Page 1 of 19 Report No.: 3123143.50B

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC61029-2-10 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Safety of transportable motor-operated electric tools – Part 2-10: Particular requirements for cutting-off grinders

Differences according to..... EN 61029-2-10:2010 used in conjunction with

EN 61029-1:2009 + A11:2010

Attachment Form No...... EU_GD_IEC61029_2_10A

Attachment Originator DEKRA Certification B.V.

Master Attachment: 2012-10

Copyright © 2012 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.

	CENELEC COMMON MODIFICATIONS (EN)			
7	MARKING			
	Business name and address of the manufacturer and, where applicable, his authorised representative. Any address must be sufficient to ensure contact	Trade mark: AGP No.2 Kejia Rd. Douliu 64057, Taiwan	_	
	Designation of the tool:	DRY-CUT SAW	_	
	Designation of series or type:	DRC355	_	
	Year of manufacture:	2012	_	
	Cutting off grinders shall also be marked with:		Р	
	- the rated no-load speed in 1/min or min-1; (EN 61029-2-10:2010)	1300/min	Р	
	- the maximum diameter <i>D</i> of abrasive cutting-off wheel to be used; (EN 61029-2-10:2010)	355 mm	Р	
	- the direction of rotation of the abrasive cutting-off wheel shall be indicated on the tool by an arrow raised or sunk or by any other means no less visible and indelible; (EN 61029-2-10:2010)		Р	
	"Read the instructions" or the relevant symbol; (EN 61029-2-10:2010)		Р	
	"Wear safety glasses" or the relevant symbol; (EN 61029-2-10:2010)		Р	

	IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

	thread size of the spindle, if applicable; (EN 61029-2-10:2010)	N/A
	Tool for star-delta connection clearly marked with the two voltages	N/A
	Rated input or current is the total maximum that can be on the circuit at the same time	Р
	In case of alternative components, the rated input is corresponding to the highest load	Р
	Additional markings (e.g. motor markings) are allowed, provided that they do not give rise to misunderstanding	Р
7.3	Heating elements: marking according to EN60335-	N/A
7.4	If the tool can be adjusted to suit different rated voltages or different rated inputs, the voltage or input to which the tool is adjusted is easily and clearly discernible.	N/A
	This requirement does not apply to tools for star- delta connection.	N/A
	For tools where frequent changes in voltage setting are not required, this requirement is deemed to be met if the rated voltage or the rated input to which the tool is adjusted, can be determined from a wiring diagram fixed to the tool; the wiring diagram may be on the inside of a cover which has to be removed to connect the supply conductors. This diagram may be on a card which is riveted to the cover or on a paper or similar label secured to the cover by an adhesive but it must not be on a label loosely attached to the tool.	N/A
7.6	Addition: The symbol n0 shall be used for rated no-load speed. (EN 61029-2-10:2010)	Р
7.13	The words 'Original instructions' must appear on the language version(s) verified by the manufacturer or his authorised representative.	Р
	Where no 'Original instructions' exist in the official language(s) of the country where the tool is to be used, a translation into that/those language(s) must be provided by the manufacturer or his authorised representative or by the person bringing the tool into the language area in question	N/A

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

The translations must be bearing the words "Translation of the original instructions", and they must be accompanied by a copy of the "Original instructions".		N/A
- Instructions		
a) Installation instructions:		Р
- Setting-up or fixing tool in a stable position.		Р
- Information about disassembly and reassembly if applicable for transportation and/or use.		Р
b) Operating instructions:		Р
- Limits on size of work piece and type of material.		Р
- Indication of the correct operator's position.		Р
- Instruction on how to handle jammed accessories.		Р
- Information about lifting handles/similar, and instruction to use them for transportation.		Р
c) Safety precautions:		Р
- Precautions and use of PPE.		Р
- warning to always use eye and ear protection when cutting; (EN 61029-2-10:2010)		Р
- instruction to use personal protective equipment such as dust mask, gloves, helmet and apron; (EN 61029-2-10:2010)		Р
- warning not to use cutting wheels that are chipped, cracked or otherwise defective; (EN 61029-2-10:2010)		N/A
- instruction to visually inspect the cutting wheel before every use; (EN 61029-2-10:2010)		Р
- instruction about the correct abrasive wheels to use; (EN 61029-2-10:2010)		N/A
- instruction how to connect the dust collection device, if any; (EN 61029-2-10:2010)		N/A
- information about the maximum cutting depth; (EN 61029-2-10:2010)		Р
- information how abrasive cutting-off wheels shall be stored and handled;, (EN 61029-2-10:2010)	Such information about saw blade used	Р
- information how to correctly fit abrasive cutting- off wheels; (EN 61029-2-10:2010)	Such information about saw blade used	Р
- warning never to use the machine without the guard in place; (EN 61029-2-10:2010)		Р

