

Project: Gripple Hangfast

Client : Gripple Limited

Client's Order No:

Inspection Dates

First: 2-4-02

Certificate No: BHM 0116977/1

Office: Birmingham

Date: 2-4-02

Order Status : Complete

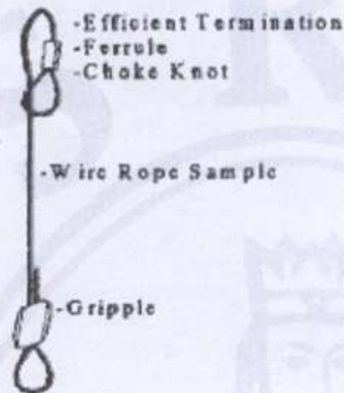
Final 2-4-02

This certificate is issued to Gripple Limited to certify that the undersigned inspector did at their request attend their premises at The Old West Gun Works, Sheffield on the above dates for the purpose of examining and witnessing tests on the items listed below. All with satisfactory results.

SCOPE of SURVEY

1. Select and identify test samples at random.
2. Audit of calibration status of all testing and measuring equipment used.
3. Witness mechanical testing.
4. Visual examination of all components after testing found to be satisfactory.

Test configuration



Gripple Loop-Fast No 1, No 2, No3, No 4 and No 5

| Loop-Fast Model | MBL of Wire Rope (Galvanised) | Rope Construction | Working Load Limit (WLL) | Failure Load of test | Mode of failure |
|-----------------|-------------------------------|-------------------|--------------------------|----------------------|-------------------------------|
| No. 1 | 80 kg | 7 x 7 (6/1) | 10 kg (22 lbs) | 80 kg | Wire Break. Housing undamaged |
| No. 2 | 260 kg | 7 x 7 (6/1) | 45 kg (100 lbs) | 270 kg | Wire Break. Housing undamaged |
| No. 3 | 580 kg | 7 x 7 (6/1) | 90 kg (200 lbs) | 550 kg | Wire Break. Housing undamaged |
| No. 4 | 1500 kg | 7 x 19 (12/6/1) | 225 kg (495 lbs) | 1540 kg | Wire Break. Housing undamaged |
| No. 5 | 2160 kg | 7 x 19 (12/6/1) | 325 kg (715 lbs) | 2700 kg | Wire Break. Housing undamaged |

The above tests were witnessed and found satisfactory. No deformation was observed on the Gripple Hangfast components that were visually examined on completion of the test.

R Harvey

Inspector to Lloyds Register