

# MECHANICAL SEED PLANTERS

Mechanical or electrical drive





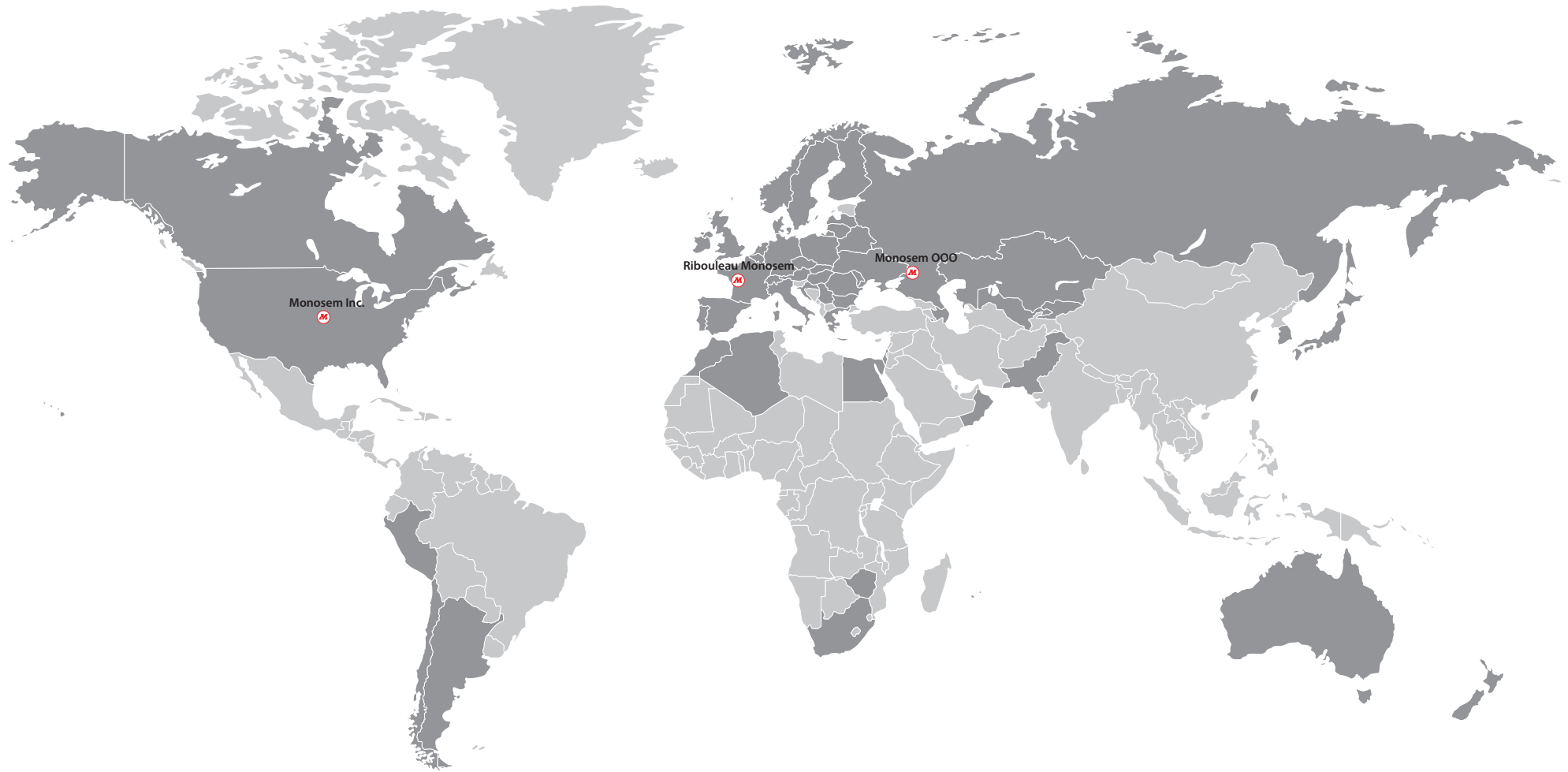
70 YEARS OF KNOW-HOW...



