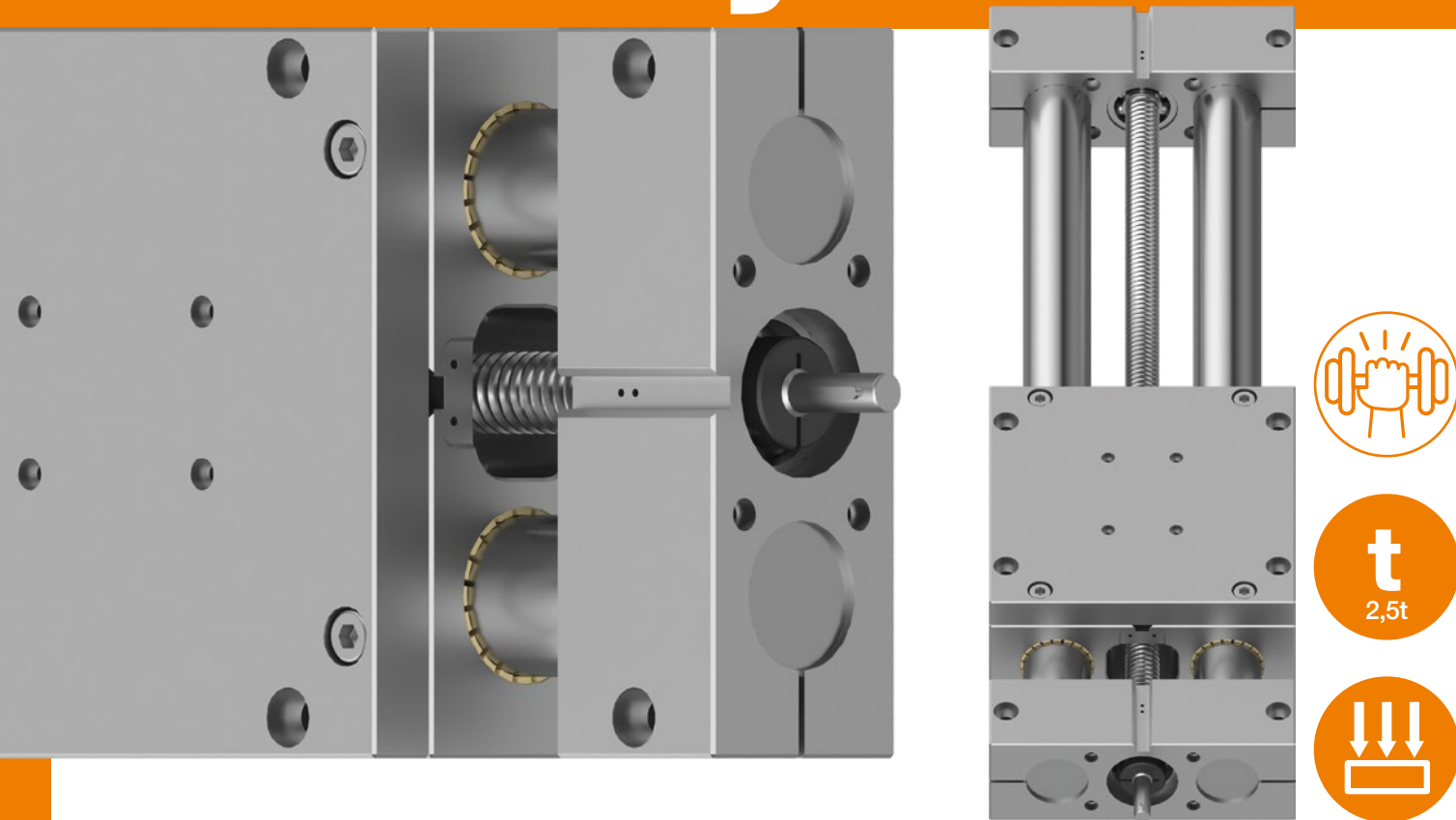


Heavy-duty linear systems



New #heavyduty

Three times higher ... loads ... stiffness ... dynamics

drylin® SLR – new standard for linear systems

New modular design for fast assembly and flexible constructions. Optimised design for easy installation, many combination options and space-saving accessory connection.