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

warning not to use saw blades. (EN 61029-2-10:2010)	N/A
- General safety instructions.	Р
These must consist of the following text:	
"WARNING! When using electric tools basic safety precautions should always be followed to	
reduce the risk of fire, electric shock and personal injury including the following.	
Read all these instructions before attempting to operate this product and save these instructions".	
d) Maintenance and servicing:	Р
- Regular cleaning, maintenance and lubrication.	Р
(Including the warning "Remove the plug before carrying out any adjustment, servicing or maintenance").	
- Instruction, how to safely remove blockages of dust, chips or workpiece fragments.	Р
e) Safe operation:	Р
Keep work area clear	Р
- Cluttered areas and benches invite injuries.	
Consider work area environment	Р
- Do not expose tools to rain.	
- Do not use tools in damp or wet locations.	
- Keep work area well lit.	
- Do not use tools in the presence of flammable liquids or gases.	
Guard against electric shock	Р
 Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators). 	
Keep other persons away	Р
 Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area. 	
Store idle tools	Р
- When not in use, tools should be stored in a dry locked-up place, out of reach of children.	

	IEC61029_2_10A - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
	Do not force the tool - It will do the job better and safer at the rate for which it was intended.		Р	
	Use the right tool - Do not force small tools to do the job of a heavy duty tool. - Do not use tools for purposes not intended; for		Р	
	example do not use circular saws to cut tree limbs or logs.			
	Dress properly - Do not wear loose clothing or jewellery, they can		Р	
	be caught in moving parts.Non-skid footwear is recommended when working outdoors.Wear protective hair covering to contain long hair.			
	Use protective equipment - Use safety glasses. - Use face or dust mask if working operations create dust.		Р	
	Connect dust extraction equipment - If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.		Р	
	Do not abuse the cord - Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.		Р	
	Secure work - Where possible use clamps or a vice to hold the work. It is safer than using your hand.		Р	
	Do not overreach - Keep proper footing and balance at all times.		Р	

	IEC61029_2_10A - ATTACHMENT			
Clause	Requirement + Test		Result - Remark	Verdict

Maintain tools with care	Р
 Keep cutting tools sharp and clean for better and safer performance. 	
- Follow instruction for lubricating and changing	
accessories.	
 Inspect tool cords periodically and if damaged have them repaired by an authorized service facility. 	
 Inspect extension cords periodically and replace if damaged. 	
 Keep handles dry, clean and free from oil and grease. 	
Disconnect tools	Р
 When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply. 	
Remove adjusting keys and wrenches	Р
 Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on. 	
Avoid unintentional starting	Р
- Ensure switch is in "off" position when plugging in.	
Use outdoor extension leads	Р
 When the tool is used outdoors, use only extension cords intended for outdoor use and so marked. 	
Stay alert	Р
- Watch what you are doing, use common sense and do not operate the tool when you are tired.	

	IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	Check damaged parts - Before further use of tool, it should be carefully checked to determine that it will operate		Р		
	 properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated in this 				
	 instruction manual. Have defective switches replaced by an authorized service centre. Do not use the tool if the switch does not turn it on 				
	and off.				
	 Warning The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury. 		P		
	Have your tool repaired by a qualified person - This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.		Р		
	- warning to ensure that the abrasive cutting-off wheel is correctly fitted and tightened before use including an instruction to run the machine at noload for 30 s in a safe position, and to stop immediately and replace the cutting-off wheel if there is considerable vibration; (EN 61029-2-10:2010)		Р		
	- warning to ensure that ventilation openings are kept clear when working in dusty conditions, including an instruction to first disconnect the machine from the mains supply and to clean the openings by using a soft brush, if it should become necessary to clear dust;; (EN 61029-2-10:2010)		P		
	 warning not to use the machine in explosive atmospheres and environments where sparks could cause fire, explosion etc.; (EN 61029-2- 10:2010) 		Р		
	 warning that the wheel continues to rotate after the machine is switched off; (EN 61029-2-10:2010) 		Р		