... BY YOUR SIDE



*Sowing is an investment, an essential step that brings the crop to its full potential. In more than 50 countries around the world, many farmers have chosen to rely on Monosem technology. Our 70 years of shared history bear witness to this. This trust, based on notions of reliability, sustainability, and agronomic performance, is now strengthened by technological innovations. Whether on seed planters or hoeing machines, intelligence is at the heart of Monosem equipment. Our relationship is based on three fundamental pillars: uncompromising quality of emergence, intelligence in favour of eco-responsibility and a service worthy of the challenge.*











## EMERGENCE

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*If yield is the primary objective of a seeding operation, then it is the quality of emergence that we should aim for. Put all the advantages on your side and reach the full potential of your crops from the start.*







### **Excellent emergence quality**

*While optimum yield is the objective of the sowing operation, it is the quality of emergence that we are looking for first. The speed and uniformity of emergence are strongly influenced by the sowing conditions. Sowing at an even depth and ensuring a uniform distance between seeds is a guarantee of the best emergence conditions. This is how Monosem seed planters stand out, with mechanical kinematics that allow for unparalleled seed pressing and furrow closure.*

*Over the years, our recommendations for use, setting, and speed have proven their effectiveness in achieving uncompromising emergence quality.*













## INTELLIGENCE

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*Times are changing and so are farming practices. At the heart of our daily lives, digital intelligence supports you at every step for ever greater precision.*





## INTELLIGENCE SUPPORTING ECO-RESPONSIBILITY.

*In the global context of soil preservation and the implementation of virtuous cultivation practices, the Monosem teams are working to offer solutions that reconcile productivity, simplicity, and sustainability. This intelligence, at the service of both user and environment, is materialised by row cutting and dose modulation directly from the cab on electrically and hydraulically driven seed planters.*

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## SMART MACHINES

*A machine that intelligently supports the sowing, a machine for the future.  
Our on-board technologies provide operational comfort and input savings.*



### Section Control

*Our electrical sowing units are independently driven. The ISOBUS Section Control function allows the rows to be cut automatically. This avoids overlapping at the end of the field or in headlands; sowing in the wedges becomes easier!*

*Without recrossing, hoeing is simplified. Save on seeds and fertilizer!*



### Tramline

*Our equipment make tramlining easier! At sowing time, some elements can be cut automatically to make a simple and precise tramlining to leave the way for the sprayer. Simple settings guarantee unprecedented seed savings, precision and working comfort.*



### Variable Rate

*Automatically and continuously adjust the inputs according to the position of the seed planter in the plot.*

*The seeding rate is automatically controlled from the cab and adjusted according to the potential of the plot. With its radar directly integrated in the electrically driven seed planters, you benefit from greater precision when sowing.*









## SERVICE

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*To ensure the longevity of your equipment and to enable you to maintain an unparalleled quality of sowing, we make your satisfaction our priority. Spare parts, reactivity and support are available.*







## Reliable and close to you

*Providing advice tailored to the needs of your operation is one of the outstanding qualities of our extensive dealer network. At your disposal to respond effectively to technical and operational requirements, we place our expertise at your service.*

*Because for more than 70 years you have placed your trust in us, we have created the Value & Tech Centre. This free service, from a team of technical experts, offers proactive listening and support, for serene sowing.*

## Spare parts: action, reaction!

*Checking the wear and tear of your equipment is one of the most important steps in preparing the sowing row. To maintain optimum performance from your Monosem seed planter, we offer a wide range of spare parts. From timing discs to belts to ploughshares, we have the right part for you! Because you pay attention to the wear and tear of your parts, we put all our reactivity to good use to ensure their availability within the dealer network and from our large factory stock.*

*To consult our catalogue, go online to:  
[service.monosem.com](http://service.monosem.com)*

## Our machines stand the test of time

*We make a point of using quality materials in the design of our machines. A habit that has proven its effectiveness through time, and which guarantees the solidity and reliability of our equipment. An investment that pays off over the years and allows to optimise your cost per hectare.*

*A lasting investment that gives you the peace of mind you need to sow in the best conditions.*

**10%**

Incorrect settings or  
lack of maintenance  
can lead to a loss of  
efficiency of up to 10%.  
(Données Limagrain [Limagrain  
data], 2012)





## WE HAVE THE RIGHT SEED PLANTER FOR YOU

*Configure your seed planter according to your needs: choose the element, the frame, the accessories... and turn your seed planter into the ideal tool for your crops.*









## CHOOSE THE ELEMENT RECOMMENDED BY BEET GROWERS

*To best meet your expectations and the diversity of practices, we have developed a mechanical seeding unit that adapts to your needs. Its robustness and reliability enable to carry out sowing in optimal conditions. Today, for sowing coated seeds, demand the Monosem quality!*



### **MECA V4: efficiency and precision**

*The MECA V4 with its coulter system is the preferred sowing unit for beet sowing. Its design offers two types of depth control, either by front gauge or via a pendulum system.*

