

briedacabins

Securing safety by improving
crane operator performance
and cognitive efficiency
with the latest UNI-ISO Control Station

by Siro Brieda

A member of:

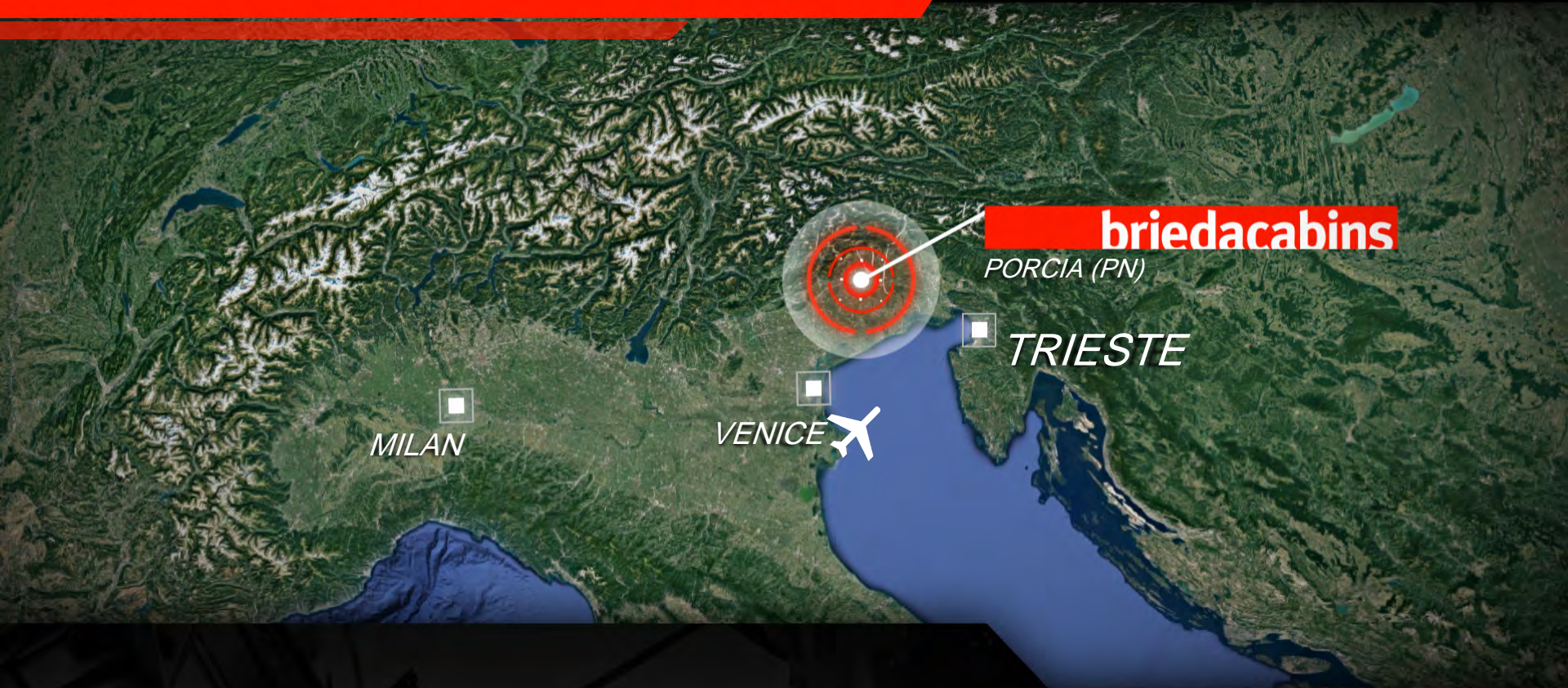


45th
briedacabins
1978 - 2023

FORTY FIVE YEARS

spent anticipating
the future

WE ARE ITALY



briedacabins

PORCIA (PN)

MILAN

VENICE

TRIESTE

OUR PRODUCT RANGE

45th
briedacabins
1978 - 2023

Made in Italy Since 1978 on the world market
with experience, quality and design...