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Zb)	Connection to water supply	N/A
	 of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time). 	P
	- that the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and	Р
	5 A warning:	Р
	- that the declared vibration total value may also be used in a preliminary assessment of exposure.	Р
	- that the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.	Р
	4 The following information:	Р
	Vibration emission > 2.5 m/s² value given in the instruction	Р
	Vibration emission < 2.5 m/s², stated in the instruction	N/A
	3 The vibration emission according to 13.3.	Р
	2 Recommendation for the operator to wear hearing protection.	Р
	1 The noise emission according to 13.2.	Р
Za)	Emissions	Р
	information about the minimum size of the workpiece; (EN 61029-2-10:2010)	Р
	instruction how and when to secure the machine, such as fixing to a bench; (EN 61029-2-10:2010)	Р

N/A

N/A

N/A

Р

Р

Р

Р

Р

	IEC61029_2_10A - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
	1 For tools intended to be connected to a water supply, instructions for the connection to the water supply, the use of the water and the use of attachments to comply with 14.5 in order to avoid affection of the tool by water, the inspection of hoses and other critical parts which could deteriorate and the maximum permitted pressure of the water supply.		N/A	
	2 For tools intended to be connected to a water supply, the substance of the following Instructions, if applicable:		N/A	
	– for tools provided with a PRCD: Never use		N/A	

the tool without the PRCD delivered with the

transformer: Never use the tool without the transformer delivered with the tool or of the type as specified in these instructions,

- Replacement of the plug or the supply cord

- Keep water clear off the electrical parts of

Business name and address of the manufacturer

Designation of the tool and series or type as

such as "bench grinder", "band saw" etc.

required by 7.1, including description of machine

A repeat of the safety markings (e.g. maximum

speed, capacity, etc.) that are to be marked on

An explanation of any symbols or pictograms

the tool and away from persons in the

must always be carried out by the manufacturer of the tool or his service

- for tools provided with an isolating

tool,

organisation,

working area.

ensure contact.

the tool;

marked on the tool;

Following information is also given:

and, where applicable, his authorised representative. Any address is sufficient to

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	- The mass of the tool including detachable parts.		Р
12	LEAKAGE CURRENT		
	Tools with heating element tested according to EN 60335-1; 13.2		N/A
13	ENVIRONMENTAL REQUIREMENTS		
13.1	Dust measurements:		N/A
13.2	Noise:		-
	Test according to sub clauses 13.2.1 – 13.2.6		Р
13.2.1	The most important sources of noise are: - the abrasive cutting-off wheel and workpiece; - the gear; - the motor / the fan. (EN 61029-2-10:2010)		Р
13.2.4	Cutting-off machines are tested under load in accordance with Table Z101. (EN 61029-2-10:2010)		Р
	Noise measurements		Р
13.2.7	Declaration and verification of noise emission values		
	L_{pA} [dB(A)]	93,5 3,0	Р
	L_{WA} [dB(A)]	105,5 3,0	Р
	L _{pCpeak} (dB)		N/A
13.3	Vibration:		
	Test according to sub clauses 13.3.1 – 13.3.6		Р
13.3.6.3	Cutting-off machines are tested under load under the conditions shown in Table Z101. (EN 61029-2-10:2010)		Р
	Vibration measurements		Р
13.3.7.1	Reported vibration value		Р
	Work mode - vibration emission value a (m/s²):	0,9	Р
	Uncertainty K (m/s²)	1,5	Р

N/A

N/A

Р

	IEC61029_2_10A - ATTACH	HMENT	
Clause	Requirement + Test	Result - Remark	Verdic
			·
13.3.7.2	Declaration of the vibration emission value (instruction manual)		Р
	Work mode - vibration emission value a (m/s²):	0,9	Р
	Uncertainty K (m/s²)	1,5	Р
14	Moisture resistance	1	
14.2	Tools with a higher degree than IPX0 comply with EN 60529 under working condition IP:		N/A
14.3	Insulation resistance after humidity treatment		Р
14.5	Tools, except those of class III, intended to be connected to a water supply must be constructed so that the electrical insulation of the tool is not affected by water during recommended operation.		N/A
	Compliance is checked by the following test.		N/A
	The tool is connected to a water supply and operated at 1,06 times rated voltage for 5 min in the most unfavourable position in accordance with the manufacturer's instructions.		N/A
	Throughout the test the leakage current between live parts and the enclosure as specified in 12.2 is monitored. The leakage current must not exceed the value specified in 12.2.		N/A
	Immediately after this treatment inspection must		N/A

show that water has not entered the tool to any appreciable extent and that there is no trace of water on insulation for which creepage distances