*Quality of placement, depth uniformity and emergence dynamics are the main advantages of this element, specially designed for coated seeds. The quality of the sowing is determined by the sowing unit quality of distribution. That is why we've put all our know-how into offering precise, simple and reliable distribution. This quality of manufacture has made the MECA V4 recognized for its distribution. The speed induced when using the MECA V4 element guarantees unrivalled evenness of sowing and seed positioning.*

*Ideal for conventional soil tillage, the MECA V4 is also available with an electric distributor drive. This makes sowing more precise, while maintaining its quality. It is also possible to use the MECA V4 element for simplified seeding. Its double opening discs spread the residues and allow an optimal control of the seeding depth. Thus, the penetration capacity is maintained while limiting soil disturbance.*

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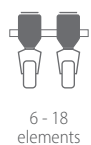


## CHOOSE THE RIGHT FRAME FOR YOUR NEEDS.

*The frames solutions of our MECA V4 seed planters offer a wide range of mounting and equipment options.*

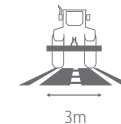
### Rigid frames

*Single bar, double bar, or triple bar, let yourself be guided. Our rigid frame can be adapted to your needs. Economical, robust, and reliable, they guarantee that you can sow with confidence.*



### Folding frames

*Our floating folding frames give fool-proof stability and reliability. The independent ends and wheel blocks allow excellent ground tracking. Their ease of folding allows to move easily from transport to work and back again.*







## CONNECTIVITY

*Control each element of your electric seed planter with its independent drive. Smoother communication between the seed planter and the tractor, while maintaining high reliability of information.*

*Monosem is certified by the AEF (Agricultural Industry Electronics Foundation) for its electric seed planters and front mounted fertilizers. This certification guarantees full compatibility between your tractor and our equipment, via a high-performance ISOBUS connection.*

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## MORE COMFORT FOR MORE PRODUCTIVITY

*Monosem Touch terminals are 100% ISOBUS compatible to make your life easier. From the tractor cab, manage markings, automatic row breaks, and seeding and fertilisation rates to save on seeds and inputs.*

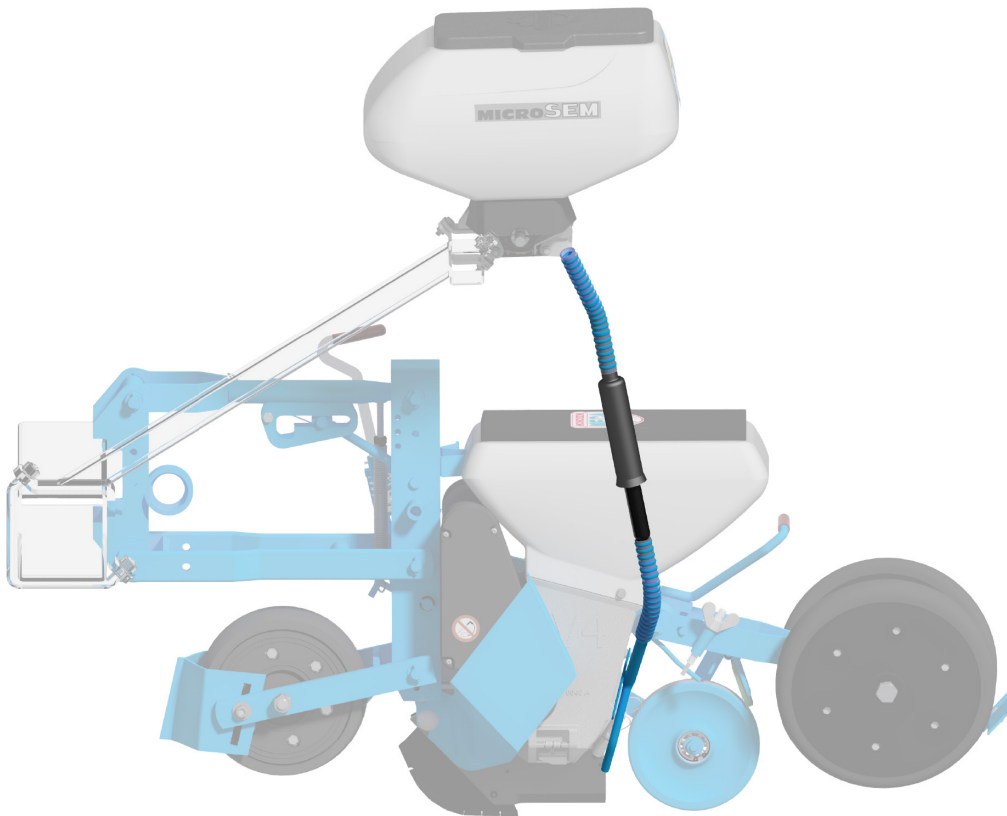
*Also gain in comfort with our mechanical seed planters with the sowing controllers, which range from simple seed drop control to electromagnetic row break management.*



