
International Standard



6816

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Machinery for forestry — Winches — Classification and nomenclature

Matériel forestier — Treuils — Classification et nomenclature

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Descriptors : agricultural machinery, forest equipment, winches, classification, nomenclature.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6816 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*.

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Machinery for forestry — Winches — Classification and nomenclature

1 Scope

This International Standard establishes the classification of the major types of winches and rope anchors and the nomenclature for major components and parts peculiar to these machines.

Examples used here are not intended to include all existing commercial machines nor to be descriptive of any particular machine.

2 Field of application

This International Standard applies to winches attached to machines used in forestry operations, for example on skidders.

Specifically excluded are winches used for hoisting operations on cranes, draglines, high lead logging and yarding.

3 Reference

ISO 6814, *Machinery for forestry — Mobile and self-propelled machinery — Identification vocabulary*.

4 Winch classification

Winches may be classified according to their construction or function.

4.1 Classification by number of drums

4.1.1 One drum winches.

4.1.2 Multidrum winches.

4.2 Classification by mode of operation

4.2.1 Power in/power out, free spool optional.

4.2.2 Power in/free spool out.

5 Rope anchors classification

The classification of rope anchors is based on the method of fastening the cable to the drum.

5.1 Fixed anchor

The anchor holds as the last wrap leaves the drum.

5.2 Break-away anchor

The anchor breaks loose and disengages as the last wrap leaves the drum.

6 Component nomenclature

Nomenclature of the major components and parts of winches is shown in the figures given in the annex.

6.1 Power transmission from the power source to the winch :

- mechanical;
- hydraulic.

6.2 Power transmission within the winch :

- shafts (input, counter, drum);
- gears;
- chains.

6.3 Housing.

6.4 Clutch (input, forward, reverse) :

- friction clutch : cone, disc, multidisc, band;
- sliding gear clutch;
- one-way sprag clutch;
- jaw clutch.

6.5 Brake :

- drum brake;
- disc brake;
- band brake.

6.6 Drum lock :

- ratchet;
- collar;
- dog.

6.7 Rope drum :

- rope drum flange;
- rope drum barrel.

6.8 Rope :

- wirerope.

6.9 Rope anchor :

- ferrule/pocket;
- wedge/pocket;
- clamp/pocket.

6.10 Rope guide :

- fairlead;
- idler;
- sheave;
- block.

6.11 Safety equipment

An International Standard on safety of winches is to be developed.

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Annex

Examples of nomenclature of winch components and parts

NOTE — The figures are solely for the purpose of illustration and do not denote any particular classification of winch.

