



**MARECHAL**  
**electric**



***Switch rated equipment connectors  
for the Food & Drink  
Industries***

# The benefits of using the Marechal DEC



## Connect with confidence & disconnect with safety

Thanks to its integral load-break isolating switch mechanism, the deconnector socket allows users to connect and disconnect electrical equipment safely up to 250 A : a release button cuts the power and de-energises the plug before it can be removed. Even in the event of a short-circuit, the deconnector guarantees user safety and eliminates any electrocution hazard.

## Reduce machine downtime

Equipment motors fitted with a deconnector (ie not hard-wired) can be exchanged in moments when they fail. The change-over is reduced to a simple mechanical operation with the attendant cost savings.



## Provide automatic IP66/67 watertight seal

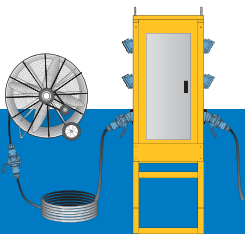
The plug and socket is **automatically** watertight just by inserting the plug and is maintained so when you remove the plug and close the lid. There is no need to turn any sealing ring!

## Ensure long working life

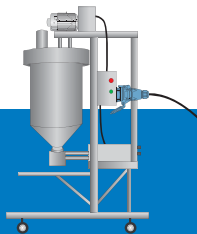
The deconnector butt contacts have silver-nickel tips which are an excellent conductor, corrosion-resistant, shock resistant (Iko8) and environmentally sound (-40 to +60°C). These are true fit-and-forget connectors allowing you to make product, not regularly replace connectors.

## Reduce installation costs

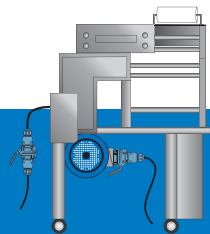
The deconnector design reduces the number of sockets required. How? By being bi-voltage. A 3pne (5 pin) configured socket will accept a 5 pin plug, 4 pin plug and 3 pin 230VAC plug.



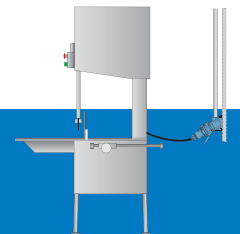
Fans



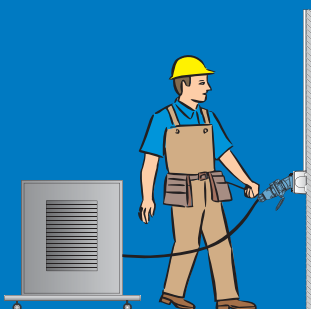
Mixers



Packaging machines



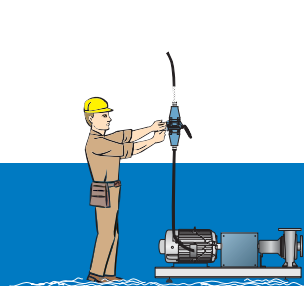
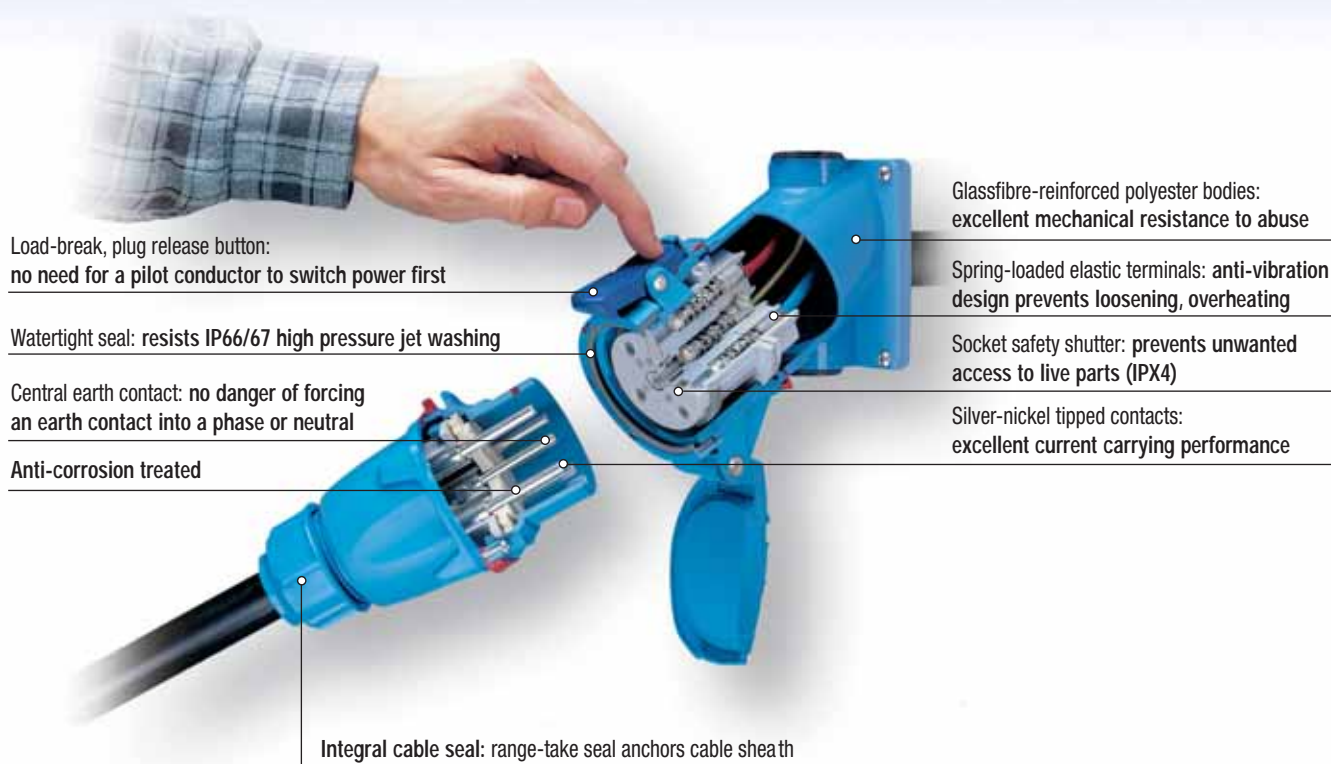
Cutting machines