## MICROSEM: NUTRITION WITH PRECISION

*The main objective of Microsem is to protect the seed from external aggression. The distribution of microgranules requires just as much attention and precision as sowing. Our Microsem auger system ensures regular dosing of insecticide, slug pellets and even fertilizer.*

*Placed as close as possible to the seed, the microgranules will protect it from pests and provide all the nutrients necessary for uniform emergence.*



### **Choose the right chute.**

*The placement of the microgranules in the sowing line is a key factor for optimal development. Our microgranulator has two chutes depending on the product to be distributed.*

*A first chute allows an application in the sowing line; to be used if you wish to apply an insecticide (or a microgranular fertilizer).*

*The other chute, located in front or behind the press wheels, is recommended for the application of slug pellets.*



## FERTILIZATION

*From standard hoppers to front hoppers, we have the right fertiliser system for seeding operation. The auger feeder distribution, in combination with the agitators, ensures even fertilizer dosing.*



### Front hopper

*Standard or Duo, our front hoppers can be fitted to Monosem seed planters. For maximum versatility, the front hoppers can also be combined with one of our hoeing machines for fertiliser application during hoeing.*

*As with our entire range, the distribution can be controlled from the cab via an Isobus terminal.*

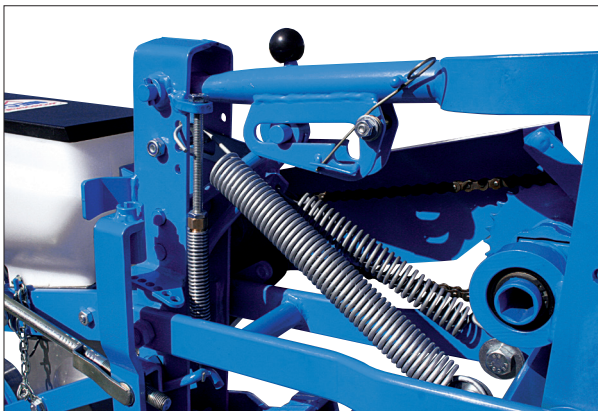
*With one or two dosing units and a volume of up to 2,100 L, choose the capacity you need! Our front hoppers offer a stainless-steel distribution to maintain a high level of reliability. Our front hoppers are available with electric drive and quick-release metering wheel for increased accuracy and ease of maintenance.*

### Standard hoppers

*With a capacity of 175L and 3 outlets, they can be fitted on rigid and coupled frames for even greater efficiency. They will support you throughout your work and ensure unrivalled precision.*

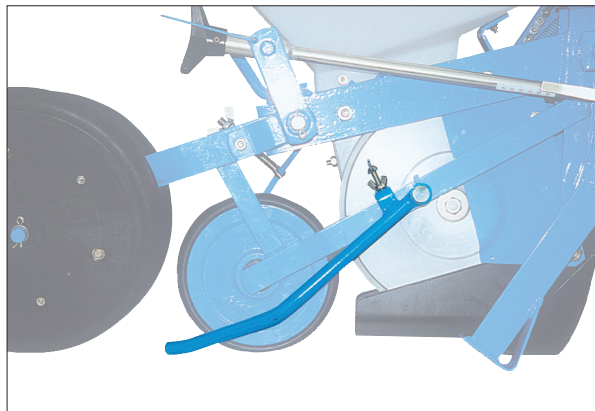


## ALWAYS THE RIGHT ACCESSORY



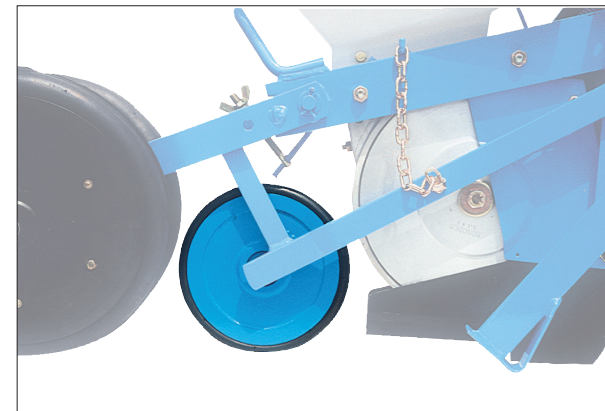
### Additional support spring

*An additional adjustable support spring can be added for sowing on hard ground or with plant debris (supplied as standard with the "285 x 65 front wheels + double disc openers" equipment).*



