LUCHS

WELDING ROBOT & AUTOMATION

PRODUCT CATALOG

POSITIONER
GANTRY
SLIDER
PILLAR
MOTION SYSTEMS

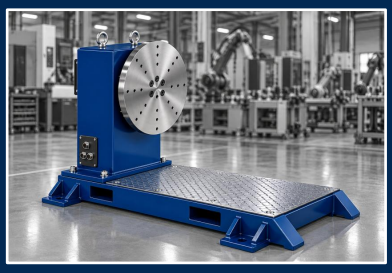


STANDARD PRODUCTS

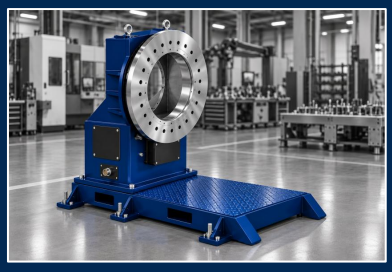
RELIABLE | MODULAR | HIGH PRECISION

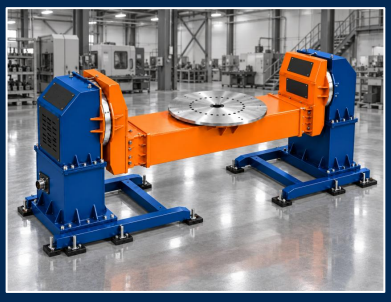
ACT KAYNAK

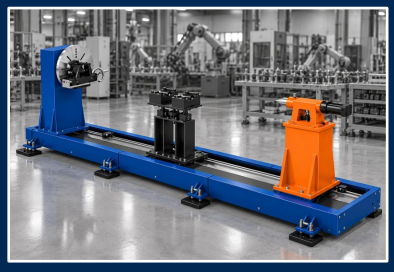
POSITIONER RANGE
















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RP SERIES – Single Axis Horizontal Positioner

APPLICATIONS

Robotic welding • Heavy machinery manufacturing • Tank and boiler production • Energy equipment • Assembly and fixturing



Technical Features

- Payload options from 500 to 10,000 kg
- Single-axis horizontal rotary table
- Continuous rotation capability
- Rigid steel body
- Multiple fixture mounting holes
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS RP Series is a family of single-axis horizontal positioners for rotating and angularly positioning large-diameter, heavy workpieces. Its rigid body and table with multiple mounting holes accommodate various fixtures. It orients the workpiece for easier process access in robotic welding and assembly applications.

Technical Data

		RP-500	RP-1000	RP-1500	RP-2000	RP-3000	RP-5000	RP-10.000
Max Payload	kg	500	1000	1500	2000	3000	5000	10,000
Fixture Diameter	mm	1500	1500	2000	2000	2500	3000	3000
Table Height	mm	-	-	-	-	-	-	-
COG Offset	mm	250	250	250	250	250	250	250
Index Time	s/180°	2.5	4.5	6.5	7.5	8.5	10	12
Max Inertia	kgm²	-	-	-	-	-	-	-

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TP SERIES – Double Axis Positioner

APPLICATIONS

Robotic welding • Automotive suppliers • Machinery manufacturing • Metal structures • Assembly and fixturing



Technical Features

- Payload options from 250 to 1,000 kg
- Two-axis rotation and tilting
- Fixture diameters from 600 to 1,500 mm
- Rigid body supported on both sides
- Table with multiple fixture mounting holes
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS TP Series is a family of positioners for rotating and tilting workpieces about two axes. Its body is supported on both sides, and the table has multiple holes for mounting various fixtures. It sets the workpiece at the required angle for access to hard-to-reach surfaces in robotic welding and assembly. Its compact design helps use production cell space efficiently.

Technical Data

		TP-250	TP-500	TP-750	TP-1000	-	-	-
Max Payload	kg	250	500	750	1000	-	-	-
Fixture Diameter	mm	600	1000	1000	1500	-	-	-
Accuracy	mm		R300±0.1mm / 0.15mm					
COG Offset	mm	150	150	150	150	-	-	-
Index Time	s/180°	2.5	4.5	6.5	8	-	-	-
Max Inertia	kgm²	-	-	-	-	-	-	-

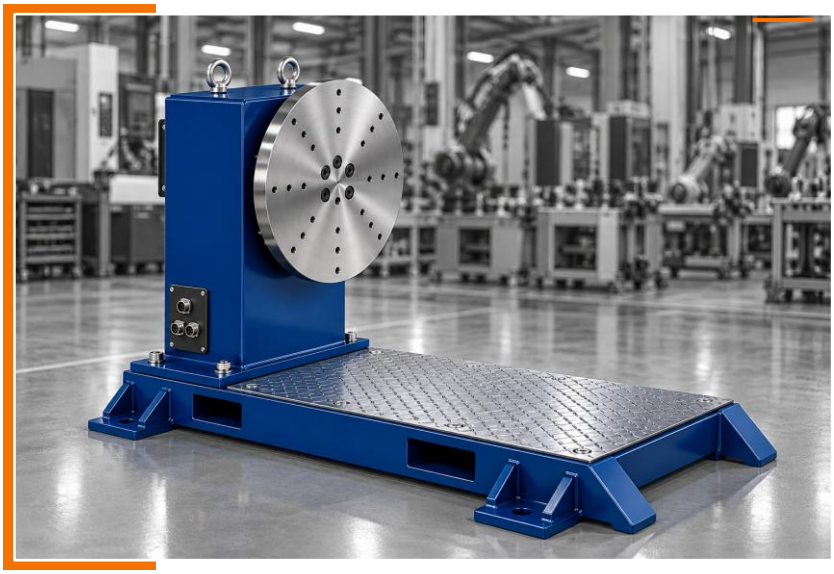
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HP SERIES – Single Axis Headstock Positioner