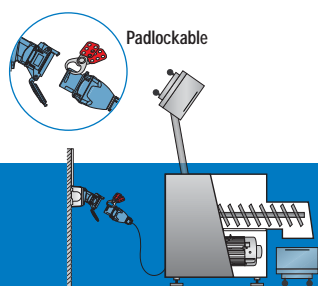
## MOBILE EQUIPMENT

Mobile machines and equipment can now be disconnected, moved and re-connected in as long as it takes to press a button, push the machine to its new production location and re-plug it in. Fantastic cost and time savings are real without any safety compromise.

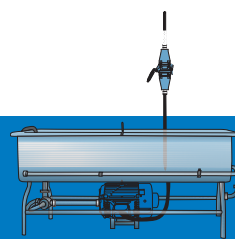
# CONTACTOR™ in your production plant



Pumps



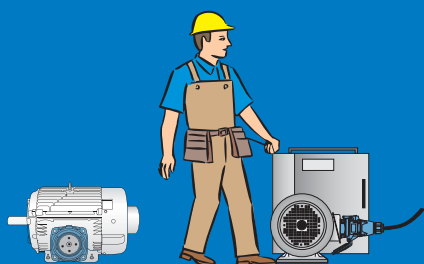
Mincers



Wash tank



Conveyors



## EASY MAINTENANCE

Motors fitted with a decontactor are not just isolated but *visibly* isolated when the plug is removed; a safe work condition for the fitter to work in.





## At last! A connector designed to function in your food or drink environment

It's watertight, it's robust, it's resistant to chemicals and it answers your need for plant safety – the DECONTACTOR™ solves your connection problems. Whether a fixed supply or for mobile machines the deconnector's simplicity of use makes the user's life easy and enhances your production.



### For humid & corrosive environments

In humid areas such as abbatoirs, food production brass contacts tend to oxidize. This oxidation causes contact heating and eventual failure.

#### Advantage deconnector

*Our design uses silver-nickel butt contacts which resist corrosion even after years of operation. The automatic socket seal resists steam cleaning, water jetting and chemicals.*



### User operation in fatty or humid environments

A layer of fatty film (eg in cheese plants) on plugs is one reason why some operators pull on the cable to remove the plug from its socket. With the deconnector – no longer!

#### Advantage deconnector

*Even if wearing protective gloves the operator can simply press the release button. This ejects the plug to a parked position. A quarter turn removes the now dead plug from its socket.*

*NB: Our in-line connections are also switched – for extra safety.*



### Robust requirements

Where extension leads are required these are often strewn about the floor.

#### Advantage deconnector

*The glassfibre-reinforced casings resist accidental damage (IKo8) as well as operating happily at temperatures between -40°C and +60°C.*



### Moving equipment and maintenance

Often conveyors are hard-wired for reasons of safety. Procedures for opening junction boxes and removing supply conductors are lengthy adding to production downtime.