- ▲ Simple alignment via dowel pins, without additional bottom clamps
- ▼ Limit switches directly on the shaft end support (no additional spacers required)
- Higher rigidity with the same installation space: SLR-40 compared to SHT-30
- Optional: split lead screw nut for ease of change
- 🔗 Linear module predictable online: igus.eu/ddx



New series enables great flexibility with high stability

SLR – robust lead screw axes in new larger sizes

Two guide shafts, an internal lead screw as drive, shaft end supports and carriages made of aluminium have characterised the linear modules of the SHT range for many years. Customers appreciate the modularity of the configuration. And this is exactly what we want to expand in three new sizes in the new SLR line. A higher load capacity combined with a robust design that offers added rigidity. These new "heavy duty" linear modules offer a new space-saving design in combination with the smooth-running dryspin® lead screw technology. Shaft end supports and carriages offer a wide range of connection options without additional components, e.g. spacers. The carriages

also prove to be a construction miracle, which brings us back to the extended modularity of the system. This is because with the SLR, multi-carriage systems with or without opposite drive, XY and XZ configurations are possible in addition to the stand with individual carriages. The carriages also offer a technical innovation with the removable lead screw nut, which makes it possible to carry out the change without dismantling. With the larger installation sizes 40 and 50 and the installation size 60, which will be available from autumn, we are fulfilling many customer requests to develop solid, strong, absolutely lubrication-free systems for both manual and electric operation.

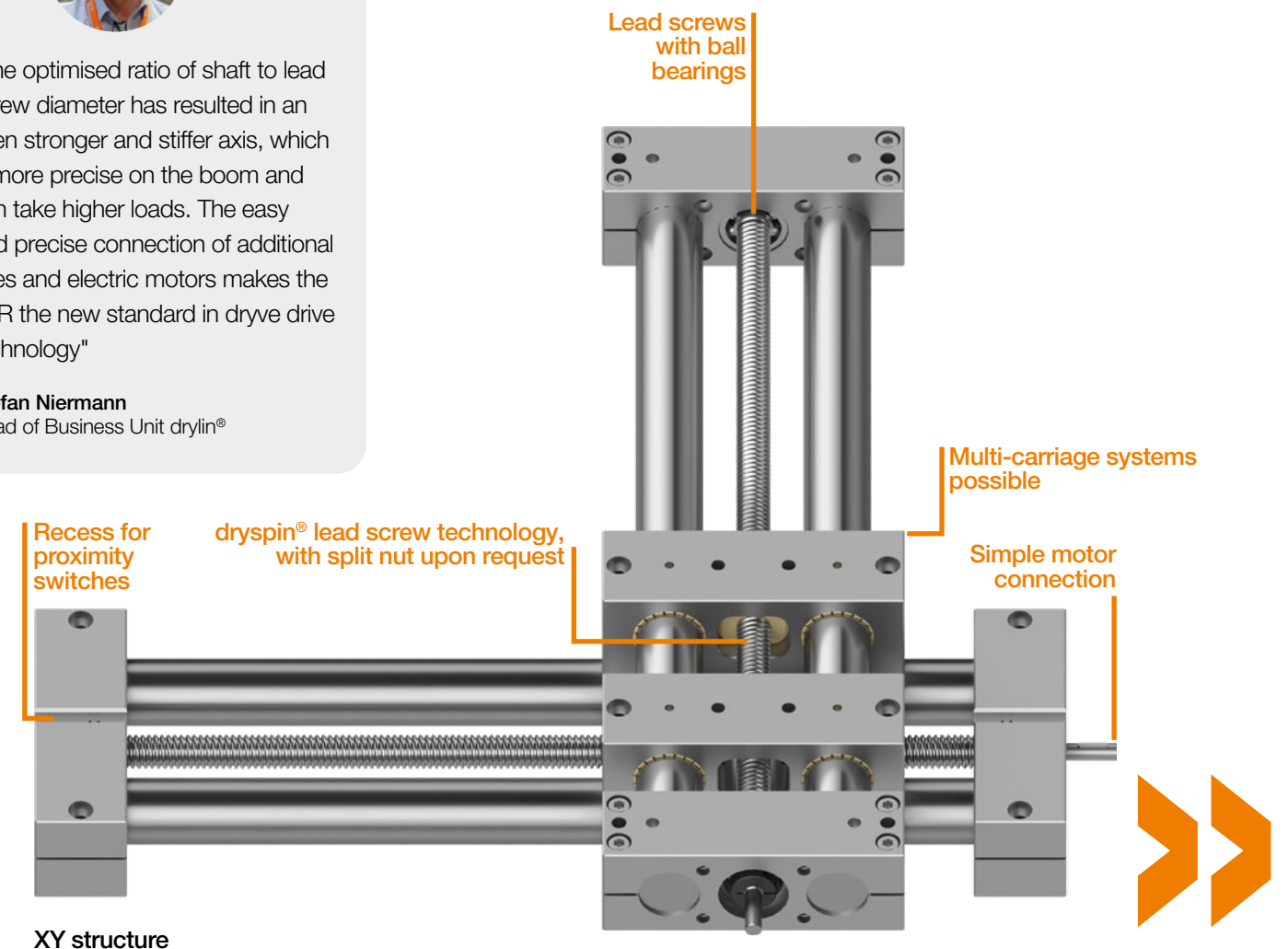
- Ball bearing system for high loads
- All EC/stepper gearbox combinations possible
- Limit switches directly on the shaft end support (no additional spacers required)
- Split lead screw nut for ease of change
- Carriages and shaft end supports have holders for centring sleeves (for connecting angled loads)
- Lead screw end with feather key groove for reliable torque transmission
- Higher rigidity with the same installation space: SLR-40 compared to SHT-30