APPLICATIONS

Robotic welding • Machinery manufacturing • Steel structures • Pipe and profile welding • Assembly and fixturing



Technical Features

- Payload options from 500 to 3,000 kg
- Single-axis rotation about a horizontal axis
- Fixture diameters from 600 to 2,500 mm
- Continuous rotation capability
- Rigid, modular steel body
- Flange with multiple fixture mounting holes

PRODUCT OVERVIEW

- The LUCHS HP Series is a family of single-axis headstock positioners for rotating and angularly positioning workpieces about a horizontal axis. Its rigid body and flange with multiple mounting holes accommodate various workpieces and fixtures. It sets the workpiece at the required angle for easier access to process surfaces in robotic welding and assembly.

Technical Data

		HP-500	HP-1000	HP-1500	HP-2000	HP-3000	-	-
Max Payload	kg	500	1000	1500	2000	3000	-	-
Fixture Diameter	mm	600	1000	1000	1500	2500	-	-
Accuracy	mm	R600±0.15mm / 0.3mm						
COG Offset	mm	500	500	500	500	500	-	-
Index Time	s/180°	2.5	4.5	6.5	10	15	-	-
Max Inertia	kgm²	-	-	-	-	-	-	-

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HTP SERIES – Single Axis Frame Positioner

APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Steel structures • Machine frames • Long workpiece assembly



Technical Features

- Payload options from 500 to 3,000 kg
- Single-axis rotation about a horizontal axis
- Support at both ends by headstock and tailstock
- Adjustable fixture mounting distance
- Rigid, modular steel frame
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS HTP Series is a family of single-axis headstock and tailstock positioners for rotating and angularly positioning long, bulky workpieces about a horizontal axis. The headstock and tailstock on a common frame support the workpiece at both ends. Adjustable fixture spacing accommodates different workpiece lengths. It sets the workpiece at the required angle for access to multiple surfaces in robotic welding and assembly.

Technical Data

		HTP-2500	HTP-3000	HTP-3500	HTP-4000	HTP-4500	HTP-5000	-
Max Payload	kg	500	1000	1500	2000	2500	3000	
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							
Max Inertia	kgm²							

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RHTP SERIES - Rail Type Headstock & Tailstock Positioner

APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Railcar subassemblies • Steel structures • Pipe and profile assemblies



Technical Features

- Payload options from 500 to 3,000 kg
- Single-axis rotation about a horizontal axis
- Support at both ends by headstock and tailstock
- Adjustable headstock and tailstock spacing on rails
- Rigid, modular rail frame
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS RHTP Series is a family of rail-mounted headstock and tailstock positioners for rotating and angularly positioning long workpieces about a horizontal axis. The headstock and tailstock support the workpiece at both ends. Their spacing along the rails can be adjusted to suit different workpiece and fixture lengths. It sets the workpiece at the required angle for access to multiple surfaces in robotic welding and assembly.

Technical Data

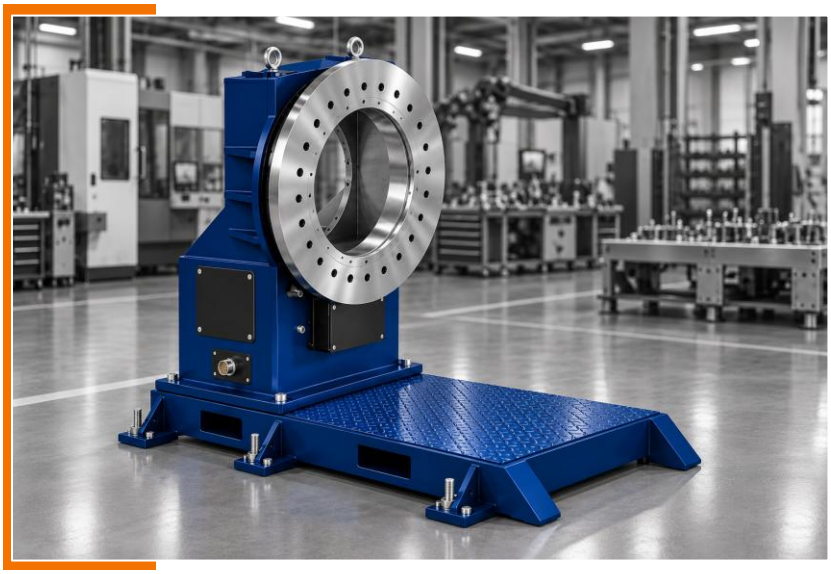
		RHTP-300	RHTP-4000	RHTP-5000	RHTP-6000	RHTP-7000	-	-
Max Payload	kg	500	1000	1500	2000	3000		
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Pipe and flange welding • Cylindrical component manufacturing • Profile structures • Assembly and fixturing



