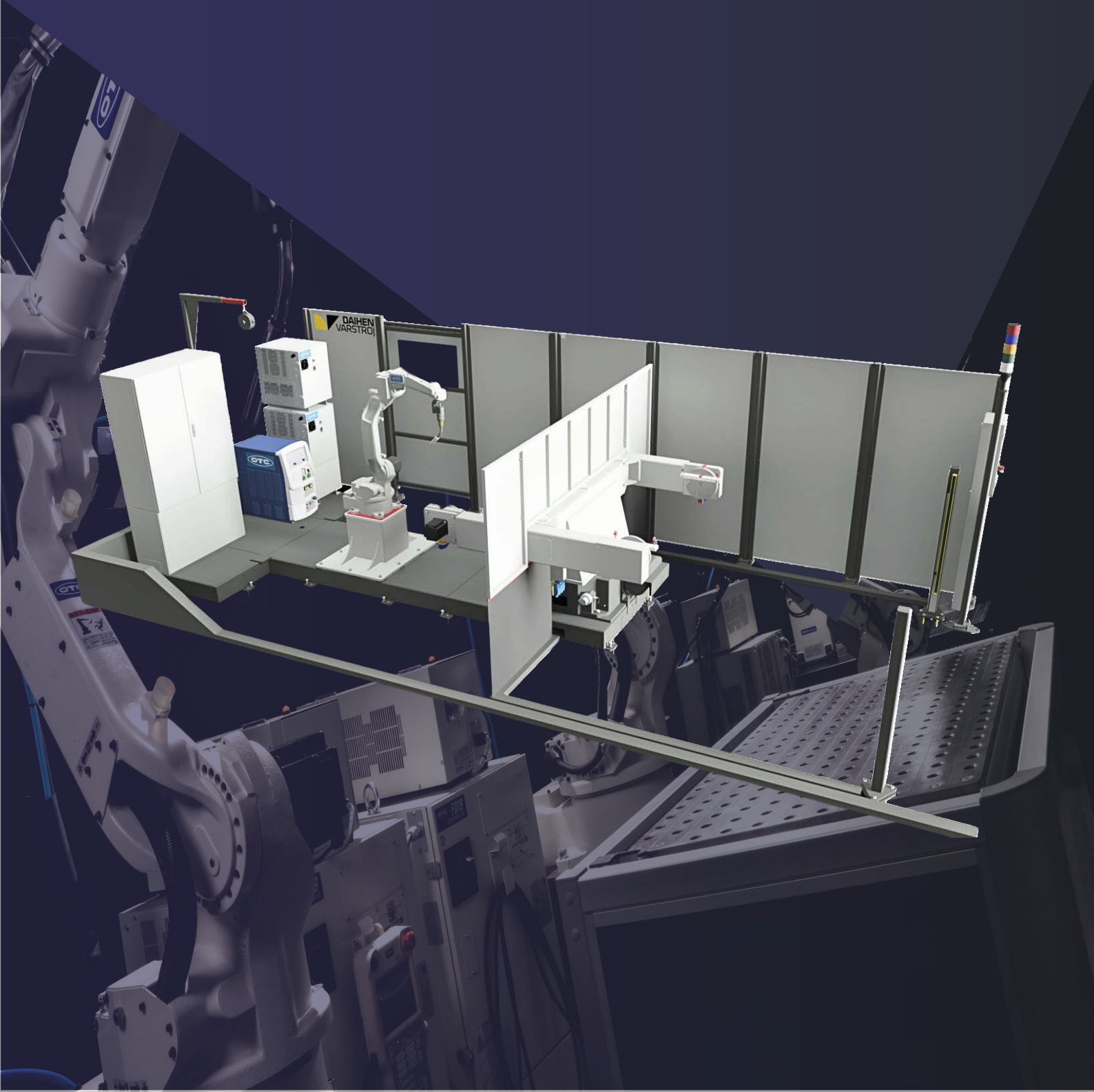




STANDARD

ROBOTIC WELDING CELLS

FOR LIGHT AND HEAVY INDUSTRY





Standard or customized robotic cells
THE CHOICE IS YOURS



from 3D concept to
full robotic integration



Customized solutions that
deliver measurable results



Shorter production
times, higher efficiency

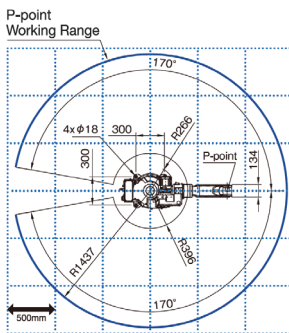
1_VRC FD-V8 1DM



CELL DIMENSIONS
from 1300 x 2200 mm



Manipulator working range



OTC welding robot FD - V8

Technical data

Payload	8 kg
Number of axes	6 axes
P-point working range	R1,437 mm
Positional repeatability	± 0.08 mm
Mass	140 kg

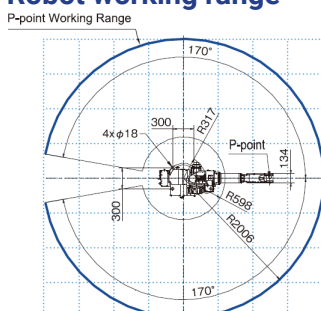
2_VRC FD-V8L 2DM



CELL DIMENSIONS
from 1500 x 2500 mm



Robot working range



OTC welding robot FD - V8L

Technical data

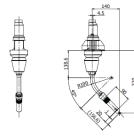
Payload	8 kg
Number of axes	6 axes
P-point working range	R 2,006 mm
Positional repeatability	± 0.08 mm
Mass	237 kg

WELDING EQUIPMENT



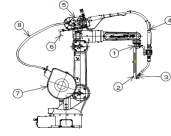
Welding machine WB-P402

- 400A MIG/MAG digital inverter pulse power source
- Integrated pulse waveform control
- Integrated I/F board for FD-series
- High dust resistance
- Integrated high speed pulse mode
- 400 A rated welding current at a 50% duty cycle
- Air cooled



OTC torch

- Type RTH3500H
- 350A / 45 / air-cooled / Fe / Sus
