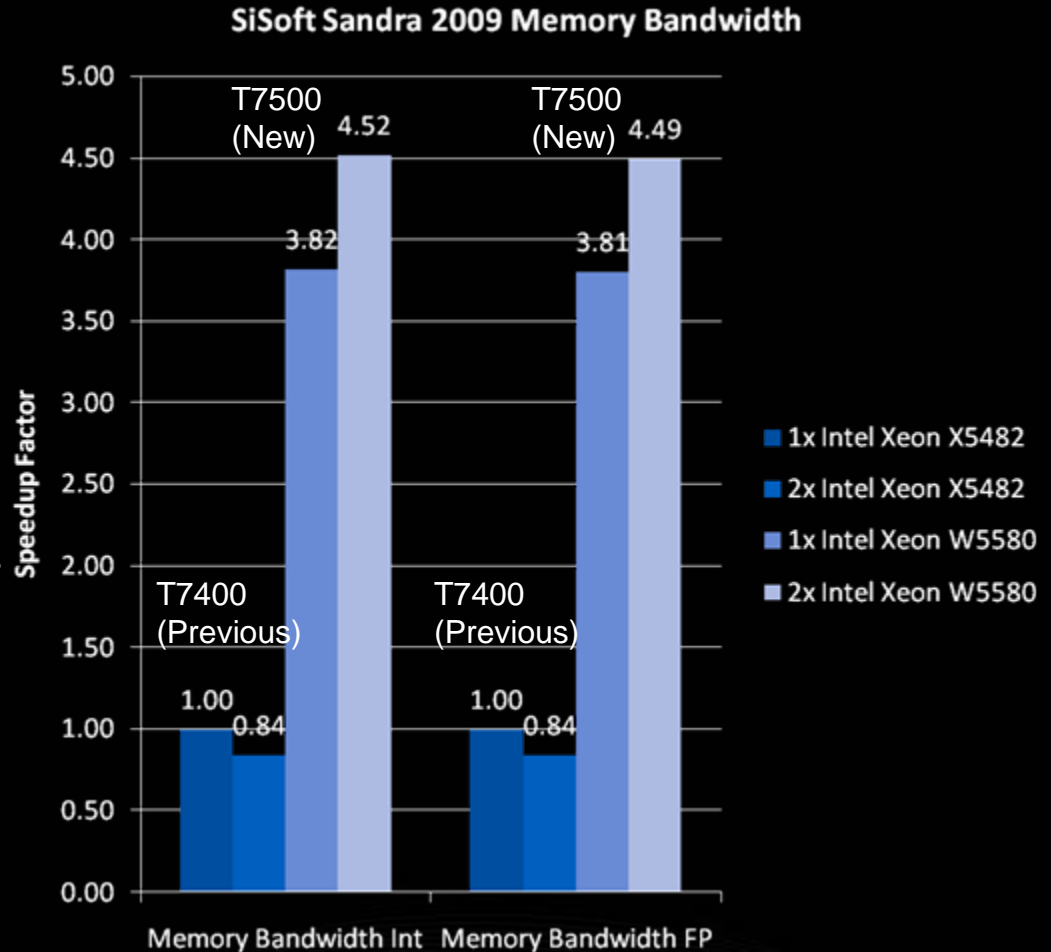


- Three new Dell Precision Towers with Intel® Nehalem architecture
 - Intel Nehalem architecture enhancements
 - X58 and X5520 chipsets
 - QuickPath Interconnects
 - Turbo Mode for dynamically scalable CPU performance
 - ECC DDR3 memory
 - Direct Cache Access
 - HyperThreading
- New graphics options from AMD® and NVIDIA®
 - Broad choice and performance options
 - DisplayPort® connectors
 - Support for GPU compute solutions (T5500 and T7500)
- Impressive application performance
 - Early benchmarks show encouraging results



DELL PRECISION: PERFORMANCE FIRST

- Up to 90% better multi-threaded 3DS Max performance than Dell's previous generation
- Up to 350% more memory bandwidth than the previous generation using SiSoft Sandra benchmark



* See test configuration and more performance comparisons in backup slides



DELL PRECISION: NEW GRAPHICS CARDS



- NVIDIA® NVS 295
- NVIDIA® NVS 420
- NVIDIA® QUADRO FX580
- NVIDIA® QUADRO FX1800
- NVIDIA® QUADRO FX3800
- NVIDIA® QUADRO FX4800
- NVIDIA® QUADRO FX5800

