

# ISO 12140-1:2020 (E)

## Agricultural trailers and trailed equipment — Drawbar jacks — Part 1: Design safety, test methods and acceptance criteria

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Design requirements
4.1	Base
4.2	Jack overtravel
4.3	Hydraulic jacks
4.4	Drop leg
5	Performance requirements
5.1	Crank effort
5.2	Corrosion protection
5.3	Water ingress
5.4	Basic rated life
5.5	Rated static compressive load capacity
5.6	Rated dynamic compressive load capacity
5.7	Rated static tensile load capacity
5.8	Rated dynamic tensile load capacity
5.9	Rated static side load capacity
5.10	Rated static side torque class
6	Jack stand system design verification tests
6.1	General procedures and installation of jack
6.2	Crank effort test
6.3	Jack overtravel test
6.4	Ground pressure calculation
6.5	Corrosion protection test
6.6	Rated static compressive load capacity test
6.7	Rated dynamic compressive load capacity test
6.8	Rated static tensile load capacity test
6.9	Rated dynamic tensile load capacity test
6.10	Rated static side load capacity test
6.11	Maintenance of the load
6.12	Acceptance criteria
6.12.1	General
6.12.2	Functional failure
6.12.3	Catastrophic failure
7	Information for use
7.1	Instructions
7.2	Markings
7.2.1	Load capacities
7.2.2	Torque class
7.2.3	Identification
7.2.4	Other markings