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## Building construction machinery and equipment — Vocabulary —

### Part 7: Road construction and maintenance equipment

*Machines et matériels pour la construction des bâtiments — Vocabulaire —*

*Partie 7: Équipement pour la construction et l'entretien des routes*

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## Foreword

The standard ISO 11375:1998 -"Building construction machinery and equipment - Vocabulary" is one-part document, comprising six groups of building machines, composing the primary scope of ISO/TC 195.

In relation to broadening of TC 195's scope by road construction and maintenance machines, arouse the necessity to extend ISO 11375:1998 by this kind of machinery. This extension of ISO 11375:1998 is linked with a future reviewing of this standard, which will include its division into parts (sheets), corresponding to the particular types of machinery. Hence at the moment the designation "Part 7" is an ahead action taking into account on adjustment of numbering to the future situation.

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. Each 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 11375 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11375-7 was prepared by Technical Committee ISO/TC 195, *Building Construction Machinery and Equipment*, Subcommittee SC 7, -. <https://standards.iteh.ai/catalog/standards/sist/a7144fb0-cb8d-451b-a555-2f872587665d/iso-dis-11375-7>

This second/third/... edition cancels and replaces the first/second/... edition (), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

ISO 11375 consists of the following parts, under the general title *Building Construction Machinery and Equipment — Terms and Definitions*:

- Part 1 - General,
- Part 2 - Foundation equipment,
- Part 3 - Equipment for preparing, conveying and compaction of concrete and mortar,
- Part 4 - Equipment for processing reinforcement,
- Part 5 - Machines end equipment for aggregate processing
- Part 6 - Equipment for installations, finishing works and maintenance,
- Part 7 - Road construction and maintenance equipment,
- Part 8 - General-use machinery and equipment used in construction processes.

## Introduction

The aim of the standard is to establish terminology of machinery and equipment used for road construction and maintenance.

The draft makes an extension of ISO 11375:1998 – “Building construction machinery and equipment – Terms and definitions” and concerns only specialized equipment for pavements construction and roads maintenance.

Whole range of machinery needed for traffic routes, roads, highways, aprons, etc construction includes many different kinds of machines, which may be divided into following groups:

- machines for agriculture and forestry determined in the scope of ISO/TC 23, e.g.: brush-cutters and brush saws, log loaders, portable chain saws, branches-shredders, drainage pipe layers, digger ploughs and other machines defined in ISO 3339-0:1986.
- earth-moving machinery determined in the scope of ISO/TC 127, e.g.:  
excavators, tractor dozers, scrapers, loaders, dumpers, trenchers, graders, rollers, vibratory plates, rammers and other machines defined in ISO 6165:1997, ISO 6747:1998, ISO 7131:1997, ISO 7132:1990, ISO 7133:1994, ISO 7134:1993 and ISO/DIS 8811.
- building construction machinery commonly used on construction sites, determined in the scope of ISO/TC 195. For instance: formworks, drum mixers, machines and equipment for concrete mix production, truck concrete mixers and concrete transport skips, concrete pumps, vibrating beams, floating machines, concrete vacuum treatment units, core drilling units and other machines defined in ISO 11375:1998 items 1 to 6.
- general use machinery and equipment – such as: power tools (e.g. hammers), industrial vacuum cleaners, blowers, water pumps, portable chain saws, liquid gas heating units, infrared heaters etc.
- specialized machines and equipment designed especially for road construction and maintenance

The document provides terms and definitions of the last group of machinery. Enclosed figures represent a general view or outline of individual machines.

Note: Previous documents:

- ISO/CD 11375-7 - „Building construction machinery and equipment -Terms and definitions - Road construction and maintenance equipment (doc ISO/TC 195/N 321 2002-02-25).
- Report of comments on Committee Draft ISO/CD 11375-7 (doc ISO/TC 195/N 400).