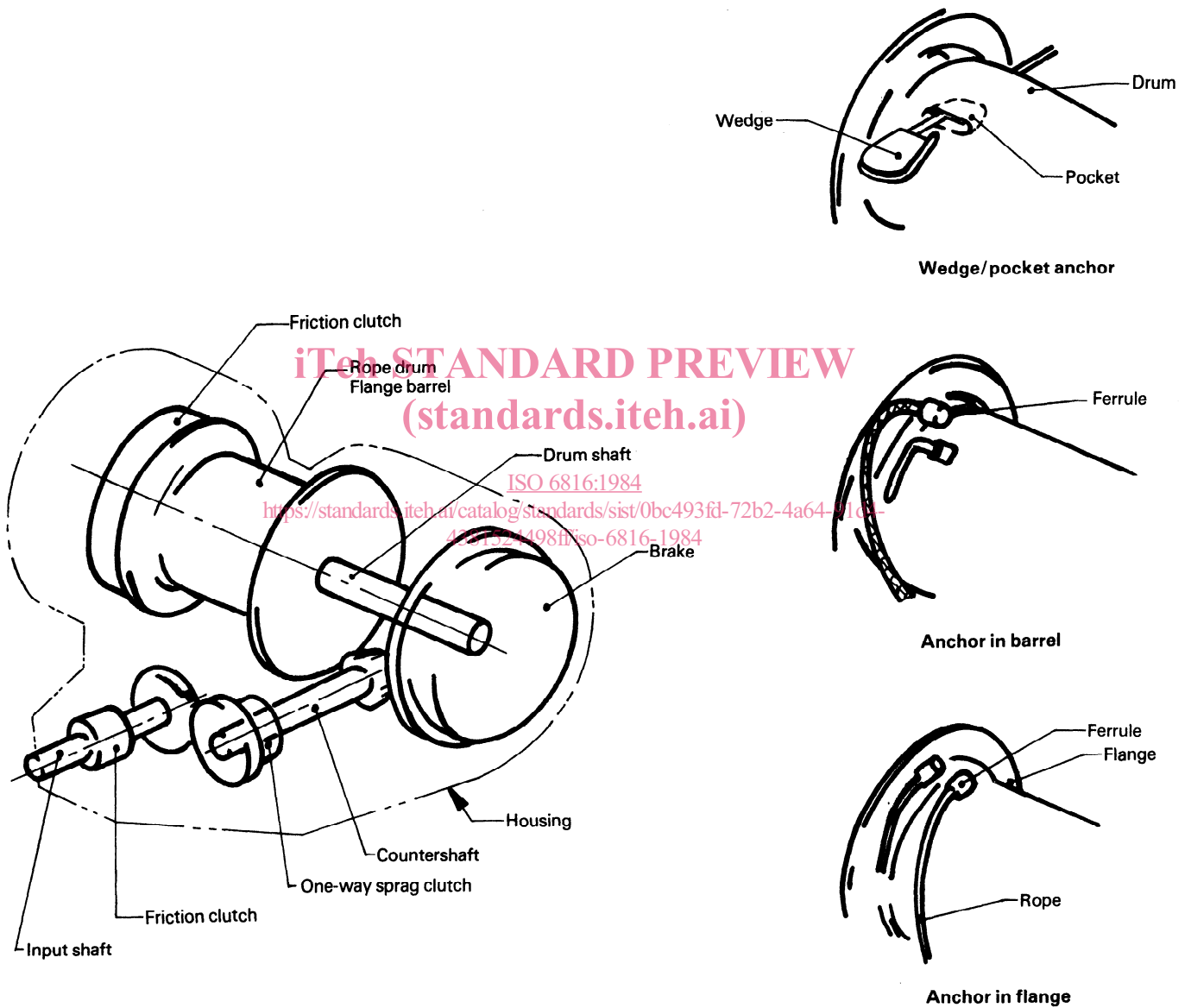
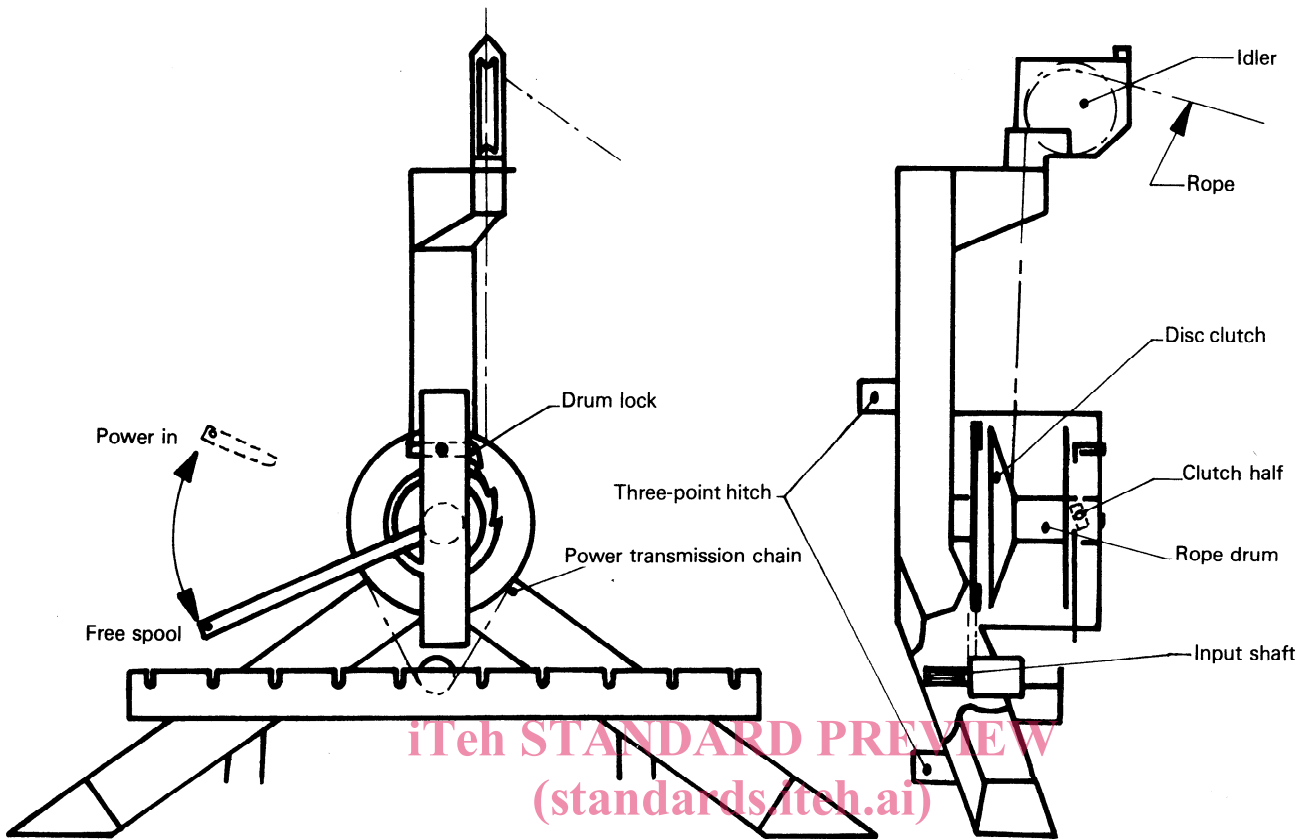


