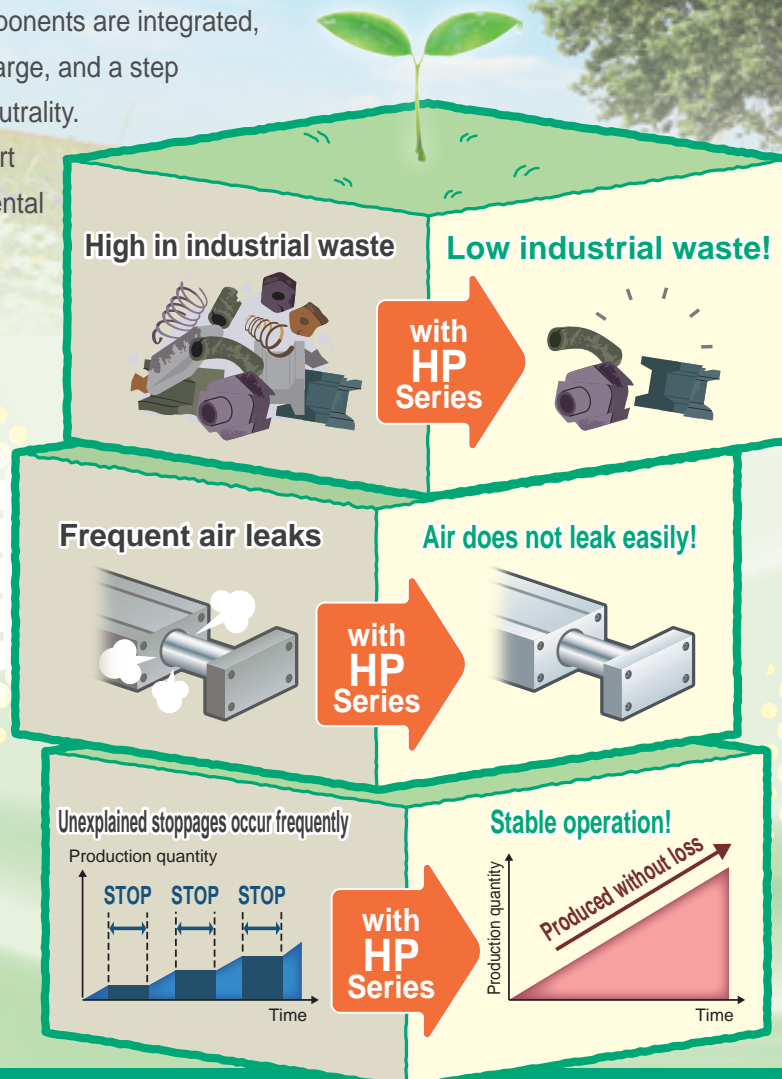


CKD

Why not start with Small Environmental Measures?

One component may have a small effect.
However, when components are integrated,
the effect becomes large, and a step
forward to carbon neutrality.

Would you like to start
with small environmental
measures using the
HP Series?



**Reduces
industrial
waste volume**

**Reduces
air
consumption**

**Reduces
energy wasted
in production
downtime**

Contribute to carbon neutrality with the HP Series!

HP

HIGH PRODUCTIVITY

High-Durability Component "HP Series"



CKD Corporation

CC-1606A

Problem #1

Workpiece gripping error



Play occurs in the finger section, causing erroneous gripping to require frequent stopping of equipment and hand replacement.

With the HP Series

Since the rigidity of the guide is increased significantly, backlash is suppressed for long periods. The number of unexplained stoppages and the number of replacements were greatly reduced.

Momentary stops greatly reduced

Number of replacements greatly reduced

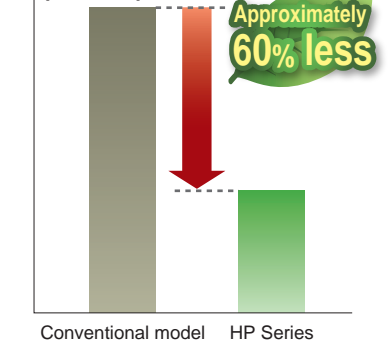
Significant reduction in replacement time

Durability count Over 20 million cycles*

*Subject to CKD prescribed conditions



CO₂ emissions comparison (annual)



