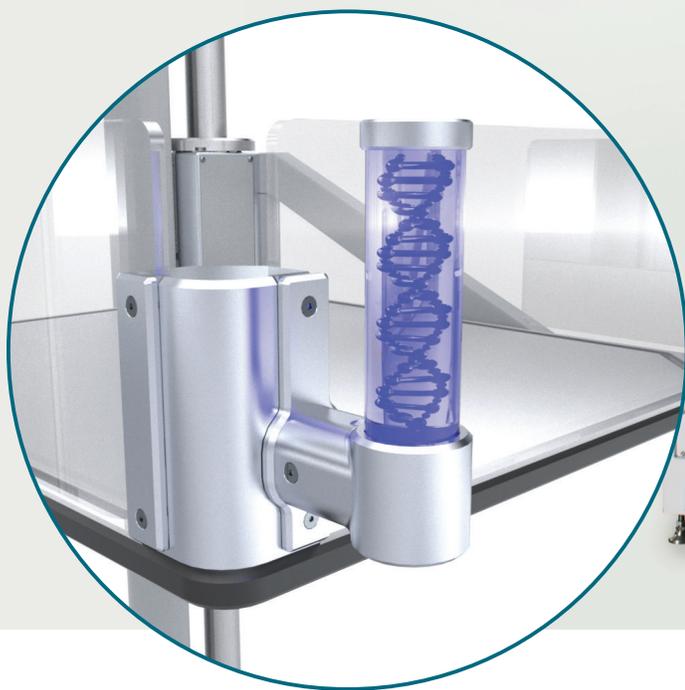# Thermo Scientific™ inSPIRE™

- World's First Collaborative System
- Touch Enabled Automation
- "At-a-glance" system health
- Flexible & configurable modular components
- Rapid onsite deployment

inSPIRE SmartShelf
– Simple & Intuitive to use!

Touch enabled automation via SmartHandle with haptic feedback

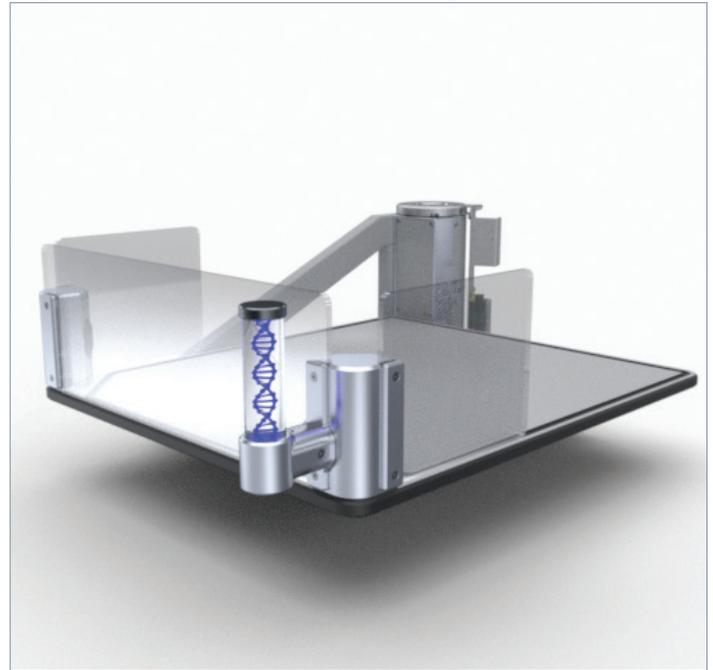Integrated sensor in handle for controlling instrument access

