



**hales**<sup>®</sup>  
Suppliers to the Tooling & Plastic Industry

# MOULDING ACCESSORIES





Product Code	Description
PIM1BX10	10 Amp Unit



16 to 48 Zone Mainframes are also available to order. 30 Amp option also available. Modules sold separately.

Product Code	Description
MFFMP2	2 Zone Mainframe
MFFMP3	3 Zone Mainframe
MFx5	5 Zone Mainframe
MFx8	8 Zone Mainframe
MFx12	12 Zone Mainframe



- Simultaneous digital setpoint and digital temperature indication.
- Accepts Type J or Type K thermocouple input (jumper selectable).
- Auto-tuning, with adjustable proportional band and rate.
- Bumpless auto/manual transfer.
- CompuStep bake out feature prevents moisture at start-up.
- Built-in loop break, short, open, and reverse thermocouple protection.
- Optional triac failure protection.
- Preset alarms at 30°F (17°C).
- Jumper-selectable self-start mode.
- Current monitor feature displays average current to load.
- CE-compliant.

Product Code
RMAX15



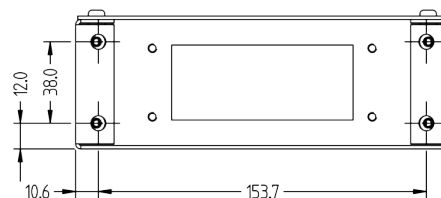
\* Dimension : 193 x 71 x 225mm

No. of Zones	Description	Mastip Code	Power Input	Output Connector	
				Power Connector	TC Connector
1	CIS - 1	79-060-010	230V 1P	1 x 5 Pin Female Single Latch, Power & TC Combination	
2	CIS - 2	79-060-020	230V 1P	2 x 5 Pin Female Single Latch, Power & TC Combination	

### Modular Terminal Mounting Box



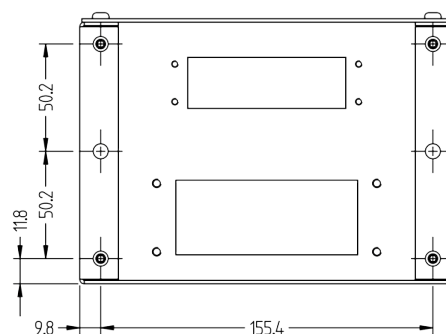
Product Code	Rows	Pin	Box Dimension
79-010-501	1	1 x 5 pin	L175 x W62 x H65
79-010-502	1	2 x 5 pin	
79-010-508	1	1 x 16 pin	
79-010-512	1	1 x 24 pin	

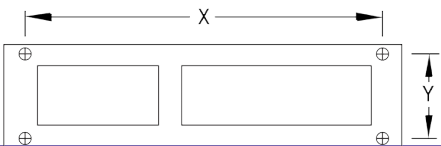


### Modular Terminal Mounting Box



Product Code	Rows	Pin	Box Dimension
79-010-608	2	2 x 16 pin	L175 x W124 x H65
79-010-609	2	1 x 16, 1 x 25 pin	
79-010-612	2	2 x 24 pin	
79-010-613	2	1 x 24, 1 x 25 pin	





Product Code	International Code	Pin	Box Dimension L x W x H	Screw Distance	
				X	Y
79-010-701	PTC5TB	1 x 25, 1 x 10 pin	220 x 70 x 108mm	204mm	38mm
79-010-702	PTC8TC	1 x 25, 1 x 16 pin	240.5 x 70 x 108mm	224.6mm	38mm
79-010-703	PTC12TB	1 x 25, 1 x 24 Pin	267.5 x 70 x 108mm	251.6mm	38mm



Must be used to cover unused zones in main frames.  
Supplied with push-pull panel fasteners.

Product Code
MFBP

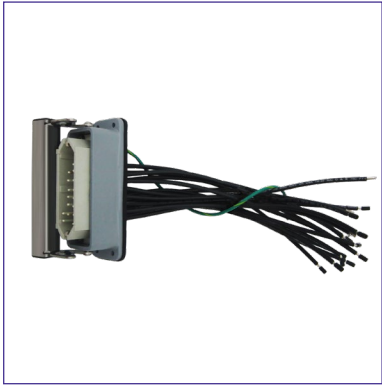


Product Code	Zones
MFS5812	Adjustable for 5, 8 & 12 zone



Thermocouple Connector

Product Code	Description	Zones
MTC5	Mould Thermocouple Connector	5 Zones
MTC8	Mould Thermocouple Connector	8 Zones
MTC12	Mould Thermocouple Connector	12 Zones



Mould Power/Input Connectors

Product Code	Description	Zones
PIC5	Mould Power Connector	5 Zones
PIC8	Mould Power Connector	8 Zones
PIC12	Mould Power Connector	12 Zones



