

# Terrier Winch

## Technical Information

HIGH LOAD, HIGH PERFORMANCE HYDRAULIC WINCHES

### Terrier Winch

The 'Terrier Winch System' is at the top level of our winch systems designed to meet the high performance and high speed requirements of serious off-road challenge events. It is designed for the professional off-road user and can be used in many different locations on the vehicle. Its small profile roller bearings and extreme speed will ensure you are guaranteed the best winching experience possible.



### Product Overview

This winch is part of a new speed generation from REDWinches that have undergone extensive design and testing. These winches are now available on the commercial market and as such offer something previously unavailable. This winch is fitted with roller bearings from a renowned bearing manufacturer and can carry loads up to 12 tonnes while still offering a smooth operation. Ideal if free-spool performance is at the top of your list. The end user can now enjoy a professional highly engineered high performance winch capable of operating at the highest speeds possible. The small compact size combined with its speed t make it an ideal winch for challenge events and serious competitions worldwide.

**REDWINCHES**  
THE ULTIMATE HIGH PERFORMANCE WINCHES



[www.red-winch.com](http://www.red-winch.com)

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# Terrier Technical Drawings

## Hydraulics

The winch is driven via a 100cc hydraulic motor supplied with 2 x 1/2" BSP ports 'A' & 'B'.

A solenoid valve can be supplied to control this winch.

Various products can be supplied to control the solenoid valve remotely.

From a dash mounted switch to a wireless remote, please ask for details.

## Drive System

The winch drum is unpeeled on the core to support the capstan effect performed on the drum by the rope tightening under load. During trials this has been shown to give a much better long lasting grip onto the drum.

A minimum of eight (8) wraps of the drum must be seen on the first layer before winching under load. The drum is supported by a world leader in roller bearing technology. This allows for the smoothest and most efficient winching compared to the industry standard plain bearing technology.

## Drum Capacity and Pulling Material

Maximum length of drum (BULL) of 12mm diameter synthetic rope.

All rope variants can be supplied, please ask for details.

Wire rope can be supplied, please ask for details.

## Gearbox

Single speed planetary gearbox with fully integrated hardened gears.

The ratio of the gears: 5:1

## Performance Data

High load Line Pull, Reliability, Durability

At 200 Bar Hydraulic Pressure at 38 Lines

Assumed engine speed of 1000rpm

12 WRAP – 4000kg

12 WRAP – LINE SPEED: 15rpm (1.5m/min)

40 WRAP – 3000kg

40 WRAP – LINE SPEED: 20rpm (2.0m/min)

40 WRAP – 3200kg

40 WRAP – LINE SPEED: 12rpm (1.2m/min)

40 WRAP – 2500kg

40 WRAP – LINE SPEED: 13rpm (1.3m/min)

## Braked Data

The winch can have a braked unit fitted, adding even more control.

Please ask for details.

THE ULTIMATE HIGH PERFORMAN

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