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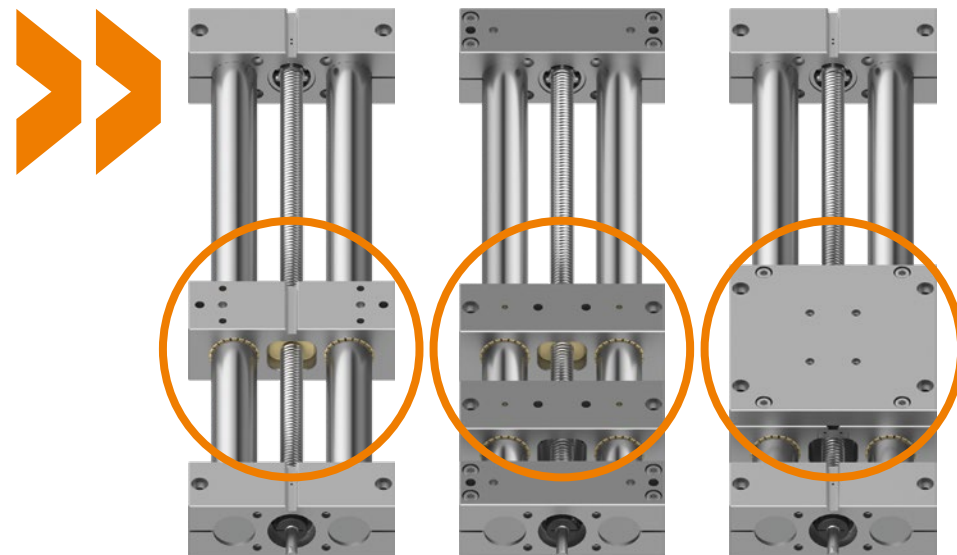
"The optimised ratio of shaft to lead screw diameter has resulted in an even stronger and stiffer axis, which is more precise on the boom and can take higher loads. The easy and precise connection of additional axes and electric motors makes the SLR the new standard in dryve drive technology"

