



**Y-Shield™**  
Safety Helmets

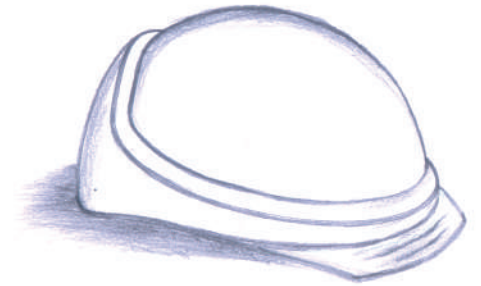
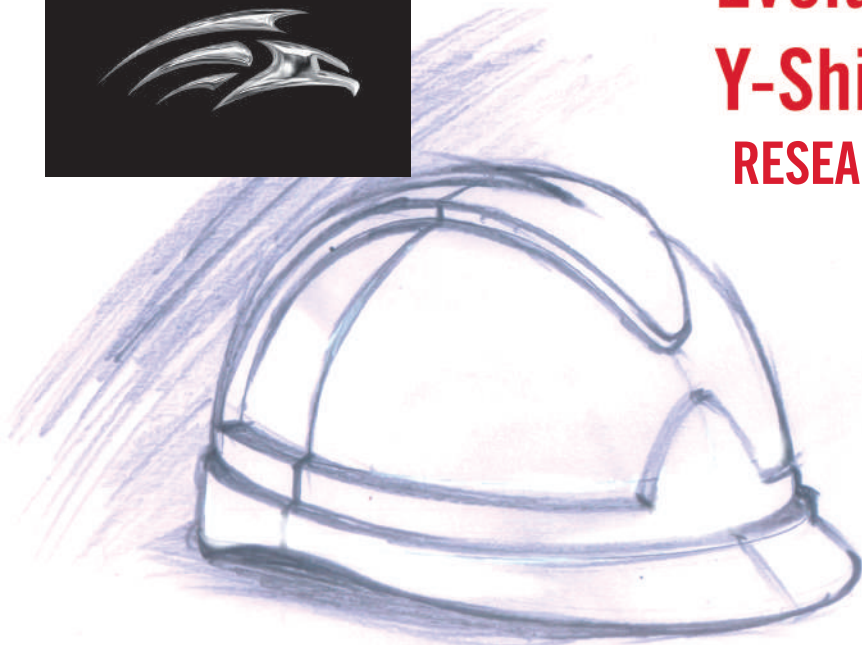
**2017**

**PRODUCT  
PERFORMANCE  
PASSION**

HELMETS



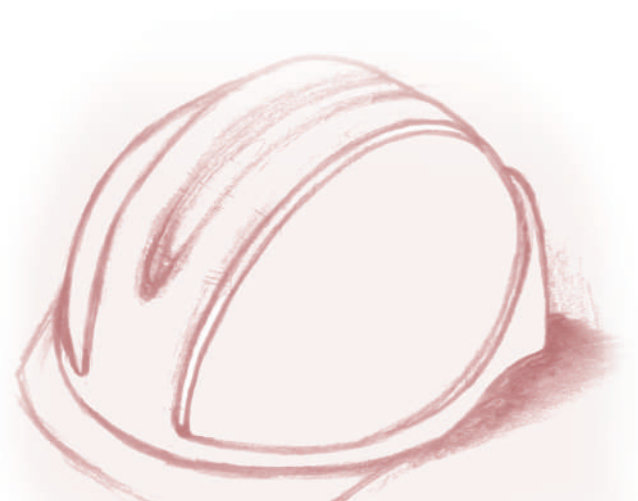
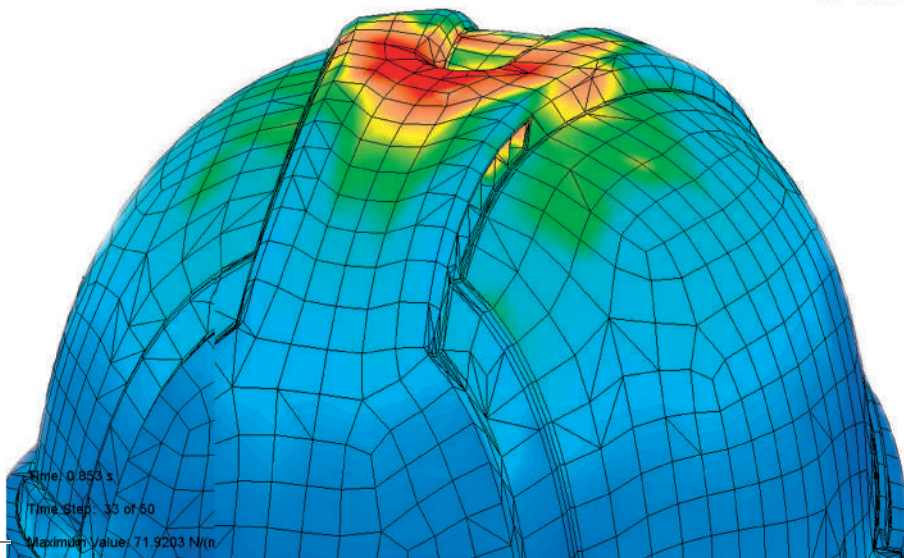
# Evolution of Y-Shield™ Safety Helmet RESEARCH, DESIGN & DEVELOPMENT



