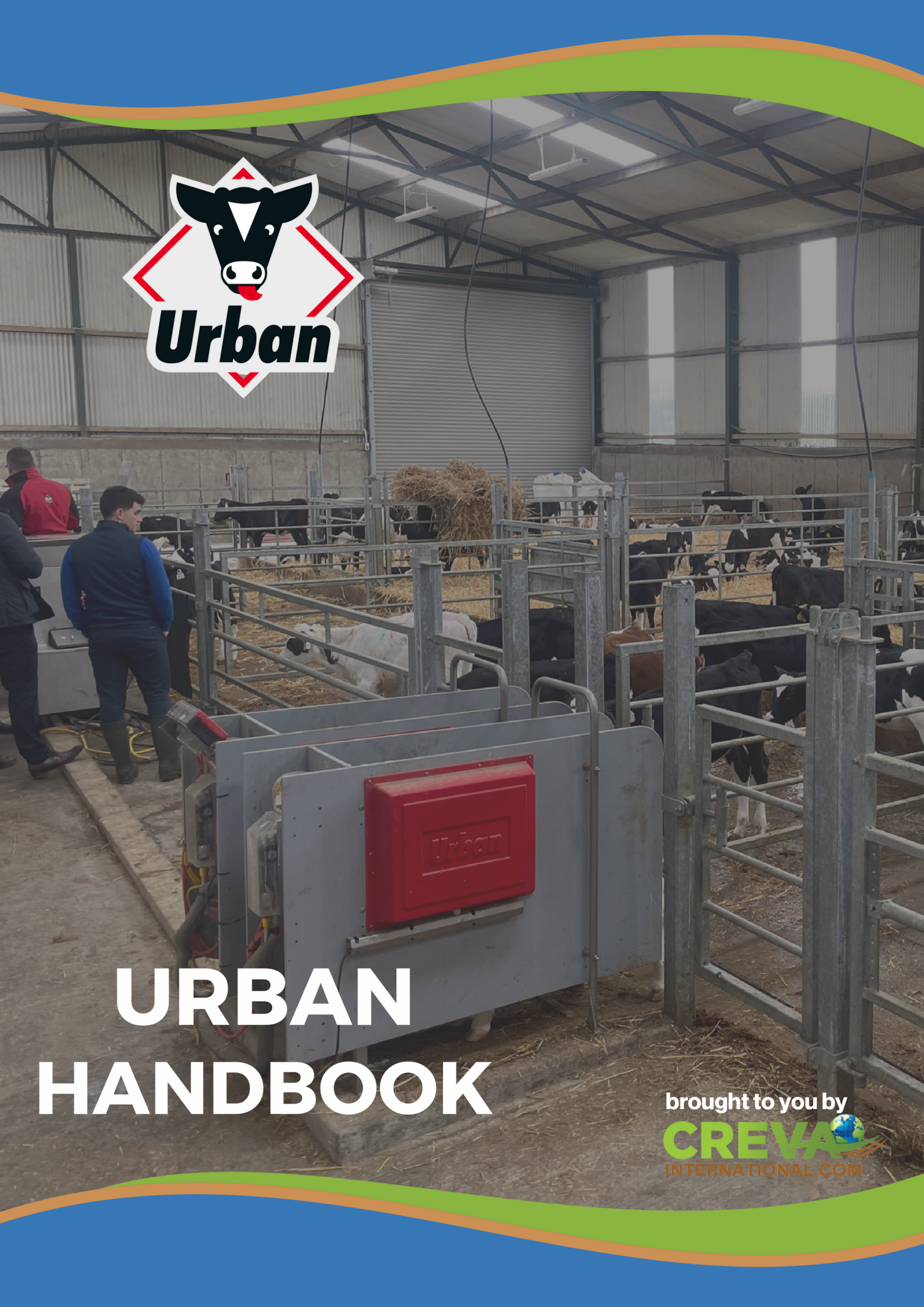

URBAN HANDBOOK

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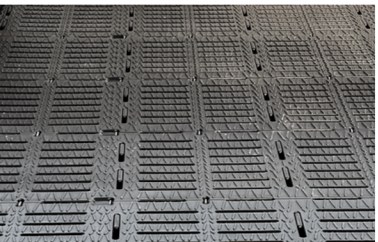


