



# Tron 45S / SX

EMERGENCY POSITION-INDICATING RADIO  
BEACON, EPIRB



[www.jotron.com](http://www.jotron.com)

# ▶ Tron 45S/SX



## How the Tron 45S/SX saves lives?

When you activate the Tron 45S/SX, it starts transmitting vessel identity to the geostationary and polar orbiting satellites equipped with COSPAS/SARSAT transponders. The satellites forward the signal to a Ground Receiving Station (LUT) where also the position will be calculated and transferred to a Mission Control Centre (MCC). The necessary demands will be sent to the right Rescue Control Centre (RCC) which co-ordinate the rescue operation. The Search and Rescue Forces (SAR) bring the people in distress to safety.

### SPECIFICATIONS

Dimensions Tron 45S / 45SX:

Height: 341 / 490 mm

Max diameter: 81 mm

Weight: 0,7 / 0,9 kg

Polycarbonate with 10 % glass fibre and ABS

Materials EPIRB:

Aluminium or POM

Material brackets:

Antenna:

Omnidirectional whip antenna

Length: 180 mm

Visual indication:

Built in strobe light

Compass safe distance:

1,5 m

Operating temperature:

-20°C to +55°C

Battery:

Jotron type number 97769 / 97770

Tron 45S: Lithium, 4 years service life

Tron 45SX: Lithium, 5 years service life

Tron 45S: min. 24 hrs at -20°C

Tron 45SX: min. 48 hrs at -20°C

Operating life:

Approved according to:

Standards:

COSPAS/SARSAT

ETSI 300 066 (Tron 45SX)

### COSPAS/SARSAT TRANSMITTER:

Frequency:

406.025 MHz  $\pm$  2ppm

Output power:

5W  $\pm$  2db

Protocols:

Maritime, Serialised, Radio Call sign

Modulation:

Phase modulation 1.1  $\pm$  0.1 rad

Data encoding:

Bi phase L

Stability:

Short term:  $\leq$  10<sup>-9</sup>

Medium term:  $\leq$  10<sup>-9</sup>

Residual noise:  $\leq$  3 x 10<sup>-9</sup>

400 b/s

Bitrate:

### HOMING TRANSMITTER:

Frequency:

121.500 MHz

Output power:

Up to 100 mW

Modulation:

A9 AM, sweep tone from max 1600 Hz

down to min 300 Hz

Sweep range 700 Hz

Sweep rate 2.5 Hz

Stability:

10 ppm over temperature range



Agent/Distributor:

Jotron AS reserves the right to change the design and/or specifications at any time without prior notice.



# FujiMetallock Brasil

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