## Designed for Performance, Engineered to Excel Setting a new Benchmark in protection

Y-Shield™ product development was done from scratch using high-end design and engineering tools while simulating product manufacturing, end-use criteria & standards based requirements.

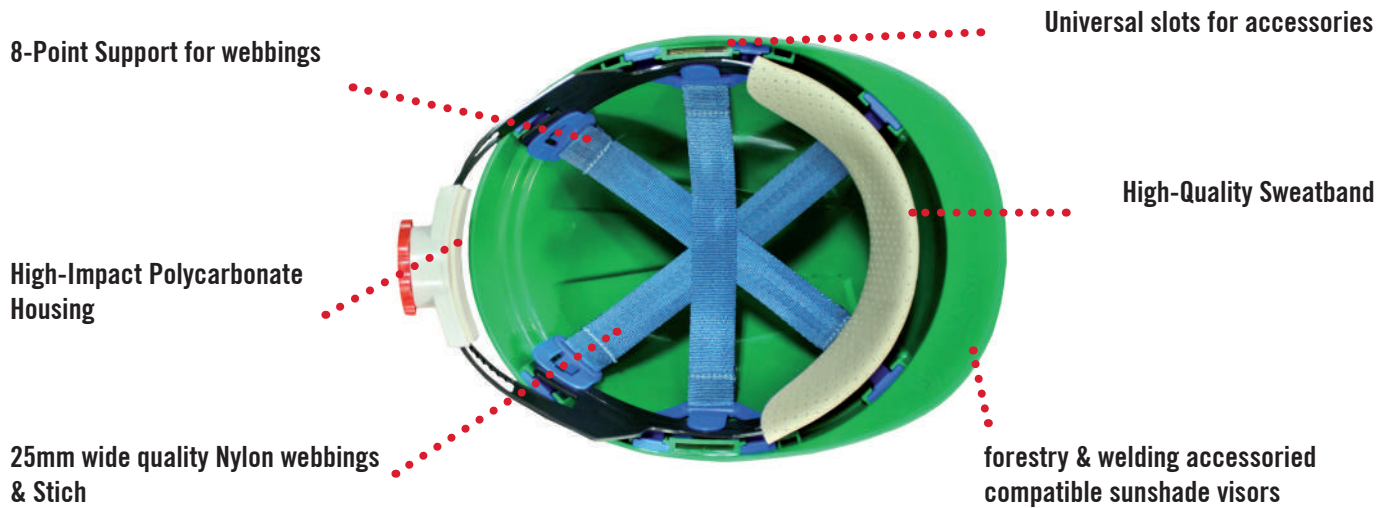
Exhaustive product studies and benchmarking is coupled with customer needs – result is several patented technologies and innovations that benefit the enduser; be it 3D-Adjustment or new mechanisms of faster adjustments, Or be it extensive CAE for simulating impact performance for safety and reliability.





# QUALITY AND DURABILITY

## WITH INDUSTRY LEADING FEATURES



## BRILLIANT FINISH & COLORS

### WITH BEST MATERIALS AND QUALITY TOOLING

High quality products are made available using light weight materials for shell in brilliant, specially formulated colours. Some demanding mechanism parts are made using high-end engineered plastics such as polycarbonate for housing and polyacetal material for some of the gears and locking parts.



