01 INSTALLATION & COMMISSIONING

Bently Nevada 3500/05-02-04-00-00-01

01 / ESTABLISH THE INSTALLATION PLAN

Bently Nevada 3500/05-02-04-00-00-01 is a panel-mounted 3500 System mini-rack with seven available monitor-module positions. It houses the system power supplies and rack interface in dedicated left-hand positions, with rear access to I/O modules and wiring.

Confirm the requested rack

3500/05	3500 System Rack
02 rack size	12-inch mini-rack; seven module slots
04 mounting	Panel mount, mini-rack
00 agency option	None
00 reserved option	None
01 European compliance	CE

Installation relationship

Panel opening Clamp-mounted mini-rack with rear service access	**Rack assembly** Left-side power/interface plus seven module positions	**3500 modules** Installed monitors and rear I/O for the configured channels

01 Record the existing system

Before disturbing a live installation, use the approved machine-isolation procedure and capture the complete rack identifier, installed modules, slot map, power arrangement and rear I/O assignments. These are site checks rather than additional rack ratings.

02 Confirm service access

The panel-mount rack fits a rectangular panel cutout and is secured with the supplied clamps. Its wiring and I/O modules are reached from the rear. Keep the cabinet arrangement serviceable after cables, covers and adjacent equipment are installed; access planning is part of the installation review.

Related Bently Nevada models

Bently Nevada 3500/05-02-05-00-00-01	Related rack or service component; verify intended role
Bently Nevada 3500/05-01-01-01-00-01	Related rack or service component; verify intended role

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3500/05-02-04-00-00-01

02 / FIT AND INSPECT THE PANEL ASSEMBLY

Mechanical arrangement

Rack Execution	12-inch mini-rack
Available Module Slots	7
Mounting Format	Panel mount, mini-rack
Panel Attachment	Clamps supplied with the rack
I/O and Wiring Access	Rear of rack
Power Supply Location	Dedicated far-left rack positions
Rack Interface Location	Dedicated far-left rack position

03 Match the panel mounting drawing

Use the mini-rack panel-mount arrangement in the rack installation documentation. Do not prepare the opening using a full-size rack or bulkhead drawing. Check the finished opening, clamp engagement and accessibility against the approved cabinet design.

04 Support the rack

Inspect the intended panel and the supplied clamps before fitting the rack. Secure the assembly using the manufacturer installation procedure and its hardware-specific tightening requirements.

05 Preserve rear access

Route rear field connections so covers and I/O modules can be reached for service. Check the practical access with the planned cabinet doors, rear clearances and neighboring wiring in place.

Inspection outcome

Proceed when the selected panel format is secure, the module guides are undamaged and the rear interface remains accessible. Record physical defects before transferring modules.

Related Bently Nevada models

Bently Nevada 3500/05-01-02-00-00-01	Related rack or service component; verify intended role
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03 / RESTORE THE MODULE AND I/O PLAN

Required positions

Power-supply area	Keep the designated far-left positions available for system supplies
Interface area	Keep the rack interface in its designated far-left position
Monitor area	Allocate the seven available positions to the required modules
Barrier earthing, if fitted	Include the dedicated earthing position in the engineering plan

06 Transfer the recorded architecture

Keep power supplies and the rack interface in their specified left-side locations. Reconcile each installed monitor and I/O module with the approved slot plan before reconnecting field wiring.

07 Review conditional earthing

The selected reserved 00 field does not order internal barriers. Where a separate system design uses internal barriers, the 3500/04-01 Internal Barrier Earthing Module provides the IS Earth connection and consumes a dedicated position. Consult Internal Barriers document 141495 for that assembly rather than interpreting the general rack code as barrier approval.

08 Check covers and hardware

For unused positions, identify the correct front panel and rear I/O cover. Use the documented half-height chassis and card guide only where required by the actual module arrangement. Spare-part listings do not imply those accessories are supplied with every rack.

Service-reference identifiers

130768-01	Full-height blank monitor cover kit
130944-01	Full-height monitor blank front panel in the kit
128031-01	I/O module cover in the full-height kit
04310251	I/O module-cover screws; order separately as specified

Related Bently Nevada models

Bently Nevada 130768-01	Related rack or service component; verify intended role

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04 / CONFIGURE AND CHECK THE SYSTEM

09 Verify the software prerequisite

A mini-rack requires 3500/01 Version 2.70 or later. This is a configuration-software requirement, not a claim that software or a license is supplied with the rack. Record the engineering software version and the actual module configuration before a rack replacement or commissioning activity.

System acceptance sequence

Identity	All five option groups and installed rack identification agree
Mechanical	Panel attachment is secure; rear service access remains usable
Configuration	Slot map, module list and software version are recorded
System check	Installed modules communicate and receive power as designed
Release	Machine-specific functional acceptance is complete

10 Review power and communication

After completing the authorized pre-energization checks, verify the installed power supplies, rack interface and monitoring modules using their applicable manuals. The rack supports their physical and electrical arrangement; it does not define the supply input voltage or channel signal limits.

11 Confirm the selected display

Check the actual display mounting option before commissioning. The 3500/93 A01 face-mounted arrangement cannot be accepted on this mini-rack.

12 Restore the protection function

Complete the site-specific channel and protection checks before returning the machine to service. Retain the final module map, configuration and results; a powered rack alone does not demonstrate a functioning protection system.

Related Bently Nevada models

Bently Nevada 125388-01	Related rack or service component; verify intended role
Bently Nevada 125565-01	Related rack or service component; verify intended role

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05 / HANDOVER AND SERVICE QUESTIONS

Can all wiring on 3500/05-02-04-00-00-01 be serviced from the front?

No. Its panel-mount format provides rear access to I/O modules and wiring. The front-access bulkhead format is not available for the mini-rack.

Does 3500/05-02-04-00-00-01 accept a 3500/93 A01 face-mounted display?

No. The 3500/93 A01 system face-mount option is incompatible with the 3500/05 mini-rack.

Does CE in 3500/05-02-04-00-00-01 mean hazardous-area approval is included?

No. The final 01 specifies CE European compliance, while the separate agency-approval field is 00, meaning none.

What is needed if 3500/05-02-04-00-00-01 is installed in an EIA rack?

The mini-rack requires a 144863-01 19-inch EIA Adapter Panel when used in an EIA rack. Confirm the intended mounting arrangement rather than treating the panel-mount unit as a full-size rack.

Related Bently Nevada models

Bently Nevada 3500/05-01-02-00-00	Related rack or service component; verify intended role

Handover record

Retain the exact rack model, panel attachment review, rear I/O map, software version, module allocation and functional acceptance result. Record any separately engineered internal barriers and their IS earthing arrangement.

Manufacturer evidence

141525 Rev. N: rack roles, module positions and rear-access panel format p. 1; mini-rack restrictions, software and ordering options p. 3; rack accessories and document identifiers p. 4; mini-rack EIA adapter arrangement p. 7. Published product data and suggested site inspection steps are distinguished in this ApterPower reference. Use Rack Installation and Maintenance Manual 129766-01 and Field Wiring Diagrams 130432-01 for the installed assembly.

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