PREPARING FOR THE INSTALLATION OF YOUR NEW FEEDER

Safety

Full guidance and instructions on safety, care and maintenance of your feeder can be found in the user manuals which will accompany the feeder. We strongly recommend you consult this before use. Please ensure you read and understand the safety warnings in the user manuals prior to use.

The Calf House

Please ensure your calf house and the space where the machine is to be situated is prepared. The machine needs to be positioned at the same level as the feed stations.

Water

Please ensure there is a½ inch lever valve wall tap fitted so the feeder can be connected. Pressure must be constant- There needs to be a minimum of two bar pressure with a maximum of four bar. On installation, if the engineer feels that the pressure is too low, the machine may be set to direct measurement which will slow it down. This is not recommended for machine optimisation and may cause queuing.

We strongly recommend that a header tank is fitted with/for the machine of 50/100L with a ball cock and pump pressurised to maintain pressure between 2 bar (min) and 4 bar (max). This will help ensure the machine working at its optimum and prevent fluctuations in water pressure when demand for water is high on the farm. A header tank on its own is not adequate as it is the consistent pressure via a pressurised pump which is most important- the header tank will help for a constant supply and any potential grit will fall to bottom and not get stuck in filters.

Electricity

You will need a single x 16-amp single phase waterproof plug sockets. Do not use extension leads. The machine will need to be earthed by a qualified electrician. A double socket is often advisable in case of routers or other being added in at a later date.

Please ensure the 16-amp socket is surge protected against lightning and power surge 230V/16A, 30mA RCD. An RCD breaker is necessary.

PREPARING FOR THE INSTALLATION OF YOUR NEW FEEDER

Milk Powder and Calibration

Have a bag of Creva Calf Milk Replacer available to allow the engineer to calibrate your machine on the day of installation. The engineer will then show you how to calibrate your machine as it is vital this is done regularly. Calibration should be carried out every time when starting a new batch of milk powder, and every four weeks and also at the start of a new season.

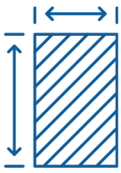
Ear Tags and Collars

If you are not using collars, please ensure to order your EID tags for your computerised calf feeder (These are bought as part of your department of agriculture identification tags and do not need to be a separate purchase).

Ear tag readers will be fitted on the right-hand side of the feed stations as you stand at the back of the feed station unless otherwise specified with the engineer in advance of installation.

Please ensure all calves are tagged in the right ear (looking at the calf from behind) with the EID tag.

Feeder Dimensions



Feeder: see dimension drawings attached.

Feed stations: see dimension drawings attached. Ensure to allow space to get access at the front of the station.

Teats

A Hiko teat with an xis recommended for Standard Urban 40 machines and all new Alma Pro 8" and 12" machines except hygienic stations. The teat should be positioned with the opening in a + position or it will be much harder for the calf to drink.

A Hiko teat with a 0 is recommended for all Quick Parallel Feeding systems and a must for Hygienic feed stations. An x teat will not work correctly in a quick feeder until a non-return valve is positioned at the top of the line as a young calf may not be able to suck correctly. Hiko teats do come in 2mm or 4mm holes, and the manufacturer recommends the 4mm.

Hoses

All hoses and cables installed need to be protected by the farmer against any external damage.

