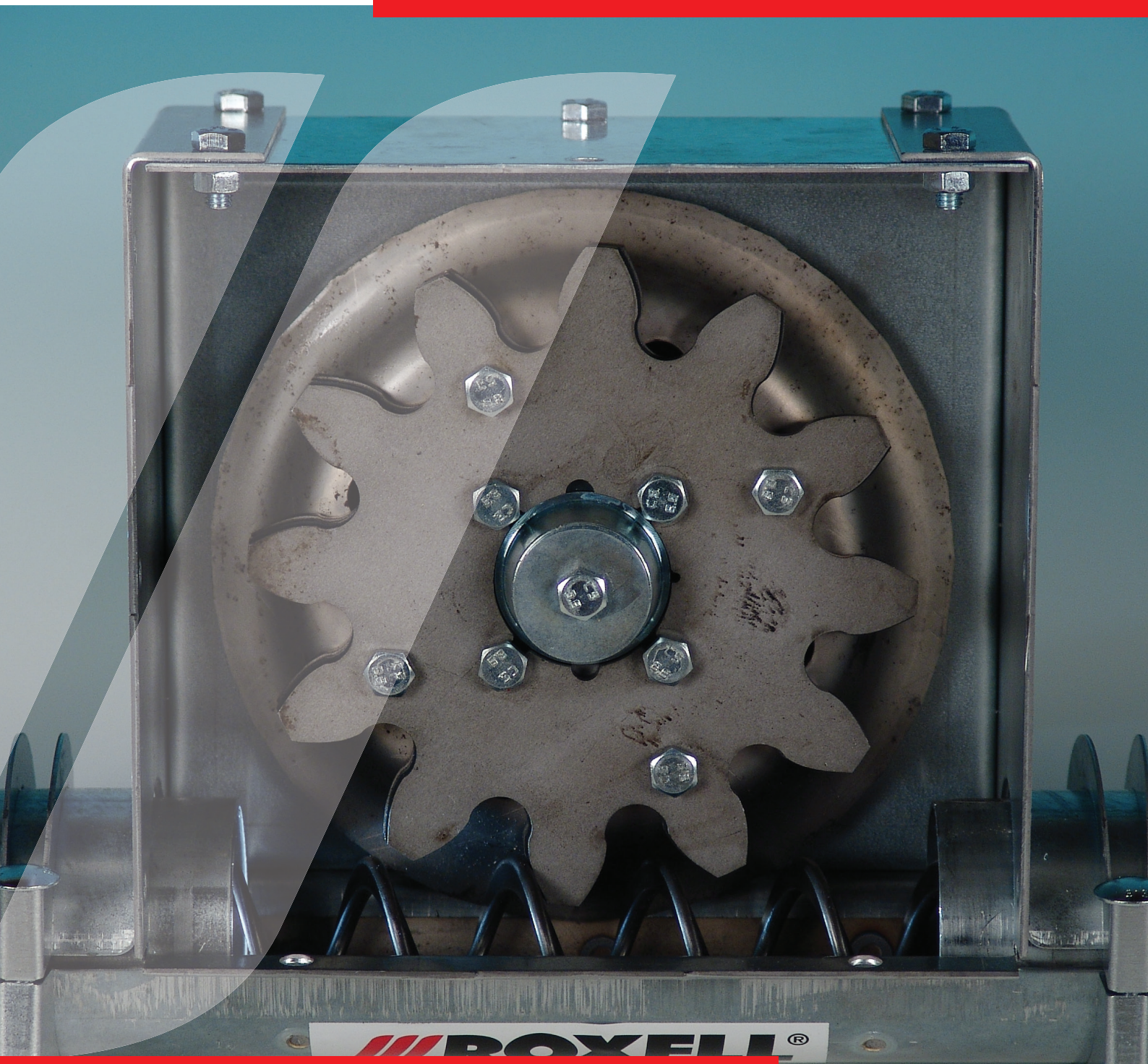




Multiflex™

User Guide



Original User Guide



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Disclaimer

The original, authoritative version of this manual is the English version produced by ROXELL BV. Subsequent changes to any manual made by any third party have not been reviewed nor authenticated by Roxell. Such changes may include, but are not limited to, translation into languages other than English, and additions to or deletions from the original content. Roxell disclaims responsibility for any and all damages, injuries, warranty claims and/or any other claims associated with such changes, in as much as such changes result in content that is different from the authoritative Roxell-published English version of the manual. For current product installation and operation information, please contact the customer service and/or technical service departments of Roxell. Should you observe any questionable content in any manual, please notify Roxell immediately in writing to: ROXELL BV - Industrielaan 13, 9990 Maldegem - Belgium.