#### Advantage deconnector

*In cases of breakdown the electric motor can be disconnected and exchanged quickly and safely by a multiskilled person at the press of a button.*



## Bottling Plants

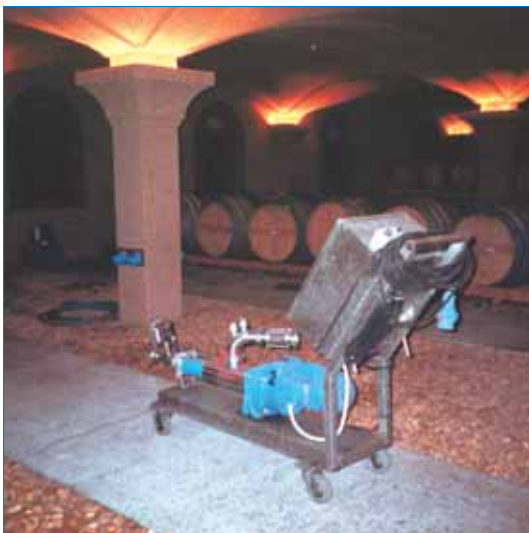
These plants have multiple connections: multipin control connections, label printers, conveyor motors etc.

### **Advantage decontactor**

A decontactor can be keyed to differentiate between similar voltages, different applications or differently rated motors.



*24 different, non-interchangeable key positions for voltage differentiation*



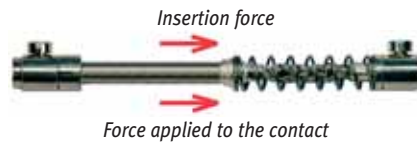
## Breweries

With so much water and humidity about brass contacts suffer from oxidization and thus failure.

Failures lead to extra maintenance and cost.

### **Advantage decontactor**

The quality of the silver-nickel contacts assures the load make & break function even after years of use. No particular socket maintenance is necessary.

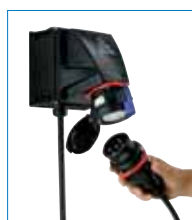


## Distilleries

Due to the presence of alcohol vapours, distilleries are classed as potentially explosive atmospheres.

### **Advantage decontactor – ATEX type DXN**

Whether fixed supplies or mobile connections the DXN decontactor is ATEX approved for use in such environments.



*Note Cost Saver: An extra advantage is that DXN type ATEX plugs can fit into industrial DSN sockets negating the need to install the more expensive ATEX socket is the safe area workshop. Of course the industrial DSN plug cannot fit the ATEX socket.*

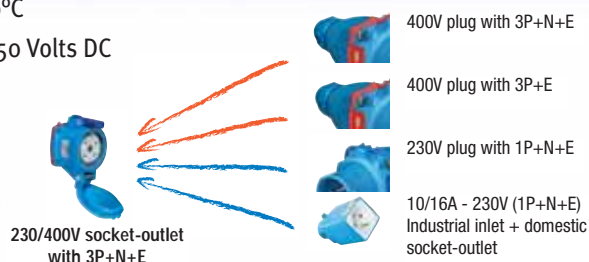
# Product selection guide



## DSN DECONTACTOR™ 20A/32A/63A

*IP66/67 achieved upon connection (resists high pressure jet washing)*

- Polyester casings, resistant to chemicals conditions and shocks (IK o8)
- Ambient temperature (Ta): -40°C to +60°C
- Voltage up to 1000 Volts AC and up to 250 Volts DC
- Versions up to 37 contacts
- Breaking capacity AC23
- Versions with 2 or 4 auxiliary contacts
- **The dual voltage system reduces costs:**



Wall mounting socket



Inclined socket



Coupler socket



Plug



Inclined appliance inlet



Active part:	Socket-outlet	Socket-outlet	Socket-outlet	Inlet	Inlet
+ installation accessory :	B Wall box	SI Inclined sleeve	H Handle	H Handle	SI Inclined sleeve

DSN1 20A

Voltage	Polarity	Part Number				
230 V	1P+N+E	61 14 015	61 14 015	61 14 015	61 18 015	61 18 015
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013	61 1A 027
400 V	3P+E	61 14 013	61 14 013	61 14 013	61 18 013	61 18 013
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013	61 1A 027
400 V *	3P+N+E	61 14 017 *	61 14 017 *	61 14 017 *	61 18 017	61 18 017
	+ accessory :	61 1A 053	61 1A 027	61 1A 013	61 1A 013	61 1A 027

DSN3 32A

Voltage	Polarity	Part Number				
230 V	1P+N+E	61 34 015	61 34 015	61 34 015	61 38 015	61 38 015
	+ accessory :	61 3A 053	61 3A 027	61 3A 013	61 3A 013	61 3A 027
400 V	3P+E	61 34 013	61 34 013	61 34 013	61 38 013	61 38 013
	+ accessory :	61 3A 083	61 3A 027	61 3A 013	61 3A 013	61 3A 027
400 V *	3P+N+E	61 34 017 *	61 34 017 *	61 34 017 *	61 38 017	61 38 017
	+ accessory :	61 3A 083	61 3A 027	61 3A 013	61 3A 013	61 3A 027