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KEY POINTS FOR SMOOTH RUNNING OF YOUR MACHINE

1. Ensure you always operate and maintain the machine in accordance with the user manual
2. The machine has an in-built frost protection system, but you must ensure the water supply to the machine is protected from severe frost.
3. Water going through the machine should be clean. There is a filter on the water inlet but if there is a risk of dirty water, you should fit a sock filter to the water supply line. There are two filters where water enters the machine and cleaning of these is also strongly recommended.
4. Water pressure should be a minimum of two bars and maximum of 4 bars for the machine to work correctly.
5. The computerised feeder is not waterproof. Do not leave it outdoors or wash with a power hose. It is good practice, recommended and will cost very little to leave it plugged in/on standby if it is not in use, protecting against frost and against dampness to the programs.
6. It is also advised by the manufacturers to leave the machine turned on in cold harsh conditions or to empty the boiler and all water components in the feeders, your engineer will explain how to do this.

ROUTINE CLEANING AND MAINTENANCE

1. Day-to-day care is vital for a well-functioning computerised feeder and most importantly, good hygiene and attention to detail will help to reduce the risk of disease, helping to keep your calves healthy.
2. We have put together a set of 'best-practice' guidelines for care of your computerised feeder. See the 'Feeder Care Wall Chart' - This will guide you through when and how often to perform each task.
3. We advise that feeder teats are swapped and cleaned daily and that a new teat is installed at least once a week or before if needed.
4. Annual Service - see 'Spare Parts and Maintenance'

Cleaning Products

Using the correct cleaning products is key.

The machine is set to rinse the mix flask automatically twice a day. We recommend setting this at a 1:3 ratio of acid to alkali, for the most effective cleaning.*

**(Regularity of washing depends on whether using whole milk or milk powder, water hardness, temperature etc).*

ROUTINE CLEANING AND MAINTENANCE

CLEANING PRODUCTS, CONTINUED..

The cleaning procedure should also be manually completed, both at before use and before taking the machine out of operation at the end of the season.

The machine requires both an acid and an alkaline detergent and once set up, it will automatically rotate between the two. Visual checks of the mixing bowl and pipes will tell you if your washing regime is successful.

- **Alkaline Detergents**: are needed to remove the protein and fat residues from the milk.
- **Acid Detergents:** remove any build-up of mineral deposits and limescale - however these are not sufficient to clean protein and fat deposits from the feeder.

DETERGENTS:

- We advise using the detergents recommended or approved for use for the Urban machine. See **Detergent Recommendation** document for details.
- Urban recommended detergents can be purchased via your Engineer (subject to availability).
- Biocel Pro-Clean and Pro-Acid are also approved for use. These are widely available from Biocel and most other merchants. *Biocel Ltd. Rockgrove, Glounthane, Cork. 0214353516 www.biocel.ie*

It is important to note the feeder cleans at a maximum temperature of 58°C. Some parlour detergents will only start to clean at much higher temperatures than this, and therefore it is essential that the cleaners used are suitable for cleaning at low temperatures (<55°).

ACID AND ALKALINE DETERGENTS SHOULD NEVER BE MIXED

RECOMMENDED DETERGENTS

Urban Feeders require a low temperature wash cycle. Many dairy detergents are not suitable for use in the calf feeder as they need a higher temperature wash.

The Urban Feeder clean at approx 50°C

It is strongly recommended by the manufacturer to use a detergent which has been approved for use in these feeders, to ensure adequate cleaning and prevent damage to feeder parts.

To help you choose a suitable product, we have listed the manufacturers recommendations below:

Detergent Name	Detergent Type	Description	Availability
Urban A30	Alkaline	Specifically formulated for use on the Urban Feeders	Ask your engineers for details of supply
Urban S30	Acid	Specifically formulated for use on the Urban Feeders	Ask your engineers for details of supply
Biocel Pro Cleen	Alkaline	Approved for use in Urban Feeders - a concentrated caustic-based detergent with high levels of sequestrants and surfactants to give complete removal of milk residues. Pro-cleen is Chlorine Free as recommended by equipment manufacturers.	Supplied by Biocel and are available Nationwide through Coops and Merchants Contact your local Dairy Hygiene supplier or contact Biocel Ltd. Rockgrove, Glounthane, Cork. T: 0214353516 www.biocel.ie
Biocel Pro Acid	Acid	Approved for use in Urban Feeders A concentrated Phosphoric acid-based detergent with high levels of surfactants for removal of milk solids and scale build up.	Supplied by Biocel and are available Nationwide through Coops and Merchants Contact your local Dairy Hygiene supplier or contact Biocel Ltd. Rockgrove, Glounthane, Cork. T: 0214353516 www.biocel.ie