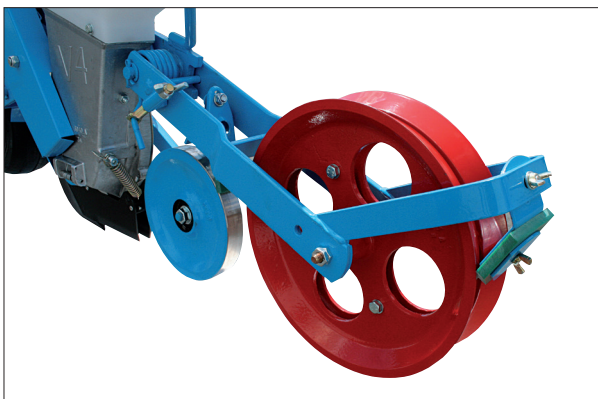
### Side skim coulters

*The side skim coulters for hard soils that are particularly difficult to close allow more soil to be brought towards the seed line before the rear packer block closes the furrow.*



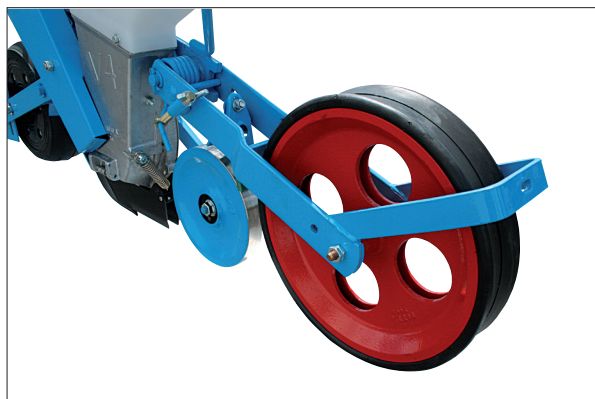
### Intermediate wheel with soft treads

*For particularly sticky soils, a rubber-tyred wheel can be fitted instead of the stainless steel-tyred wheel.*



### Concave rear wheel

*A concave cast iron rear wheel is available as an option. It is equipped with a plastic scraper. This wheel makes it possible to close the furrow without compressing the middle of the seed line too much.*



### Concave rear wheel with soft tread tyre

*The concave cast iron rear wheel can be fitted with a soft self-cleaning tread.*



## Technical features MECA V4

Frames		Rigid				Folding			Coupled		
		Monobar		Double bar	Triple bar		Compact	Double bar			Three levels
Width		3m	6,1m	6,1m	8,4m	9,2m	6m	6m	9m	9m	12m
Transport width (with longitudinal transport carriage)		3m -	6,1m (2,5m)	6,1m (2,5m)	8,4m (2,5m)	9,2m (2,5m)	3m -	3m -	3m -	9m (3m)	12m (3m)
Number of rows		6	12	12	18	18	12	12	18	18	24
Inter-row (cm)		45 or 50	45 or 50	45 or 50	45	50	45 or 50	45 or 50	45 or 50	45 (or 50)	45 (or 50)
Tyres		2 x (500 x 15)	4 x (500 x 15)	6 x (500 x 15)	6 x (500 x 15)	6 x (500 x 15)	4 x (500 x 15)	4 x (500 x 15)	8 x (500 x 15)	8 x (500 x 15)	8 x (500 x 15)
Drive	Mechanical (Number of seed spacing gearboxes)	1	1	1	2	2	3	3	3	2	2
	Electric										
Hydraulic row markers											
Standard fertiliser		 2 x 175L	 4 x 175L	 4 x 175L	-	-	-	-	-	 6 x 175L	-
Front fertiliser					-	-	-	-	-	-	-
Microsem Insecticide											
Hectare counter											
Seed monitors											
Lighting kit											
Integrated transport carriage		-	 TIP 5"	 TIP 5"	 TIP 5"	 TIP 5"	-	-	-	 TOP 7"	 TOP 7"
Weight planter alone		800kg	1600kg	1750kg	2700kg	2800kg	2000kg	2200kg	3500kg	3400kg	4300kg

● : Standard   ○ : Optional   - : Impossible   : Consult us

For other models, configurations or drive types :













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[www.monosem.com](http://www.monosem.com)

*All the data concerning the equipment, the general appearance, the weight and dimensions are current at the date of printing and vary according to countries. They may be modified without previous notice. This brochure cannot be considered as a binding document. Your Monosem partner will not hesitate in informing you of any possible changes. In order to illustrate this brochure, certain safety housings and mechanisms may have been removed. Apart from this particular case and complying with the recommendations in the manual, these must remain fitted.*  
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