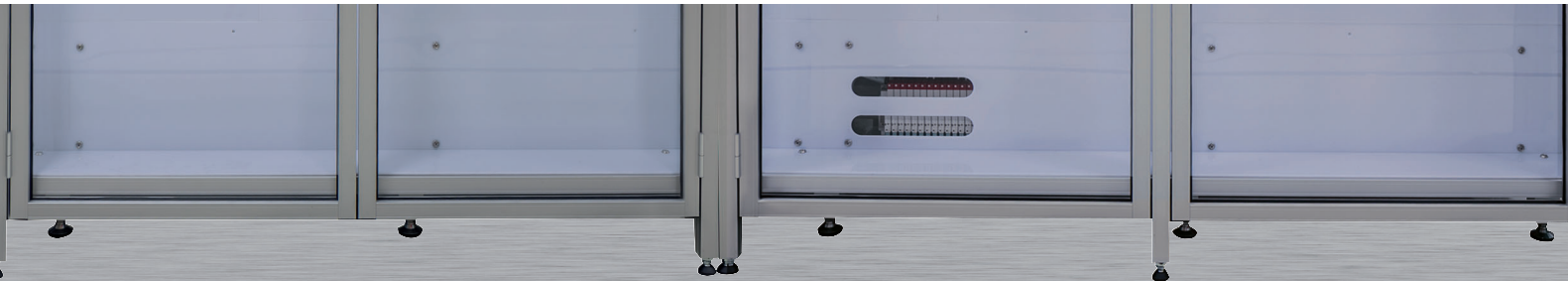
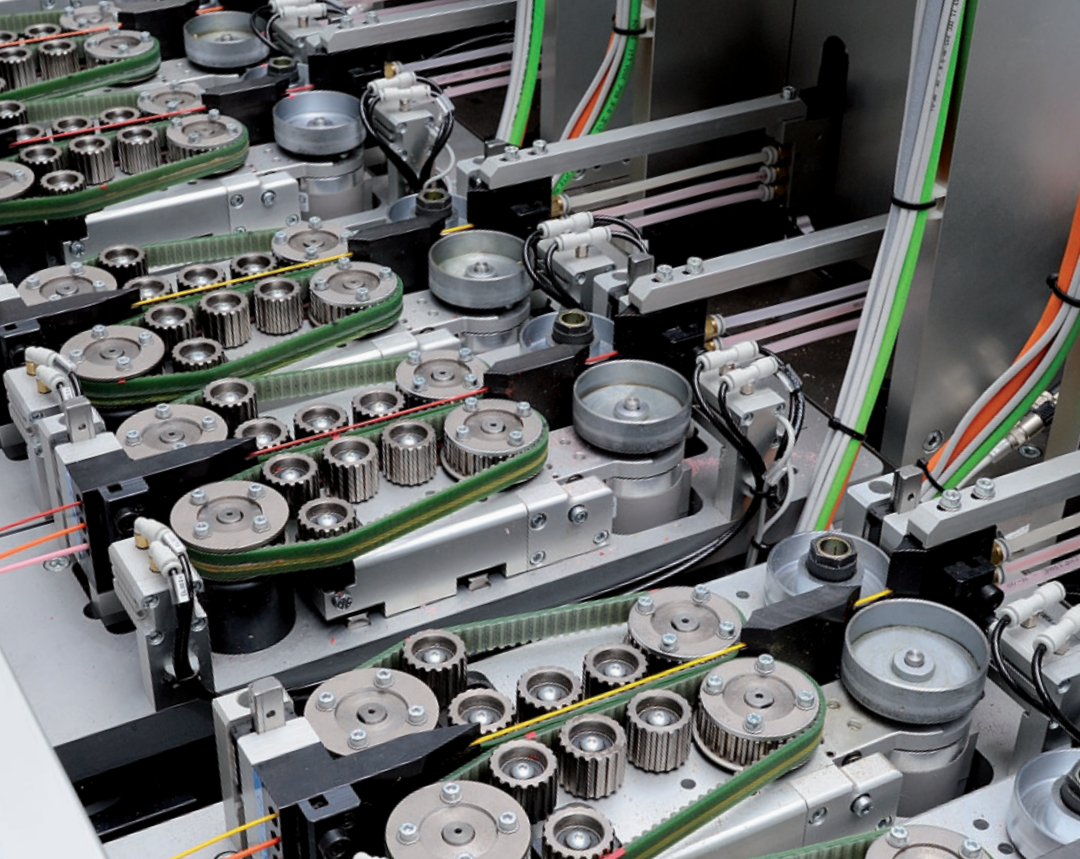