Technical Features

- Payload options from 500 to 3,000 kg
- Single-axis rotation about a horizontal axis
- Hollow-shaft design with a through-bore
- Ring flange with multiple fixture mounting holes
- Rigid, modular steel body
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS HBP Series is a family of hollow-bore positioners for rotating and angularly positioning workpieces about a horizontal axis. The large central opening allows pipes and profiles of suitable cross-section to pass through the rotation axis. A ring flange with multiple holes accommodates various fixtures. It sets the workpiece at the required angle for access to process surfaces in robotic welding and assembly.

Technical Data

		HBP-Ø400	HBP-Ø500	HBP-Ø600	HBP-Ø800	HBP-Ø1000	-	-
Max Payload	kg	500	1000	1500	2000	3000		
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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LPT SERIES - L-Type Positioner

APPLICATIONS

Robotic welding • Machinery and equipment manufacturing • Chassis subassemblies • Weldments with multiple faces • Assembly and fixturing



Technical Features

- Payload options from 500 to 2,000 kg
- Table rotation and arm tilting
- L-shaped cantilever support
- Table with multiple fixture mounting holes
- Rigid steel body and wide base
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS LPT Series combines table rotation with tilting of an L-shaped arm to position workpieces at different angles. The cantilever design improves robot access to surfaces around the workpiece. The table has multiple holes for mounting various fixtures. It orients the workpiece for processing multiple surfaces in robotic welding and assembly applications.

Technical Data

		LTP-800	LTP-1000	LTP-1200	LTP-1400	LTP-1600	-	-
Max Payload	kg	500	750	1000	1500	2000		
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

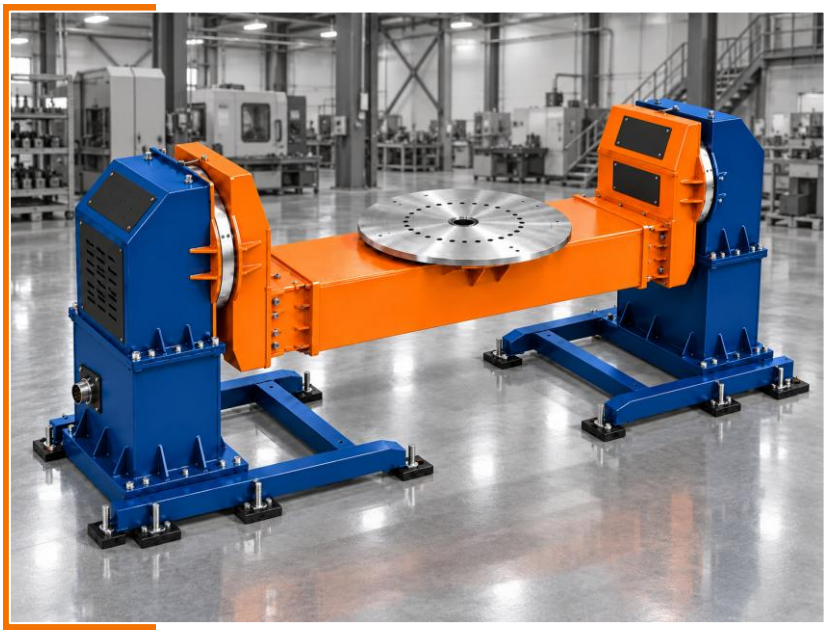
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DCP Series – Double Column Positioner;

APPLICATIONS

Robotic welding • Machine frames • Chassis subassemblies • Steel structures • Assembly of parts with multiple faces



Technical Features

- Two-axis rotation and tilting
- U-shaped carrier supported on both sides
- Centrally positioned rotary table
- Mounting surface with multiple fixture holes
- Rigid steel columns and base assemblies
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS DCP Series is a family of U-type positioners supported at both ends, with rotation and tilting for different workpiece angles. The carrier mounted between two columns supports the central rotary table from both sides. The table has multiple holes for mounting various fixtures. It improves access to different surfaces of complex workpieces in robotic welding and assembly.

Technical Data

		DCP-3000	DCP-5000	DCP-7500	DCP-10.000	-	-	-
Max Payload	kg	3000	5000	7500	10, 000			
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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CTP SERIES - Cradle Type Positioner Series

APPLICATIONS

Robotic welding • Chassis and frame manufacturing • Long welded structures • Machine frames • Assembly and fixturing



Technical Features

- Payload options from 500 to 2,000 kg
- Cradle body rotating about a horizontal axis
- Carrier supported at both ends
- Mounting arrangement for various fixtures
- Rigid steel frame and support columns
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS CTP Series rotates the workpiece and fixture together with a cradle-type carrier about a horizontal axis. Support at both ends accommodates long, bulky workpieces. The carrier can be adapted to different fixtures and positions the workpiece at the required angle for access to multiple surfaces in robotic welding and assembly.