Stefan Niermann
Head of Business Unit drylin®



New series enables great flexibility with high stability

Wide range of possible combinations



SLR with single carriage incl. split lead screw nut for quick replacement without disassembly

SLR as a multi-carriage system with a flexibly adjustable second (or additional) carriage

SLR with a ready-to-install assembly carriage with a wide support surface

Reduce assembly work

Instead of time-consuming assembly of accessories such as angle plates and initiator kits, XY and XZ set-ups can be implemented quickly and in a space-saving manner using dowel pins in the carriage plates and recesses for proximity switches. Customised carriage lengths can be achieved by using several shaft end supports and mounting plates.

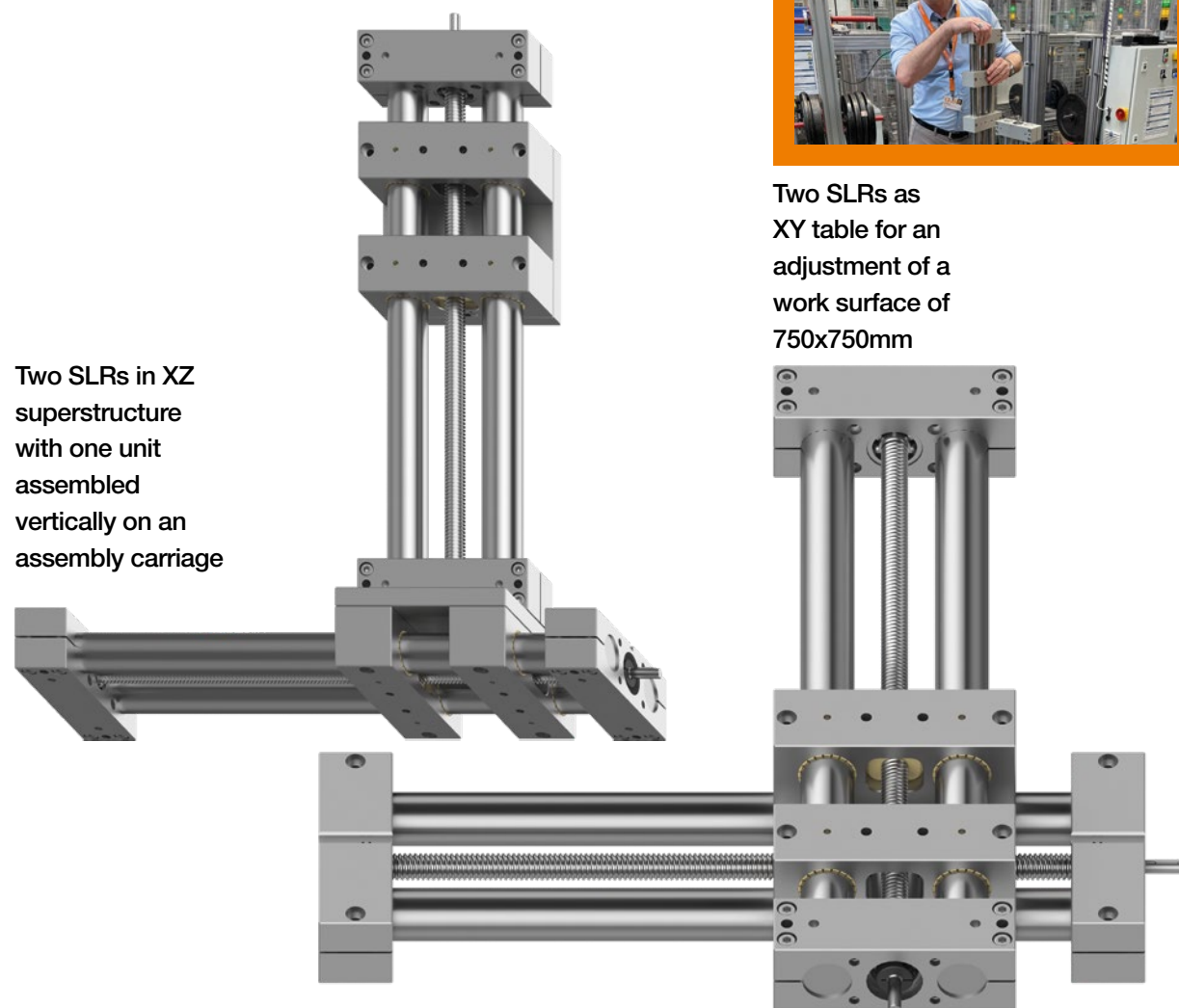
Strong!