General information

! **IMPORTANT:** These instructions must be read, understood and all points observed by the user, the responsible and operating personnel.

Obey the legal regulations and the applicable rules

This concerns, among other things, the European regulations and directives transposed into national legislation and/or the laws, safety and accident prevention regulations that apply in the user's country.

During assembly, operation and maintenance of the installation the legal regulations concerned and the applicable technical rules must be obeyed.

Intended use

The installation has been designed solely for intensive livestock use and has been developed according to the applicable rules of good workmanship. Extra loading of the product is therefore prohibited. Any other use is considered to be improper use. The manufacturer is not responsible for damage resulting therefrom. The user bears sole responsibility. The manufacturer can determine from the system data whether the product was used in accordance with the specified use.

Not-intended use

All use different than described in [Intended Use](#) is at the responsibility of the end user.

Liability

The (extended) warranty will not apply if any of the following has occurred: failure by the customer to inspect the delivered goods and report visible defects within 8 days of delivery with respect to the products, improper handling, transportation, modification or repair; accidents, defective or improper use; improper or defective assembly, installation, connection or maintenance (having regard to Roxell's most current assembly, installation, connection and maintenance manuals); improper modifications or manipulations of the operating system, hardware or any other software of the product by the customer; force majeure; negligence, lack of supervision or of maintenance on the part of customer; normal wear and tear; use of cleansing agents and disinfectants that are excluded in Roxell's most current use and maintenance manuals; use of cleansing agents and disinfectants in violation with the instructions received from the suppliers; or use of the products in an ATEX- surrounding.

The (extended) warranty shall not apply in the event of a defect caused either by materials or accessories supplied by or services rendered by the customer; or by an intervention by a person or entity which is not authorized or qualified for carrying out such intervention. Furthermore, the (extended) warranty will only apply if the products are used in livestock houses and if all parts or components of the products are supplied by Roxell.

Roxell will not be liable for any damages caused due to improper or defective use, assembly, installation, connection or maintenance of the products. In this respect, the customer expressly acknowledges that (i) all use, assembly, installation, connection or maintenance must be done in accordance with Roxell's most current assembly, installation, connection and maintenance manuals and (ii) the electrical installation on which the products must be connected must be done in accordance with applicable local legislation on electrical installations. Furthermore, the products must be tested both mechanically and electrically by the customer in accordance with state of the art techniques and applicable local legislation.

Personnel qualifications

User

The person who uses a function or operation of a product for their work or who works on the product. The user must be able to read the instructions for use and fully understand them. The user has knowledge of the functioning and construction of the installation.

Technically trained person

An expert who can assemble and maintain the installation (**mechanically/electrically**), and resolve malfunctions. On the basis of his/her technical training and experience, he/she has sufficient knowledge to be able to assess activities, recognize possible dangers and rectify dangerous situations.

Storage

Put all parts to be assembled in a room or at a location where the not yet assembled components are protected against weather influences.

Transport

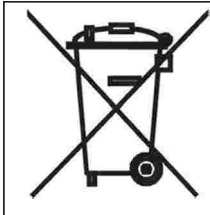
Depending on the size of the parts and according to local circumstances and local legislation, the parts of the machine have to be transported with a forklift.

The forklift must be operated by a qualified person and in accordance with the rules of good workmanship. When lifting the load, always check if the center of gravity of the load is stable.

Dismantling

Dismantle the installation and its components in accordance with the environmental legislation of the country or the local authorities applicable at that time. All functioning products and exchange parts must be stored and disposed of in accordance with the applicable environmental regulations.