EXISTING

QUAD MONITOR POST RTS
WITH SYSTEM LAUNCH
WITH SYSTEM LAUNCH
WITH SYSTEM LAUNCH
EXISTING
EXISTING



- ATI® FIREGL V3750
- ATI® FIREGL V8700

WITH SYSTEM LAUNCH
WITH SYSTEM LAUNCH



DELL PRECISION: RELIABLE AND DEPENDABLE

- Dell Precision workstations are designed to provide robust reliability:
 - Dell designed motherboard layout
 - High performance interconnects between subsystems
 - Advanced cooling even when fully configured
 - Enables flexible configuration options
 - Dell designed thermal envelope
 - Fans can turn slower yet deliver excellent cooling
 - Intel core technology with the control of performance of individual cores
 - High energy efficiency
 - Energy Star 5.0
 - Certified power supply by 80Plus.org



DELL PRECISION: FULL RANGE OF SYSTEMS

M2400



M4400



M6400



*For desktop workstation class
performance but with mobility*

R5400 & FX100



*2U rack workstation with
world-class remote access*

NEHALEM

T3500



*Balance of performance,
scalability and affordability*

T5500

T7500



*Exceptional
performance
and scalability*



DELL PRECISION: CERTIFIED FOR YOUR APPLICATION

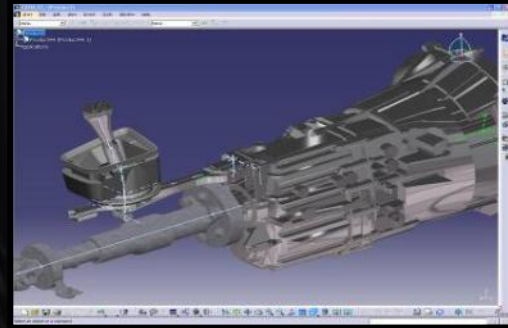


Image courtesy of SolidWorks

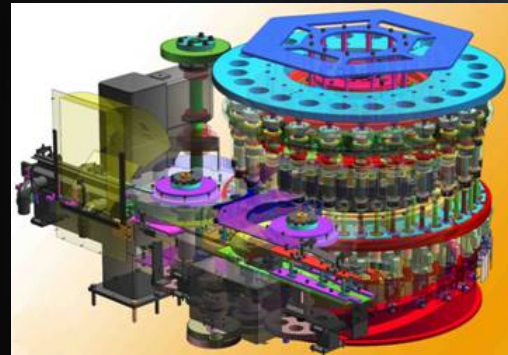


Image courtesy of Solid Edge®



DELL PRECISION™ T7500

*FLAGSHIP DUAL SOCKET DELL PRECISION WORKSTATION
BREAKS PERFORMANCE AND SCALABILITY BARRIERS*

New Technologies:

- Turbo Mode – increases the speed of cores on demand when some are inactive or underutilized enabling higher performance primarily for single threaded applications
- Three channel DDR3 ECC memory at 1066 and 1333MHz up to 192GB¹
 - Memory bandwidth scales with addition of 2nd processor
- Dual native Gen 2 PCIe x16 graphics slots
Up to 450 watts (2 x 225W or single 300W)
- Nvidia SLI support – no riser required
- Direct Cache Access (DCA):
Cache of inactive cores can be accessed
by those that are active



Great for:

- High end MCAD: Siemens, Dassault/Solidworks, PTC/ProE Wildfire
- Oil & Gas applications: Landmark, Petrel,
- CAE: Ansys, Mentor, Cadence, Nastran
- High end DCC: Adobe CS4, Softimage/XSI, Autodesk/3D Studio Max
- Customers looking for leadership memory and OpenGL 3D graphics scalability



DELL PRECISION™ T5500

*DUAL-SOCKET, DUAL AND QUAD-CORE WORKSTATION
PERFORMANCE FOR SPACE-CONSTRAINED ENVIRONMENTS*

New Technologies:

- Turbo Mode – dynamically increases the speed of cores when some are inactive or underutilized enabling higher performance primarily with single threaded applications
- Three Channel DDR3 ECC memory at 1066 and 1333MHz up to 72GB¹
- Dual NATIVE Gen 2 PCIe x16 graphics slots and support for up to 300 watts (2 x 150W or single 225W)
- Direct Cache Access (DCA) – when cores are inactive, the cache of those cores can be accessed by those that are active



Great for:

- High end MCAD: Siemens, Dassault/Solidworks, PTC/ProE Wildfire
- CAE: Ansys, Mentor, Cadence, Nastran
- High end DCC: Softimage/XSI, Autodesk/3D Studio Max
- Customers looking for memory and OpenGL 3D graphics scalability in a compact chassis