Operation of overload protection devices

If the tool incorporates a device for limiting speed

and should the electronic control device fail to operate, the tool is considered to have withstood the test when the said speed limiting device

The machine shows no defects and the no-load

speed of the spindle does not exceed 120 % of the speed marked on the nameplate of the machine.

are specified in 27.1.

ABNORMAL OPERATION

operates during the test.

(EN 61029-2-10:2010)

ENDURANCE

16

16.1

17

17.2

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

18	MECHANICAL HAZARDS	
18.1	Additional: For fixed guards that are to be removed at the place of use as part of the routine maintenance procedure, as described in the instruction manual, the fastenings must remain attached to the guard or to the tool. (EN 61029-1/A11:2010)	N/A
	All working elements, including adjustable features or attachments intended as part of the tool must be secured so that they cannot create dangers during normal use by moving, or being released, out of the normal working constraints of the tool.	Р
	Cutting-off grinders shall be equipped with an adequate guarding system to prevent inadvertent contact with the abrasive cutting-off wheel in normal use. It shall not be possible to remove the guard without the aid of a tool. (EN 61029-2-10:2010)	Р
	The guarding system shall comply with the requirements of 18.1.101 to 18.1.103 (EN 61029-2-10:2010)	Р
18.1.101	The area 1 (Figure Z102) shall have a fixed guard that as a minimum covers 180° of the periphery of the abrasive cutting-off wheel and both sides of the wheel down at least to the outer diameter of the flange.	Р
	In rest position the area 2 (Figure Z102) shall be guarded by a movable guard which protects the periphery and both sides of the outer 20 % of the radius of the wheel between the horizontal line through the centre of the wheel and an angleof at least 15°. (EN 61029-2-10:2010)	Р
	In rest position the unprotected part of the wheel shall be less than or equal to the angle150°.(EN 61029-2-10:2010)	Р
	The movable guard shall be opened by contact with the table or workpiece. (EN 61029-2-10:2010)	Р
	The cutting unit and movable guard shall return automatically to their rest positions when the handle is released. (EN 61029-2-10:2010)	Р

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	When for technical reasons an overlapping occurs between the fixed and movable guard, care shall be taken to prevent access to the wheel in the overlapping area. (EN 61029-2-10:2010)	Р
18.1.102	Cutting-off grinders shall have a rear guard behind the wheel of sufficient height and width to prevent the ejection of the sparks in all cutting depths. The rear guard shall comply with the following requirements (see Figure Z104 showing the cutting unit in the most unfavourable position). (EN 61029-2-10:2010)	Р
	With a new wheel having the maximum diameter in accordance with 7.1 at any possible cutting position, the rear guard as shown in Figure Z104 shall comply as follows: (EN 61029-2-10:2010)	Р
	- the height of the guard shall extend vertically up not less than 5 mm above the tangent from the periphery of the wheel that intersects with the lower edge of the wheel guard; (EN 61029-2-10:2010)	Р
	- the width of the rear guard, symmetrical with respect to both sides of the plane of the abrasive cutting-off wheel, shall be such that the angle α in Figure Z104 is not less than 18°. (EN 61029-2-10:2010)	Р
18.1.103	Cutting-off grinders shall be guarded so that access to the cutting wheel below the table is prevented. (EN 61029-2-10:2010)	Р
18.1.103	The change of the wheel shall be possible without removing the guard from the machine. (EN 61029-2-10:2010)	Р
18.3	In any working position the machine shall have sufficient stability. (EN 61029-2-10:2010)	Р
	Tools shall be provided with the facility to fix the machine to a bench, e.g. by providing holes in the machine frame. (EN 61029-2-10:2010)	Р
	Tools provided with wheels must have adequate stability during transportation.	Р