CKPTM1 Cable, Frame End 5-Pin Combo Mold Power/ Thermocouple Connectors

Product Code
CKPTM-1



CKPTOC1 Frame 5-Pin Combo Mould Power/ Thermocouple Connectors

Product Code
CKPTOC-1



CKPTF1 Cable, Mould-End 5-Pin Combo Mold Power/ Thermocouple Connectors

Product Code
CKPTF-1




**CKPTIC1** Mould 5-Pin Combo Mold Power/ Thermocouple Connectors

**Product Code**

CKPTIC-1

**Thermocouple Cables**

Product Code	Zones	Length
TC5C10	5 Zones	10'
TC5C20	5 Zones	20'
TC8C10	8 Zones	10'
TC8C20	8 Zones	20'
TC12C10	12 Zones	10'
TC12C20	12 Zones	20'

**Power Cables**

Product Code	Zones	Length
MPC5C10	5 Zones	10'
MPC5C20	5 Zones	20'
MPC8C10	8 Zones	10'
MPC8C20	8 Zones	20'
MPC12C10	12 Zones	10'
MPC12C20	12 Zones	20'

**Combination Cables**

5 pin combination Thermocouple/Power Cable.

Product Code	Length
MPTC10	10'
MPTC20	20'

**Module Fuses**

Product Code	Amps
ABC10	10
ABC15	15

**Connector Crimps**

Product Code	Amps
HWCC-1	15
HWCC-2	30





### Tool & Die Parts Cleaner

A heavy duty formulation designed to clean injection mould, tools and dies after production runs and prior to commencement of new jobs.

Australian Made

**NEW Packaging coming soon; same great product!**



Product Code	Size
DIE CLEANER	400g Aerosol



### Tool & Die Protector

A heavy duty formulation designed to protect tools, injection moulds and dies from oxidation and rusting during storage in between production runs.

Petrates tools and mould removes moisture from cavities and mould. Leaves a protective film of lubrication oils and a rust preventative coating.

Australian Made

**NEW Packaging coming soon; same great product!**



Product Code	Size
DIE PROTECTOR	400g Aerosol



### Silicone Mould Release

A proven release agent to prevent sticking in mould cavities

Australian Made

**NEW Packaging coming soon; same great product!**



Product Code	Size
SILICONE MOULD RELEASE	300g Aerosol



### Paintable Mould Release

A premium quality release agent which enables plastic parts to be printed, painted, hot stamped, vacuum plated and metalised

Australian Made

**NEW Packaging coming soon; same great product!**



Product Code	Size
PAINTABLE MOULD RELEASE	300g Aerosol



### Food Grade Clear Mould Protect

Anti-corrosion agents provide dismantled dies, moulds and parts with long-term protection against corrosion. This ensures that your mould is always ready for use, maintaining value and efficiency.  
Conforms to NSF guidelines.

Product Code	Size
MPW501FG	500 ml aerosol



### Green Mould Protect

Anti-corrosion agents provide dismantled dies, moulds and parts with long-term protection against corrosion. This ensures that your mould is always ready for use, maintaining value and efficiency

Product Code	Size
MPG 501	500 ml aerosol



### Food Grade Ejector Pin Lubricant

Ejector Pin Lubricant  
Non-soiling lubricants that keep moving parts running smoothly and prevent damage due to breakage and seizing.

Product Code	Size
MLF501FG	500 ml aerosol



### Mould Cleaner Wipes

Mould Cleaner Wipes are specifically developed for cleaning and degreasing of mould surfaces.

- Ultra-low linting non-abrasive wipe
- Leaves no residue

Product Code	Size
WMC80	Tub of 80 wipes





### White Mould Lubricant

Non-soiling lubricants that keep moving parts running smoothly and prevent damage due to breakage and seizing.

Product Code	Size
MLF500FG	500g tub
MLF080FG	80g tube



### Copper Anti-Seize Assembly Compound

Mouldpro Copper Anti-Seize ensures rapid and easy assembly of threaded parts. It allows correct torque to be applied by eliminating thread interference.

Product Code	Size
MCS 500	500g tub
MCS 80	80g tube



### Mould Polish

This superior quality mould polish is perfect for cleaning and polishing steel moulds. It safely and easily removes oxidation, corrosion, stains and rust. It produces a brilliant reflective lustre and leaves an invisible protective coating to ensure a long lasting shine.

Product Code	Size
MCP 80	80g tube



The ultimate PTFE paste for the assembly of injection mould tools, it also provides excellent anti seize on many types of moving parts.

Product Code	Description	Pack Size
PROLON-250	PTFE 901 Paste Prolon	250g Tube
PROLON-500G	PTFE 901 Paste Prolon	500ml Tub
PROLON-20KG	PTFE 901 Paste Prolon	20kg Tub



### Min-Lube™ High Performance Lubricating Grease

Min-Lube grease is designed specifically for lubrication in severe environments as well as food and pharmaceutical related industries. It is a mineral oil base thickened with a proprietary calcium sulfonate complex, and a carefully selected additive package focused on thermal, oxidative, and mechanical stability. It contains Micronox® to provide antimicrobial protection, which is groundbreaking technology that prevents degradation of the lubricant.