SPARE PARTS & MAINTENANCE

Parts for your Computerised Feeder are guaranteed under warranty for 12 months from the date of installation.

All spare parts can be requested via the Engineer who installed your machine. Only Urban parts should be used to ensure proper function and for compliance with the warranty.

Any additional accessories not purchased with the original order can be purchased directly from your Engineer by separate agreement with the engineer.

SERVICING

As part of an ongoing maintenance programme, to ensure optimal performance from the machine the manufacturers recommend an annual service from a qualified engineer. This needs to be arranged directly with the engineer. It is not the responsibility of Creva to ensure your feeder is serviced.

TRAINING

The engineer will provide full training on installation of machine. Please ensure you allow sufficient time on the day of installation for this training.

Your Creva business manager will call within two weeks of installation to discuss growth curves and feed plans.

ASSISTANCE

Any operating queries with the machine need to be directed to the engineer. Engineer contact details can be located on a sticker on the feeder.

Thank you again for your business and we wish you every success with your calf rearing enterprise.

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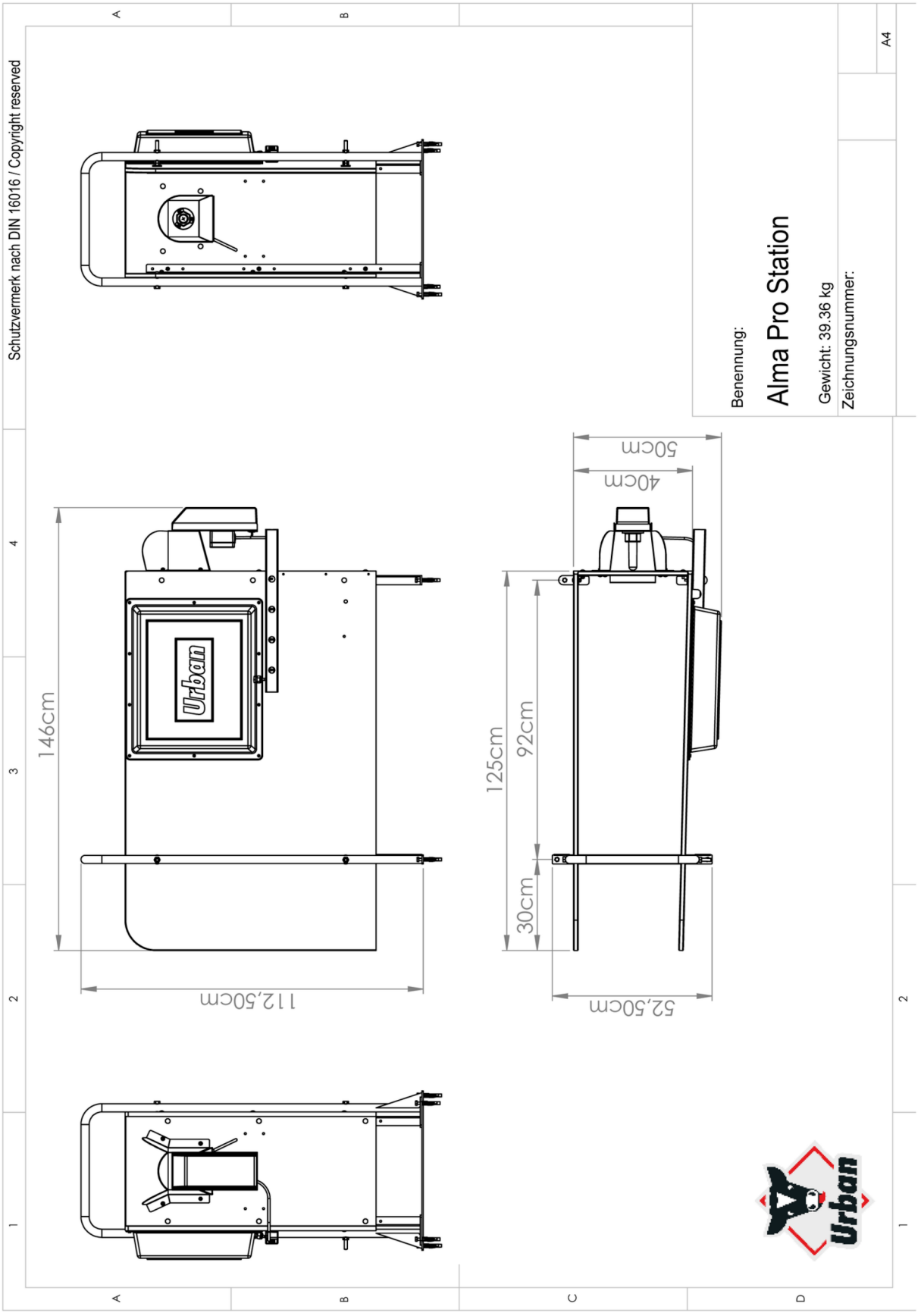
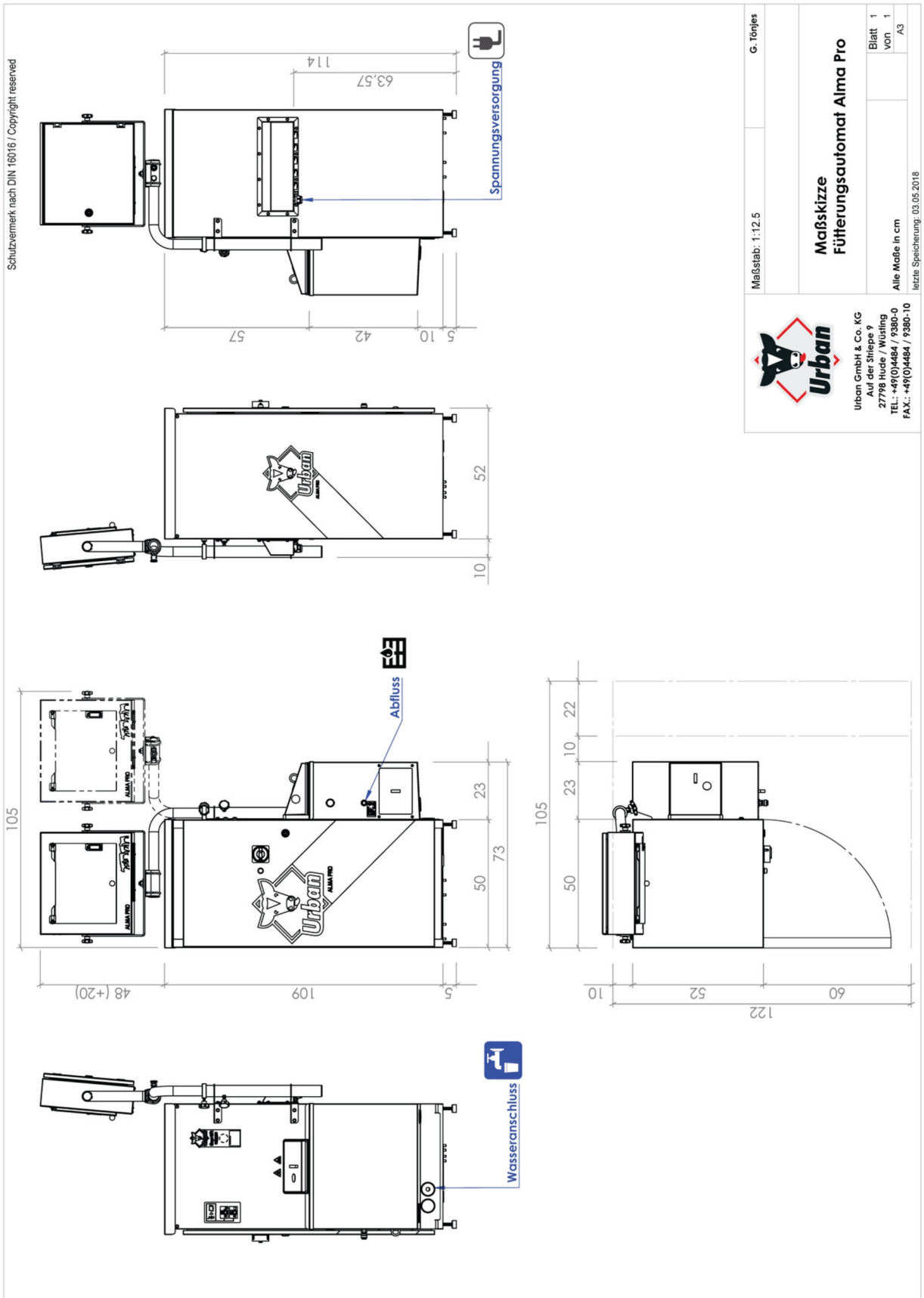
DIMENSIONS: ALMA PRO STATION



