



Haulotte

G R O U P

More than lifting

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HAULOTTE SCISSOR RANGE

SAFETY CONTROL FEATURES

THE PEOPLE AND MATERIAL LIFTING EQUIPMENT SPECIALIST

SAFETY CONTROL FEATURES

HAULOTTE SCISSOR RANGE



MANUAL PROTECTION

- Joystick Guard
- Controls 50mm below rails
- Pothole Protection

SOFTWARE CONTROLS

- Start up checks
- Load Sensing System
- Proportional controls
- Interlock to prevent unwanted movement

EMERGENCY CONTROLS

- Dual Emergency Stop
- Emergency lower from ground
- Emergency lower overrides LSS
- Manual emergency lower cable

FUNCTION CONTROLS

- Joystick trigger switch as Deadman function
- Time-out of Deadman
- Tilt Sensor
- Tilt Sensor cut-out
- Motion Alarm
- Strobe light



SCISSOR SAFETY CONTROLS



JOYSTICK SAFETY CONTROLS

- E-STOP
- JOYSTICK MOUNTED BELOW GUARDRAIL
- MECHANICAL GUARDING
“OVER-THE-TOP BAR”
- ENABLE “DEADMAN” TRIGGER SWITCH
- MOVEMENT INTERLOCKS
- JOYSTICK ORIENTATION



SCISSOR SAFETY CONTROLS



EMERGENCY STOP E - STOP

- FITTED TO FRONT OF CONTROL BOX
- IMMEDIATELY CUTS OUT ALL MOVEMENT



OPERATOR HANDS
BELOW RAILS WHEN
USING CONTROLS

50mm BELOW
GUARD RAIL

CONTROL LOCATION

- 50mm BELOW GUARD RAILS
(AS PER AUST STD AS1418.10)
- REDUCES RISK OF CRUSHING
- PROTECTS AGAINST INADVERTENT OPERATION



SCISSOR SAFETY CONTROLS



NO CLEARANCE
BETWEEN GUARD
AND JOYSTICK



GUARD BAR
PROTECTS
LH SIDE & ABOVE

MECHANICAL GUARD

- FITTED TO EVERY HAULOTTE SCISSOR (RETROFIT IN 2010)
- BAR PROTECTS JOYSTICK LEFT SIDE
- BRACKET PROTECTS RIGHT SIDE

CONTROL BOX
BRACKET ON RH SIDE



SCISSOR SAFETY CONTROLS



ENABLE TRIGGER

- ENABLE OR DEADMAN TRIGGER

COMPLIES WITH
AUST STD AS1418.10

ENABLE TRIGGER

8 sec TIMEOUT
PREVENTS MISUSE



MOVEMENT INTERLOCKS

- E-STOP MUST BE RELEASED
- TRIGGER MUST BE ACTIVATED BEFORE JOYSTICK MOVEMENT
- 8 sec TIMEOUT IF NO MOVEMENT PREVENTS SHORTCUTTING SAFETY FUNCTION

JOYSTICK MUST BE CENTRED
BEFORE MOVEMENT

PREVENTS SUDDEN
MOVEMENT IF JOYSTICK IS
'LEANT' ON



SCISSOR SAFETY CONTROLS



JOYSTICK DIRECTION

MOVEMENT ORIENTATION

- PUSH FORWARD RAISES SCISSOR
- PULL REAR TO OPERATOR LOWERS SCISSOR

RAISING SCISSOR REQUIRES FORWARD MOVEMENT AND REAR FORCE ON TRIGGER

WILL NOT HAPPEN ACCIDENTLY

GREEN

RED LOWER



SCISSOR SAFETY CONTROLS



CASE STUDY : ENTANGLEMENT OF JOYSTICK

**NO CLEARANCE BETWEEN
GUARD BAR & JOYSTICK**

**TRIAL ENTANGLEMENT
WITH WELDING HOSE**



**HOSE BLOCKED
BY GUARD BAR**



**WELD HOSE BLOCKED BY
GUARD BAR TO RHS**



**NOTE: WELD HOSE
FORCED INTO
POSITION – WILL NOT
SLIDE AROUND
JOYSTICK WITHOUT
OPERATOR
MANIPULATION**



**THE JOYSTICK IS PUSHED
BACK AS HOSE IS FORCED
AROUND IT.
THIS LOWERS SCISSOR =
AWAY FROM CRUSH HAZARD**

SCISSOR SAFETY CONTROLS



MULTI TIER SAFETY CONTROLS

- + PHYSICAL PROTECTION : GUARD OVER JOYSTICK
- + DEADMAN IS ACTIVATED BEFORE MOVEMENT
- + DEADMAN TIME-OUT AT 8 sec – NO OVERRIDE
- + JOYSTICK MOVEMENT
“TO RAISE SCISSOR THE DEADMAN IS SQUEEZED BACK
AND THE JOYSTICK PUSHED FORWARD”
- + E STOP AT CONTROLS IN AN EMERGENCY