- Wire diameter: Ø1.2mm
- Other available wire diameters: Ø0.8 – Ø1.6mm, with optional torch curvatures (straight or 31°)
- Equipped with shock sensor



Welding accessory kit FD

1. Torch bracket
2. Torch gauge assy
3. Tip gauge assy
4. Coaxial power cable
5. Wire feeder unit
6. Feeder bracket
7. Wire reel stand
8. Conduit



OTC-controller FD19 with Teach pendant

Ensuring precise welding speed, maintaining perfect torch posture for every weld, and enabling effortless teaching and programming with advanced integrated technology.

SAFETY EQUIPMENT

Included in the system

Start box with emergency stop



Optional*

- Touch sensor FD-WD
- Arc sensor FD-AR
- Laser sensor FD-QD
- Laser tracking sensor FD-QTS
- 2D vision sensor function

On request

Other types of:

- Welding machines
- Robots
- Robotic welding torches

Security optical curtain

Service door

(can be customized)



Safety fence

(can be customized)



*at additional charge

3_VRC FD-V8 1xPB252



OTC welding robot FD - V8

Technical data

Payload	8 kg
Number of axes	6 axes
P-point working range	R1,437 mm
Positional repeatability	± 0.08 mm
Mass	140 kg

OTC head/tail positioner

Type A2PB252-E

Number of sides	1
Max. payload	250 kg
Spin speed (max)	2.6 rad/s (150°/s)
Maximum allowable load moment	206 Nm
Positional repeatability (R=250mm)	±0.08 mm