DELL PRECISION™ T3500

MAINSTREAM DUAL AND QUAD-CORE WORKSTATION PERFORMANCE

New Technologies:

- Turbo Mode – dynamically increases the speed of cores when some are inactive or underutilized enabling higher performance primarily for single threaded applications
- Direct Cache Access (DCA) – when cores are inactive, the cache of those cores can be accessed by those that are active
- Memory controller integrated into CPU resulting in low latency and excellent application performance
- Three Channel DDR3 at 1066MHz and 1333MHz scales to 24GB¹ ECC

Great for:

- DCC – Autodesk/3D Studio Max
- 3D CAD – Dassault/Solidworks, PTC/ProE Wildfire
- AEC – Autodesk/Revit, Bentley/Microstation
- CPU frequency for single threaded applications
- 2D and mainstream 3D graphics performance



DELL PRECISION™ PERFORMANCE FIRST

- Dell Precision M6400
 - Twice the memory capacity of any competitive product
 - The only mobile workstation offering RAID 0 and an optical drive at the same time
 - Drives two 30" flat panels at full resolution when docked



Performance, in particular, is stellar. It blew through my mixture of engineering, database, and software-development workloads with aplomb, outpacing the HP 8730w by margins of 9 to 23 percent.

Randall C. Kennedy , infoworld.com



DELL PRECISION™ PERFORMANCE FIRST

- Dell Precision M4400
 - The only 15.4" mobile workstation offering RGB LED screen with 100% Adobe® color gamut
- Dell Precision M2400
 - Find a smaller and lighter mobile workstation!



DELL PRECISION™ PERFORMANCE FIRST



- Dell Precision R5400
 - Unique 2U rack workstation
 - Support for high performance OpenGL graphics cards
 - Ideal for use with 1U NVIDIA S1070 GPU solution
- FX100 Remote Access
 - Supports full choice of graphics cards
 - No client device required at remote location



DELL PRECISION: TECHNOLOGY YOU CAN TRUST



- Major technology refresh from leading workstation vendor
- Undisputed leader in workstation shipments over the last nine years, worldwide.
- Unmatched application certification program to help ensure reliable performance





Precision R5400 시스템 구축 *DEMO*



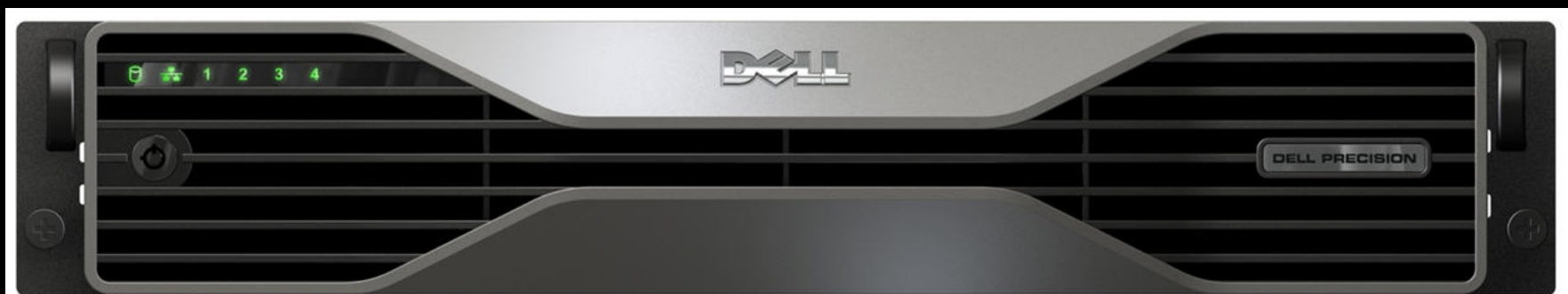
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R5400 RACK WORKSTATION SPEC

