

Required Skills and Qualifications

- Undertake online training and demonstrate capable use of Spot
- Insurance cover

Additional considerations

- Further training and support can be provided upon request

Quadruped - Spot

Available: 2 sets

Autonomous & tele-operated navigation with mission creation
14kg payload with 90 minutes battery life

[Factsheet]

Standard Kit

- Spot base platform
- 2 batteries with charger
- JXD tablet controller with cable
- Storage and transport case

Options

- Faro Focus 3D S150 scanner
- Spot CAM
- Spot GXP port extension
- Thermal Camera
- Radiation Sensors

Spot is an agile mobile robot that navigates terrain with unprecedented mobility, allowing you to automate routine inspection tasks and data capture safely. Users can integrate their own payloads or choose from existing options.

Cost

Dependant on duration of hire, support required & options selected



Required Skills and Qualifications

- Permission for commercial operations (PFCO) for multirotor wing UAV
- Full Liability Insurance and Aviation Liability cover

Additional considerations

- DJI Go will need to be installed on the supplied iPad mini which is downloadable from the app store

UAV – DJI Matrice 600 Pro

Available: 1 set

Up to 36 minutes flight time

Max payload 6kg

[Factsheet]

Kit contains:

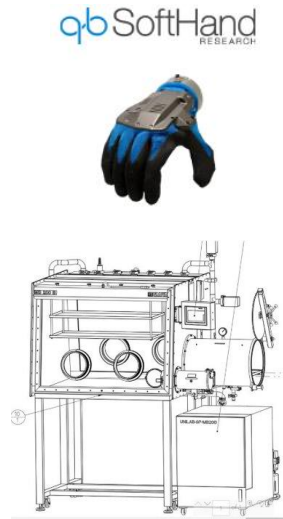
- DJI Matrice 600 Pro UAV platform with flight case
- 12 TB47S intelligent flight batteries
- Battery Case
- iPad mini
- RunCam Eagle 2 FPV Camera

Pre-installed arms and antennas reduce time required for setup and the system's modular design makes it easy to mount additional modules. The airframe is equipped with technologies including the A3 Pro flight controller, Lightbridge 2 HD transmission system, Intelligent Batteries and Battery Management system.

Cost

Dependant on duration of hire, support required & options selected





Robotic Arm – Kinova Gen 3 Ultra

Available: 2 sets

7DOF Manipulator

4kg Payload with 902mm Reach

ROS & Kinova Kortex Software Ready

[Factsheet]

Standard Kit

- Kinova arm inc. AC/DC adapter
- Integrated vision camera
- XBOX One Controller
- Storage & Transport case

Options

- Qb SoftHand gripper
- Haption Virtuose 6D TAO
High force Haptic controller
- Glovebox Hull

Ideally suited to both research and industrial use. Easy to set up in under 30 minutes and controlled via the provided gamepad controller or optional haptic device. The slender size makes the arm highly suited for glovebox work or mounting to UGV platforms.

Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

- Further training and support can be provided upon request

Cost

Dependant on duration of hire, support required & options selected



Robotic Arm – Kuka LBR iiwa 14

Available: 2 sets

7DOF Manipulator
14kg Payload with 820mm Reach
ROS & kuka Software compatible

[\[Factsheet\]](#)

Standard Kit

- LBR arm inc. power supply
- SmartPAD controller
- Electric type media flange

Options

- Onrobot RG6 Gripper
- LBR fitted into Certified Safety enclosure

An extremely precise manipulator, designed to work in isolation or collaboratively with humans. Featuring a small footprint and high payload; proven performance cross industry.

