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**Road construction and maintenance  
equipment — Chippings spreaders —  
Terminology and commercial specifications**

*Équipement pour la construction et l'entretien des routes —  
Gravillonneuses — Terminologie et spécifications commerciales*

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Reference number  
ISO 15644:2002(E)

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Printed in Switzerland

## Contents

	Page
1 Scope .....	1
2 Normative reference .....	1
3 Terms and definitions .....	1
4 Description of chippings spreader operation .....	3
4.1 Extraction or distribution of chippings from the dumper body bottom .....	3
4.2 Adjustment of chippings flow .....	4
4.3 Adjustment of spreading width .....	4
4.4 Automatic control by vehicle speed .....	4
4.5 Diffuser .....	4
5 Commercial specifications .....	4
5.1 Transported chippings spreader .....	4
5.2 Self-propelled chippings spreader .....	5
5.3 Chippings spreader pushed by tipper truck .....	6

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## Foreword

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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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15644 was prepared by Technical Committee ISO/TC 195, *Building construction machinery and equipment*.

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## Introduction

This International Standard deals with chippings spreaders used in road construction and surface coating.

A chippings spreader is a machine used to spread a layer of chippings on the pavement at a predetermined rate.

This International Standard describes the performance characteristics and methods of operation of chippings spreaders and their components. It also provides their definitions and technical characteristics. It includes figures explaining the principles of machine operation and showing the main dimensions related to the machine's performance.

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# Road construction and maintenance equipment — Chippings spreaders — Terminology and commercial specifications

## 1 Scope

This International Standard establishes the terminology and determines the type of technical and commercial specifications for chippings spreaders.

This International Standard is applicable to chippings spreaders intended for road construction and surface coating.

## 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document 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.

EN 13020, *Road-surface treatment machines — Safety requirements*

## 3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

### 3.1

#### **chippings spreader**

machine used to spread a layer of chippings on the pavement at a pre-determined rate

NOTE A chippings spreader may be defined by its operating principle. Three types of chippings spreaders may be identified: transported, self-propelled and pushed by tipper truck.

### 3.2

#### **transported chippings spreader**

machine equipped with chippings spreading device mounted on the rear of a truck or semi-trailer

NOTE The chippings spreading device can be provided with rollers [delivery, see Figure 2 a) or spreading, see Figure 3 a)]. Chippings may be distributed also from the dumping body bottom by gravity [Figure 3 b)].

### 3.3

#### **self-propelled chippings spreader**

self-propelled machine provided with delivery roller

cf. Figure 2 a)

### 3.4

#### **chippings spreader pushed by tipper truck**

machine equipped with its own travelling axle and attached to the rear axle of the pushing tipper truck

NOTE Delivery roller of the spreader is driven from its travelling axle.

### 3.5

#### **transport vehicle**

truck or tractor semi-trailer unit which carries all the components and provides movement of the chippings spreader during spreading and road transfers

### 3.6

#### **dumping body**

bin in form of a box for storage of chippings during operation and transport

NOTE The dumping body supplies the chippings spreading device with chippings. It may be equipped with either a scraper shield or conveyor (see Figure 1).

### 3.7

#### **partial partition of dumping body**

division wall added in order to improve the distribution of loads over the axle and reducing the load on the chippings spreading device

### 3.8

#### **chippings spreading device**

spreading unit mounted on the rear of a tipper truck, and which travels mainly in reverse during work

NOTE The chippings spreading device can be fixed in the place of a tailgate or rear gate of the dumping body. The design of the chippings spreader device is adapted to the vehicle.

### 3.9

#### **control station**

assembly which contains the control and adjustment equipment

NOTE 1 The control station of a transported chippings spreader is typically installed on a platform, which may be fixed or articulated. The controls fulfil the following functions: on-off control of chippings spreading, adjustment of flow blade with or without indicator, adjustment of spreading width, and adjustment of dumper tilt.

NOTE 2 The control station of a self-propelled chippings spreader contains the controls to move the vehicle forward, supply the storage hoppers and spread the chippings. The control station enables the operator to monitor spreading and usually contains: vehicle operation controls with speedometer and revolutions counter for each roller, the control to unhook the towed truck, conveyors, flow blade, bin gates or slanted blades and expandable hoppers.

### 3.10

#### **power plant**

assembly which consists of mechanical components (engine, drive train and driven axles) that contribute to accomplishing the drive function in order to move the chippings spreader during spreading and transfer

### 3.11

#### **feed system**

system designed to transport chippings from receiving hopper to spreading hopper

NOTE The receiving hopper receives the chippings discharged by a truck or semi-trailer. The truck of the semi-trailer is coupled to the chippings spreader by means of a rear-mounted tow hook. One or more conveyors may provide transfer of chippings from this hopper to the spreading hopper. The feed system (Figure 9) is composed of a receiving hopper to enable supply of conveyors, and the conveyors which transport the chippings from the receiving hopper to the spreading hopper.