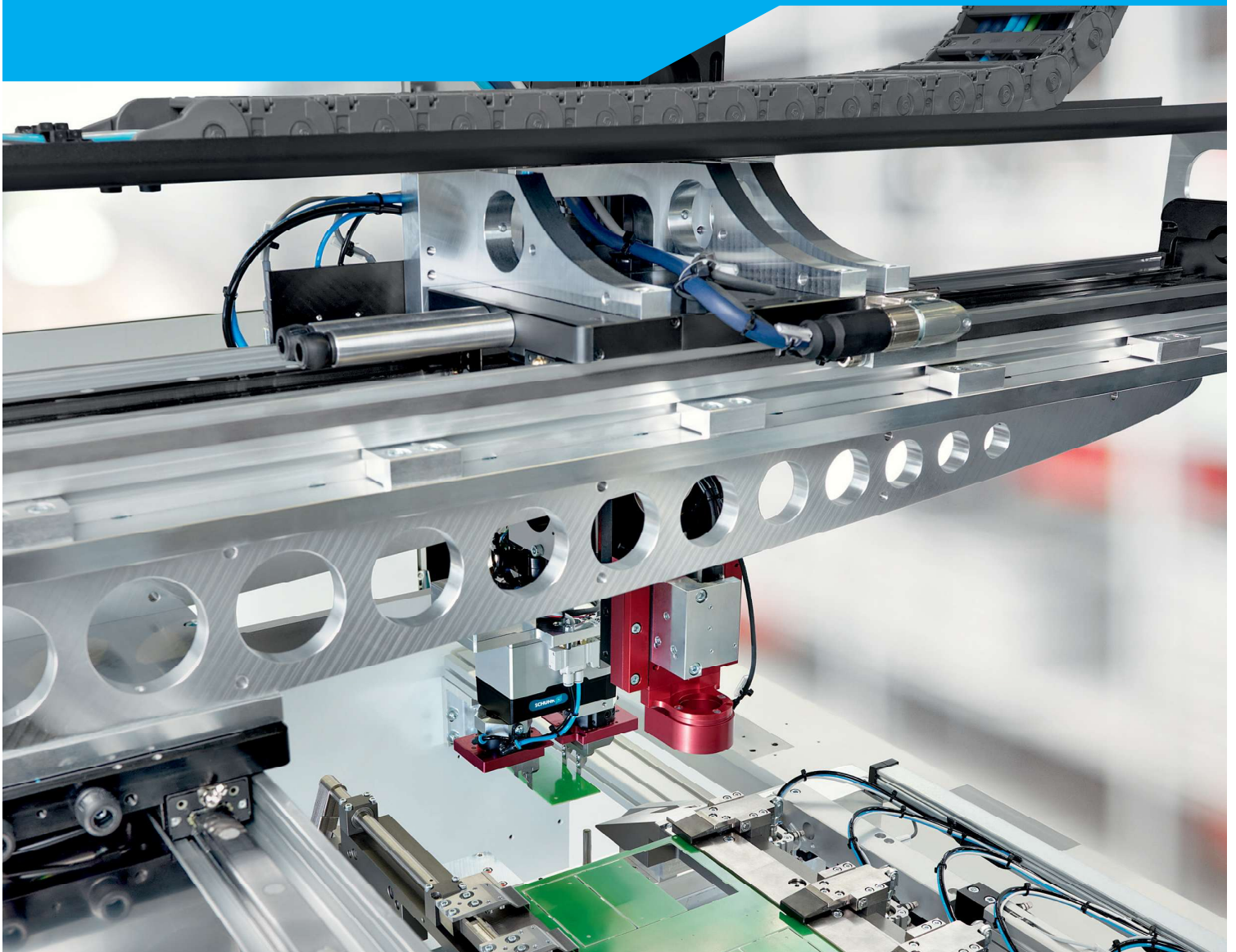


Linear direct axis SLD

Dynamic. Robust. Reliable.

Hand in hand for tomorrow



Linear direct axis SLD

In high-speed assembly, the focus is on precise and fast execution of repetitive processes. SCHUNK offers a compact and integrated solution with the SLD linear direct axis, tailored specifically to your application. This dynamic all-rounder axis meets the highest standards of efficiency and flexibility.

The SLD series was developed as a highly dynamic, multi-functional drive that, due to its modular design, meets the demands for high load capacity and longer service life.