IEC61029_2_10A - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

18.101	Tools shall be equipped with a vice for holding the		Р
	workpiece securely during the cutting operation.		
	This shall be achieved by horizontal or vertical		
	clamping, e.g. by jaws or clamps. (EN 61029-2-10:2010)		
	It shall be possible to operate the holding vice		Р
	without removing the guards. (EN 61029-2-10:2010)		
	The holding vice shall: (EN 61029-2-10:2010)		P-
	– be fixed to the table while cutting,		Р
	(EN 61029-2-10:2010)		
	 hold workpiece even if heavy or if the machine vibrates, (EN 61029-2-10:2010) 		Р
	 hold the workpiece during the complete cycle of 		P
	cutting, (EN 61029-2-10:2010)		
	- resist the cutting force and have a positive stop in		Р
	direction of cutting force. (EN 61029-2-10:2010)		
	The height of the jaws shall be at least 0,6 times the maximum cutting depth. (EN 61029-2-10:2010)		Р
18.102	Flanges shall comply with the dimensions shown in		Р
	Table Z102 and Figures Z105 and Z106. (EN 61029-2-10:2010)		
	One of the flanges shall be keyed to the output spindle. (EN 61029-2-10:2010)		Р
	Flange dimensions (EN 61029-2-10:2010)	df =101 mm	Р
		dr =61 mm	
		r = 20 mm t = 1,6 mm	
18.102.1	Flanges shall be so designed that they are of	t = 1,0 mm	P
10.102.1	adequate strength. (EN 61029-2-10:2010)		
18.103	The spindle shall be made of steel with a tensile		Р
	strength of at least 650 N/mm² and an elongation of at least 10 %. (EN 61029-2-10:2010)		
	The diameter of the spindle (H) shall be in relation		Р
	to the wheel diameter (D), as shown in Table Z102. (EN 61029-2-10:2010)		
	If a thread is used on the spindle it shall be such		Р
	that it is self-tightening during the cutting operation. (EN 61029-2-10:2010)		

			IE.	C61029	_2_10A	- ATTAC	HMEN I	
Clause	Requirem	nent + T	est				Result - Remark	Verdic
	•							•
	Cutting-o designed operation	to prev	ent loose	flanges				N/A
 19	MECHAN	IICAL S	TRENG	ГН				
19.1	Guards s 10:2010)	hall eith	er a) or t	o) or c): (EN 6102	29-2-		N/A
		a) be made to comply at least with the specifications given in Table Z104 and Table Z105;						N/A
		Tab	le Z104 – Gı	uard thickne	esses			
					1	ensions in mm	1	
		D		P		J		
	≤ 150			1,5 1,5		2		
	$150 < D \le 250$ $250 < D \le 406$		2,5 3,5			2,5		
	D Maximum wheel diameter P Thickness of periphery of guard J Thickness of side of guard Or							
	Reference No.	Material	ISO or EN	erial specification Ultimate	Elastic	Elongation	1	
				tensile strength N/mm²	strength N/mm²	%		
	1	Steel	ISO 4997 ISO 6316	300	220	18		
	2	Steel	ISO 1052 EN 10025	340	215	17		
	(EN 61029-2-10:2010)							
	b) have adequate strength to retain fragments of a broken cutting-off wheel. See 19.1.102						N/A	
	(EN 6102	(EN 61029-2-10:2010)						
19.1.102	Strength	test. (El	N 61029-	2-10:20	10)			N/A
								·
20	CONSTR	RUCTIO	N					
20.8	Asbestos	not use	d under	any circ	umstanc	es		Р
20.18	The actual shall not the table	be affec	ted or re	stricted I	oy adjus	tment of		Р

10:2010)

	IEC61029_2_10A - ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict		

20.20	Cutting-off grinders shall be equipped with a mains switch which interrupts the supply automatically when the operating means is released and there shall be no means for locking the switch in the "on" position, except as follows: (EN 61029-2-10:2010)	P
	Cutting-off grinders may be provided with a lock-on switch if the cutting-off grinder is provided with a movable guard which covers the wheel completely and which returns automatically to its rest position when the wheel is withdrawn from the workpiece. (EN 61029-2-10:2010)	N/A
	In this case the machine shall not start automatically after voltage recovery following a voltage failure. (EN 61029-2-10:2010)	N/A
20.21	Tool provided with integral dust collection device, or	N/A
	external dust collection device	N/A
20.22	Tools intended to be connected to a water supply must either:	N/A
	- be of class III, or	N/A
	- be of class II or of class I for use in combination with an isolating transformer, or	N/A
	 be of class II or of class I and provided with a PRCD. The PRCD must have a sensitivity of 10 mA or less. The PRCD must not be provided with a switch contact for the protective conductor, which opens, when the PRCD trips due to a residual current. The PRCD may be incorporated either in the tool, or 	N/A
	- in the cord, or	N/A
	- in the plug, or	N/A
	- in a separate control box with one or more socket outlets in accordance with EN 60309-2 with the earthing contact position 1 h.	N/A
	PRCDs incorporated in the cord, in the plug or in a separate control box must have a degree of protection against the ingress of water of at least IPX4.	N/A