# Building construction machinery and equipment — Vocabulary —

## Part 7:

## Road construction and maintenance equipment

### 1 Scope

The document specifies terminology and definitions only for specialized machinery and equipment used for construction, and maintenance of traffic routes, roads, highways, runways, aprons, etc.

This document does not include terms and definitions of these machines, used for road construction and maintenance, which belongs to the scopes of the following ISO-technical committees:

- Machines for agriculture and forestry determined in the scope of ISO/TC 23.
- Earth-moving machinery determined in the scope of ISO/ TC127.
- Building construction machinery commonly used on construction sites, determined in the scope of ISO/TC 195.
- General use machinery and equipment such as: power tools, industrial vacuum cleaners, water pumps, portable chain saws, etc.

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### 2 Normative references

The following normative documents contain provisions, which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreement based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3339-0:1986	Tractors and machines for agriculture and forestry - Classification and terminology.
ISO 11375:1998	Building construction machinery and equipment - Terms and definitions
ISO 6165:1997	Earth moving machinery - Basic types - Vocabulary.
ISO 6747:1998	Earth moving machinery - Tractors-dozers - Terminology and commercial specifications.
ISO 7131:1997	Earth moving machinery – Loaders - Terminology and commercial specifications.
ISO 7132:1990	Earth moving machinery – Dumpers - Terminology and commercial specifications.
ISO 7133:1994	Earth moving machinery - Tractor scrapers - Terminology and commercial specifications.
ISO 7134:1993	Earth moving machinery – Graders - Terminology and commercial specifications.
ISO/FDIS 8811	Earth moving machinery - Rollers and compactors - Terminology and commercial specifications.

ISO/FDIS 15642	Road construction and maintenance equipment - Asphalt mixing plants - Terminology and commercial specifications.
ISO 15643	Road construction and maintenance equipment - Bituminous binder spreaders/sprayers - Terminology and commercial specifications.
ISO 15644	Road construction and maintenance equipment - Chippings spreaders - Terminology and commercial specifications.
ISO 15645	Road construction and maintenance equipment – Road milling machinery - Terminology and commercial specifications.
ISO/FDIS 15688	Road construction and maintenance equipment – Soil stabilizers - Terminology and commercial specifications.
ISO/FDIS 15689	Road construction and maintenance equipment - Powder binder spreaders - Terminology and commercial specifications.
ISO/DIS 16039.2	Road construction and maintenance equipment - Slipform pavers - Terminology and commercial specifications.

