THE ULTIMATE HARNESS

A PERFORMANCE ENHANCING KITESURF HARNESS DESIGNED FOR MYSTIC BOARDING

KITESURFING, AN EXHILARATING WATERSPORT WHICH DEMANDS THE BEST EQUIPMENT. THIS PROJECT UNVEILS A CUTTING-EDGE KITESURFING HARNESS THAT REDEFINES USER EXPERIENCE THROUGH A SYMBIOSIS OF MODULAR DESIGN, ERGONOMICS, AND ADVANCED LOCKING MECHANISMS.



MODULAR DESIGN

IMPROVED LOAD DISTRIBUTION

THE MODULAR FRAMEWORK

FACILITATES THE DISTRIBUTION OF

PRESSURE ACROSS THE HARNESS.

RESULTING IN, ENHANCED COMFORT

AND SAFETY DURING KITESURFING,

ESPECIALLY DURING HIGH-STRESS

MANEUVERS.

UPGRADE, REPAIR & MAINTENANCE

WITH MODULARITY AT ITS CORE,
THE HARNESS ENABLES EFFORTLESS
UPGRADES, QUICK REPAIRS, AND
SIMPLIFIED MAINTENANCE, ENSURING
LONGEVITY AND REDUCING
ENVIRONMENTAL IMPACT.

ERGONOMICS

WIDE VARIETY OF USERS

THE ERGONOMIC APPROACH
EMBRACES THE CHALLENGE OF
DESIGNING A HARNESS FOR A DIVERSE
SPECTRUM OF USERS. ENSURING THAT
THE HARNESS ACCOMMODATES RIDERS
OF ALL SIZES AND BODY TYPES.

FREEDOM OF MOVEMENT VS LUMBAR LOCK

THE HYBRID APPROACH OFFERS BOTH SUPPORT AND FLEXIBILITY THROUGH A COMBINATION OF HARDSHELL AND SOFTSHELL FEATURES. MAXIMIZING FREEDOM OF MOVEMENT INTEGRATING LOCAL FLEXIBILITIES INTO THE BACKPLATE.

LOCK AND RIDE

SEMI-PERMANENT TRIMMING

THE TRIMMING SYSTEM OFFERS A
PERSONALIZED AND CONSTANT
EXPERIENCE FOR USERS. IF LAST
MINUTE TRIMMING IS NEEDED THE
LEVER BUCKLE SYSTEM HAS BEEN
REDESIGNED, WITH OPTIONS FOR
LAST-MINUTE ADJUSTMENTS IN
TIGHTNESS.

RIGID CONNECTION BETWEEN SPREADERBAR AND HARNESS

A RIGID CONNECTION BETWEEN THE SPREADER BAR AND THE HARNESS ENHANCING AND CONTROL DURING MANEUVERS AND RELIEVES THE PRESSURE ON THE RIBS DURING RIDING

Bowien van der Linden
Designing a kitesurfing harness that decreases
discomfort while increasing performance
27-10-2023

Committee Arjen Jansen

Gonny Hoekstra Peter Rupert

Mystic

Company

