



# Data Centre Factory at Nexus

Data centre and hardware solutions to reduce your build cost and risk



## Start your project with the right data centre reference design

Building a data centre architecture in a distributed IT environment can be daunting for any IT team. SHI's Data Centre Factory at Nexus offers data centre integration and end-user computing configuration solutions that simplify the process and reduce build costs by 30%. Our services include pre-configured, pre-tested, and hybrid cloud architecture, providing a low-risk approach to rapid data centre hardware configuration and end-user computing needs.

Our team of experts can help you design, build, configure, test, and validate your data centre rack configurations. We offer comprehensive integration and configuration services, from single-device provisioning to deploying thousands of configured racks for global data centre rollouts. We ship the fully configured racks directly to you for easy installation, ensuring a hassle-free experience.

For customers with data centre infrastructure deployment needs in North America and Asia, our Data Centre Factories in the U.S. and Singapore can facilitate those requirements.

### Benefits

- Reduce your build costs by 30%
- Provision your data centre 3x faster
- Minimize "empty cage cost" by 50%
- Design, procure, build, validate/test, and deploy in 6 to 8 days with comprehensive integration services
- Comply with sustainability requirements with waste disposal/recycling services

### Checklist

Design and validation	<input checked="" type="checkbox"/>	Server assembly	<input checked="" type="checkbox"/>
Equipment logistics and staging	<input checked="" type="checkbox"/>	Operating system	<input checked="" type="checkbox"/>
Supply chain management	<input checked="" type="checkbox"/>	Cables and labels	<input checked="" type="checkbox"/>
Project management	<input checked="" type="checkbox"/>	Burn in time and stress testing	<input checked="" type="checkbox"/>
Rack and stack	<input checked="" type="checkbox"/>	Licensing for switches	<input checked="" type="checkbox"/>
Bios and/or firmware	<input checked="" type="checkbox"/>	Component integration and configuration	<input checked="" type="checkbox"/>



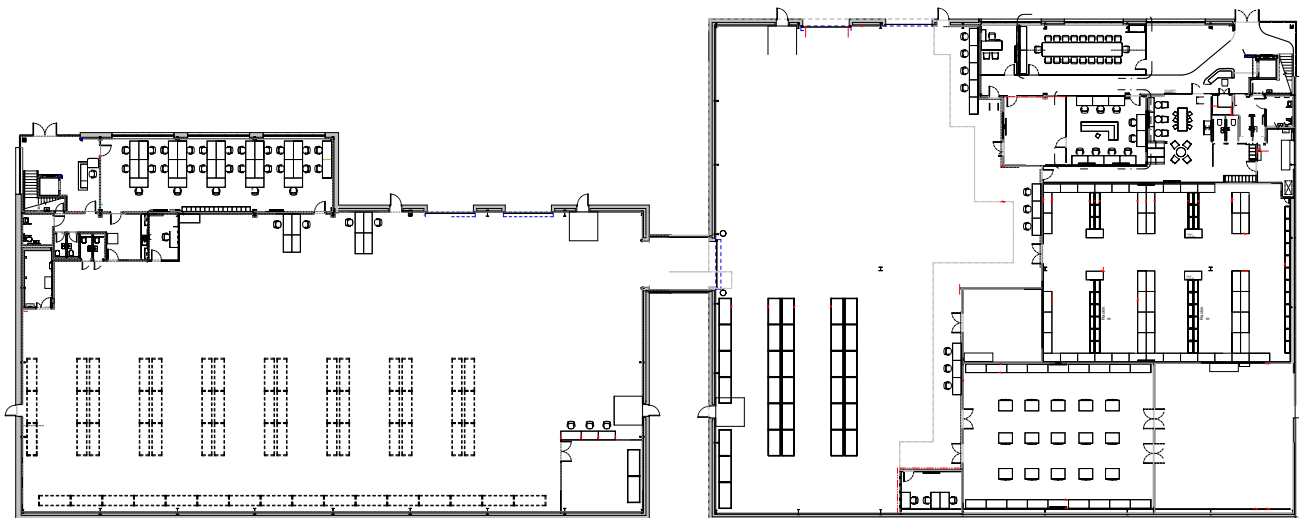
## Achieve a faster, more reliable, and fully predictable deployment

SHI provides custom-integrated rack solutions for organisations needing the expertise of certified OEM data centre infrastructure architects and engineers. Working with hundreds of SHI customers, we have a repository of engineer-validated reference architectures for both small and large data centre infrastructure projects to help you avoid design and planning pitfalls. Our team has designed and built thousands of racks with expert precision, helping you realise a faster time to market.

IDCS Flex is a pre-configured and validated solution ideal for organisations with less complex requirements. Our certified engineers can recommend the best server, storage, and networking options to suit your needs. You will receive all the necessary enclosures, PDUs, cabling, and accessories for a complete setup.

IDCS Max is an all-encompassing solution that covers planning, supply chain management, design, architecture, and operational support. We offer dedicated project design teams, OEM certified engineers, and technicians to meet your program requirements, guaranteeing a smooth and tailored experience.

Additionally, we specialise in device configuration and kitting services that do not involve integrated racks. Our strong partnerships with OEMs guarantee the seamless deployment of production-ready solutions for servers, storage, networks, and other devices or appliances.



## Data Centre Factory at Nexus

- State-of-the-art, custom-built from the ground up
- Approx. 8,000 sq. ft. office space
- 38,000 sq. ft. configuration space and storage
- 800+ racked pallet locations
- Data centre configuration services
- End user compute configuration services
- 24/7 on-site security
- Fully monitored security systems
- Customer Innovation Centre (EUC and DC)
- ISO Certified: 9001, 27001, 14001, and 45001 - by 2024
- 15 rack and stack build bays
- 18 cold room rack test bays (17kW power per bay)

## Rack and stack services

- Order consolidation
- Receiving and unpacking
- Inventory check and serial # recording
- Custom assembly and rack mounting
- Custom power failover testing
- Power and cooling
- Custom pre-installation testing/config
- Hardware validation
- System updates
- Firmware and BIOS upgrades
- Full diagnostic
- Quality assurance inspection
- Asset tagging/labeling
- Power/network/intra-cabinet cabling
- Final confirmation (Digital photo QA)
- Delivery and deployment coordination
- Equipment storage

## Pre-installation testing

- Server configuration
- BIOS installation
- Firmware upgrades
- Hardware-level checks
- Image deployment (all major formats supported)

## Pre-installation activities

- Hard drive swap/upgrades
- Custom card install
- Card layout swap
- ILO (or similar) configuration

## Installation activities

- Power testing before delivery
- Asset tagging and data capture (including RFID)
- Hardware validation before delivery
- Rack and stack services (including cable management)
- Server builds, storage array, and networking device configurations
- Soak testing
- RMA and warranty replacement management
- Hot spare pool for service support
- Remote customer testing and validation
- Customer stress testing and performance benchmarking
- Production certification by customer

SHI has Data Centre Factories servicing customers in the U.S., Canada, LATAM, U.K., EU, and Asia. Our shipping and logistics team are well-versed in working with vetted carriers with guaranteed delivery SLAs and custom agencies worldwide. We ensure you receive your data centre and hardware solutions at the right location, on time, fully configured, and ready to plug and play.

Contact your SHI account executive to learn more about the Data Centre Factory at Nexus, or email [IDCS\\_Presales@SHI.com](mailto:IDCS_Presales@SHI.com).