Figure 1 — Winch components

Figure 2 — Rope anchors



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Figure 3 — Winch on three-point hitch

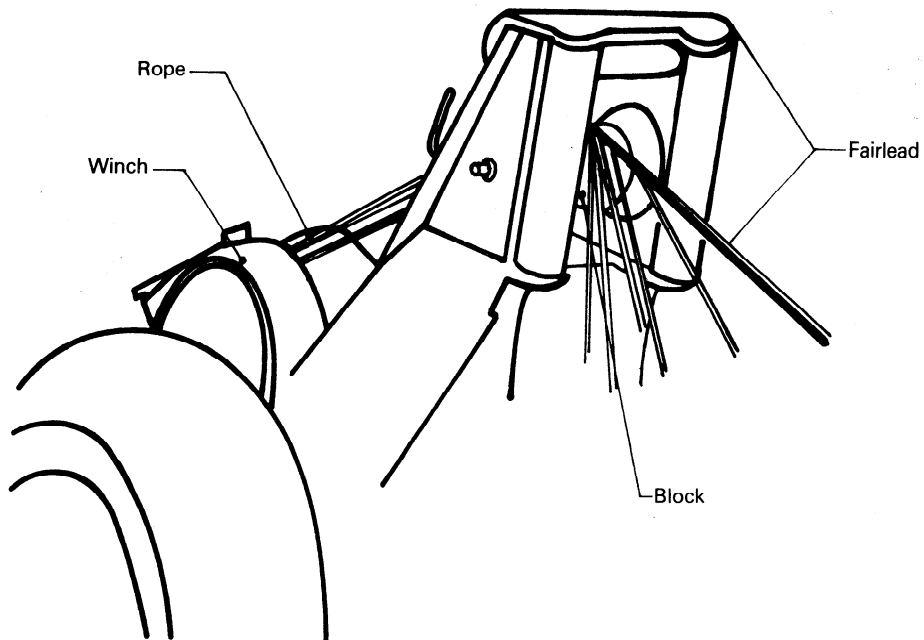


Figure 4 — Fixed winch

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