Positioner is controlled from the robot Teach pendant



CELL DIMENSIONS
from 1600 x 2200 mm



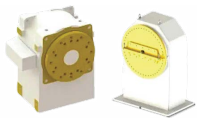
POSITIONER LOAD CAPACITY
250 kg



POSITIONERS DISTANCE
1400 mm



POSITIONER ROTATION WITHIN WORKSPACE
Ø1000 mm



4_VRC FD-V8 1xPF301



OTC welding robot FD - V8

Technical data

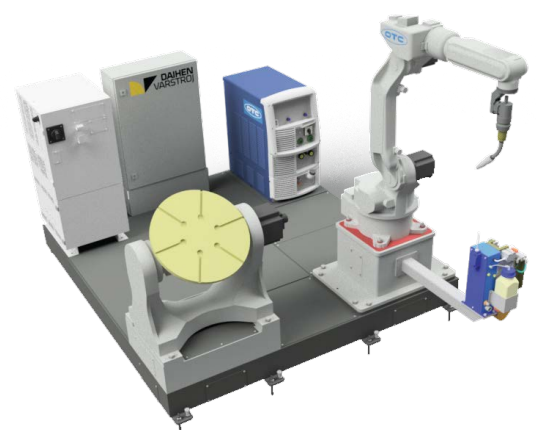
Payload	8 kg
Number of axes	6 axes
P-point working range	R1,437 mm
Positional repeatability	± 0.08 mm
Mass	140 kg

OTC head/tail positioner

Type A2PF301-ECN

Max. payload	300 kg
Rotation speed - tilt. (max.)	3.1 rad/s (180°/s)
Rotation speed - rot. (max.)	2.2 rad/s (125°/s)
Maximum allowable tilt moment	882 Nm
Maximum allowable rotation moment	294 Nm

Positioner is controlled from the robot Teach pendant



CELL DIMENSIONS
2500 x 2500 mm



POSITIONER LOAD CAPACITY
300 kg



POSITIONER PLATE DIMENSION
Ø 500 mm



5_VRC FD-B6 R-HZP

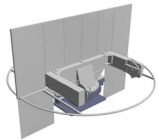


OTC welding robot FD - B6

Technical data

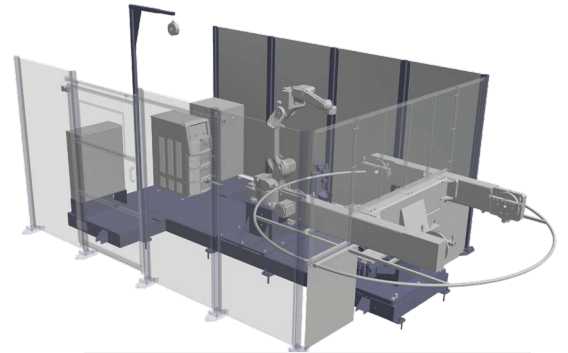
Payload	6 kg
Number of axes	6 axes
P-point working range	R1,445 mm
Positional repeatability	± 0.08 mm
Mass	145 kg

DAIHEN VARSTROJ manual rotatable H-frame positioner



Type R-HZP 150

Number of sides	2 (A,B)
Max. payload by side	150 kg
Max. rotation radius	400 mm
Clamping plates distance	1,250 mm
Turning time for 180°	manual



CELL DIMENSIONS
from 3500 x 6000 mm



POSITIONER LOAD CAPACITY
150 kg per side



POSITIONERS DISTANCE
1250 mm



POSITIONER ROTATION WITHIN WORKSPACE
Ø 800 mm

6_VRC FD-B6L 2xPB252



OTC welding robot FD - B6L

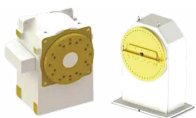
Technical data

Payload	6 kg
Number of axes	6 axes
P-point working range	R2,008 mm
Positional repeatability	± 0.08 mm
Mass	237 kg

OTC head/tail positioner

Type A2PB252-E

Number of sides	2 (A,B)
Max. payload	250 kg
Spin speed (max)	2.6 rad/s (150°/s)
Maximum allowable load moment	206 Nm
Positional repeatability (R=250mm)	±0.08 mm