Technical Data

		CTP-2500	CTP-3000	CTP-4000	-	-	-	-
Max Payload	kg	500	1000	2000				
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Pipe and flange welding • Shaft assemblies • Long cylindrical workpieces • Assembly and fixturing



Technical Features

- Payload options from 500 to 2,000 kg
- Long workpiece rotation about a horizontal axis
- Chuck-equipped headstock and tailstock centre
- Adjustable support spacing for workpiece length
- Intermediate unit for additional workpiece support
- Rigid, modular rail frame

PRODUCT OVERVIEW

- The LUCHS LWP Series is a family of positioners for rotating and angularly positioning pipes, shafts and similar long workpieces about a horizontal axis. A chuck-equipped headstock and tailstock centre support both ends, while an intermediate unit adds another support point. Adjustable support spacing on the rail frame suits different workpiece lengths. It simplifies long workpiece positioning in robotic welding and assembly.

Technical Data

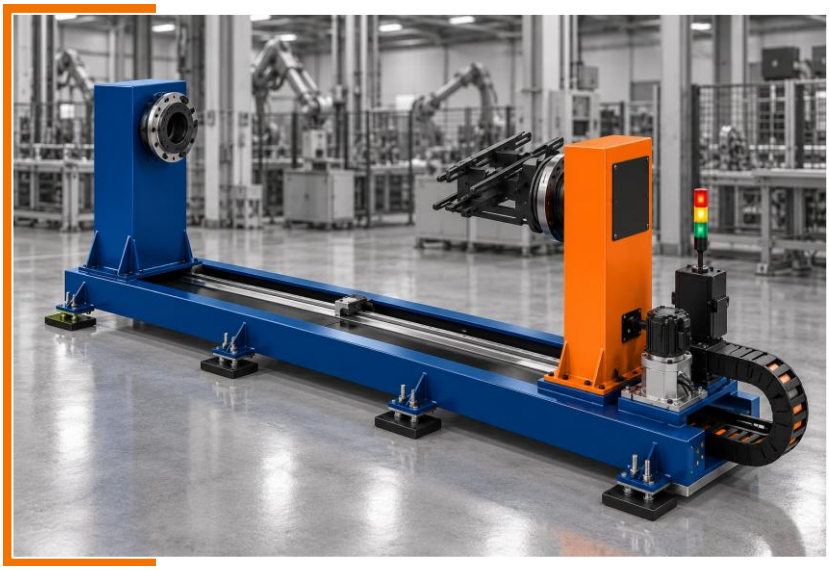
		LWP-3000	LWP-4000	LWP-5000	LWP-6000	-	-	-
Max Payload	kg	500	1000	1500	2000			
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Pipe and flange welding • Shaft assemblies • Long cylindrical workpieces • Assembly and fixturing



Technical Features

- Workpiece rotation about a horizontal axis
- Motor-driven travelling column
- Clamping distance adjusted to workpiece length
- Column travel guided by linear rails
- Support at both ends with a fixed opposing unit
- Organised cable routing through an energy chain

PRODUCT OVERVIEW

- The LUCHS HP Series is a family of motorised rail-mounted positioners for rotating and angularly positioning long workpieces about a horizontal axis. The motor-driven column travels along the rails to adjust the clamping distance to the workpiece length. A fixed opposing support carries the other end. It simplifies positioning workpieces of different lengths on one system in robotic welding and assembly.

Technical Data

		HP-1500	HP-2000	HP-3000	-	-	-	-
Max Payload	kg	500	1000	2000				
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Machine frames • Chassis subassemblies • Weldments with multiple faces • Assembly and fixturing



Technical Features

- Payload options from 500 to 2,000 kg
- Vertically adjustable table height
- Angular positioning with a rotary table
- Bellows-protected vertical travel mechanism
- Table with multiple fixture mounting holes
- Rigid steel column and anchored base

PRODUCT OVERVIEW

- The LUCHS VLP Series adjusts the working height by raising and lowering the workpiece and provides angular positioning through a rotary table. Vertical travel improves robot access to different areas of the workpiece. The table has multiple holes for mounting various fixtures. Its bellows-protected column combines height and orientation adjustment in one system for robotic welding and assembly.

Technical Data

		VLP-1000	VLP-1200	VLP-1500	VLP-2000	-	-	-
Max Payload	kg	500	1000	1500	2000			
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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DISP SERIES - Dual Station Indexing Positioner

APPLICATIONS

Robotic welding • Automotive suppliers • Series production of metal parts • Machinery subassemblies • Assembly and fixturing



Technical Features

- Dual-station operating layout
- Automatic station changeover by indexing
- Rotary fixture table at each station
- Mounting surfaces with multiple fixture holes
- Central panel separating the stations
- Compact, rigid steel body

PRODUCT OVERVIEW

- The LUCHS DISP Series is a family of dual-station positioners that index workpieces between welding and loading areas. Rotary fixture tables set the workpieces at the required process angle. With suitable cell safety and control integration, the two-station layout allows welding and loading or unloading to run in parallel. It helps reduce robot waiting time during workpiece changeovers in series production.