Chassis	<ul style="list-style-type: none"> • 2U; 27" deep*
Core Logic Architecture	<ul style="list-style-type: none"> • Intel® 5400X Seaburg-DW chipset • Intel® Xeon® Quad-core and Dual-core processors up to 80 watts
Memory	<ul style="list-style-type: none"> • Fully Buffered DIMM (FBD) DDR2 667 <ul style="list-style-type: none"> – 4 DIMM slots; 32GB Max
Graphics	<ul style="list-style-type: none"> • Support for dual native PCIe x16 graphics; up to 300W total
Fixed Storage	<ul style="list-style-type: none"> • Up to 2 SATA 3.0 HDD <ul style="list-style-type: none"> – Removable from the front, but not hot swappable
Optical Bays	<ul style="list-style-type: none"> • (1) Slim-line optical bay
Ports	<ul style="list-style-type: none"> • (2) Gbit RJ45, (5) USB 2.0 (2 front, 3 rear), (2) Serial, (2) PS/2
Expansion Slots - 4 Slots - All full height - All full length	<ul style="list-style-type: none"> • Riser 1 <ul style="list-style-type: none"> – (2) PCIe x16 – Gen 1 • Riser 2 – choice of: <ul style="list-style-type: none"> – (1) PCIX 64-bit @ 100MHz; (1) PCIe x16, wired as x8 (default) Or – (1) PCIX 64-bit @ 100MHz; (1) PCI 32-bit; 5V
Network & Manageability	<ul style="list-style-type: none"> • Dual Integrated Gbit • Desktop manageability features (ASF 2.0)
Miscellaneous	<ul style="list-style-type: none"> • Supports industry standard racks • Commonality with Dell PowerEdge™ for rails & cable management

*Excludes bezel; measured from front of chassis mount to rear of chassis







Dell FX100 REMOTE ACCESS DEVICE

주요특장점:

- 최대 1920x1200, 듀얼 스크린으로 사용할시에는 최대 1600x1200 해상도를 지원하는 두개의 DVI 포트
- 비디오, 애니메이션, ClearType, Windows Aero for Windows Vista, Direct X 등 대부분의 3D 그래픽을 지원
- 10/100/1000 BaseT Ethernet 내장
- 원격지에서 Host 의 USB 포트를 그대로 쓸 수 있음 (오디오 기능 포함)
- 호스트에 설치된 각종 어플리케이션을 원격지에서 이용할 수 있음
- SSL IPSec 보안 프로토콜로 주고 받는 데이터를 해킹으로부터 보호함



Dell FX100 REMOTE ACCESS DEVICE

SPEC:

- Video Ports
 - 2 DVI-I ports

Ports

- 4 USB 1.1 connectors
- 1 audio mic-in jack
- 1 audio headphone out jack
- 1 audio line-out jack
- 1 RJ45 jack for 10/100/1000 Mbps Ethernet

Dimensions

- Height 9.13" (232 mm)
- Width 3.7" (94mm)
- Length 6.85" (174 mm)

Power

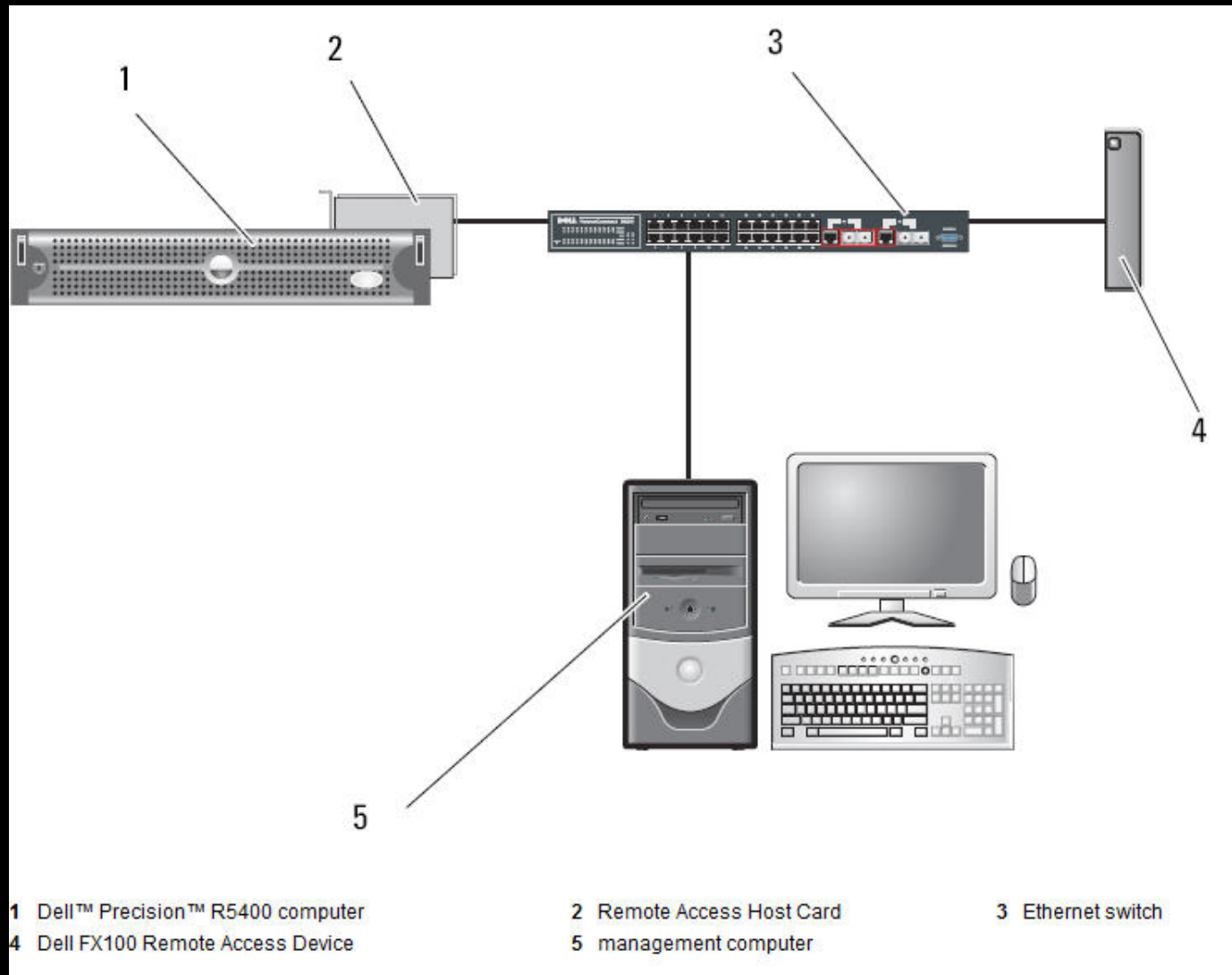
- Power 12v DC – 30Watts
- External power adapter with worldwide autosensing
- 100-240v VAC, 50/60 Hz support