## Y-SHIELD™ Product Selection Chart

### PATENT PENDING OFFERINGS COVERING WIDE RANGE OF APPLICATION NEEDS

	<i><b>Direct-S</b></i>	<i><b>Exprss-P</b></i>	<i><b>Orbit-R</b></i>	<b>COLOURS</b>
VENTED TYPE	YS1DS3B	YS1XP5B	YS1OR7B	
NON VENTED	YS0DS3B	YS0XP5B	YS1OR7B	
VENTED TYPE	YS1DS3G	YS1XP5G	YS1OR7G	
NON VENTED	YS0DS3G	YS0XP5G	YS1OR7G	
VENTED TYPE	YS1DS3BW	YS1XP5W	YS1OR7W	
NON VENTED	YS0DS3W	YS0XP5W	YS1OR7W	
VENTED TYPE	YS1DS3Y	YS1XP5Y	YS1OR7Y	
NON VENTED	YS0DS3Y	YS0XP5Y	YS1OR7Y	
VENTED TYPE	YS1DS3R	YS1XP5R	YS1OR7R	
NON VENTED	YS0DS3R	YS0XP5R	YS1OR7R	
				Patent Pending - Automatically adjusts for varying headsizes in realtime & continuous movement. This premium 3D Adjustment System is common to ALL Y-Shield variants.





## Choice of Patented\* Adjustment Systems Choice of Slip ratchet type, push button type & rotary ratchet type

### Drect-S™ Adjustment System

Drect-S is a simple and reliable slip-ratchet mechanism adjustment that makes a very economical solution to a safety helmet sizing and retention needs.

This adjustment system is available in industry standard, light gray colour along with 8-point supported black coloured webbings.

### Xprss-P™ Adjustment System

Xprss-P is a unique push-button operated adjustment that makes extremely fast adjustment possible in a single operation of hands. The adjustment terminal for sizing the helmet headband to user's size is pulled and forms a ratchet with the release mechanism, instantly self-locking itself at the required headsize and tightness.

This adjustment system is available in unique, light blue colour scheme and coupled with 8-point supported and matching coloured webbings.



### Orbit-R™ Adjustment System

Orbit-R is a premium rotary-ratchet system with a precision mechanism for ease of use, reliability & ergonomic enhancements.

It has a 4 way balanced ratchet system operating mechanism, with patented\* design & unique alignment of gear locking arms for a well balanced force in both directions, enabling easy size adjusting movement of headband terminals on both sides.

Further it features a 2-step assembly of housing for reliability and includes an ergonomic, industry first, unique design of 7-point operating lever for adjustment and wrap-around terminals. Additionally, it enhances the usability with a precise movement and unique pitch of each adjustment step.

This adjustment system is available in unique, RAL5019 equivalent "Capri-blue" colour and coupled with 8-point supported and matching coloured webbings.



## Innovative Aesthetics and Styling Patented\* User Centric Helmet Shell Design

Y-Shield products encompass state of the art fluidic design, optimized for not only performance but also ease of use, operation and maintenance. Smooth curves and continuity allow easy cleaning. Even holding and grip has been made for easy handling. The styling features an arch shaped front blended to the rear in Y-shape.

The form of the shell also exhibits peripheral reinforcements that feature stepped styling for exception.

The design of helmet outer shell is such that it not only performs its expected function of impact deflection and distribution, but also uniquely spread the impact deflection and distribution to minimize their effects in the direction of the headform from considerations of a vertical or a directional impact situation. Therefore it aims to perform better the energy absorbing function due to a innovative styling and such features of Y-shaped design in the energy absorbing region of the helmet

## Efficient Ergonomics for Comfort with patent pending REAL-3D headband adjustment for a range of headsizes

Unique, continuous, dynamically adjusting and real-time 3D adjustment for entire range of headsizes without the user having to make any tedious changes.