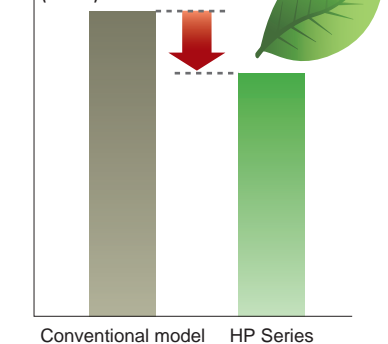
HP

HIGH PRODUCTIVITY

High-Durability Component "HP Series"



CO₂ emissions comparison (annual)



Problem #3

Easily damaged by high frequency operation



Air leakage may occur due to packing wear or lubricant shortage, causing frequent stopping of the equipment and cylinder replacement.

With the HP Series

By adopting grease that supports high frequency usage and optimizing the sealing function, the generation of air leakage is suppressed for long periods of time. The number of unexplained stoppages and the number of replacements were greatly reduced.

Momentary stops greatly reduced

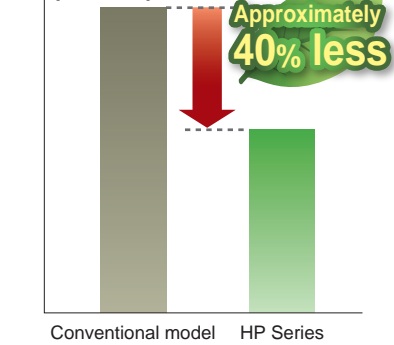
Number of replacements greatly reduced

Durability count Over 20 million cycles*

*Subject to CKD prescribed conditions

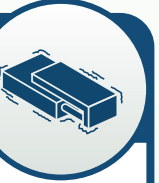


CO₂ emissions comparison (annual)



Problem #2

Motion slows down

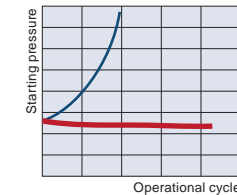


Sliding resistance increases due to packing wear and loss of lubrication, resulting in frequent unexplained stoppages due to delayed operation.

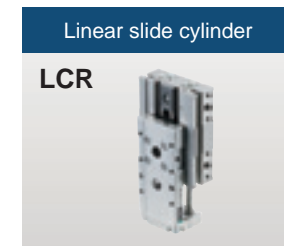
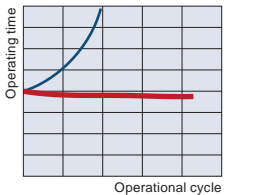
With the HP Series

Since the sliding part is optimized, sliding resistance is stable for long periods and the occurrence of operation delay is suppressed. The number of unexplained stoppages can be greatly reduced.

Change in starting pressure



Change in tact time



Problem #4

Air leakage in dust environments



Abnormal wear of the packing or lubricant shortage due to dust leads to air leakage, and therefore unexplained stoppages and frequent cylinder replacements are necessary.

With the HP Series

Equipped with a powerful dust entry prevention + lubrication holding mechanism, suppressing air leakage for long periods of time. The number of replacements has been greatly reduced.

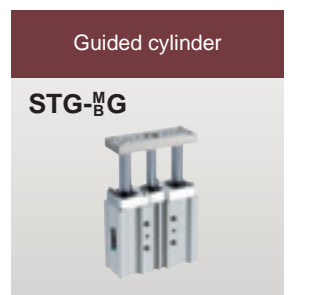
Momentary stops greatly reduced

Number of replacements greatly reduced

Improved environmental resistance

Durability count over 5 million cycles*

*Subject to CKD prescribed conditions



Do you replace the cylinder at the same point several times a year?

Is it replaced more than three times a year?

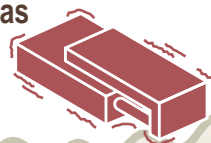
Problem No.1

It often stops due to a gripping error of the workpiece.



Problem No.2

Recently the movement of the cylinder has been getting worse and tact-out has increased



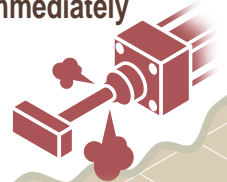
Problem No.3

The cylinder moves at high frequency, so it will break easily



Problem No.4

In dust environments, air leakage occurs immediately and maintenance is difficult.



With the HP Series, the frequency of maintenance is reduced!

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