DSN6 63A

Voltage	Polarity	Part Number				
230 V	1P+N+E	61 64 015	61 64 015	61 64 015	61 68 015	61 68 015
	+ accessory :	61 6A 053	61 6A 027	61 6A 013	61 6A 013	61 6A 027
400 V	3P+E	61 64 013	61 64 013	61 64 013	61 68 013	61 68 013
	+ accessory :	61 6A 053	61 6A 027	61 6A 013	61 6A 013	61 6A 027
400 V *	3P+N+E	61 64 017 *	61 64 017 *	61 64 017 *	61 68 017	61 68 017
	+ accessory :	61 6A 053	61 6A 027	61 6A 013	61 6A 013	61 6A 027

\* A dual voltage 230/400V socket-outlet with 3P+N+E accepts a 400 V plug with 3P+N+E or 3P+E as well as a 230 V plug with 1P+N+E

IP67 inlet cap



DSN1 : 61 1A 126  
DSN3 : 61 3A 126  
DSN6 : 61 6A 126

Industrial - Domestic adapters :



Domestic socket-outlet 10/16A 230V  
+ **Marechal** industrial inlet 1 P+N+E  
DSN1 : 61 18 015 D11  
DSN3 : 61 38 015 D11



# Product selection guide



## DXN ATEX DECONTACTOR™ 20A/32A/63A



*“ed” safety for explosive atmospheres*

- IP66/67 automatic watertight as standard (resists high pressure jet washing)
- Comply with the ATEX directives dated 23<sup>rd</sup> March 1994, 99/92/CE
- Can be used in zones 1 and 2 (gas) and zones 21 and 22 (dust)
- Casings made of polyamide (IK 08 impact resistance)
- Ambient temperature (Ta): -40°C to +60°C
- Versions with 2 auxiliaries

Wall mounting socket



Inclined socket



Coupler socket



Plug



Active part:	Socket-outlet	Socket-outlet	Socket-outlet	Inlet
+ installation accessory :	B Wall box	SI Inclined sleeve	H Handle	H Handle

**DXN1 20A**

Voltage	Polarity	Part Number			
230V	1P+N+E	25 14 015	25 14 015	25 14 015	25 18 015
	+ accessory :	25 1A B58	25 1A 757	25 1A 753	25 1A 753
400V	3P+E	25 14 013	25 14 013	25 14 013	25 18 013
	+ accessory :	25 1A B58	25 1A 757	25 1A 753	25 1A 753
400V	3P+N+E	25 14 017	25 14 017	25 14 017	25 18 017
	+ accessory :	25 1A B58	25 1A 757	25 1A 753	25 1A 753

**DXN3 32A**

Voltage	Polarity	Part Number			
230V	1P+N+E	25 34 015	25 34 015	25 34 015	25 38 015
	+ accessory :	25 3A B58	25 3A 757	25 3A 783	25 3A 783
400V	3P+E	25 34 013	25 34 013	25 34 013	25 38 013
	+ accessory :	25 3A B58	25 3A 757	25 3A 783	25 3A 783
400V	3P+N+E	25 34 017	25 34 017	25 34 017	25 38 017
	+ accessory :	25 3A B58	25 3A 757	25 3A 783	25 3A 783

**DXN6 63A**

Voltage	Polarity	Part Number			
230V	1P+N+E	25 64 015	25 64 015	25 64 015	25 68 015
	+ accessory :	25 6A B58	25 6A 757	25 6A 753	25 6A 753
400V	3P+E	25 64 013	25 64 013	25 64 013	25 68 013
	+ accessory :	25 6A B58	25 6A 757	25 6A 753	25 6A 753
400V *	3P+N+E	25 64 017	25 64 017	25 64 017	25 68 017
	+ accessory :	25 6A B58	25 6A 757	25 6A 753	25 6A 753

## *This is more than a plug and socket ....*

The DECONTACTOR™ is a plug and socket with an integral load-break isolating switch. Combining these functions into the same unit makes the deconnector a safe, reliable and compact disconnection device for motors and power supplies, saving you time and cost. **It is the ideal electrical connector for the food and drink industry.**



## *Innovation for safety and flexibility*

For over fifty years, the Marechal deconnector has been known for safety and flexibility. With 7% revenue spent on R&D, we continue to innovate and to offer the products to meet the varying needs of our customers.

**MARECHAL**  
**electric**



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BECMA is an international association manufacturers of butt-contact connectors. It is the only organisation that is able to guarantee that when a plug made by one member manufacturer is mated with a socket made by another complies with the European Low Voltage Directive. BECMA oversees the compliance of mixed plugs and sockets between its members. [www.becma.ch](http://www.becma.ch)