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Safety of hand-held motor-operated electric tools - Part 2-5: Particular requirements for circular saws

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**61F/567/CDV****COMMITTEE DRAFT FOR VOTE (CDV)
PROJET DE COMITÉ POUR VOTE (CDV)**

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Also of interest to the following committees Intéresse également les comités suivants		Supersedes document Remplace le document 61F/530/CD and 61F/538A/CC
Functions concerned Fonctions concernées		
<input checked="" type="checkbox"/> Safety Sécurité		
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Titre :

Title : IEC 60745-2-5-A1 Ed 3.0: Safety of hand-held motor-operated electric tools - Part 2-5: Particular requirements for circular saws.

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Note d'introduction

Introductory note

ATTENTION**CDV soumis en parallèle au vote (CEI)
et à l'enquête (CENELEC)****ATTENTION****Parallel IEC CDV/CENELEC Enquiry**

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Add, after Annex L, the following new Annex M:

Annex M (normative)

Safety of working stands for operation with hand-held motor operated electric tools

M.1 Scope

This clause of Part 2 is applicable, except as follows:

M.1.1 Addition:

This standard applies to saw tables intended to be equipped with hand-held motor operated circular saws with a maximum saw blade diameter of 260 mm intended for cutting wood and similar materials.

All clauses of this Part 2 apply unless otherwise specified in this annex.

M.2 Normative references

This clause of Part 1 is applicable.

M.3 Definitions

M.3.101

saw table

working stand with which a hand-held circular saw can be used similar to a circular saw bench in a stationary position (see Figure M.1)

M.3.102

blade guard

protection mounted above the saw table which prevents access to the saw blade

M.3.103

electrical system

mains connection and associated control systems

M.8 Marking and instructions

This clause of Part 1 is applicable except as follows:

M.8.1 Replacement:

Saw tables shall be marked with:

- rotation direction of the saw blade
- maximum cutting depth or maximum saw blade diameter

- rated voltage and maximum rated input or current

NOTE Saw tables with electrical systems require voltage and input or current ratings.

Compliance is checked by inspection.

M.8.12.1 Addition:

The operating instruction shall contain warning statements on the following subjects:

- Not to use hand to remove loose splinters, chips and similar parts of the workpiece from the vicinity of the moving saw blade;
- Not to use the saw table outdoor when raining;
- Not to perform any sawing operation “Freehand”, i.e. guiding the workpiece only with hand, without rip fence or miter gauge.

Compliance is checked by inspection.

M.8.12.2 Addition:

The operating instruction shall contain the substance of the following, if applicable:

- Information how to fit the hand-held saw to the saw table;
- Information how to replace the riving knife of the hand-held saw by the blade guard support with riving knife function and its adjustment;
- Instruction to store the push stick or push block always with the saw table when not in use;
- Proper use of the blade guard;
- Information explaining the phenomenon of kickback and instructions for cutting procedures to avoid the kickback;
- Proper use and adjustment for the riving knife;
- Recommended operator's body and hand positions during the operation;
- Recommended procedures for securing the saw to the saw table;
- Procedures for cross-cutting and ripping. Proper use of cross-cut fence (miter gauge) and the rip fence;
- Alignment of the blade with the rip fence and with the cross-cut fence (miter gauge) slots;
- Recommended procedures for depth of cut and bevel angle adjustments;
- Recommendation on how to support the workpiece on the outfeed side and on the side of the table surface;
- Recommended procedures for slotting and rabbeting;
- Proper use and basic construction guidelines for work helpers, such as push stick, push block, auxiliary fence and featherboard;
- Procedure for changing and adjusting the table insert;
- Inappropriate applications of saw table, i.e. not to use the saw table for cutting firewood logs;
- Selection of the saw blade depending on the material to be cut.
- Inspection for a deformed or damaged saw blade;
- Connecting the circular saw to a dust collecting device when sawing.

M.19 Mechanical hazards

This clause of Part 1 is applicable except as follows:

Additional subclauses:

M.19.1 Addition:

The saw table shall be equipped with an adequate guarding system which shall comply with the requirements of M.19.1.101 to M.19.1.102.

M.19.1.101 Guarding below the table top

If the design of the saw table is such that the guide plate of the circular saw is not in contact with the table plate, the cutting edge zone of the saw blade between the guide plate and the table plate shall be guarded by a fixed guard in any position.

Compliance is checked by inspection and by the following test.

The test probe "a" shown in Figure 105 in minimum and maximum depth of cut and any inclination of the saw blade to check accessibility of the saw blade teeth of all saws recommended by the manufacturer in the area between guide plate and table plate.

M.19.1.102 Guarding above the table top

M.19.1.102.1 Blade guard

A blade guard shall be provided to guard that portion of the saw blade above the table top which is not required for cutting.

Circular saw tables shall have a blade guard for the crown and the front of the saw blade that may be an adjustable guard, a self-closing guard or a combination of these. An adjustable guard when adjusted shall remain in any position necessary to give the required protection.

M.19.1.102.1.1 The blade guard shall be designed to prevent contact with the periphery and/or both sides of the toothed rim of the saw blade, the riving knife being considered as a safety measure against touching the rising part of the toothed rim. This protection shall be given at any tilted position of the saw blade. The blade guard shall be capable of being lowered or turned down onto the table surface in front of the saw blade.

Compliance is checked by inspection.

M.19.1.102.1.2 The blade guard shall be made of material (e.g. plastic, aluminium) which is easy to cut by saw blades. On non-transparent blade guards, the line of the cut shall be indicated.

Compliance is checked by inspection.

M.19.1.102.1.3 The blade guard shall be fitted with an exhaust outlet.

Compliance is checked by inspection and the following test.

It shall not be possible to touch dangerous moving parts with the test probe "a" of Figure 105 through dust collection openings after the removal of the removable provisions. During the test, the adjustable guard shall be against the table top and the circular saw with the highest intended cutting depth shall be mounted.

M.19.1.102.1.4 The blade guard side walls shall either have a minimum thickness of 6 mm or shall have internal ribs with a minimum thickness of 3 mm designed to bear against the body of the saw blade in order to minimize the risk of damage to the blade guard.

Compliance is checked by inspection.