Technical Data

		DSIP-0150	DSIP-0300	DSIP-0500	-	-	-	-
Max Payload	kg							
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Automotive suppliers • Series production of metal parts • Machinery subassemblies • Assembly and fixturing



Technical Features

- Dual-station indexing layout
- Two vertically mounted rotary tables
- Angular positioning about a horizontal axis
- Mounting surfaces with multiple fixture holes
- Central panel separating the stations
- Compact, rigid steel body

PRODUCT OVERVIEW

- The LUCHS DISP-V Series is a family of dual-station positioners with vertically mounted rotary tables that position workpieces about a horizontal axis. Indexing exchanges the welding and loading stations. With suitable cell safety and control integration, welding and loading or unloading can run in parallel. Multiple table holes accommodate various fixtures, while the dual-station layout helps reduce changeover delays in series production.

Technical Data

		DISP-V -0300	DISP-V -0500	DISP-V -1000	-	-	-
Max Payload	kg						
Table Diameter	mm						
Table Height	mm						
COG Offset	mm						
Max Speed	rpb						
Index Time	s/180°						

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APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Railcar subassemblies • Long welded structures • Machinery manufacturing



Technical Features

- Workpiece rotation about a horizontal axis
- Support at both ends by headstock and tailstock
- Linear travel axis for the robot
- Robot carriage on linear guides
- Organised cable routing through an energy chain
- Rigid, modular steel frame

PRODUCT OVERVIEW

- The LUCHS HTP-RS Series combines a headstock and tailstock positioner with a robot travel slider. The positioner rotates the workpiece about a horizontal axis to the required angle, while the slider moves the robot along the part to different process points. This arrangement improves access to long workpieces and extends the robot working area in welding and assembly applications.

Technical Data

		HTTP-RS-3000	HTTP-RS-4000	HTTP-RS-5000	HTTP-RS-6000	-	-	-
Max Payload	kg	500	1000	1500	2000			
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Chassis and frame manufacturing • Automotive subassemblies • Machine components • Flexible production cells



Technical Features

- Dual-station headstock and tailstock layout
- Workpiece rotation about a horizontal axis
- Workpiece support at both ends of each station
- Central robot mounting platform
- Integrated structure on a transportable frame
- Levelling supports and anchoring points

PRODUCT OVERVIEW

- The LUCHS MRC Series combines a central robot mounting platform and two positioner stations on one transportable frame. Headstocks and tailstocks support workpieces at both ends and rotate them about a horizontal axis. The integrated platform makes relocation to other production areas easier. With suitable safety and control integration, the dual-station layout supports parallel welding and loading or unloading.

Technical Data

		MRC-4P-0500	MRC-4P-0750	MRC-4P-1000	-	-	-	-
Max Payload	kg	500	750	1000				
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Circular welding applications • Flanged and cylindrical parts • Machine components • Assembly and fixturing



Technical Features

- Single-axis rotation about a vertical axis
- Fixed robot mounting platform
- Integrated layout on a common frame
- Table with multiple fixture mounting holes
- Rigid steel body and anchored base
- Ready for servo motor integration

PRODUCT OVERVIEW

- The LUCHS RTS Series combines a rotary table and a fixed robot mounting platform on a common frame. The table rotates the workpiece about a vertical axis for easier robot access to different process points around the part. Multiple mounting holes accommodate various fixtures. The integrated frame provides a compact layout for the robot and workpiece in welding and assembly applications.

Technical Data

		RT2-1000	RT2-2000	RT2-3000	-	-	-	-
Max Payload	kg							
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Long workpiece production • Multi-station cells • Machine tending • Assembly and part transfer



Technical Features

- Single-axis linear robot travel
- Robot carriage on linear guides
- Connection plate for robot mounting
- Ready for servo motor integration
- Rigid, modular steel frame
- Levelling supports and anchoring points

PRODUCT OVERVIEW

- The LUCHS RSL Series is a family of robot sliders that extend the working area by carrying industrial robots along a linear axis. A carriage on linear guides moves the robot between process points and stations. The modular frame can be configured to the length required by the production layout. It enables one robot to serve a wider area in welding, assembly and machine tending applications.

Technical Data

		RSL-1000	RSL-1500	RSL-2000	RSL-2500	RSL-3000	-	-
Max Payload	kg	1000	1500	2000	2500	3000		
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Railcar production • Heavy machinery manufacturing • Large workpiece assembly



Technical Features

- Heavy-duty linear travel axis
- Wide robot mounting platform
- Carriage on linear guides
- Protective covers over the guide area
- Organised cable routing through an energy chain
- Rigid steel frame with levelling supports

PRODUCT OVERVIEW

- The LUCHS HRSL Series is a family of heavy-duty sliders for carrying high-mass industrial robots along a linear axis. Its rigid steel frame and wide mounting platform improve access to different areas of large workpieces. Protective covers shield the travel mechanism, while an energy chain keeps cables organised during movement. It extends the robot working area in welding and assembly lines.

