



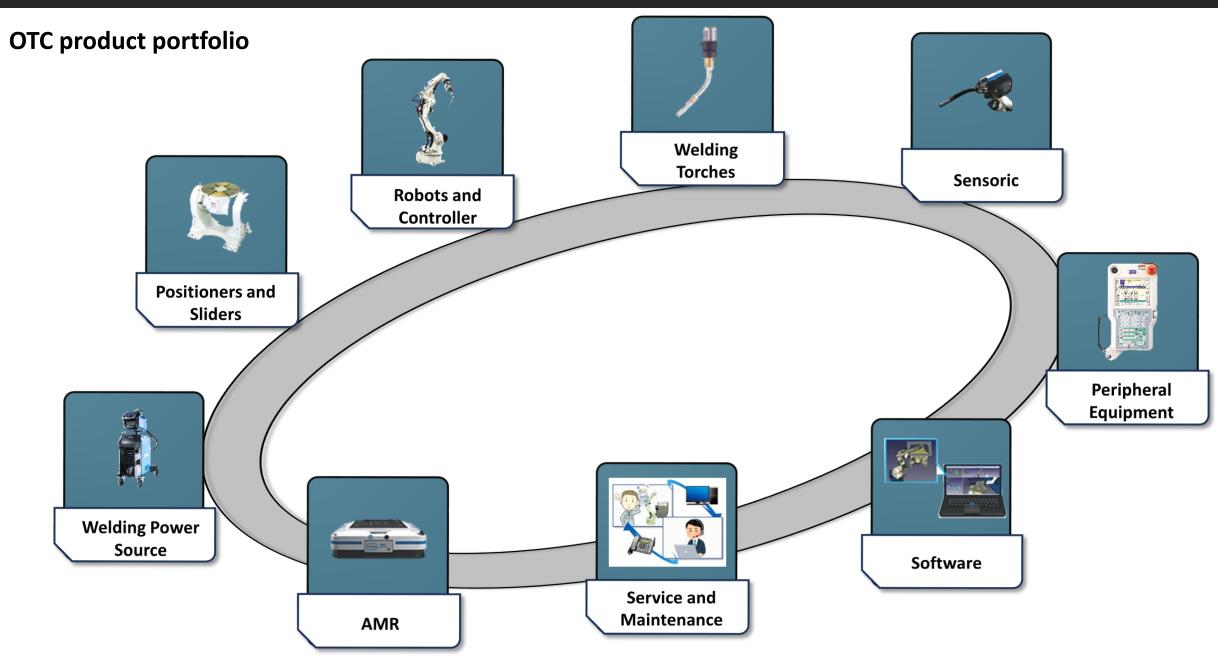
Joining Forces

Compact robot station

02-2024







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				6-Axis arc ro	bots			
	Туре	FD-H5	FD-B6	FD-V8	FD-B6L	FD-V8L	FD-V25	FD-A20
	Working range	R 866 mm	R 1445 mm	R 1437 mm	R 2008 mm	R 2006 mm	R 1710 mm	R 1664 mm
	Max. payload	5 kg	6 kg	8 kg	6 kg	8 kg	25 kg	20 kg
	Repetition accuracy	+/- 0.05 mm	+/- 0.08 mm	+/- 0.08 mm	+/- 0.08 mm	+/- 0.08 mm	+/- 0.07	+/- 0.07
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~				7-Axis arc rol	pots		(
				7-Axis arc rol	pots			
		Type	FD-BT6	7-Axis arc rol FD-VT8	Dots	FD-VT8L	FD-VT20	
		Type Working range	FD-BT6 R 1435 mm			FD-VT8L R 2006 mm	FD-VT20 R 1710 mm	
		/		FD-VT8	FD-BT6L			
		Working range	R 1435 mm 6 kg	FD-VT8 R 1427 mm	FD-BT6L R 2008 mm	R 2006 mm	R 1710 mm	



11. CUBE 01



- Compact arc robot station
- Ready for use and cost-efficient
- CE / UVV / VDI / DIN

This compact cell is developed as entry model for the welding automation of OTC DAIHEN EUROPE.

The OTC arc robot and the two fixed working tables ensure a highly effective welding production at cyclic operation on optimized cycle time.

Due to the compact cell design is a shipment by a standard lorry possible. The already assembled and ready for use delivered robot station ensure a prompt production start without a complex installation at customer plant.