Cost

Dependant on duration of hire, support required & options selected

Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

- Further training and support can be provided upon request





Barrel Store Mockup Re-configurable Area

Available: 1 area

24 x 200L Standard Waste Drums arranged in a re-configurable grid array

5 x 5m Footprint that can be expanded

Use in conjunction with UGV / UAV such as Spot

Standard Kit

- Barrel Area

Options

- Spot Quadraped
- Mavic Mini UAV
- Cameras & other sensors
- Radiation sources

Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

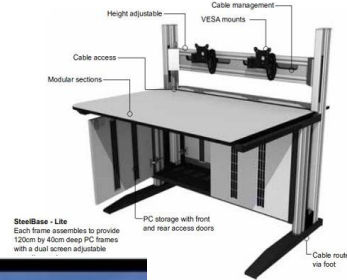
- Further training and support can be provided upon request

This simulated barrel store area is ideal for evaluating mobile vehicles in performing various inspection tasks. This can include visual, thermal, radiation and other types of inspection. The grid can be configured to suit specific needs. Users are able to bring their own equipment to be used in conjunction.

Cost

Dependant on duration of hire, support required & options selected





Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

- Further training and support can be provided upon request

Control Room - Expandable & Mobile – from Apr '21

Available: 1 area

Mobile Control room
15 x 5m Expanded footprint
3 x modular desks

Standard Kit

- Expandable trailer with A/C
- 3x removable desks
- Viewing, networking, control
- 55kva silent generator
- 63 amp / 3 phase connection

Options

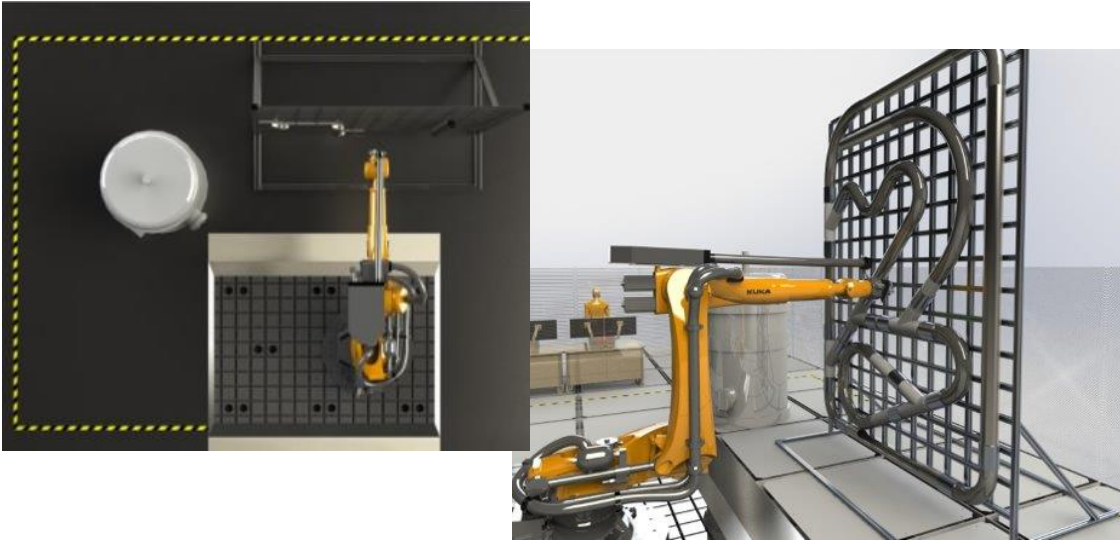
- Haptic devices & other controllers
- Various cameras, sensors, robots
- VR headsets

This mobile control room can be road transported via standard means and then expanded onsite. It then provides all the necessary infrastructure including desks, viewing monitors, networking, control systems and the such to control any robotic equipment. Hire on its own or with other NNUF equipment.

