

# PHL

## Gripping Modules

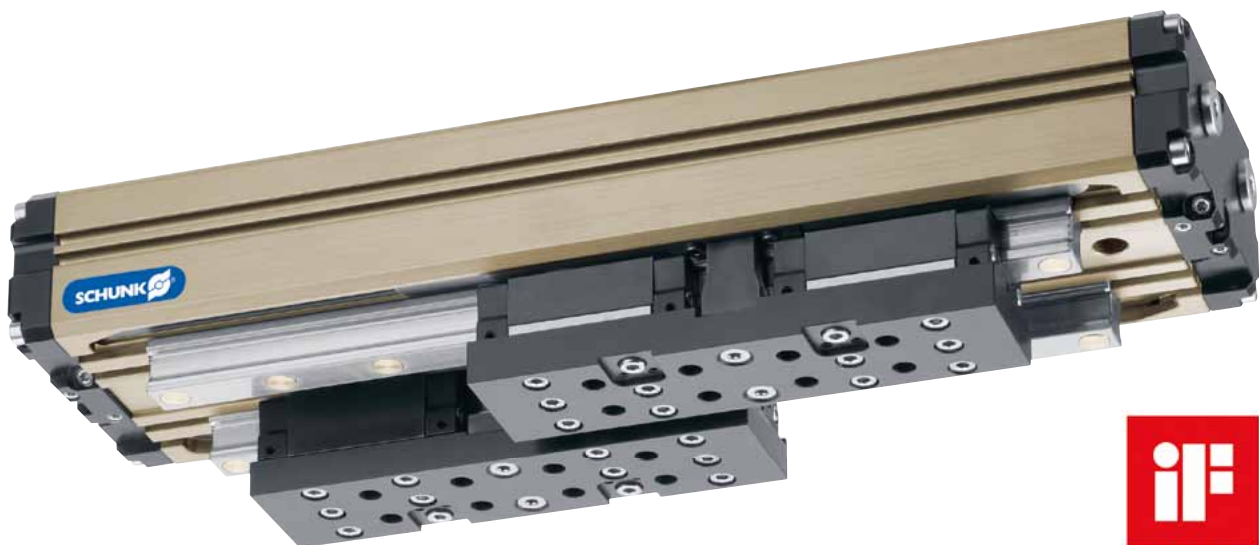
### 2-Finger Long-Stroke Gripper PHL: The new gripper generation

#### Choice of two guidance variants

The PHL is the first long-stroke gripper with the choice between multi-tooth guidance or profile rail guidance, which significantly increases the efficiency of the module. With powerful sliding multi-tooth guidance, the PHL is especially suitable for harsh environments. Profile rail guidance with roller bearings boosts the efficiency by about 25 percent.

#### Less air consumption

The new gripper generation significantly exceeds the performance of conventional long-stroke grippers with T-nuts or round guides. In the future, many applications will therefore be able to use smaller, less expensive and – due to the decreased air consumption – more efficient sizes. Alternatively, longer fingers can be used while maintaining approximately the same gripping force.



**Diversity of variants!**  
More freedom in the process design.

# PHL

## Gripping Modules

New Product

Successor  
product

New Sizes

Sizes 24 and 40 are immediately available – Sizes 32 and 63 are available from August 2012



Sizes  
25 .. 63



Weight  
1.5 kg .. 21 kg



Gripping force  
390 N .. 3250 N



Stroke per finger  
30 mm .. 160 mm



Workpiece weight  
2.0 kg .. 16.6 kg

### Product features

- Modular concept in 90 standardized variants
- Profile rail guidance boosts efficiency by about 25%
- Optionally available as a special sealed Viton version and as a high-temperature version for hot environments with temperatures up to 130 °C

### Your advantage

- Lower system costs due to higher efficiency
- More compact system designs due to higher gripping forces in a smaller space
- More flexible system designs due to longer finger length in a smaller space

### Function cross section

- 1 Base jaws for adaptation
- 2 Housing, weight-reduced
- 3 Multi-tooth guidance
- 4 Kinematics, rack-and-pinion principle
- 5 Protection against dirt and dust
- 6 Sensor for position monitoring