Environmental information for customers in the European Union



The European legislation requires that equipment marked with this symbol on the product or packaging must not be collected with unsorted household waste. This symbol indicates that the waste electrical and electronic equipment (WEEE) cannot be disposed of in the regular household waste. We highly recommend that you bring your product to an official collection point so that an expert can remove the waste electrical and electronic equipment. Inform yourself of local legislation on separate collection of waste electrical and electronic equipment. Respect the local regulations and never dispose of the product together with household waste.

Information about waste disposal - electrical/electronic material for companies

1. In the European Union

If you have used the product for commercial purposes and you want to dispose of it, contact Roxell, who will give you information about the return of the product. It is possible that you will have to pay a disposal charge for the return and recycling. Small products (and small quantities) can be processed by the local collection agencies.

2. In other countries outside the European Union

If you want to dispose of this product, contact the local authorities for information concerning the correct disposal procedure.

The level of noise emission

The noise level of the installation in operation does not exceed 70 dB(A).

LOTOTO = Lock Out - Tag Out - Try Out

Before you begin: Everyone needs his own lock and tag (label), which can't be removed by other persons. Inform all the persons who are influenced by the procedure.

1 To block

- Localize all sources of energy (electric, hydraulic, pneumatic).
- Switch off.
- Take the relevant installation or process out of operation and lock it against reuse. You can do this by placing a padlock or other blocking mechanism (Lock Out).

2 To mark

Attach a sign, label or sticker to the padlock or blocking mechanism to reveal the nature and the expected duration of the work to other persons (Tag Out).

3 To check

- Check if the source of energy is switched off.
- Remove any remaining energy.
- Check that the installation or process is actually safe (Try Out).

Use personal protective equipment

Ensure you wear personal protective equipment (gloves, dust masks...).

Illuminance - sufficient lighting

- **A minimum illuminance of 200 lux is necessary** during usage, maintenance and installation.
- Provide at the installation **(portable) emergency lighting in case of power failure**.

Electrical equipment, control panels, components and drive units








- To operate control panels, there must be **at least 70 cm of free space**.
- Control panels must **always remain closed**. The key of the control panel must be in possession of an authorized person. Only an electrically trained person (see above) shall carry out maintenance activities inside the control panels.
- The necessary measures must be taken by the user to keep out **rats, mice and other vermin from the control panels**.
- If electrical equipment, control panels, components and drive units are damaged, the system must be stopped **immediately!**
- Electrical equipment, control panels, components and drive units should **never be sprayed with water or other liquid!**
- Electrical equipment, control panels, components and drive units should **never be covered with any material**.

Information about the residual risks - used safety signs

There are three levels of danger, which you can recognize from the following signal words:

- **DANGER**
- **WARNING**
- **CAUTION**

The nature and source of the imminent danger and possible consequences of not obeying warnings is stated here!

Symbol	Meaning
	DANGER indicates a direct imminent danger that can result in a serious or even fatal accident if the safety measures are not respected.
	WARNING indicates a possible imminent danger that can result in a serious accident or damage to the product if the safety measures are not respected.
	CAUTION indicates possible, dangerous situations that can result in minor physical injury or material damage if the safety measures are not respected.
	This symbol refers to supporting information.
	Allowed
	Not allowed
	This symbol will be used to draw your attention to matters that are of great importance for your safety. It means: warning - follow the safety instructions. Disconnect the current and read the safety rules. In short: be alert. Ignoring these instructions can cause serious injuries or even death.

GENERAL SAFETY RULES

Auger transport circuit Nr. 036

Transportsysteem voor droogvoeder van dieren

Transport system of dry feed for animals



DANGER

IMPORTANT

Carefully read the following instructions before
USING the system

1. Before you do any **repair**, or **maintenance works**, always **disconnect the electricity supply**.
2. Ensure you wear **personal protection equipment** (gloves, dust masks).
3. The system **starts automatically**.
Never use your **hands** at **dangerous locations** (feed intake boots, drive units, control units or outlet holes in the tubes) before you have **completely switched off** the transport system and made sure that **nobody** can **switch it on** without your knowledge.
4. **Never** allow **unauthorized persons** to **enter the house** in your absence.
5. If the auger stalls : **immediately** switch **off** the system. Carefully read the trouble shooting guide and strictly follow instructions. Contact a **technically trained person**.
An auger **under tension** can **cause very serious injuries** when released.
6. Regularly check the **elbow and/or tube connections**. Tighten if necessary.