Dell FX100 REMOTE ACCESS DEVICE



Configuration Overview (Basic)





도전과제.
R5400 + FX100 구축하기

구축시간 : 10분



Q&A

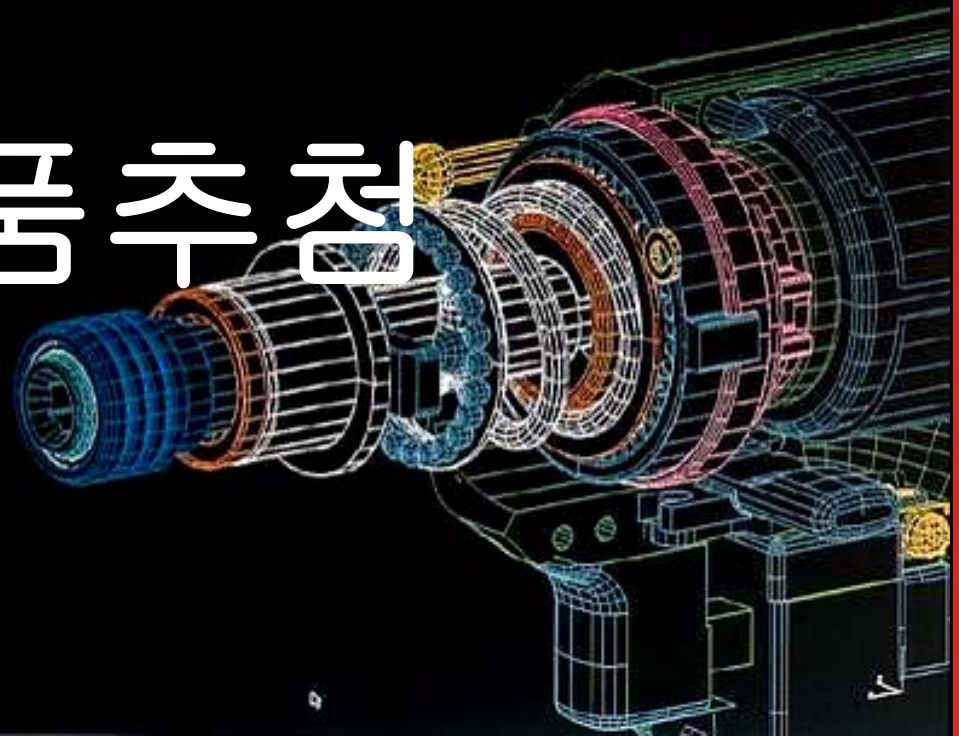


감사합니다.





경품추첨





Thank you.

