

RYSEN™ – Operating procedures (1/2)

This worksheet provides the operating procedures for a RYSEN™ session. For more information or questions please contact clinical.applications.hocoma@dih.com.

Start-up procedure

1. Turn the switch on the Power Console of the RYSEN™ clockwise to “On”.



RYSEN™ Power Console in OFF-status



RYSEN™ Power Console in ON-status

2. Once the screen appears, log in with the username and the password which are provided.

- **Note:** If you forgot your username or password, click on “Forgot your password?” and follow the instructions.

3. Turn on the remote control and wait until the app is started and a connection is established.

The system is ready for use, awaiting subject selection.

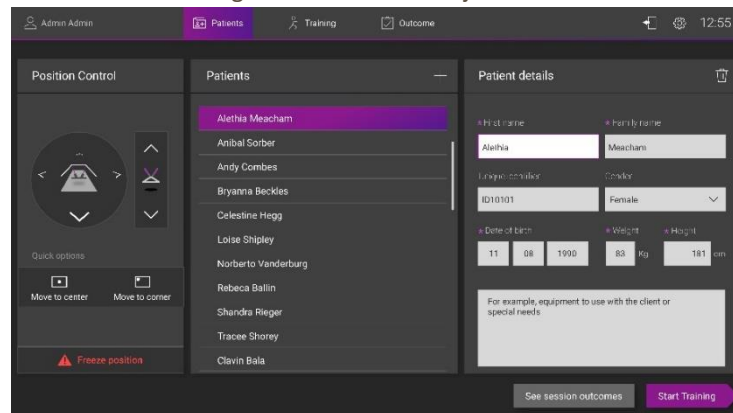
Shut down procedure

1. Place the RYSEN™ in the corner position with the remote control.
2. Press the “finish” button and turn off the remote control. The computer can be shut down by closing the RYSEN™ software. **Wait two minutes and then turn the main switch on the console to OFF.**
3. Charge the batteries of the remote control and the sling bar.



Creating/select a subject

1. Select the subject or click “+” to create a new subject in the database.
2. Fill in the requested information. **Weight** is important to determine the **amount of body weight support** and **height** is important for **fall detection**. Make sure these values are correct.
3. Click “Start Training” to connect the subject to the RYSEN™ and start the training.



Putting on the Harness

1. Choose the correct size of the harness (Small, Medium, Large) and the leg straps, or leg loops.
2. Wrap the harness around the patient, ensuring that the label on the back of the harness is aligned with the spine of the patient.
3. Close the straps of the harness and make sure the harness stays in the lowest possible position over the iliac crests.
4. Attach the leg straps/loops around the subject's legs.
5. Adjust the tension on the leg straps or on the straps of the leg loops, try to be symmetric.

RYSEN™ – Operator procedures (2/2)

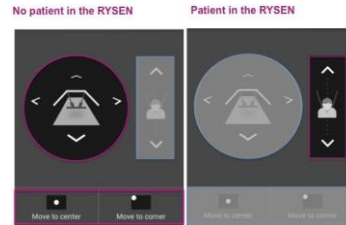
This worksheet provides the operating procedures for a RYSEN™ session. For more information or questions please contact clinical.applications.hocoma@dih.com

Connecting the subject to the RYSEN

Moving the sling bar

The sling bar of the RYSEN™ can be moved using:

- “Position control” tab on the remote control
 - Move the sling bar with the four arrows.
- “Move to center” button to move to the predefined center position.



Attaching the subject to the RYSEN

1. Position the subject in standing or seated position in the workspace of the RYSEN™
2. Move the sling bar to the subject. Lower the sling bar to a position slightly higher (appr. 3 cm) than the subject's head.
3. Attach the harness to the sling bar with the attachment mechanism.
4. Make sure the sling bar is oriented correctly. That is, the RYSEN-logo should be facing the front.
5. The RYSEN™ will automatically detect when a subject is attached, then you can increase the amount of body weight support (Monitor forces).



Releasing procedure

1. If preferred, let the subject sit down on a (wheel)chair by using the stand to sit mode.
2. Click the “Freeze” button and lower the sling bar to remove the tension from the harness.
3. Detach the harness by unclipping the suspension straps from the buckles on the harness.
4. Remove the harness from the patient.



Performing a RYSEN™ training

Select an exercise

1. Click on the exercises tab to choose one of the exercises.
2. Select an exercise (it turns grey) to change the parameters of that exercise. Example: Stand up mode is selected but not active at the moment.
3. Click on the exercise again to start the exercise (it turns purple). Example: Stand up exercise is currently active.



Monitor forces

Up and down arrows allow to set vertical force while left and right arrow allow to set horizontal force.

For each exercise, the **vertical forces** can be customized within a range of **0 to 60%**.

For the exercises “Walking” and “Stairs” the horizontal forces can also be customized within a range of **-5% to 7%**.

The horizontal force that can be set also depends on the vertical force that is applied at that moment.



Recovering from a suspend stop

1. At any time, the position of the patient can be frozen. Use the freeze button from the remote control or the console. The RYSEN™ will also automatically freeze in case of a fall or an error.
2. When the RYSEN™ is frozen, the user can either decide to:
 - Lower the patient on a chair and end the session
 - Resume the session