This **SYMBOL** will be used to draw your attention to matters that are of **GREAT IMPORTANCE** for your **SAFETY**.

It means : **WARNING** - follow the safety instructions : disconnect the current - re-read the safety rules.

In short : **BE ALERT**. **IGNORING** these instructions can cause **SERIOUS INJURIES** or even **DEATH**.

OPERATOR'S GUIDE

FOR MODEL 55 WITH DISPENSERS ONLY :

IF YOU DO NOT USE A LEVEL SWITCH IN THE LAST OUTLET POINT (OUTLET OR DISPENSER) LET THE SYSTEM RUN DURING A CERTAIN "PRESET" TIME. THIS TIME IS :

- The time required to fill all dispensers you want to be filled. The occupation of the house does not matter, because you can set the time between 0 and 60 minutes.
- An extra time of 1 minute per 10 meters circuit length.

ATTENTION : If you change the occupation of the house or the feeding setting, you must also change the "preset time". Do not allow for more than 1 full extra cycle after the feed has passed through the whole circuit.

MAXIMUM RUNNING TIME FOR MULTIFLEX AUGER TRANSPORT CIRCUIT 55 HIGH CAPACITY = 1 HOUR PER DAY
 Use steel elbows instead of nylon elbows if the system must run longer than 30 minutes.


MAXIMUM RUNNING TIME FOR MULTIFLEX AUGER TRANSPORT CIRCUIT 55 LOW CAPACITY AND MULTIFLEX 75 = 2 HOURS PER DAY
 Use steel elbows instead of nylon elbows if the system must run longer than 60 minutes (Mf55LC).

ATTENTION : Contact ROXELL your supplier for professional advice when using following feeds :

 CCM (Corn Cob Mix) - Feed mixed with CCM - Soya - Soya lumps - Wet feed.

 Without explicite authorization, all our warranties will expire and no claims will be accepted.

Also contact Roxell if you want to use strongly grating feeds like hen feed etc...

MAINTENANCE INSTRUCTIONS				
		3-monthly	6-monthly	Yearly
 DANGER	Switch off the main switch first. Use personal protective equipment.			
ACTIONS IN GREY BACKGROUND MUST BE DONE BY A TECHNICALLY TRAINED PERSON.				
1. Drive unit (circuits)				
- Make fan dust-free			X	
- Check possible damages to electrical wiring				X
- Clean gear housing				X
- Check possible damage to drive gear				X
2. Suspension				
- Check suspension of tubes and motors		X		
3. Switches				
- Check operation of safety switch			X	
4. Circuits				
- Check screws and bolts in the system after the first month and after each batch. Tighten if necessary.		X		
- Keep tubes level.		X		
- Remove all feed from the system when the system will be out of use for a period.		X		

TROUBLE SHOOTING GUIDE

**Switch off the main switch first.
Use personal protective equipment.**



DANGER

PROBLEM	CAUSE	CORRECTIVE ACTION
1. No operation possible	No current.	Check main switch and/or fuses and/or line current.
2. FA fill system to circuits does not run.	a. Max. switch remains activated.	Check Max. switch and repair or replace it if necessary.
	b. FA safety switch is activated.	Disengage safety switch and find cause of blockage.
	c. Thermal-magnetic switch-off of the FA.	Check fuses. Check adjustment of motor protection. Reload motor protection and check its proper operation. Check if the safety switch operates well.
3. The circuit does not run.	Wrong programming of time clock or counter or no programming at all.	Check programming.
	a. Left or right hand motor of one or more circuits switched-off thermal-magnetically without being overloaded.	Check fuses. Check adjustment of Motor protection. Reload motor protection and check its proper operation.
	b. Left or right hand motor of one or more circuits switched-off thermal-magnetically (overloaded).	
	1. Too much feed in the tubes.	Multiflex runs too long or the level switch does not work. Transport circuit runs too long or the level switch does not work. Adjust programming and/or check the level switch.
	2. Connector intake boot/tube or tube-elbow not properly tightened.	Tighten connector.
	3. Auger coupling not properly installed.	Check auger couplings and replace correctly if necessary.
	4. Auger kinked .	Replace damaged auger.
5. Wheel inside intake boot is blocked.	Disengage wheel or replace if necessary.	
6. Obstruction in the tube.	Find blocking spot and remove the obstruction. SEE NOTE .	