HELMETS



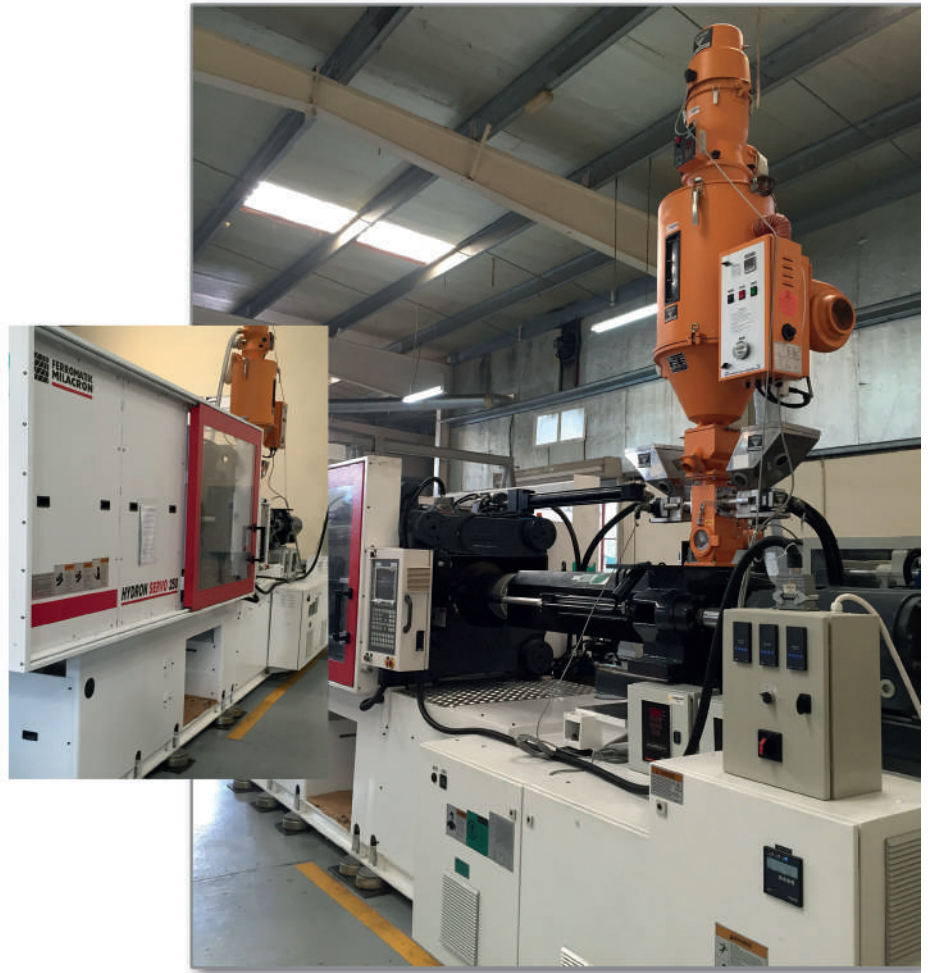
## Manufacturing Quality State of the art facilities

Based on our rich industry experience in PPE, we have introduced safety helmet for head protection. This is manufactured by using the latest technology.

Our expertise in production and in-house capability to test the injury mitigation potential of personal protective equipment, including safety helmets and accessories, according to international standards, ensures that the customers get the best possible and validated products.

We are using the best quality materials, and latest machines to manufacture our products for consistency and assured quality.

Our helmets are frequently checked on a range of parameters under caution of our supervisors and quality engineers. to bring flawless products at the clients end.



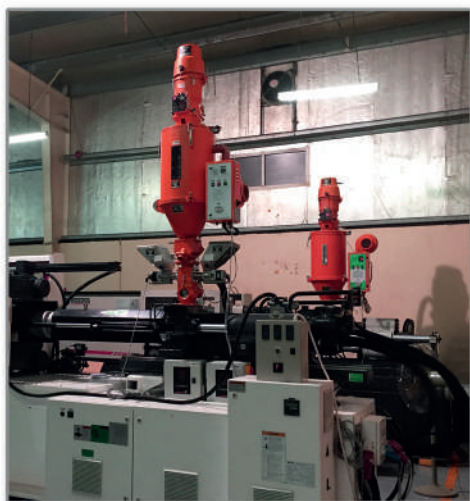
### Perf Helmets Standards

#### European Standard CE

EN 397 Helmets for general use in construction and industry to provide protection to the wearer against falling objects and consequential brain and/or skull fracture.

#### Perf Optional Standards:

- MM Molten Metal - unvented shell only
- -20°C Low Temperature performance
- LD Lateral Deformation
- 440V Electrical insulation - unvented shell only



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PERF OFFICIAL PONSOR OF HONDA LCR





PRODUCT PERFORMANCE PASSION



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