### Zap-Ox®

Removes all rust, oxidation, buildup, stains, weld discolouration and more

Product Code	Description	Pack Size
NANO-ZO-16	Zap-Ox Cleaner	475ml Bottle



### Nano Mold Coating®

Releases plastic parts for up to 300,000 cycles, part design dependant. Reduces cycle times, semi permanent.

Product Code
NANO-FG-10ML-KIT



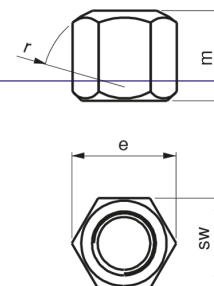
### Food Safe Purging it P&P Cream

P&P Cream™ is specific for the cleaning of screws, cylinders, nozzles, hot runners, extrusion dies, moulds and any metal surface. Removes charred residue, black spots, colored pigments and all left over material deposits, for all thermoplastic and thermosetting. Working temperature between 70°C and 420°C,

Product Code	Size
PURGE	Sachet (Min order 4)

**Hexagon Nut**

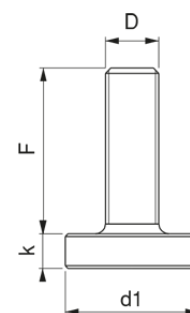
- Hardened
- Black Coating



Product Code	SW	e	m	r	Weight
MC-HN-M12	19 mm	21.9 mm	18 mm	17 mm	25 g
MC-HN-M16	24 mm	27.7 mm	24 mm	22 mm	55 g
MC-HN-M20	30 mm	34.6 mm	30 mm	27 mm	110 g
MC-HN-M24	36 mm	41.5 mm	36 mm	32 mm	190 g

**Clamp Support Bolt**

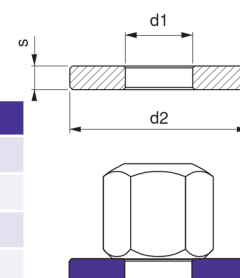
- Black Coating



Product Code	d1	k	Weight
MC-SB-M12x50	36 mm	10 mm	110 g
MC-SB-M16x62	45 mm	13 mm	240 g
MC-SB-M20x62	50 mm	13 mm	320 g
MC-SB-M24x116	50 mm	14 mm	555 g

**Thick Washer**

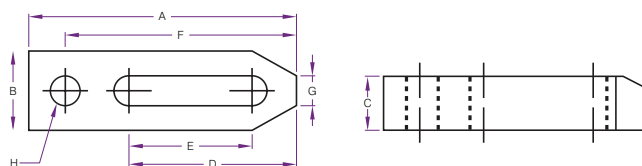
- Hardened
- Black Coating



Product Code	d1	d2	s	Weight
MC-TW-M12	13 mm	35 mm	5 mm	30 g
MC-TW-M16	17 mm	45 mm	6 mm	60 g
MC-TW-M20	21 mm	50 mm	6 mm	70 g
MC-TW-M24	25 mm	60 mm	8 mm	140 g

**Slotted Clamp**

- Black Coating



Product Code	Model	A	B	C	D	E	F	G	H
MC12	M12 x 100mm	100	32	19	71	43	88	13	M12
MC16	M16 x 150mm	150	37	25	100	60	130	17	M16
MC20	M20 x 200mm	200	50	32	114	82	185	21	M20
MC25	M25 x 250mm	250	70	45	157	100	224	27	1"BSW



### Prevent Plastic Parts scattering around with Scatterguard

The patented design contains the ejected parts within the mould area whilst the roller blind action allows a completely unrestricted view of the mould face and allows easy access to the mould.

- Ultra Low Profile Design
- Crystal Clear Mould Screen
- Reduce Scrap by Eliminating Contamination
- Increase Profits
- Ideal for Cleanroom Applications



Product Code	Mould Height	Max. Width
SG-1	20 cm	55 cm
SG-2	30 cm	55 cm
SG-3	40 cm	55 cm
SG-4	50 cm	55 cm
SG-5	60 cm	55 cm



### UniVest®: For Plastic Processors

UniVest® insulation jackets provide a low-cost solution for reducing energy costs, and shortening start-up time between jobs by retaining heat inside barrels, extruders, dies and hoses. This will lower the ambient temperature in your facility, and lower the overhead cost for equipment operations and air conditioning

#### Features

- High temperature strap and buckle fastening system
- PTFE coated exterior
- Withstand temperatures up to 1200°F
- High density ceramic fibre insulation

#### Benefits

- Improves equipment process
- Protects employees and equipment
- No equipment downtime
- Simple and quick installation
- Reduces energy consumption
- 100% Asbestos free.