Positioner is controlled from the robot Teach pendant



CELL DIMENSIONS
5500 x 4000 mm



POSITIONER LOAD CAPACITY
250 kg per side



POSITIONERS DISTANCE
1500 mm



POSITIONER ROTATION WITHIN WORKSPACE
Ø 1000 mm

7_VRC FD-B6L 2xPF301



OTC welding robot FD - B6L

Technical data

Payload	6 kg
Number of axes	6 axes
P-point working range	R2,008 mm
Positional repeatability	± 0.08 mm
Mass	237 kg

OTC head/tail positioner

Type	A2PF301-ECN
Max. payload	300 kg
Rotation speed - tilt. (max.)	3.1 rad/s (180°/s)
Rotation speed - rot. (max.)	2.2 rad/s (125°/s)
Maximum allowable tilt moment	882 Nm
Maximum allowable rotation moment	294 Nm

Positioner is controlled from the robot Teach pendant



CELL DIMENSIONS
3000 x 3000 mm



POSITIONER LOAD CAPACITY
300 kg



POSITIONER PLATE DIMENSION
Ø 1350 mm

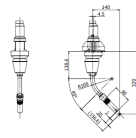


WELDING EQUIPMENT



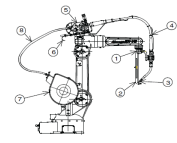
Welding machine WB-P402

- 400A MIG/MAG digital inverter pulse power source
- Integrated pulse waveform control
- Integrated I/F board for FD-series
- High dust resistance
- Integrated high speed pulse mode
- 400 A rated welding current at a 50% duty cycle
- Air cooled



OTC torch

- Type RTH3500H
- 350A / 45 / air-cooled / Fe / Sus
- Wire diameter: Ø1.2mm
- Other available wire diameters: Ø0.8 – Ø1.6mm, with optional torch curvatures (straight or 31°)
- Equipped with shock sensor



Welding accessory kit FD

1. Torch bracket
2. Torch gauge assy
3. Tip gauge assy
4. Coaxial power cable
5. Wire feeder unit
6. Feeder bracket
7. Wire reel stand
8. Conduit



Torch cleaning station

- Automatic, electro-pneumatic program sequence
- Cleans the gas nozzle and applies anti-spatter fluid in a single position, automatically repeating the application after each cleaning cycle
- Adjustable gas nozzle fixing piece for different gas nozzle diameters



OTC-controller FD19 with Teach pendant

Ensuring precise welding speed, maintaining perfect torch posture for every weld, and enabling effortless teaching and programming with advanced integrated technology.

SAFETY EQUIPMENT

Included in the system

Start box with emergency stop



Optional*

Sensors

- Touch sensor FD-WD
- Arc sensor FD-AR
- Laser sensor FD-QD
- Laser tracking sensor FD-QTS
- 2D vision sensor function

On request

Other types of:

- Welding machines
- Robots
- Robotic welding torches

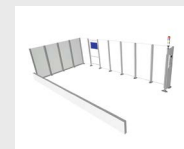
Security optical curtain

Service door

(can be customized)

Safety fence

(can be customized)



*at additional charge

8_VRC FD-B6 HZP1500



OTC welding robot FD - B6

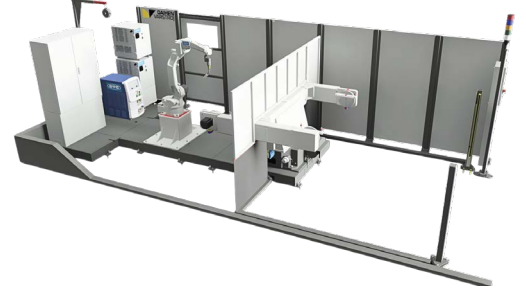
Technical data

Payload	6 kg
Number of axes	6 axes
P-point working range	R1,445 mm
Positional repeatability	± 0.08 mm
Mass	145 kg

DAIHEN VARSTROJ H-frame positioner

Type HP-250/EO-2X

Number of sides	2 (A,B)
Max. payload	250 kg
Max. rotation radius	575 mm
Clamping plates distance	1,500 mm
Turning time for 180°	approx. 4s