Cost

Dependant on duration of hire, support required & options selected





Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

- Further training and support can be provided upon request

Process cell - Kuka KR210 Ultra F - from Apr '21

Available: 1 area

Process Plant mock up Robot cell

Re-configurable pipe wall with large pressure vessel

Kuka KR210 with 210kg Payload, 3.1m reach

[\[Factsheet\]](#)

Standard Kit

- Kuka KR210 inc. SmartPAD
- Pipe Wall
- Control Desk & software
- Pressure Vessel

Options

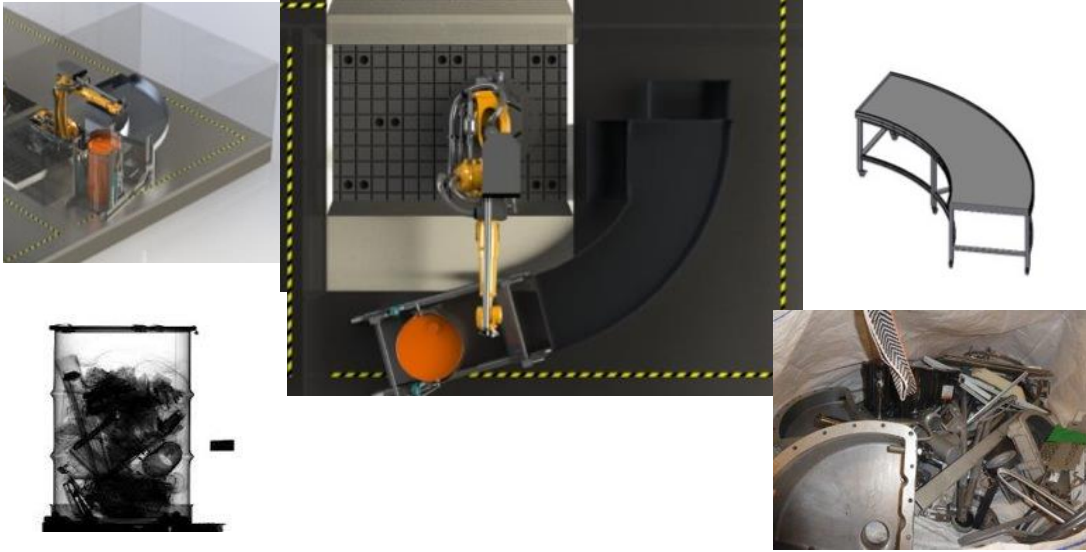
- Pneumatic/Electric Grippers
- Various sensors, cameras

This simulated process plant environment can be used for various tests & demonstrations. This could include pipe/vessel inspection, cutting & downsizing of steelwork and packing of waste. Users are able to bring their own equipment to be used in conjunction with the cell.

Cost

Dependant on duration of hire, support required & options selected





Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

- Further training and support can be provided upon request

Sort & Segregate - Kuka KR210 Ultra F – from Apr '21

Available: 1 area

Sort & Segregate mock up Robot cell

Large sorting area

Kuka KR210 with 210kg Payload, 3.1m reach

[\[Factsheet\]](#)

Standard Kit

- Kuka KR210 inc. SmartPAD
- Sorting Area with barrels
- Control Desk & software

Options

- Pneumatic/Electric Grippers
- Various sensors, cameras

This simulated sort & segregate environment can be used for various tests & demonstrations. Predominantly the unpacking of waste from barrels and subsequent sorting and then re-packing of this waste. Teleoperation or autonomous robot control can be used. Users are able to bring their own equipment to be used in conjunction with the cell.

Cost

Dependant on duration of hire, support required & options selected





Required Skills and Qualifications

- Familiarity with the use of similar equipment
- Insurance cover

Additional considerations

- Further training and support can be provided upon request

Waste Storage - FANUC R2000iD 165 – from Apr '21

Available: 1 area

Waste Storage mock up Robot cell

Multi Barrel Waste store area

FANUC R2000iD with 165kg Payload, 2.6m reach

[\[Factsheet\]](#)

Standard Kit

- FANUC R2000iD
- Waste Area with barrels
- Control Desk & software

Options

- Pneumatic/Electric Grippers
- Various sensors, cameras

This simulated waste environment can predominantly be used for palletising and sorting of barrels. Inspections can be performed and suspect barrels removed for further analysis. Users are able to bring their own equipment to be used in conjunction with the cell.

Cost

Dependant on duration of hire, support required & options selected