Technical Data

		HRSL-3000	HRSL-5000	HRSL-7500	HRSL-10.000	-	-	-
Max Payload	kg							
Table Diameter	mm							
Table Height	mm							
COG Offset	mm							
Max Speed	rpb							
Index Time	s/180°							

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GANTRY & PILLAR RANGE












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G2 X+Y Series – 2 Axis Gantry System

APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Long profiles and beams • Large machine frames • Tank and box structures • Multi-station fixture lines • Special process applications



EXTENDED REACH FOR LONG WORKPIECES. FLEXIBLE ROBOT POSITIONING.

- The LUCHS Floor-Mounted Cantilever Robotic Gantry positions industrial robots and process equipment across large working areas. It combines a column travelling along a floor rail with a horizontal axis on the upper cantilever to reach different process zones.
- The single-column cantilever design leaves one side of the work area open, providing layout flexibility for loading large parts and accessing fixtures. The system can be engineered for long welded structures, multiple stations and different workpiece geometries.

PRODUCTION BENEFITS

- Extended working area: Longitudinal and transverse travel expand robot reach.
- Multi-station use: Moves one robot between different fixtures and process zones.
- Open work area: The cantilever design improves loading and maintenance access.
- Large workpiece access: Brings the robotic process to different areas of the part.
- Scalable layout: Rail length, column height and cantilever reach can suit production needs.

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APPLICATIONS

Robotic welding • Large machine frames • Tank and box structures • Chassis and load-bearing structures • Long profiles and beams • Cells with positioners • Multi-station production • Special process applications



ADJUSTABLE WORKING HEIGHT. EXTENDED REACH. FLEXIBLE ROBOT POSITIONING.

- The LUCHS Lifting Cantilever Gantry moves industrial robots and process equipment between work zones and heights. The column travels along the floor rail, the cantilever moves vertically on the column, and a horizontal carriage on the arm provides three-dimensional positioning.
- Adjustable cantilever height positions the robot at the working level required by the part. The system can be configured for long or tall workpieces, processing at different levels and multi-station production cells.

PRODUCTION BENEFITS

- Variable working height: Positions the robot at the level required by the workpiece.
- Extended reach: Combines longitudinal, horizontal and vertical motion.
- Multi-station use: Serves different fixture and positioner zones.
- Large workpiece access: Brings the robotic process to different areas of the part.
- Flexible layout: Rail length, column height and cantilever reach can suit production needs.

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APPLICATIONS

Dual-robot welding cells • Long profiles and beams • Chassis and load-bearing structures • Large machine frames • Ship panels and subassemblies • Multi-station fixture lines



SHARED PLATFORM FOR TWO ROBOTS. EXTENDED REACH. FLEXIBLE TASK ALLOCATION.

- The LUCHS Dual-Carriage X–Z Robotic Gantry positions two robots or process units on an elevated support structure. Two separate carriages on a common horizontal beam provide X-axis travel and Z-axis positioning through their own vertical units.
- The system can work on different areas of long workpieces, divide tasks between two robots or serve multiple production stations. An elevated beam supported by three columns creates a working area along the line.

PRODUCTION BENEFITS

- Task allocation between robots: Distributes welding or processing tasks across different zones.
- Long workpiece access: Moves robots to different points along the part.
- Independent working heights: Two vertical units serve process zones at different levels.
- Multi-station use: Allows fixtures and positioners to be arranged along the line.
- Parallel operation: Can support simultaneous tasks with suitable reach and task planning.

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APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Long profiles and beams • Pipe structures • Large machine frames • Cells with positioners • Multi-station fixture lines



EXTENDED REACH FOR LONG WORKPIECES. FLEXIBLE MULTI-STATION PRODUCTION.

- The LUCHS RC-X Series is a single-axis robot transfer system for moving industrial robots along long workpieces and between production stations. A column travelling on a floor rail and a fixed cantilever arm move the robot to the required working position.
- The cantilever positions the robot at a set distance and height from the support column. This improves access to different areas of long structures and allows one robot to serve multiple fixture or positioner stations.