SmartHandle provides "at-a-glance" instrument status

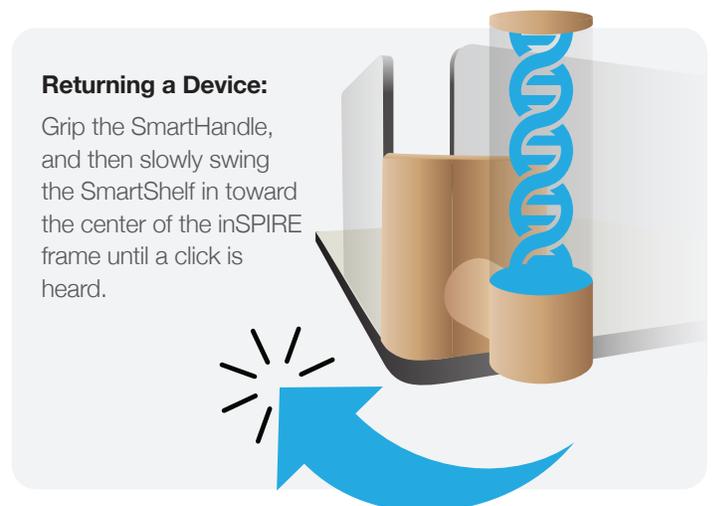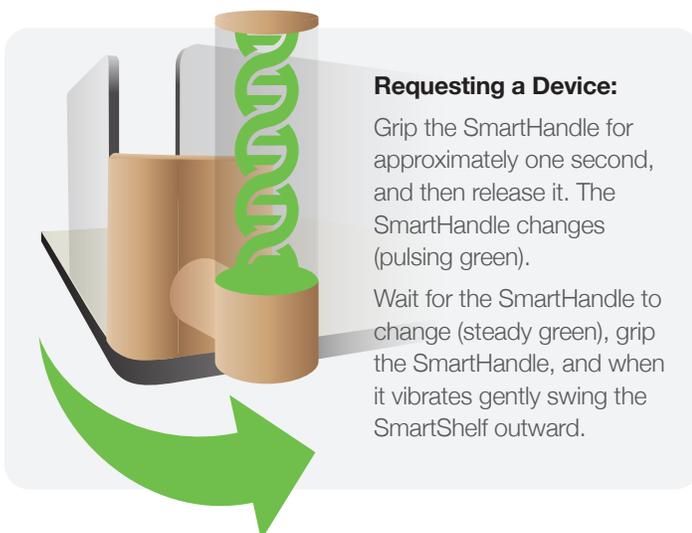Supports one or more appropriate instruments and their reagents

Built-in instrument(s) power supply and communication with Momentum Software

Up to 4 SmartShelves/pole based upon instruments located on SmartShelves

Up to 50kg (110lb) weight capacity; 600d x 565w mm

Requesting and Returning a Device

Requesting a Device:

Grip the SmartHandle for approximately one second, and then release it. The SmartHandle changes (pulsing green).

Wait for the SmartHandle to change (steady green), grip the SmartHandle, and when it vibrates gently swing the SmartShelf outward.

Returning a Device:

Grip the SmartHandle, and then slowly swing the SmartShelf in toward the center of the inSPIRE frame until a click is heard.

inSPIRE System Bundles

Base system platform to start from and configure as needed

Packaged solution that includes the main inSPIRE components needed for an integrated system containing up to 7 instruments

Features the inSPIRE Central with 3-6 SmartShelves, a Standard Fixed Top Table cube, two 15 nest Random Access hotels and two Sequential Access Stackers, up to 7 Momentum concurrent instrument interface license (at production run-time).

inSPIRE is powered by the industry leading Thermo Scientific Momentum Workflow Software

inSPIRE uses the fully collaborative Thermo Scientific Spinnaker XT robot which has vision teaching, on the fly healing, built-in barcode reader for sample tracking, and a full 360 degree workspace
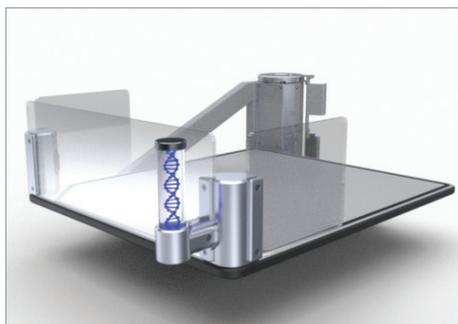
inSPIRE Components

inSPIRE Central

inSPIRE system central piece that your chosen SmartShelves, Table cubes, and other inSPIRE components & accessories mount onto

Each post supports up to 4 SmartShelves depending upon your instrument layout and choices

Features Spinnaker XT robot, Momentum Host PC, Momentum Scheduling Software, built in ambient microplate storage, 1 Fixed Side Guard Panel, 1 UPS for Momentum PC & Spinnaker, plus the following accessories SmartJig Nest Post Mounted, SpinnakerXT Power Puck Holder and Momentum Monitor Post Mount.