OTC 6-axes-arc-robot, type: FD19-V8 Payload :8 kg

Payload Positional repeatability Max. working range (P-Point)t Mass (weight) : 8 kg : ± 0,08 mm : Ø 2804 mm : 140kg



OTC robot controller, type: FD-19

Max. no. of task programs: 9999 programsMax. no. of axes: 54 axesGeneral purpose physical I/O: 40 Input / 40 outputMass (weight): 62 kg (without transformer)Digital CAN-BUS communication with the OTC welding technology

OTC welding technology, type: Welbee WB-P402

0 00 11		
Welding current range	: 30 – 400 A	
Output voltage range	: 12 – 34 V	
Duty cycle	: 280A / 100 %	
Mass (weight)	: 62 kg	
Digital Inverter technology with a significant improvement of arc stabilty over the entire		
performance range		

OTC robot welding torch, type: RTW5000H (Fe/SuS)

Torch position Max. welding current Shock sensor

: 45° : 500 A / water-cooled : type SSV

OTC positioning technology

Type Payload Working height Work surface (LxW) : fixed working : 200 kg : 700 mm : 1000x800 mn





12. CUBE 02



- Compact arc robot station
- Ready for use and cost-efficient
- CE / UVV / VDI / DIN

This compact cell is developed as entry model for the welding automation of OTC DAIHEN EUROPE.

The OTC arc robot and the electrical 180° cycle table ensure a highly effective welding production at cyclic operation on optimized cycle time.

Due to the compact cell design is a shipment by a standard lorry possible. The already assembled and ready for use delivered robot station ensure a prompt production start without a complex installation at customer plant.



OTC 6-axes-arc-robot, type: FD19-V8 Payload :8 k

Payload Positional repeatability Max. working range (P-Point)t Mass (weight) : 8 kg :± 0,08 mm :∅ 2804 mm : 140kg



OTC robot controller, type: FD-19

Max. no. of task programs: 9999 programsMax. no. of axes: 54 axesGeneral purpose physical I/O: 40 Input / 40 outputMass (weight): 62 kg (without transformer)Digital CAN-BUS communication with the OTC welding technology

OTC welding technology, type: Welbee WB-P402

Welding current range	: 30 – 400 A
Output voltage range	: 12 – 34 V
Duty cycle	: 280A / 100 %
Mass (weight)	: 62 kg
Digital Inverter technology with a significant impro-	vement of arc stabilty over the entire
performance range	

OTC robot welding torch, type: RTW5000H (Fe/SuS)

Torch position: 45°Max. Belastung: 500 A / water-cooledShock sensor: type SSV

OTC positioning technology

Type Payload 180° pivot drive 180° slewing time Working height Work surface (LxW) : RST-250 : 2 x 125 kg : Frequency controlled : 7 s : 700 mm : 1000x500 mm



13. CUBE 03



- **Compact arc robot station**
- **Ready for use and cost-efficient**
- CE / UVV / VDI / DIN

This compact cell is developed as entry model for the welding automation of OTC DAIHEN EUROPE.

The OTC arc robot and the two headstock positioner ensure a highly effective welding production at cyclic operation on optimized cycle time.

Due to the compact cell design is a shipment by a standard lorry possible. The already assembled and ready for use delivered robot station ensure a prompt production start without a complex installation at customer plant.





OTC 6-axes-arc-robot, type: FD19-V8 Payload Positional repeatability Max. working range (P-Point)t Mass (weight)

: 8 kg : 140kg

: ± 0,08 mm : Ø 2804 mm



OTC robot controller, type: FD-19

Max. no. of task programs Max. no. of axes General purpose physical I/O Mass (weight)

: 9999 programs : 54 axes : 40 Input / 40 output : 62 kg (without transformer)

Digital CAN-BUS communication with the OTC welding technology

OTC robot software, Sychromotion

Synchromotion control is a control process in which muliple mechanismus (manipulator, auxiliary axes, ect.) operate simultaneously and the position, posture and speed of the tools is controlled relative to the work. It is also sometimes referred to as cooperative control. F.e. in an arc welding system the manipulator could maintain at all times the optimal torch posture and speed, relative to the work mounted on the positioner.