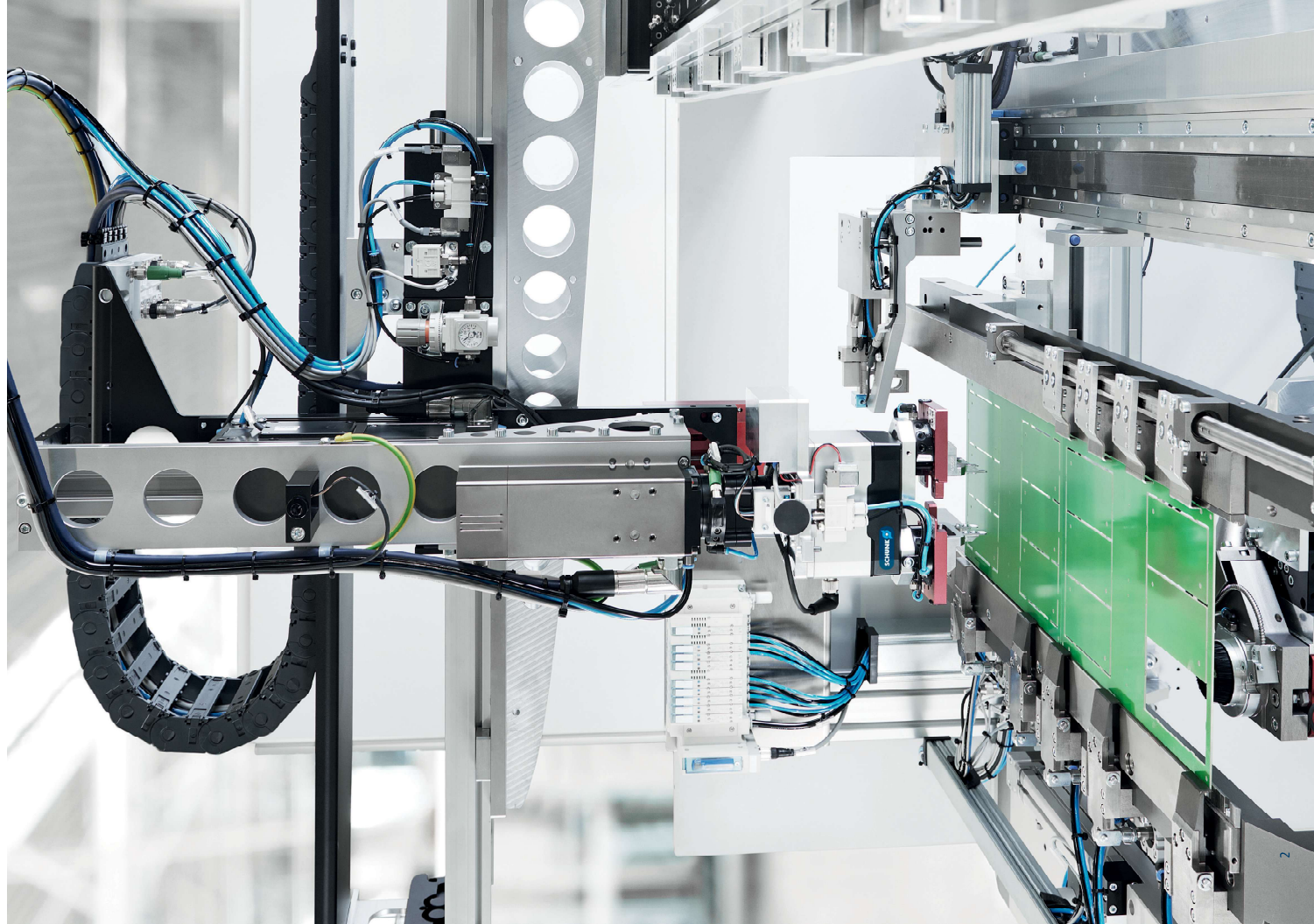
The drives can be used in a variety of applications, such as high-speed workpiece clamping, measurement and control technology, electronics, e-mobility, or the life science sector.



Example of use in the e-mobility sector

With SLD you can create highly flexible applications for fast and precise positioning of cylindrical cells. The dynamic and robust SLD axis assures short cycle times and high positioning accuracy.

Thanks to the use of industrial encoder interfaces, the axis can be integrated into the software environment of different controller manufacturers. In combination with the axis, the RCG magnetic gripper handles the cells. It has a compact design and, depending on the application, is scalable and available in various designs.



Your benefits:

- +** **Duration and reliability,**
almost no components subject to wear
- +** **No mechanical play between drive components** for
flexible response behavior and high positioning
accuracy
- +** **High load ratings** for high bearing load capacity and
service life
- +** **Integrated motor and measuring system** in the axis
minimizes interfering contours and space
requirements
- +** **Can be fitted with absolute stroke measuring system**
Less programming effort and time saving when
commissioning and during operation
- +** **High dynamics for shorter cycle times** assuring high
productivity
- +** **Optional pneumatic safety holding brake as rod lock**
for high requirements on machines and personal safety
- +** **Upon request, certified safety devices according to
SIL2/PLD** for applications with high requirements in the
area of machine safety



Dynamic. Robust. Reliable.



- 1 Aluminum extruded profile**
Flat and weight-optimized
- 2 Pre-loaded profiled rail guide with recirculating
ball-bearing guides** for optimal guidance properties
and speeds
- 3 Integrated secondary parts** with high-power magnets
- 4 Compact primary part slide** with mounting surfaces,
guidance adjusted without play and integrated mea-
suring system
- 5 End plates** with integrated shock absorber elements
- 6 Motor plug**
Position right/left can be selected
- 7 Measuring system plug**
Position right/left can be selected

Operation and options



Construction of the linear direct axis
The SLD linear direct axis consists of a
motor carrier slide with an integrated
primary part and measuring system.
The secondary part, consisting of
permanent magnets, is embedded in
the aluminum extruded profile of the
linear axis.

Cable carrier
Matching cable carriers are available
as accessories for the linear axes
(illustration similar). These are
adapted to the respective effective
stroke and are delivered with
mounting materials and, if needed,
pre-assembled.



Modular encoder system

The linear module is available with
different position measuring
systems. The incremental position
measuring system features the IVSS
interface. The absolute position
measuring systems are optionally
available with the HIPERFACE[®],
HIPERFACE DSL[®], or DRIVE-CLiQ
interfaces. Additional interfaces are
available upon request.

Cover tape

Optionally, the linear module is
available with a cover tape. This
prevents dirt from entering the
inside of the axis and
simultaneously prevents grease
from escaping when the axis is
mounted horizontally or vertically.



Pneumatic holding brake

Optionally, the linear module is
available with a safety holding
brake. This holding brake is
pneumatically actuated. Its function
is activated when unpressurized.



UL certification

The motor of the linear direct axis is
UL-certified as standard. The UL
safety certification mark facilitates
quick market access to North
America and other countries.



SCHUNK SE & Co. KG

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Greiftechnik

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