DANGER

NOTE : IF THE AUGER OF THE CIRCUIT IS BLOCKED AS A RESULT OF ONE OF THE ABOVE PROBLEMS, IT WILL BE UNDER SPRING TENSION, SO BE EXTREMELY CAREFUL AND PROCEED AS DESCRIBED BELOW THIS PAGE*

PROBLEM	CAUSE	CORRECTIVE ACTION
4. The circuit : - stops prematurely.	Time set on time clock is not sufficient.	Adjust time clock programming.
5. Auger runs erratically.	a. When using the system for the first time.	This is not a breakdown; it will be ok after a couple of days.
	b. Auger too short.	Adjust auger length.
	c. Auger kinked as a result of careless installation.	Replace kinked parts.
	d. Auger coupling not properly installed.	See installation instructions. Replace coupling if necessary.
	e. Circuit too long.	Check maximum length and install an extra power unit if necessary.
	f. Circuit not properly suspended (loose or ineffective suspension).	Realign circuit. Check all suspensions and readjust where needed.



SWITCH OFF THE MAIN SWITCH OF THE CENTRAL CONTROL PANEL BEFORE YOU PROCEED WITH MANUAL CHECKS OR REPAIRS OF AUGERS OR POWER UNITS !

DANGER

*** WHEN THE AUGER IS BLOCKED, PROCEED AS FOLLOWS :**

1. Put the main switch in position "Off".
2. Locate the blocking spot precisely.
3. Reload the motor protection (left or right).
4. Find the cause and correct. (See page 5 3.b. : 3., 4., 5. or 6.).
5. Put main switch in position "ON". The circuit is ready for a new feeding cycle.



Inbouwverklaring betreffende niet voltooide machines (Richtlijn 2006/42/EG, Bijlage II.1.B)
Declaration of incorporation of partly completed machinery (Directive 2006/42/EC, Annex II.1.B)

Fabrikant/Manufacturer:
Roxell BV, Industrielaan 13, 9990 Maldegem
Tel: +32 50 72 91 72
Fax: +32 50 71 67 21

Verklaart geheel onder eigen verantwoordelijkheid dat het product:
Declares on its own responsibility that the product:

Multiflex Nr: 036...
Transportsysteem voor droogvoeder van dieren.
Transport system of dry feed for animals.

Waarop deze verklaring betrekking heeft, in overeenstemming is met:
- de volgende richtlijnen: 2006/42/EG (Machinerichtlijn); 2014/30/EU (Elektromagnetische Compatibiliteit);
- de geharmoniseerde Europese Normen: EN ISO 12100:2010; EN ISO 13854:2019; EN ISO 13857:2019; EN IEC 60204-1:2018; EN IEC 61439-1:2021; EN IEC 61439-2:2021.

Het is verboden bovengenoemd product in gebruik te stellen voordat de machine waarin het wordt ingebouwd in overeenstemming met de bepalingen van de Machinerichtlijn is verklaard.

Tevens verbindt de fabrikant (of zijn gemachtigde) zich om op met redenen omkleed verzoek van de nationale autoriteiten de relevante informatie over deze niet voltooide machine door te geven. De wijze van doorgifte is digitaal. De wijze van informatieverstrekking laat de intellectuele-eigendomsrechten van de fabrikant van de niet voltooide machine onverlet.
(NL)

Relating to this declaration is in accordance with
- The following directives 2006/42/EC (Machinery Directive); 2014/30/EU (Electromagnetic Compatibility).
- The harmonised European standards: EN ISO 12100:2010; EN ISO 13854:2019; EN ISO 13857:2019; EN IEC 60204-1:2018; EN IEC 61439-1:2021; EN IEC 61439-2:2021.