NOTE: Momentum Concurrent Instances and Instrument Integration Kits are purchased separately. Installation and/or Integration Services are purchased separately.

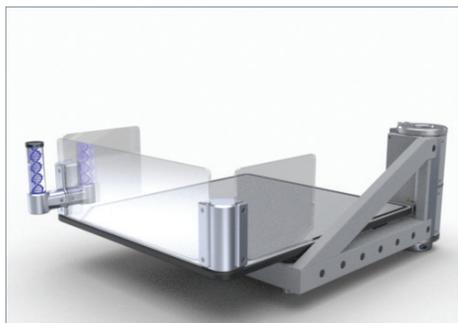## inSPIRE SmartShelf – Right or Left Side

Touch enabled automation via SmartHandle with haptic feedback

SmartHandle provides "at-a-glance" instrument status

Built-in instrument(s) power supply and communication with Momentum Software

Supports one or more appropriate instruments and their reagents

Up to 50kg (110lb) weight capacity; 600d x 565w mm (25.6d x 22.2w inches)

inSPIRE SmartShelf Bottle Holder Accessory

Convenient & easy access, attaches to SmartShelf sidearm

Supports up to 6 1L solvent bottles (does not include bottles)

inSPIRE Tall Table

Fixed upper & lower surfaces available for instruments.

Includes instrument power supply and communication with Momentum software

Easily configured using Table Accessories for additional instrument human access/capacity

1200w x 800d x 1000h mm (47.2w x 31.5d x 39.4h inches)

inSPIRE Standard Table

Fixed upper & lower surfaces available for instruments

Includes instrument power supply and communication with Momentum software

Add optional table shelfs for additional instrument human access/capacity

1200w x 800d x 860h mm (47.2w x 31.5d x 33.9h inches)

inSPIRE Small Platform

Attaches to narrow or wide side(s) of inSPIRE Base

Ideal for Thermo Scientific™ Cytomat 2C™ incubators or other small footprint tall instruments

600w x 600d mm (23.6w x 23.6d inches)

inSPIRE Rotating Upper Table Top Accessory

Conveniently allows either human or robot access to table top instrument(s)

Touch enabled automation via SmartHandle with haptic feedback

SmartHandle provides "at-a-glance" instrument status

Built-in instrument(s) power supply and communication with Momentum Software

No re-teaching required – positively located so you are ready in either position

Rotating table top replaces the fixed Table top

Images show accessory alone (top) and, as an example,
inSPIRE Table, 1200 x 800 x 860mm with Rotating Top Accessory (bottom)

inSPIRE Table Shelf Post Mounted Accessory

Mounts to two table posts (between upper & lower table surface) to provide an interior/exterior shelf for instruments, reagents, computers or other scientific accessories

Supports up to 15kg (33lb); 800w x 500d mm (31.5w x 19.7d inches)

Images show accessory alone (top) and, as an example,
attached to inSPIRE Tall Table (bottom)

inSPIRE Large Platform, No Built-in Power Distribution

Attaches to wide side(s) of inSPIRE Base

Ideal for Thermo Scientific Cytomat products or other larger footprint instruments

Does not include built-in instrument power supply and/or instrument communication