VARICON 7000

Fully Automatic Machines for IDT Termination of RAST Connectors 
passion for connections







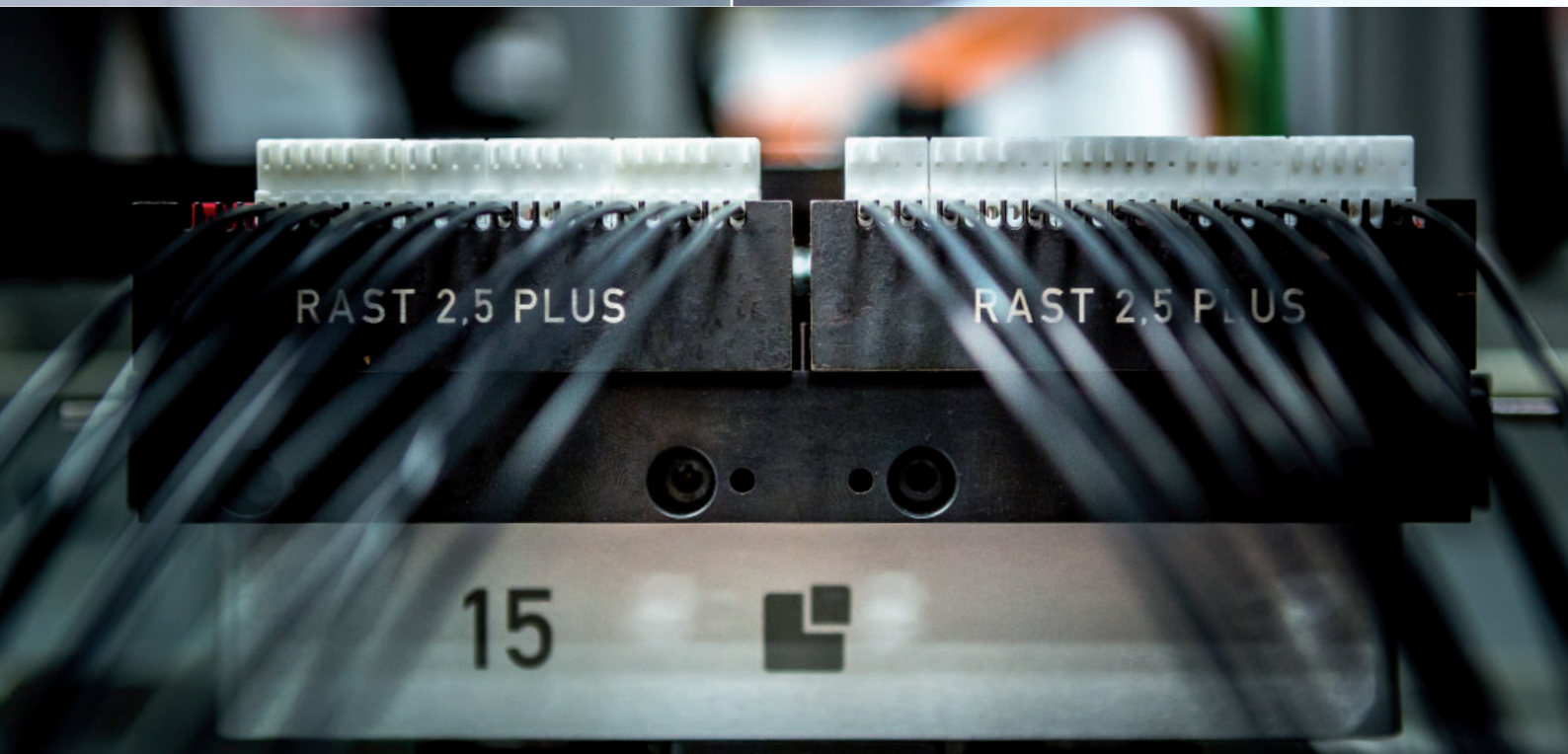
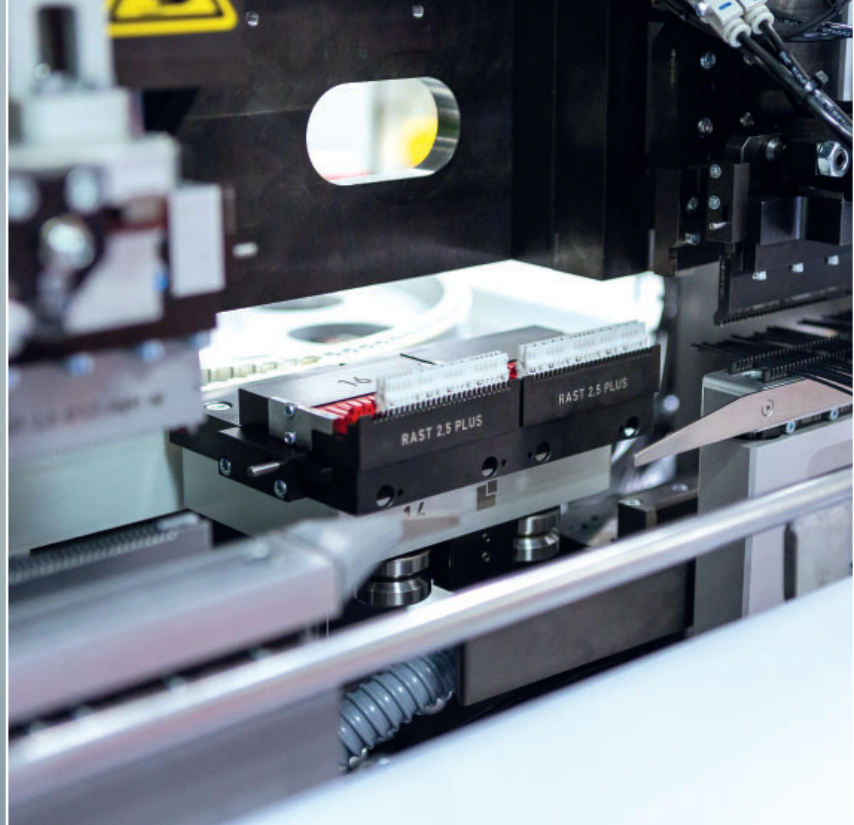
Key Technologies

