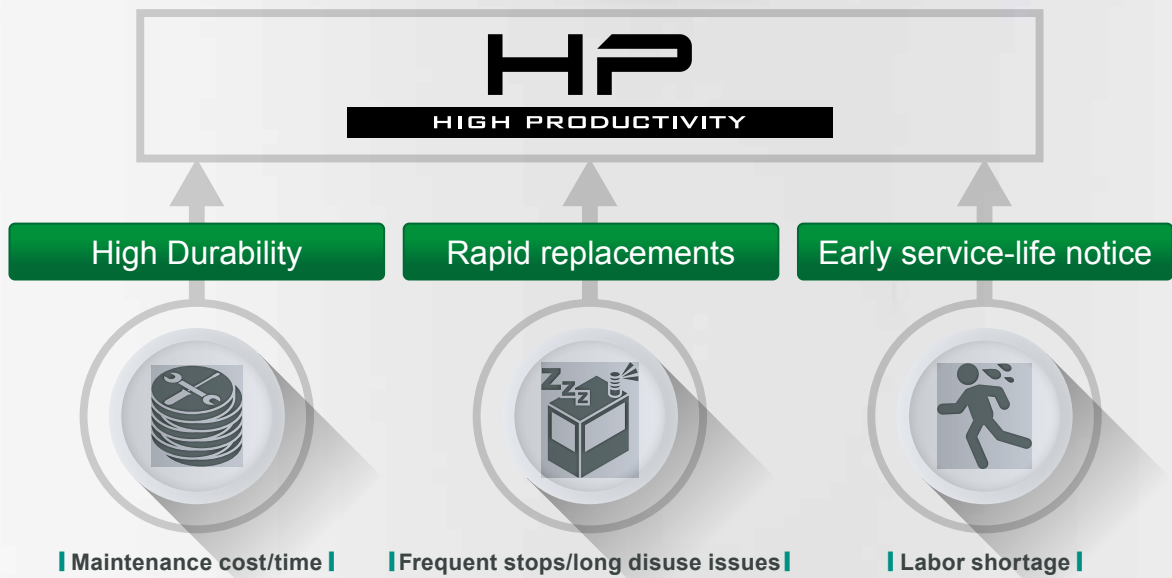


## HP1 Series Long Service Life Cylinder Models/sizes added

The expanded HP1 Series  
contributes to further  
productivity gains.



\* Cho Monodzukuri Innovative parts  
and Components Award



## Long service life cylinder

# HP1 Series

Momentary stops greatly reduced

Number of replacements greatly reduced

Durability count 20 million cycles or more

Under our specified conditions

## Long service life

By optimizing packing design, seal functionality, and adopting grease designed for high frequency use, the product achieved a long service life while maintaining the same dimensions as a conventional product.

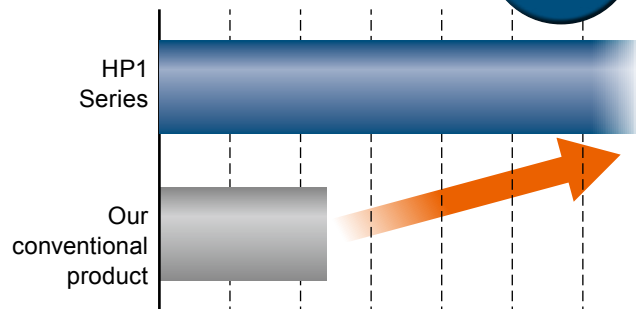
Abrasion-resistant packing due to special compounding

Adoption of grease supporting high-frequency usage

Optimized sealing function



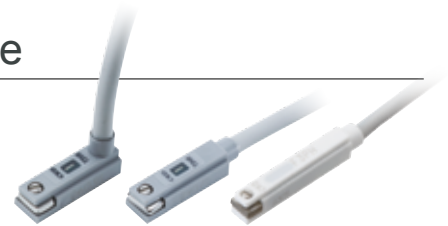
### Operational cycle



Compared with conventional models  
**2X or more**

## Bending resistant lead wire switch is available

A bending resistant lead wire switch that prevents disconnections even when used in moving parts is available. (Switch model No: T2HR3, T2VR3, F type switch)



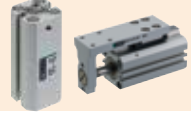




## Same dimensions as conventional products

As it has the same dimensions as conventional products, it can be used as a replacement without changing the design or modifying the equipment.