Max. static load capacity
SLR-40/SLR-50/SLR-60
Axial 2.500/4.000/6.250N
Radial 10.000/16.000/25.000N



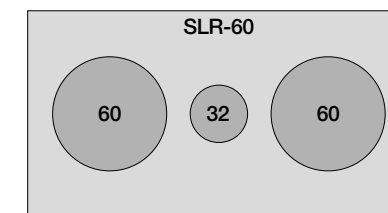
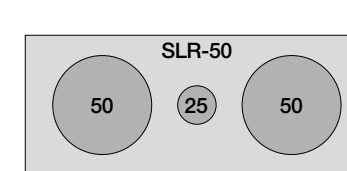
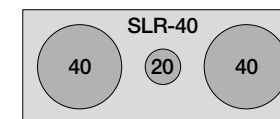
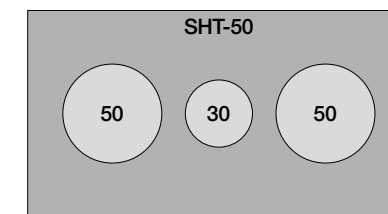
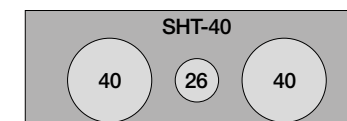
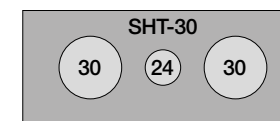
Two SLRs as XY table for an adjustment of a work surface of 750x750mm

Two SLRs in XZ superstructure with one unit assembled vertically on an assembly carriage