Cabins



Dynamic Control Stations



Dynamic Remote Desk



Remote Ground
Control Stations

OUR PRODUCT RANGE

OUR PRODUCT RANGE

SHIP TO SHORE ABINS WITH DYNAMIC CONTROL STATION



OUR PRODUCT RANGE

INTERMODALE RTG RMG WITH DYNAMIC CONTROL STATION



OUR PRODUCT RANGE
OFFSHORE CRANES



OUR PRODUCT RANGE

PMB-22 ERGONOMICS CONTROL STATIONS



OUR PRODUCT RANGE
**DYNAMIC ERGONOMIC
CONTROL STATIONS DYCS**



OUR PRODUCT IN THE WORLD

WE ARE PRESENT IN
57 COUNTRIES

United States . Cuba . Chile . Brazil . Azerbaijan . Vietnam . Argentina . Peru . Mexico . Venezuela
United Kingdom . Ireland . Portugal . Spain . Italy . France . Germany . Sweden . Finland . Holland
Poland . Slovenia . Croatia . Hungary . Czech Republic . Romania
Cyprus . Greece . Canada . Israel . South Africa
United Arab Emirates . Yemen . Turkey . Jordan . Iran . Iraq
Pakistan . India . Sri Lanka . Russia . Indonesia . Malaysia . Australia . Belgium . Armenia . Ukraine
Ivory Coast . Thailand . China . Egypt . Austria . Switzerland

WHY CHOOSE BRIEDA DYNAMIC CONTROL STATION?

Referring to the speech title:

Securing safety
by improving crane operator
performance
and cognitive efficiency
with the latest UN-ISO Control Station

*SINCE 2007 OUR RESEARCH STARTED
FROM CRANE PORT APPLICATIONS*



IN THE RESEARCH WE ANALYZED 3 DIFFERENT OPERATOR POSTURES



OUR BIOMECHANICAL ANALYSIS HIGHLIGHT THE LOAD VALUE ISSUE

*For example with a back - lumbar
flexion of the operator*

10° degrees



the lumbar disc load value is

205 Kg / 452 lb



HOW WE PERFORM THE BIOMECHANICAL ANALYSIS?

OUR ANALYSIS IS MADE THROUGH AN INSTRUMENTAL EVALUATION

The system is made up of 17 integrated sensors (accelerometer, gyroscope, etc.), opportunely positioned ("vestings").



THE INSTRUMENTAL EVALUATION WAS MADE IN FIVE BODY POINTS:



*Xsens MVN Awinda
on Brieda Simulator*

*THANKS OUR CRANE SIMULATOR
WE REPRODUCED THE REAL WORKING CONDITION
RECORDING THE BODY STRESS VALUES*

Avatar
simulation

Analyzed results
with graphics



BIOMECHANICAL RESULTS POSTURES & COMPARISON



Traditional
posture

vs

DYCS
posture



BIOMECHANICAL RESULTS

POSTURES & COMPARISON



Traditional
joystick

vs



DYCS
Ergonomic joystick

BIOMECHANICAL RESULTS DYCSE ERGONOMIC CONTROL USE

ERGONOMIC JOYSTICK USE

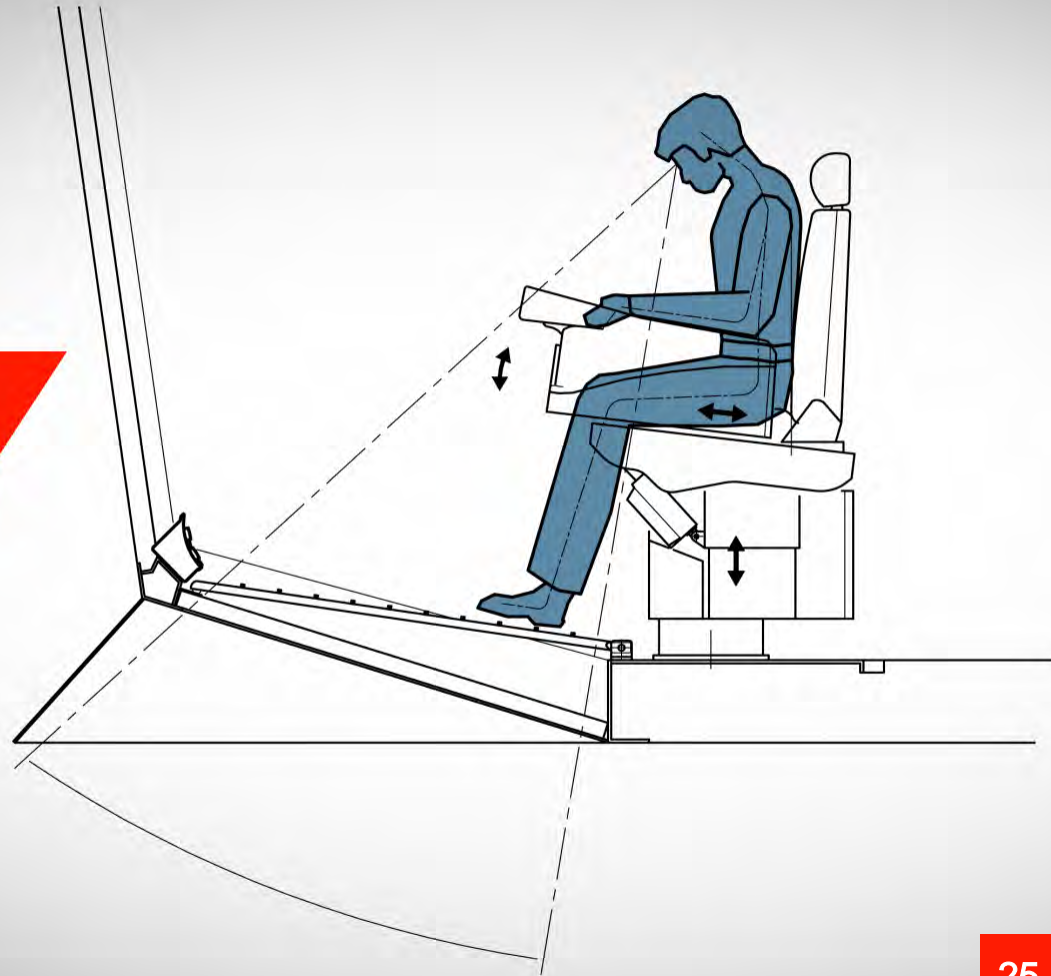
SMART FINGER HAND SUPPORT
FOR IMPROVED CONTROL
IN THE JOYSTICK'S USE

BIOMECHANICAL RESULTS
**DIYCSERGONOMIC
CONTROL USE**

PUSH BUTTON
ERGONOMIC LOCATION
FOR CUSTOMIZED MAIN FUNCTION



THE ERGONOMIC AND CORRECT WORKING POSITION



ERGONOMIC CERTIFIED CONTROL STATION

Has been found to be compliant with TECHNICAL SPECIFICATION REQUIREMENTS in order to verify the ergonomic features of the product – level: “Ergonomic Certified**”, and with the applicable ergonomic requirements of the following standards:



ISO-UNI EN
ergonomic certified

- *UNI EN1005-3*
- *ISO11226/ UNI EN1005-4*
- *ISO112283 / UNI EN1005-5*
- *UNI EN1335-1*



DYNAMIC CONTROL STATION

High quality,
ergonomic, comfortable
and safe workplace



DYCS IN ACTION
IN PORT OF SOUTHAMPTON

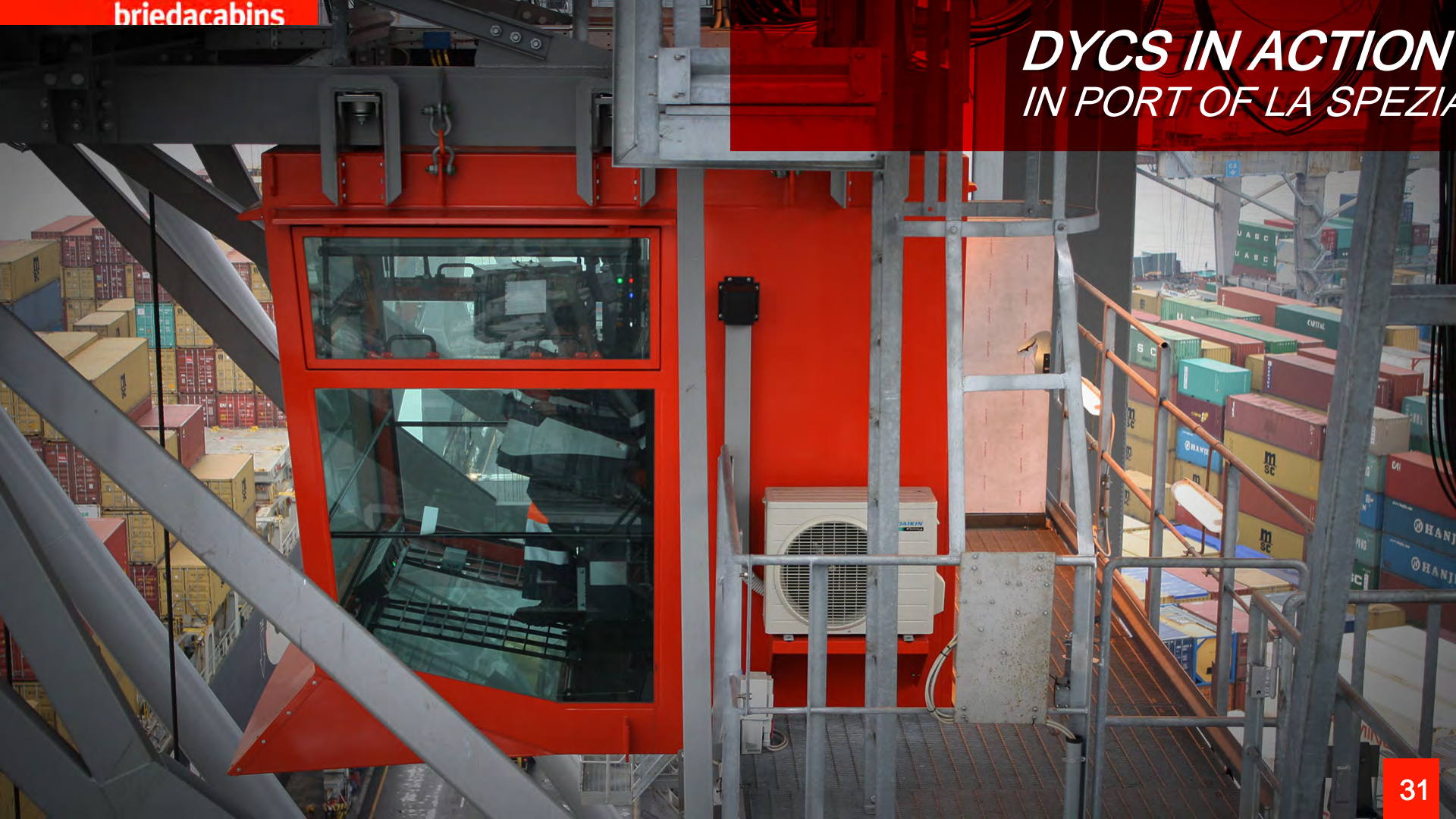


DYCS IN ACTION
IN PORT OF SOUTHAMPTON (UK)



DYCS IN ACTION
IN PORT OF LA SPEZIA (IT)

DYCS IN ACTION IN PORT OF LA SPEZIA





DYCS IN ACTION
IN PORT OF LA SPEZIA



DYCS IN ACTION
IN PTP PORT MALAY



DYCS IN ACTION
IN PTP PORT MALAYSIA





DYCS IN ACTION
IMPORT OF SINGAPORE

DYCS IN ACTION

INPORT OF SINGAPORE



It's also a pleasure for us to inform that
Port of Trieste has selected
Brieda cabins with DYCS
soon in operation at Molo VII.





Over 600 DYCS are working in the world



ONEWORLDONEPRODUCT

BRIEDÆRGONOMICPRODUCTS FORCRANEREMOTECONTROLTECHNOLOGY

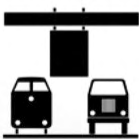
Dynamic remote desk

made for:

Harbour
Crane



Intermodal
R.M.G.



DYNAMIC REMOTE DESK ADJUSTMENT



BRIED REMOTE GROUND CONTROL STATION REPRODUCES CRANE CABIN OPERATOR ENVIRONMENT





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Grazie Trieste
per l'ospitalità!

Thank you for your attention!

Trieste, Italy
From 27 to 29 May 2024



MEDITERRANEAN
Ports and Logistics 2024