IEC61029_2_10A - ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict	

21	INTERNAL WIRING	
21.1	In case of doubt with regard to the insulation, an electric strength test must be carried out between the conductor and metal foil wrapped around the conductor insulation, a test voltage of 2000 V being applied for 15 min.	Р
21.4	Insulating sleeves may be used to prevent such contact, provided that the sleeves withstand the tests specified for supplementary insulation and that the conductors or sleeves are not likely to be mislaid or lost during routine servicing and repair.	N/A
22	COMPONENTS	
22.1	Components must comply with the safety requirements specified in the relevant CENELEC standards as far as they reasonably apply.	Р
22.2	Mains switches marked with individual ratings tested in accordance with EN 61058-1	Р
22.5	Plugs and appliance inlets for safety extra-low voltage circuits or for frequencies other than 50 Hz of 60 Hz not interchangeable with plugs, connectors and appliance inlet complying with IEC 60083 or EN 60320-1.	N/A
22.9	Appliance couplers must comply with EN 60320-1.	N/A
23	SUPPLY AND CONNECTION AND EXTERNAL FLEXIBLE CABLES AND CORDS	
23.2	Power supply cords for cutting-off grinders shall not be lighter than heavy polychloroprene sheathed flexible cable (code designation H07RN-F) or equivalent. (EN 61029-2-10:2010)	Р
23.3	Tools provided with plug complying with IEC 60083, EN 60309-1 and EN 60309-2	N/A
24	Terminals for external conductors	
24.1	For the purpose of the requirements for power supply cords	Р
	- it is not to be expected that two independent fixings will become loose at the same time;	Р
		1

	IEC61029_2_10A - ATTACHMENT						
Clause	Requirement + Test		Result - Remark	Verdict			

	- conductors connected by soldering are not considered to be adequately fixed, unless they are held in place near to the termination, independently of the solder, but "hooking in" before soldering is, in general, considered to be a suitable means for maintaining the conductors of a power supply cord in position, provided the hole through which the conductor is passed is not unduly large.	N/A
	The terminals of a component (e.g. a switch) built into the tool - on the assumption that they comply with the requirements of this clause - may be used as terminals intended for external conductors.	Р
	Switches having connecting leads (pig tails) are allowed if the connection point is within the handle or housing and the cord anchorage of the mains supply cable meets the requirements of 23.5.	Р
С	ANNEX C	
C. 8.1	The explanation concerning safety extra-low voltage is not applicable.	N/A
	Addition: An accessible part is not considered to be live if:	N/A
	- the part is supplied from a safety isolating transformer, provided that	N/A
	- for a.c. the peak value of the voltage does not exceed 42,4 V;	N/A
	- for d.c. the voltage does not exceed 42,4 V, or	N/A
	- the part is separated from live parts by protective impedance.	N/A
	In the case of protective impedance, the current between the part and the supply source must not exceed 2 mA for d.c. and its peak value must not exceed 0,7 mA for a.c., and moreover:	N/A
	- for voltages having a peak value over 42,4 V up to and including 450 V the capacitance must not exceed 0,1 μF;	N/A
	- for voltages having a peak value over 450 V up to and including 15 kV the discharge must not exceed 45 μC.	N/A

IEC61029_2_10A - ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		
C.17.104	If the safety of the tool for any of the fault conditions specified in C17.103 depends on the operation of a miniature fuse-link complying with EN 60127-3, the test is repeated but with the miniature fuse-link replace by an ammeter.		N/A		
	Rated fuse current (A) :		N/A		
	Measured current (A) :		N/A		
C. 25.1	Addition: The printed conductors of printed circuit boards must not be used to provide continuity of the protective earthing circuit.		N/A		

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A
ZD	ANNEX ZD, NATIONAL DEVIATIONS (EN)	N/A