PRODUCTION BENEFITS

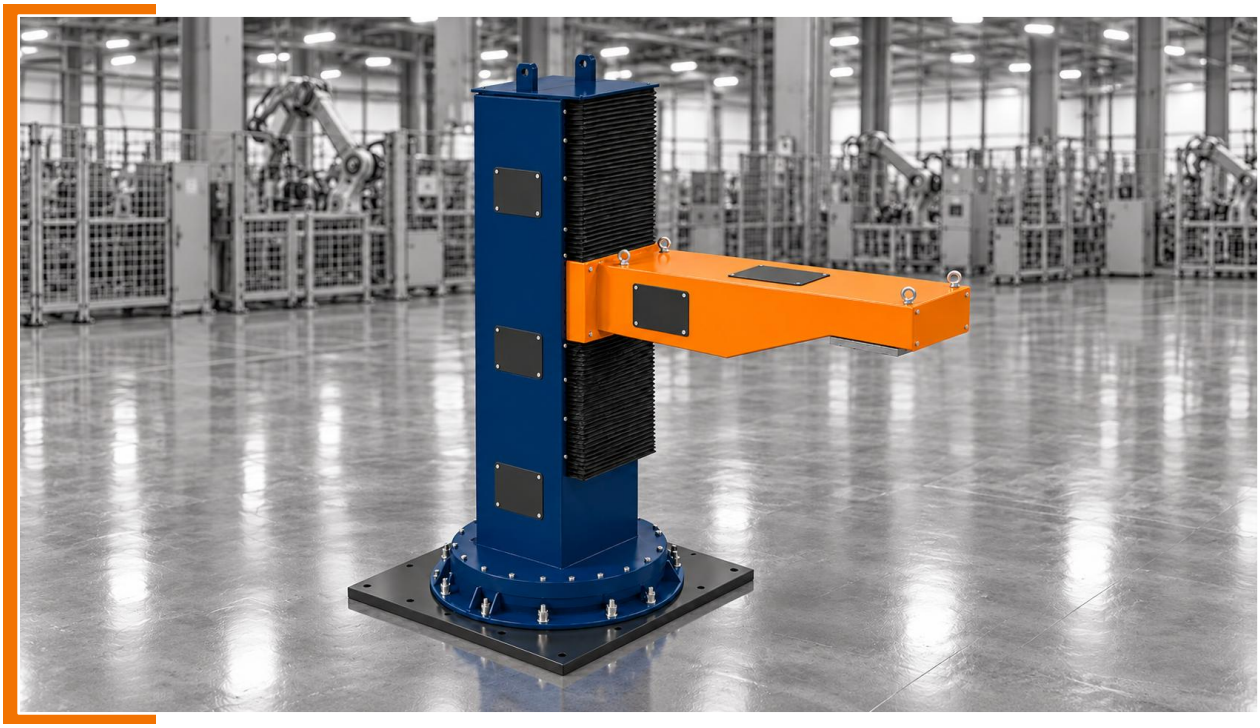
- **Long** workpiece access: Moves the robot to different process points along the part.
- Multi-station use: Distributes welding and processing tasks between fixture zones.
- Flexible cell layout: Leaves space under the cantilever for workpieces and auxiliary equipment.
- Product-specific configuration: Dimensions can suit robot reach, part geometry and station spacing.
- Process at the workpiece: Positions the robot at different areas of large structures.

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APPLICATIONS

Robotic welding • Large machine frames • Tank and box structures • Steel fabrication • Multi-station production cells • Special process applications



VERTICAL TRAVEL. ANGULAR REACH. FLEXIBLE PRODUCTION.

- The LUCHS Rotary-Base Robot Lifting Column is a support platform that enables industrial robots and process equipment to work at different heights and angular positions. It combines vertical linear travel with rotation about the base axis to extend the robot working area.
- The cantilever arm positions the robot or process unit at a distance from the main column. The system can be configured to suit workpiece geometry, reach requirements and the production layout.

PRODUCTION BENEFITS

- Access to process points at different heights.
- Angular positioning to face multiple work zones.
- Suitable robot working positions around large workpieces.
- Mechanical interfaces adaptable to robots and process equipment.
- Flexible configurations for different product families and cell layouts.

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APPLICATIONS

Robotic welding • Large machine frames • Chassis and load-bearing structures • Tank and box structures • Ship panels and subassemblies • Cells with positioners • Special process applications



ELEVATED TRAVEL. EXTENDED REACH. FLEXIBLE PRODUCTION.

- The LUCHS Portal Robot Transfer System extends the working area by carrying industrial robots along an elevated linear axis. It consists of a horizontal beam supported by two columns and a moving robot mounting platform.
- Travel along the beam provides access to long workpieces, multiple fixtures and different process zones. The clearance beneath the portal can accommodate workpieces, positioners and auxiliary equipment.

PRODUCTION BENEFITS

- Extended robot reach: Moves the robot to different working positions along the part.
- Multi-station use: Enables one robot to serve different fixture and positioner zones.
- Flexible cell layout: Makes space beneath the portal available for production equipment.
- Long workpiece access: Reaches process zones on beams, profiles, chassis and large weldments.
- Application-specific sizing: Can suit the production area and robot reach requirements.

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APPLICATIONS

Robotic welding • Large machine frames • Chassis and load-bearing structures • Tank and box structures • Ship panels and subassemblies • Cells with positioners • Special process applications



LARGE WORKING AREA. VERTICAL REACH. FLEXIBLE ROBOT POSITIONING.

- The LUCHS Three-Axis Robotic Gantry positions industrial robots and process equipment within a large working envelope. Longitudinal, transverse and vertical linear travel on the elevated portal structure provide access to different areas and heights of the workpiece.
- The system brings the robotic process to the required point on large parts and across multiple workstations. Portal clearance, axis strokes and robot mounting can be configured to suit part geometry, fixture layout and process requirements.