## Six new models added!



 <p>Round shaped cylinder <b>SCM</b></p>	 <p>Compact direct mounting cylinder <b>MDC2</b></p>	 <p>Small compact cylinder <b>MSD/MSDG-L</b></p>
 <p>Linear slide cylinder <b>LCG</b></p>	 <p>Guided cylinder <b>STM</b></p>	 <p>Twin rod cylinder <b>STR2</b></p>

## Additional bores/stroke lengths



 <p>Pencil shaped cylinder <b>SCPD3</b></p>	 <p>Small bore size cylinder <b>CMK2</b></p>	 <p>Compact cylinder <b>SSD2</b></p>
 <p>Compact cylinder <b>SMG</b></p>	 <p>Linear slide cylinder <b>LCR</b></p>	 <p>Guided cylinder <b>STG</b></p>

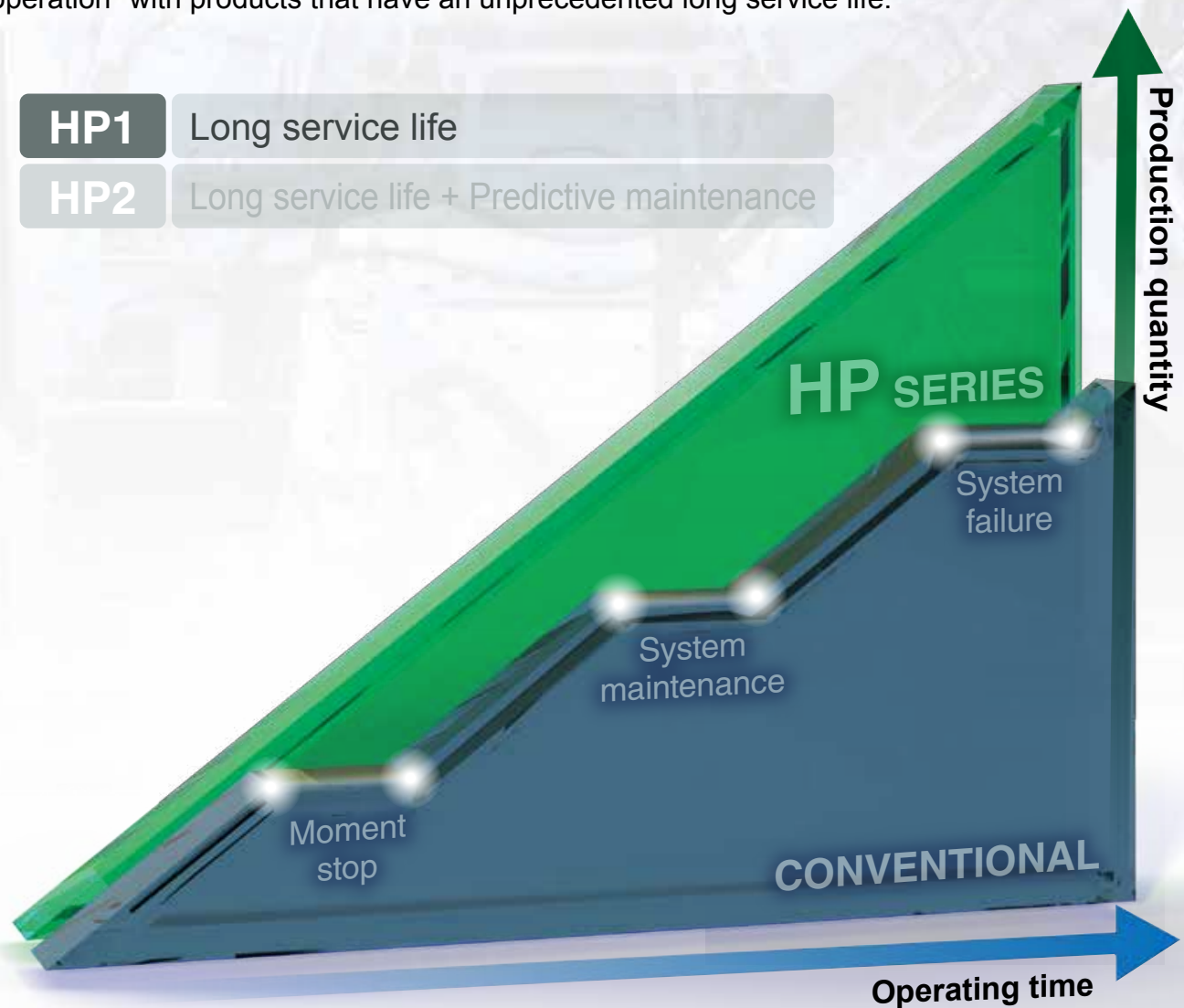


# HP1 Series

## What "HIGH PRODUCTIVITY" means to CKD

If things like production loss due to component failure and unexplained stoppages or maintenance while the line is in operation can be prevented, productivity will improve. CKD's HP Series emphasizes that type of manufacturing, one that originates from the perspective of the components.

To improve productivity in places with high usage frequency and high-stress environments, the series serves to create a "production facility that never stops" and "achieves stable operation" with products that have an unprecedented long service life.



If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require the exporter makes sure that they will never be used for the development or manufacture of weapons for mass destruction.

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