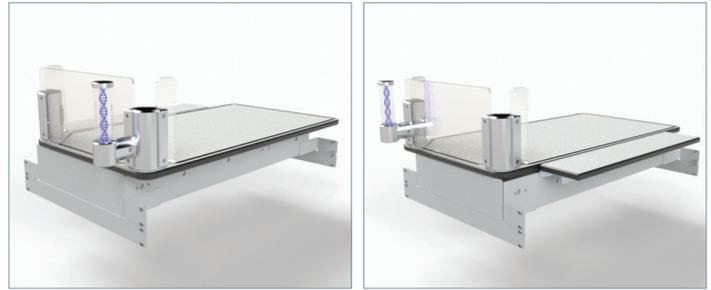1100w x 850d mm (43.3w x 33.5d inches)

inSPIRE Table Lower Drawer Left/Right Side Accessory

Place an instrument(s) on sliding drawer for easy access by replacing left or right halves, or both halves of table lower fixed surface with a sliding drawer

Touch enabled automation via SmartHandle with haptic feedback

SmartHandle provides "at-a-glance" instrument status

Built-in instrument(s) power supply and communication with Momentum Software

Images show Left and Right Drawer Accessories alone, and as an example, inSPIRE Tall Table cube with Rotating Top, Post Mounted Shelf, Right side Lower Drawer, and Post Mounted Bottle Holder accessories

inSPIRE Narrow Side Guarding, Full Length

Post mounted on inSPIRE Central narrow side

inSPIRE Touchscreen Monitor Mount

inSPIRE TouchScreen Monitor on inSPIRE post for easy and convenient system interaction

Thermo Scientific™ Vanquish™ HPLC inSPIRE Module

- Integrate one or more Thermo Scientific Vanquish or Vanquish Duo uHPLCs

- Easy Manual Access to Vanquish for work or service

- Samples in Vials or Microplates (must be SLAS format)

- Temperature controlled storage options available

- Configurable to your workflow

- inSPIRE system can be configured for a complete workflow solution – from sample preparation to detection

- Touch enabled automation via SmartHandle with haptic feedback

- SmartHandle provides "at-a-glance" instrument status

- Built-in instrument(s) power supply and communication with Momentum Software

- inSPIRE Post Mounted Bottle Holder Accessory for convenient & easy access, attaches to inSPIRE Vanquish Module Post. Supports up to 6 1L solvent bottles (does not include bottles)

- Thermo Scientific Vanquish(s) HPLC supplied separately

inSPIRE Large Platform with Power Distribution

Attaches to wide side(s) of inSPIRE Base

Ideal for Thermo Scientific Cytomat products or other larger footprint instruments

Built-in instrument power supply

1100w x 850d mm (43.3w x 33.5d inches)

inSPIRE SmartJig Nest

Convenient on-board place to store your inSPIRE's SmartJig when not in use during either Teaching/Healing workflows

inSPIRE post mounted

inSPIRE Power Puck Holder

inSPIRE post mounted to provide easy and convenient user access to inSPIRE Spinnaker XT Power Puck

inSPIRE Post Mounted Bottle Holder Accessory

Convenient & easy access, attaches to inSPIRE Central, Table or Vanquish Module Posts

Supports up to 6 1L solvent bottles (does not include bottles)

inSPIRE Side Storage Mount for Hotels/Stacks

Expand your system's onboard storage

Adds 2 storage mounting position to narrow side

Compatible with Spinnaker Random or Sequential Access storage hotels

inSPIRE Post Mounted Power & Communication Module

Organizes communication and power distribution for instruments on inSPIRE table or platform

Provides a convenient accessible connection point

More Components Coming Soon!

Science inSPIRE'd Application Examples

inSPIRE is a flexible, configurable platform for YOUR workflow or others such as:

- MALDI-TOF
- ADME-Tox
- Nucleic Acid Extraction

- HTS Screening
- siRNA Screens
- Cell based assays

- ELISA
- High Content Extractions
- Shaking ELISA

- Bulk Plasmid Extractions
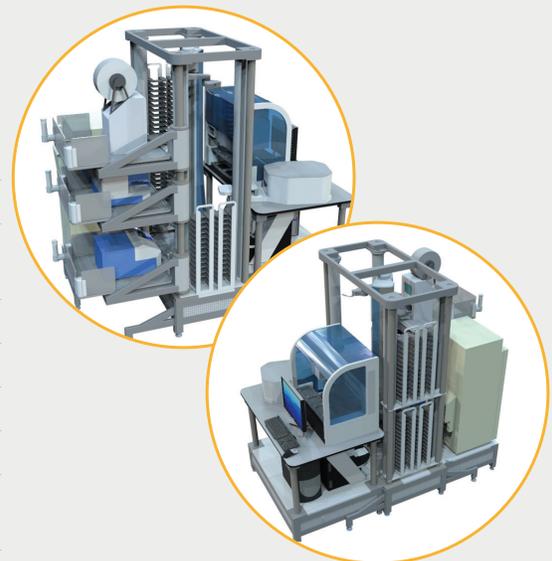- Assay Ready Plate Preparation

Nucleic Acid Extraction, Quantification & Normalization inSPIRE Example

Workflow

- System capable of arraying samples in plates
- FeliX pipettes samples & beads
- Combi dispenses extraction reagents
- Presto(s) for extraction
- Multiskan Go for nucleic acid quantification
- PlateLoc seals extracted samples
- Vspin pulse centrifuge steps
- Cytomat 2C for samples & extractions

Core instruments:

- Thermo Scientific™ Kingfisher™ Presto
- Thermo Scientific™ Multidrop Combi with multiway valve Dispenser
- Thermo Scientific™ Cytomat 2C Incubator
- Agilent PlateLoc Microplate Sealer
- Agilent Microplate Centrifuge
- CyBio® FeliX Pipettor
- Configurable inSPIRE Random & Stacker Access Storage

Colony Picking & Growth inSPIRE Example

Workflow

- PIXL picks colonies
- Felix prepare pick destination plates
- Combi for bulk dispensing
- Microplate Centrifuge for centrifuging
- Wasp seals picked plates
- Chilled Cytomat 2C for sample plates (to be picked)
- Shaking 37°C Cytomat 2C for growing picks

Core instruments:

- Thermo Scientific™ Kingfisher™ Presto
- Thermo Scientific™ Multidrop Combi with multiway valve Dispenser
- Thermo Scientific™ Cytomat 2C 4°C Incubator
- Thermo Scientific™ Cytomat 2C Shaking Incubator
- Agilent Microplate Centrifuge
- kbiosystems Wasp Microplate Sealer
- CyBio® FeliX Pipettor
- Singer Instruments PIXL Colony Picker
- Configurable inSPIRE Random & Stacker Access Storage

Assay Ready Plate Preparation inSPIRE Example

Workflow

- Compound plates start/end in ambient storage, spun down in centrifuge, then de-sealed and loaded into acoustic dispenser
- Destination plates start/end in stackers
- Bulk reagent added to destination plates & loaded to acoustic dispenser
- Compound transfer then both plates sealed & returned to storage

Core instruments:

- Thermo Scientific™ Multidrop Combi with multiway valve Dispenser
- Thermo Scientific 8 Position Carousel – Bulk Microplate Storage
- Agilent PlateLoc Microplate Sealer
- Agilent Microplate Centrifuge
- Aglient Plate Labeller
- Brooks Xpeel Desealer
- LabCyte Echo Acoustic Dispenser
- Configurable inSPIRE Random & Stacker Access Storage
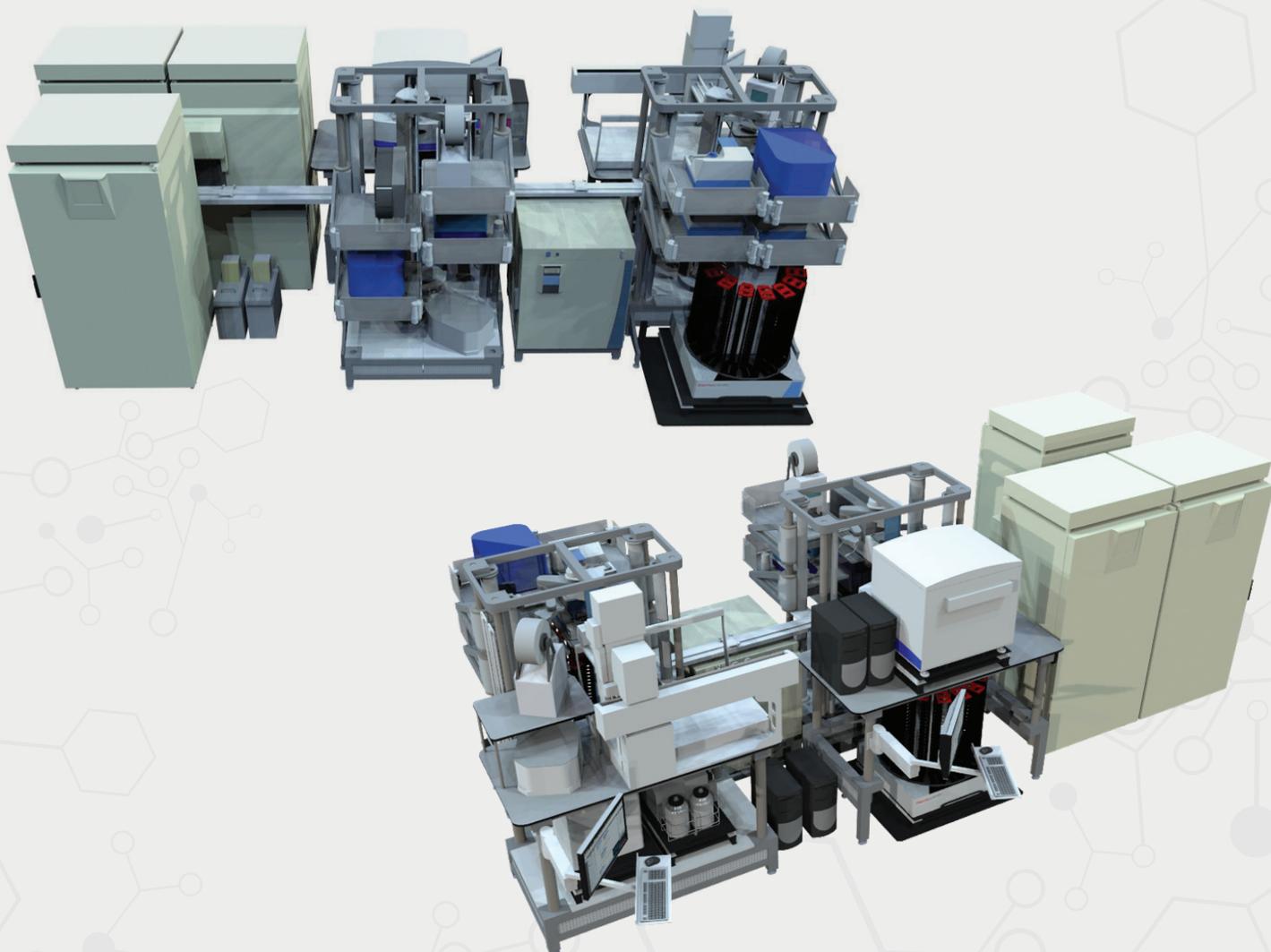
inSPIRE's Expansion Capabilities

inSPIRE's modular design enable multiple inSPIRE systems to be joined together

Connect:

- Two or more inSPIRE workstations together
- inSPIRE to your other Thermo Scientific Lab Automation Systems

Your connection choice style:

- Physically connected by Thermo Scientific™ FastTrak™, or
- Separated but connected by people!

Find out more at more **thermofisher.com.au** | **thermofisher.co.nz**

In Australia:
For customer service, call 1300-735-292
For service and calibration, call 1300-736-767
To email an order, AUinfo@thermofisher.com

In New Zealand:
For customer service, call 0800-933-966
To fax an order, use 0800-329-246
To email an order, NZinfo@thermofisher.com

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