The Highly Efficient VARICON Series from Lumberg

For the RAST and Micromodul connector series, the profitability for the OEM lies in particular in the special cable processing method offered solely by insulation displacement technology (IDT). For this reason, Lumberg not only develops, produces and markets these IDT connectors, but also the VARICON series of fully automatic harnessing machines that are particularly cost-effective for cable harness assembly. The Series 1000 processes all Micromodul connectors in IDT, the Series 7000 all RAST products.

The vast proliferation of RAST connectors – whether pitch 2.5 or 5 mm – is resulting in an increasing variety of complex cable harness configurations. At the same time, the requirements for flexibility and quality-assured fully automatic machines are increasing. To meet these requirements, Lumberg builds the high-precision VARICON series itself and continues to develop it permanently. With a flexible and individual modular system, different cable harness configurations and volumes can now be matched.

“Made in Germany” by Lumberg.



Job Example

RAST 2.5 Jumper Cable, 1.000 mm

	VARICON 7000-RD	VARICON 7000-Eco	VARICON 7000-Inline	VARICON 7000-Unica
Cycle time [seconds/cable]	0.50	0.80	0.80	1.00
Stroke capacity [cables/hour]	ca 7,200	ca 4,500	ca 4,500	ca 3,600
Operation time	7 hours/shift, 15 shifts/week, 48 weeks/year			
Efficiency factor	90 %			
Capacity utilization	75 %			
Output [cables/year]	ca 27.9 Million	ca 18.1 Million	ca 18.1 Million	ca 14.5 Million
Output [contacts/year]	ca 55.8 Million	ca 36.2 Million	ca 36.2 Million	ca 29.0 Million

The given figures represent a best-case configuration.

Produce Fast and Efficiently

- impressively high output
- extremely short changeover times
- modular configuration according to customers' specifications
- integrated 100 % testing stations according to customers' specifications

Series 97

Fully automatic harnessing machine

The complete application tooling equipment for insulation displacement technology (IDT) connector systems, for high volume production.

Required state of delivery of connectors

Processable conductor

Stroke capacity

Specifications

Additional specifications



VARICON 7000-RD · ...-CR*



VARICON 7000-Eco · ...-CR*



VARICON 7000-Inline · ...-CR*

Versatile, fully automatic harnessing machine for termination of RAST connectors, for flexible harness configurations

RAST 2.5 (351..., 352..., 354...)

RAST 2.5 plus™ (352...00)

RAST 2.5 Power (357...)

RAST 2.5 Power plus™ (357...00)

RAST 5 (362..., 363...)

in chain (354... in bar stock carrier)

discrete conductor, twisted pair wires on request

ca 14,400 contacts per hour

ca 9,000 contacts per hour

ca 9,000 contacts per hour

2 different RAST systems loadable in parallel (3 optional), loading modules exchangeable

1 RAST system loadable (changeable module)

Detaching of connectors and cutting of RAST keyings

Number of cable barrels that can be mounted in parallel

12

6

6

Number of parallel loadable cables (6 different types, sections, colors)

4

2

2

1-to-n (U-type) and 1-to-1 (Z-type) harnesses

Crossed cables, bridged contacts and varying pitches in one harness

Possible cable lengths (lengths down to 30 mm and up to 4,000 mm possible on request)

60–3,000 mm

60–3,000 mm

60–3,000 mm

Various cable lengths possible within one harness

Mechanical testing units including RAST keying and cable position tests

Electrical testing units, including continuity, high-voltage/short-circuit tests

Scrap cutting station for faulty harnesses

Cable bending unit for RAST 2.5 Power, RAST 2.5 Power plus™ and RAST 5

Produced harnesses hanging straight or in loop for manual unloading. Packaging station possible on request.

*-CR

- Termination of crimp contacts as specified by customer
- Up to 3 crimping stations possible
- With crimp force analyzer
- Double crimp possible
- Block loader station optionally



VARICON 7000-DC · ...-CR*



VARICON 7000-Unica-...

RAST 2.5 (351..., 352..., 354...)

RAST 2.5 (351..., 352...)

RAST 2.5 Power (357...)

RAST 5 (362...)

ca 7,200 contacts per hour

ca 7,200 contacts per hour

1 RAST system loadable

6

6

8

2

Jumper: 250–3,000 mm
Daisy Chain: 315–2,000 mm

60–1.500 mm

- Daisy chain harnesses with up to 6 connectors per cable
- Common harnesses also possible



VARICON 1000-Eco

Fully automatic harnessing machine for termination of Micromodul™ connectors

302299

MICA

MICAL

MICALD

in reel, in bar stock carrier

ribbon cable

ca 800 harnesses per hour

2 feeder modules incl., additional ones optional

Processing modules for mass termination

Test station for color detection

Type U, type Z, hybrid

Possible cable lengths 35–1,000 mm

Mechanical testing units for cable position detection

Electrical testing units

Scrap cutting station for faulty harnesses

Produced harnesses for manual unloading