DIMENSIONS: ALMA PRO AUTOMATIC FEEDING MACHINE



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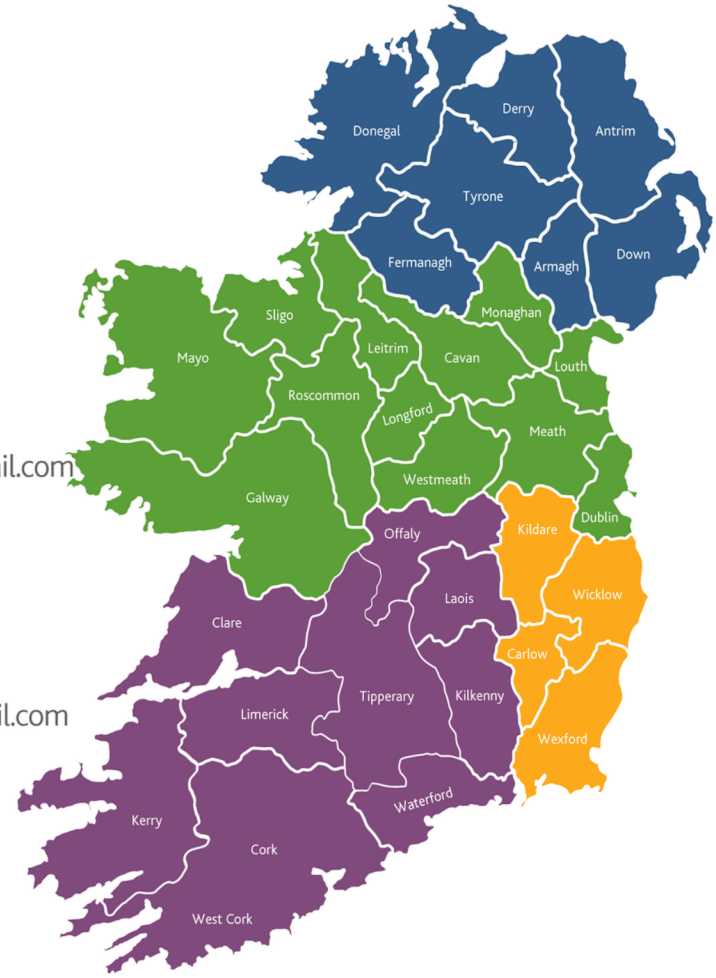

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