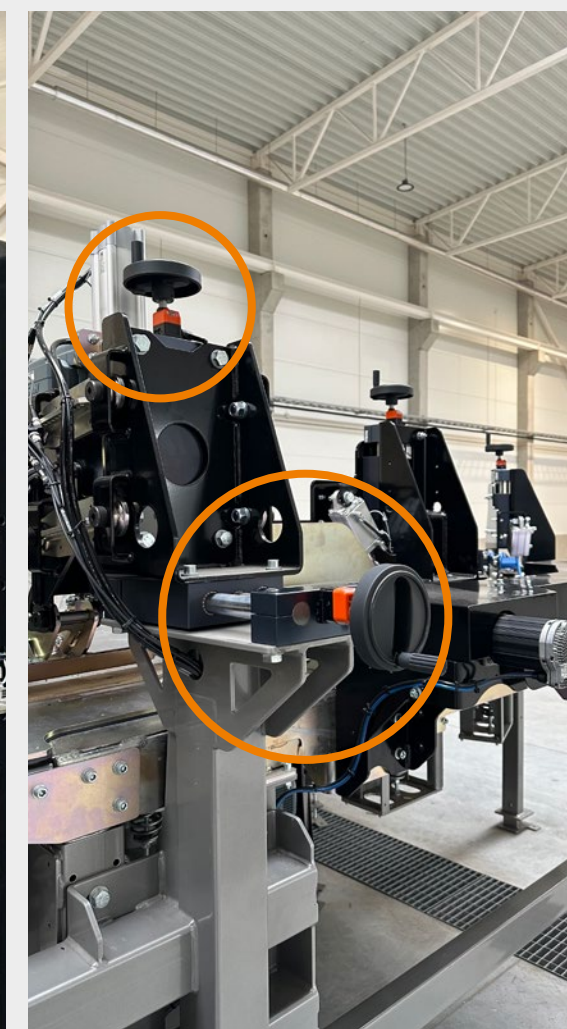
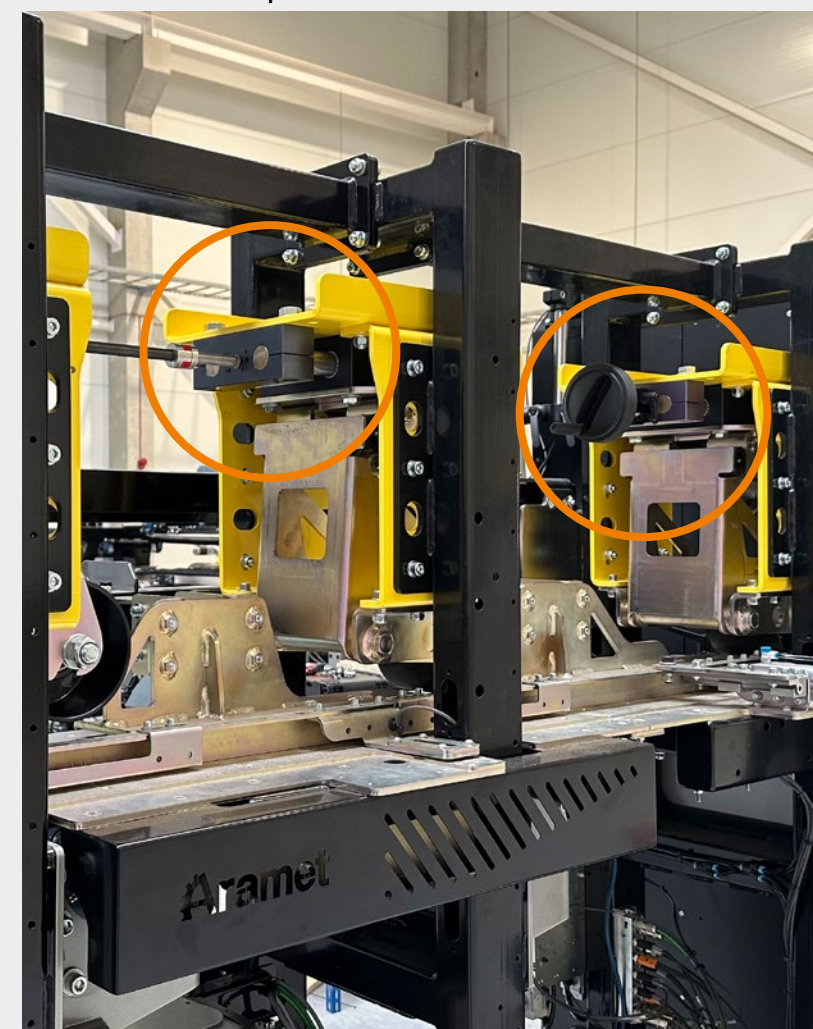
New series enables great flexibility with high stability

System comparison SHT vs. SLR



Stronger design with the same exterior dimensions due to optimised ratio of shafts and lead screw

Linear modules with position indicator and hand wheel



In a woodworking project, Aramet used the maintenance-free and dust-resistant drylin® linear modules from igus® to improve the technology. Aramet developed the VSS200 – Vertical Seam Sizing Line, a fully automated production line. This line picks up blocks of wood from the carousel, separates, sorts and stacks them according to quality and feeds them into the downstream wedge sinking system. A quality scanner with machine learning and artificial intelligence determines the quality of the logs based on the annual rings and screws or blows them into position depending on the findings. The system works with different log sizes and guarantees short set-up times thanks to automatic servomotors. Productivity is up to 200 strains/min (3.3 strains/s).

GO ZERO lubrication

igus.eu/news-drylin-drive

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