OTC welding technology, type: Welbee WB-P402

Welding current range	: 30 – 400 A	
Output voltage range	: 12 – 34 V	
Duty cycle	: 280A / 100 %	
Mass (weight)	: 62 kg	
Digital Inverter technology with a significant improvement of arc stability over the entire		
performance range		

OTC robot welding torch, type: RTW5000H (Fe/SuS)

Torch position Max. Belastung Shock sensor

:45° : type SSV

: 500 A / water-cooled

OTC 1-axis-headstock

Type Payload (tilt axis) Drive Vmax. Rotary axis Mass (weight)

: A2PB252-E : 250 kg : AC Servo motor : 150° /s : 110 kg





14. CUBE 04



- Compact arc robot station
- Ready for use and cost-efficient
- CE / UVV / VDI / DIN

This compact cell is developed as entry model for the welding automation of OTC DAIHEN EUROPE.

The OTC arc robot and the 180° positioner with a horizontal rotary axis ensure a highly effective welding production at cyclic operation on optimized cycle time.

Due to the compact cell design is a shipment by a standard lorry possible. The already assembled and ready for use delivered robot station ensure a prompt production start without a complex installation at customer plant.



OTC 6-axes-arc-robot, type: FD19-V8 Payload :8 kg Positional repeatability :++ 6

Positional repeatability Max. working range (P-Point)t Mass (weight) : 8 kg : ± 0,08 mm : Ø 2804 mm : 140kg



OTC robot controller, type: FD-19

Max. no. of task programs Max. no. of axes General purpose physical I/O Mass (weight) Digital CAN RUS communicat : 9999 programs : 54 axes : 40 Input / 40 output : 62 kg (without transformer)

Digital CAN-BUS communication with the OTC welding technology

OTC robot software, Sychromotion

Synchromotion control is a control process in which muliple mechanismus (manipulator, auxiliary axes, ect.) operate simultaneously and the position, posture and speed of the tools is controlled relative to the work. It is also sometimes referred to as cooperative control. F.e. in an arc welding system the manipulator could maintain at all times the optimal torch posture and speed, relative to the work mounted on the positioner.

OTC welding technology, type: Welbee WB-P402

Welding current range: 30 - 400 AOutput voltage range: 12 - 34 VDuty cycle: 280A / 100 %Mass (weight): 62 kgDigital Inverter technology with a significant improvement of arc stability over the entire performance range

OTC robot welding torch, type: RTW5000H (Fe/SuS)

Torch position: 45°Max. Belastung: 500 A / water-cooledShock sensor: type SSV

OTC 2-axis-H-positioner

Type Payload (tilt axis) 180° rotary unit Drive Distance between centers Mass (weight)



15. CUBE 05



- Compact arc robot station
- Ready for use and cost-efficient
- CE / UVV / VDI / DIN

This compact cell is developed as entry model for the welding automation of OTC DAIHEN EUROPE.

The OTC arc robot and the two double-support positioner ensure a highly effective welding production at cyclic operation on optimized cycle time.

Due to the compact cell design is a shipment by a standard lorry possible. The already assembled and ready for use delivered robot station ensure a prompt production start without a complex installation at customer plant.



OTC 6-axes-arc-robot, type: FD19-V8 Payload : 8 kg Positional repeatability : ± C

Positional repeatability Max. working range (P-Point)t Mass (weight)

: 8 kg : ± 0,08 mm : Ø 2804 mm : 140kg



OTC robot controller, type: FD-19

Max. no. of task programs Max. no. of axes General purpose physical I/O Mass (weight) Digital CAN BUS communicat : 9999 programs : 54 axes : 40 Input / 40 output : 62 kg (without transformer)

Digital CAN-BUS communication with the OTC welding technology

OTC robot software, Sychromotion

Synchromotion control is a control process in which muliple mechanismus (manipulator, auxiliary axes, ect.) operate simultaneously and the position, posture and speed of the tools is controlled relative to the work. It is also sometimes referred to as cooperative control. F.e. in an arc welding system the manipulator could maintain at all times the optimal torch posture and speed, relative to the work mounted on the positioner.

OTC welding technology, type: Welbee WB-P402

Welding current range	: 30 – 400 A	
Output voltage range	: 12 – 34 V	
Duty cycle	: 280A / 100 %	
Mass (weight)	: 62 kg	
Digital Inverter technology with a significant improvement of arc stabilty over the entire		
performance range		

OTC robot welding torch, type: RTW5000H (Fe/SuS)

Torch position: 45°Max. Belastung: 500 A / water-cooledShock sensor: type SSV

OTC 2-axis-double-support

Type Payload (tilt axis) Drive Vmax. rotary axis Vmax. tilt axis Mass (weight)

: A2PF301-ECN
: 300 kg
: AC Servo motor
: 180° /s
: 125° /s
: 260 kg













Thank you for your attention