PRODUCTION BENEFITS

- Three-dimensional reach: Changes the robot working position horizontally and vertically.
- Large workpiece access: Serves long, wide structures with varying heights.
- Multi-station use: Enables one robot to serve different fixture and positioner zones.
- Flexible cell layout: Makes space beneath the portal available for workpieces and auxiliary equipment.
- Equipment integration: Provides space for auxiliary process equipment on the support structure.

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APPLICATIONS

Robotic welding • Large machine frames • Chassis and load-bearing structures • Tank and box structures • Ship panels and subassemblies • Cells with positioners • Special process applications



THREE-DIMENSIONAL REACH. FLEXIBLE POSITIONING. LARGE WORKING ENVELOPE.

- The LUCHS Three-Axis Robotic Gantry moves industrial robots and process units in the X, Y and Z directions. An elevated longitudinal travel system, transverse carriage and vertical axis provide access to different process zones and working heights.
- The two-column portal structure can be scaled for large workpieces and multi-station production cells. The robot or process unit can be integrated with the interface on the vertical axis in the mounting arrangement required by the application.

PRODUCTION BENEFITS

- Extended reach: Changes the robot working position along three linear axes.
- Variable workpiece heights: Vertical travel moves the process unit to the required working level.
- Multi-station use: Provides access to different fixture and positioner zones.
- Flexible cell layout: Makes space beneath the portal available for workpieces and production equipment.
- Application-specific envelope: Axis strokes and portal dimensions can suit production needs.

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G3-B Series – X+Y+Z 3 Axis Gantry System

APPLICATIONS

Robotic welding • Trailer and chassis manufacturing • Long profiles and beams • Large machine frames • Tank and box structures • Cells with positioners • Multi-station production • Scanning and special process applications



LONGITUDINAL TRAVEL. TRANSVERSE REACH. VERTICAL POSITIONING.

- The LUCHS Floor-Mounted Three-Axis Robotic Gantry moves industrial robots and process equipment within a large working envelope. A column travelling along the floor rail, a horizontal unit on the upper cantilever and a vertical carrier axis provide X, Y and Z positioning.
- The system brings the robotic process to different areas of long workpieces and to varying working heights. Its single-column cantilever design allows fixtures and production stations along the line, providing a flexible cell layout for different part families.

PRODUCTION BENEFITS

- Large working envelope: Three linear axes extend robot reach.
- Long workpiece access: Reaches different areas of chassis, beams, profiles and large weldments.
- Variable working heights: The vertical axis sets the robot at the required process level.
- Multi-station use: Enables one robot to serve different fixture and positioner zones.
- Flexible layout: Makes space beneath the cantilever available for workpieces and auxiliary equipment.

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RAIL-MOUNTED WELDING PROCESS PLATFORM

APPLICATIONS

Shipyard panel and block production • Large steel structures • Chassis and platform manufacturing • Long welded assemblies • Heavy machine frames • Special robotic welding lines



RAIL-MOUNTED PORTAL WELDING PROCESS PLATFORM

- The LUCHS Rail-Mounted Portal Welding Process Platform carries the robot controller, welding power source, wire feeder and auxiliary process equipment on one moving structure.
- The portal travels on two parallel floor rails to position equipment along large workpieces and between workstations. The upper platform brings welding and control equipment together on one mechanical structure.
- The system can be engineered with application-specific robot carrying units for shipyard production, large steel structures and long welded assemblies.

PRODUCTION BENEFITS

- Shared equipment platform: Brings welding and control equipment together in an organised layout.
- Travel along production: Moves equipment between process zones.
- Floor space use: Equipment on the upper platform frees layout space around the portal.
- Service access: Provides a shared access area for maintenance and equipment connections.
- Application-specific configuration: Portal clearance, rail length and equipment layout can suit production needs.

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RAIL-MOUNTED SHIPYARD WELDING GANTRY

APPLICATIONS

Shipyard panel and block production • Large steel structures • Chassis and platform manufacturing • Long welded assemblies • Heavy machine frames • Special robotic welding lines



LARGE STRUCTURES. EXTENDED REACH. ROBOTIC WELDING.

- The LUCHS Robotic Welding Gantry is a rail-mounted automation platform for welding ship panels, subassemblies and large steel structures.
- The portal travels on two parallel floor rails, while the welding robot moves along the horizontal beam to reach different areas of the production space. The system aims to reduce the need to move large, heavy parts by bringing the robotic welding process to the workpiece.
- Portal clearance, rail length and robot layout can be engineered to suit the shipyard's existing infrastructure, workpiece geometries and welding plan.

BENEFITS FOR SHIPYARD PRODUCTION

- Large working area: Moves the robot between process zones on long, wide weldments.
- Reduced part handling: Brings welding equipment to the location of large structures.
- Repeatable process: Supports programmed robot motion and welding parameters.
- Adaptable to different products: Working layouts can suit panels, profiles and subassemblies.
- Scalable capacity: Working area and robot count can be configured for production targets.

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LUCHS

WELDING ROBOT & AUTOMATION



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