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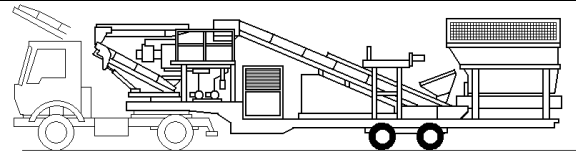
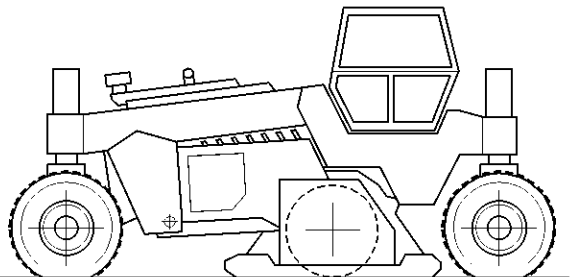
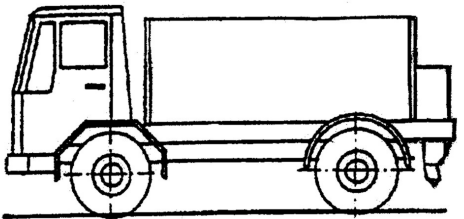
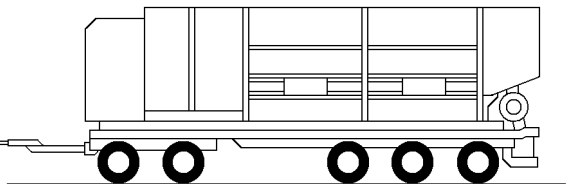
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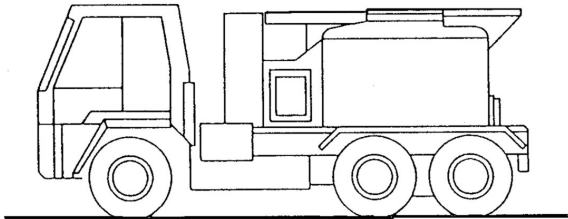
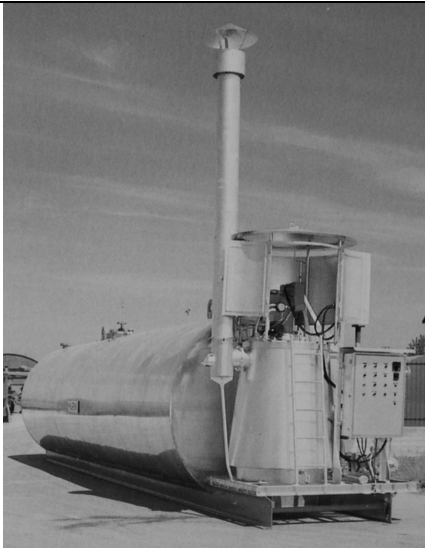
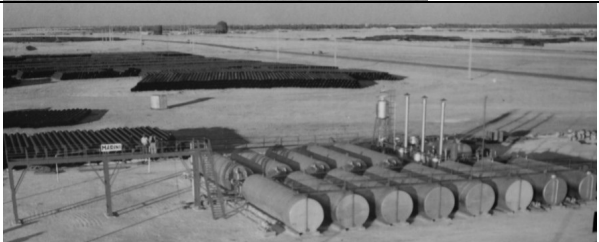
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3 Definitions of road construction and maintenance equipment

3.1 Machines and equipment for soil stabilization	Machines and equipment used for the purpose of improvement the mechanical and physical properties of a natural soil	-
3.1.1 Powder binder spreader	Mobile machine intended for steadily spreading filler, cement, lime, etc to improve the mechanical and physical properties of the soil material. NOTE: The spreaders are designed so that the output is controlled by travel speed and proportioning devices	
3.1.2 Soil mix plant	Set of equipment intended for storing, proportioning and mixing components for improvement of the mechanical and physical properties of soil material.	
3.1.2.1 Stationary soil mix plant	Soil mix plant designed for stationary use.	

3.1.2.2 Mobile soil mix plant	Soil mix plant capable for relocation on wheeled chassis	
3.1.3 Soil stabilizer	Mobile machine with the functions of pulverizing, comminuting, aerating, homogenizing, loosening ground or pavement materials and mixing them with added materials (cement, lime, filler, etc) to improve the mechanical and physical properties of the soil material	
3.1.4 Water dispenser	Water tank, mounted on truck, semi-trailer or trailer, containing built-in water spraying unit equipped with spraying bar.	
3.1.5 Slurry mixer	Mobile machine, which is used to mix and proportion water and cement to a suspension which is directly injected into the mixing chamber of a soil stabilizer. Note: The slurry mixer is either pushed or towed by the soil stabilizer	
3.2 Machines and equipment for bituminous binders	Machines and equipment used for storing, keeping warm, melting, homogenizing, handling and spraying bituminous binders	

3.2.1 Bituminous binders heater and smelter (asphalt cooker)	Stationary or mobile set of units intended for storing, melting, homogenizing, keeping warm and discharge bituminous binders. Note: The bituminous binders heater and smelter is composed of the following units: insulated tank, oil or gas burner, internal stirrer, discharge unit in the form of gravity valve, pressure tank or transfer pump.	
3.2.2 Bituminous binders storage tank	Stationary or trailer mounted insulated tank, with heating unit, intended for storage of bituminous binders.	
3.2.3 Bitumen storage and heating plant	System consisting of a boiler and insulated horizontal or vertical metal tanks or underground concrete tanks intended for hot bitumen storage	

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