This product must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive.

The manufacturer (or its agent) also undertakes, at the duly reasoned request of the national authorities, to provide the relevant information concerning this partly completed machinery. The method of transmission will be digital. The manner in which the information is provided does not prejudice the manufacturer's intellectual property rights concerning the partly completed machinery.
(EN)

03601804

Plaats, Datum / Place, Date: Maldegem, 01/01/2023

.....
Dhr. Gino Van Landuyt
Managing Director

“This part may only be filled out if all built-in subparts are delivered by Roxell”

EG-verklaring van overeenstemming (Richtlijn 2006/42/EG, Bijlage II.1.A)
EC-declaration of conformity (Directive 2006/42/EC, Annex II.1.A)

Wij/We _____
(naam installateur/name fitter)

(volledig adres en land/complete address)

Verklaren geheel onder eigen verantwoording de
Declare completely on own justification that

(naam machine/name machinery) (nummer CE-label/number CE-label)

In een installatie te hebben ingebouwd geheel volgens de Roxell-voorschriften en in overeenstemming met de bepalingen van de Machinerichtlijn.
Has been incorporated in conformity with the provisions of the Machinery Directive and the prescriptions of Roxell BV.

(plaats, datum/place, date) (naam, handtekening/name, signature)

De EG-verklaring van overeenstemming / inbouwverklaring betreft uitsluitend de machine of niet voltooide machine in de toestand waarin zij op de markt is gebracht, met uitsluiting van de later bijvoorbeeld door de verdeler en/of installateur en/of eindgebruiker toegevoegde componenten en/of verrichte bewerkingen.

The EC-declaration of conformity / declaration of incorporation relates exclusively to the machinery or partly completed machine in the state in which it was placed on the market and excludes components which are added and/or operations carried out thereafter for instance by the distributor and/or the installer and/or the final user.



UK Declaration of Incorporation of partly completed machinery
Supply of Machinery (Safety) Regulations 2008

Manufacturer:

Roxell BV, Industrielaan 13, 9990 Maldegem

Tel: +32 50 72 91 72

Fax: +32 50 71 67 21

Declares on its own responsibility that the product:

Multiflex Nr: 036...

Transport system of dry feed for animals.

Relating to this declaration is in accordance with the essential requirements of

- The following Statutory Instruments:
 - o Supply of Machinery (Safety) Regulations 2008
 - o Electromagnetic Compatibility Regulations 2016
- The following Designated standards:

BS EN ISO 12100:2010; BS EN ISO 13854:2019; BS EN ISO 13857:2019;
BS EN IEC 60204-1:2018; BS EN IEC 61439-1:2021; BS EN IEC 61439-2:2021.

This product must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive.

The manufacturer (or its agent) also undertakes, at the duly reasoned request of the national authorities, to provide the relevant information concerning this partly completed machinery. The method of transmission will be digital. The manner in which the information is provided does not prejudice the manufacturer's intellectual property rights concerning the partly completed machinery.

Place, Date: Maldegem, 01/01/2023

.....
Dhr. Gino Van Landuyt
Managing Director

"This part may only be filled out if all built-in subparts are delivered by Roxell"

UK Declaration of Conformity
Supply of Machinery (Safety) Regulations 2008

We _____
(name installer)

(complete address)

Declare completely on own justification that

(name machinery) (number UKCA-marking)

has been incorporated in conformity with the provisions Supply of Machinery (Safety) Regulations 2008 and the prescriptions of Roxell BV.

(place, date) (name, signature)

The UK Declaration of Conformity / Declaration of Incorporation relates exclusively to the machinery or partly completed machine in the state in which it was placed on the market and excludes components which are added and/or operations carried out thereafter for instance by the distributor and/or the installer and/or the end user.



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