



M&R Hydraulics have been providing hydraulic solutions & support services for a multitude of clients' for over 30 years.

### **Emergency repairs**

Our skilled and experienced engineers are available at short notice, 24 hours a day, to provide an on-site emergency hydraulics parts and mobile repair service.

### **Cylinder refurbishment**

We provide a complete re-manufacturing service for hydraulic pistons, rods and cylinder tubes of all makes.

### **Filtration Equipment**

M&R Hydraulics UK stockists, distributors and dedicated service centre for Hy-Pro high performance filtration products.

### **Hoses & components**

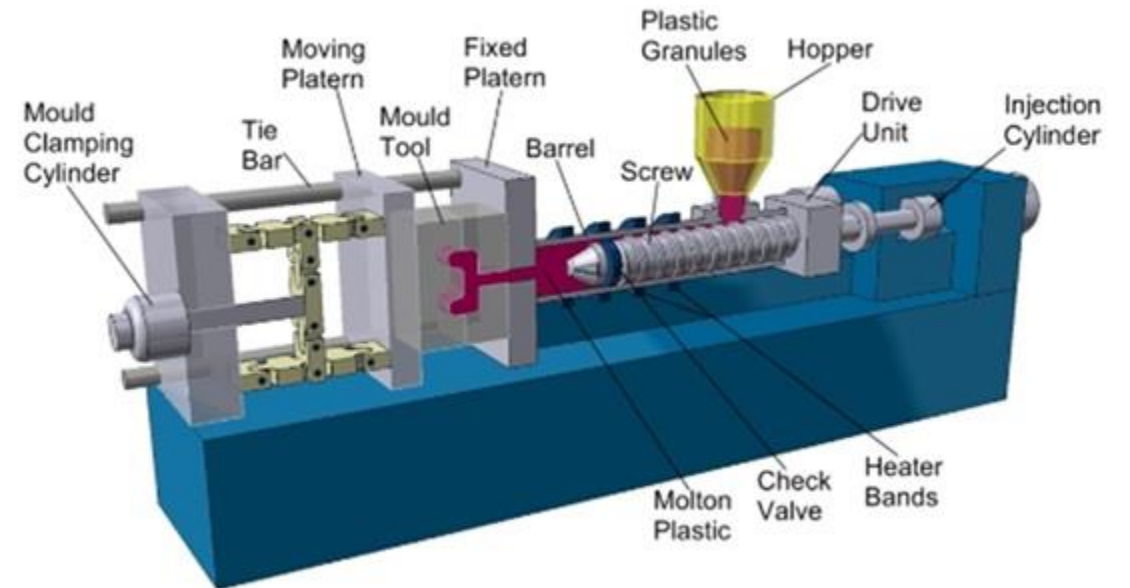
Our warehouse contains over 200,000 components & turnaround schedules that our clients find invaluable.



**HY-PRO**

# Case Studies

## Case Study 1 – Plastic Injection Moulding



HY-PRO

# Case Study 1 – Plastic Injection Moulding Application

## - The Problem



Asked to fit new Hy-Pro Pressure Filter housings on two machines as short lead time alternative another manufacturers long lead time housing, to combat high ISO readings and improve machine reliability.

Expensive housing & element from the manufacturer was on a Long Leadtime.

Possible adverse affects from fitting, as alterations to the designed hydraulic system by adding extra filtration would cause machine issues.

Contamination through installation and alteration of existing pipework.

Room limitations & accessibility based on the machine design.



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The logo for HY-PRO is a blue-bordered rectangle with a white background. The text 'HY-PRO' is written in a bold, black, sans-serif font, centered within the rectangle.

# Case Study 1 – Plastic Injection Moulding Application - The Problem

The customer requested the Pressure Filter to be fitted underneath machine in what space was available.





# Case Study 1 – Plastic Injection Moulding Application - The Solution Offered



Proposed to install Hy-Pro offline filter panel mounted on an bespoke stand adjacent to each machine.

- Challenged to fit in close proximity to the machines
- Install without the need for downtime/machine turnoff
- Provide improved filtration from existing solution
- Provide easy access for new element change
- Improve existing tank breather

The logo for HY-PRO, featuring the text 'HY-PRO' in a bold, black, sans-serif font. The text is centered within a white rectangular area that has a blue border and a blue shadow effect, giving it a three-dimensional appearance.

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# Case Study 1 – Plastic Injection Moulding Application - The Solution

Externally fitted Hy-Pro offline filter panel with 6AB & 3MB filter media providing filtration ratios to beta 4000



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# Case Study 1 – Plastic Injection Moulding Application - The Results



Improvement in oil cleanliness on all counts within two weeks of turn on

## Machine 1

Original ISO code: 21/19/14

Improved ISO code: 17/16/13

## Machine 2

Original ISO code: 19/18/14

Improved ISO code: 18/16/13

## Timings

5 weeks from ordering to installation

Competitors proposed filter 16-20 weeks supply only

## Cost savings

Overall cost savings achieved for the customer was in excess of £10,000 per machine based on the solutions supplied



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The logo consists of the text 'HY-PRO' in a bold, black, sans-serif font, centered within a white rectangular field. This field is enclosed by a double-line border: an inner blue line and an outer white line. The overall shape is a horizontal rectangle with slightly tapered ends.

# Contact Us



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