CELL DIMENSIONS
from 4000 x 7500 mm



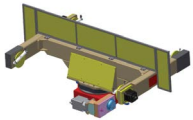
POSITIONER LOAD CAPACITY
250 kg per side



POSITIONERS DISTANCE
1500 mm



POSITIONER ROTATION WITHIN WORKSPACE
Ø 1150 mm



9_VRC FD-B6L HZP2100



OTC welding robot FD - B6L

Technical data

Payload	6 kg
Number of axes	6 axes
P-point working range	R2,008 mm
Positional repeatability	± 0.08 mm
Mass	237 kg

DAIHEN VARSTROJ H-frame positioner

Type HZP-500

Number of sides	2 (A,B)
Max. payload	500 kg
Max. rotation radius	650 mm
Clamping plates distance	2100 mm
Turning time for 180°	approx. 8s



CELL DIMENSIONS
from 4200 x 7500 mm



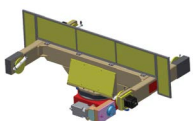
POSITIONER LOAD CAPACITY
500 kg per side



POSITIONERS DISTANCE
2100 mm



POSITIONER ROTATION WITHIN WORKSPACE
Ø 1350 mm



10_VRC FD-B6 HZP z 2xPF301



OTC welding robot FD - B6

Technical data

Payload	6 kg
Number of axes	6 axes
P-point working range	R1,445 mm
Positional repeatability	± 0.08 mm
Mass	145 kg



DAIHEN VARSTROJ H-frame positioner with 2x OTC PF301 turning / tilting positioner



Type	HZP z 2xPF301
Number of sides	2 (A,B)
Max. payload per side	300 kg
Turning time for 180°	approx. 6s
Rotation speed - tilt. (max.)	3.1 rad/s (180°/s)
Rotation speed - rot. (max.)	2.2 rad/s (125°/s)
Maximum allowable tilt moment	882 Nm
Maximum allowable rotation moment	294 Nm



CELL DIMENSIONS
3000 x 6000 mm



POSITIONER LOAD CAPACITY
300 kg per side



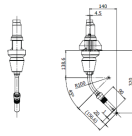
POSITIONER PLATE DIMENSION
Ø 500 mm

WELDING EQUIPMENT



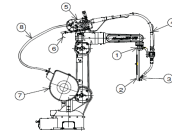
Welding machine WB-P402

- 400A MIG/MAG digital inverter pulse power source
- Integrated pulse waveform control
- Integrated I/F board for FD-series
- High dust resistance
- Integrated high speed pulse mode
- 400 A rated welding current at a 50% duty cycle
- Air cooled



OTC torch

- Type RTH3500H
- 350A / 45 / air-cooled / Fe / Sus
- Wire diameter: Ø1.2mm
- Other available wire diameters: Ø0.8 – Ø1.6mm, with optional torch curvatures (straight or 31°)
- Equipped with shock sensor



Welding accessory kit FD

1. Torch bracket
2. Torch gauge assy
3. Tip gauge assy
4. Coaxial power cable
5. Wire feeder unit
6. Feeder bracket
7. Wire reel stand
8. Conduit



Torch cleaning station

- Automatic, electro-pneumatic program sequence
- Cleans the gas nozzle and applies anti-spatter fluid in a single position, automatically repeating the application after each cleaning cycle
- Adjustable gas nozzle fixing piece for different gas nozzle diameters



OTC-controller FD19 with Teach pendant

Ensuring precise welding speed, maintaining perfect torch posture for every weld, and enabling effortless teaching and programming with advanced integrated technology.

SAFETY EQUIPMENT

Included in the system

Start box with emergency stop



Security optical curtain



Optional*

Sensors

- Touch sensor FD-WD
- Arc sensor FD-AR
- Laser sensor FD-QD
- Laser tracking sensor FD-QTS
- 2D vision sensor function

On request

Other types of:

- Welding machines
- Robots
- Robotic welding torches

Service door

(can be customized)



Safety fence

(can be customized)



*at additional charge

6

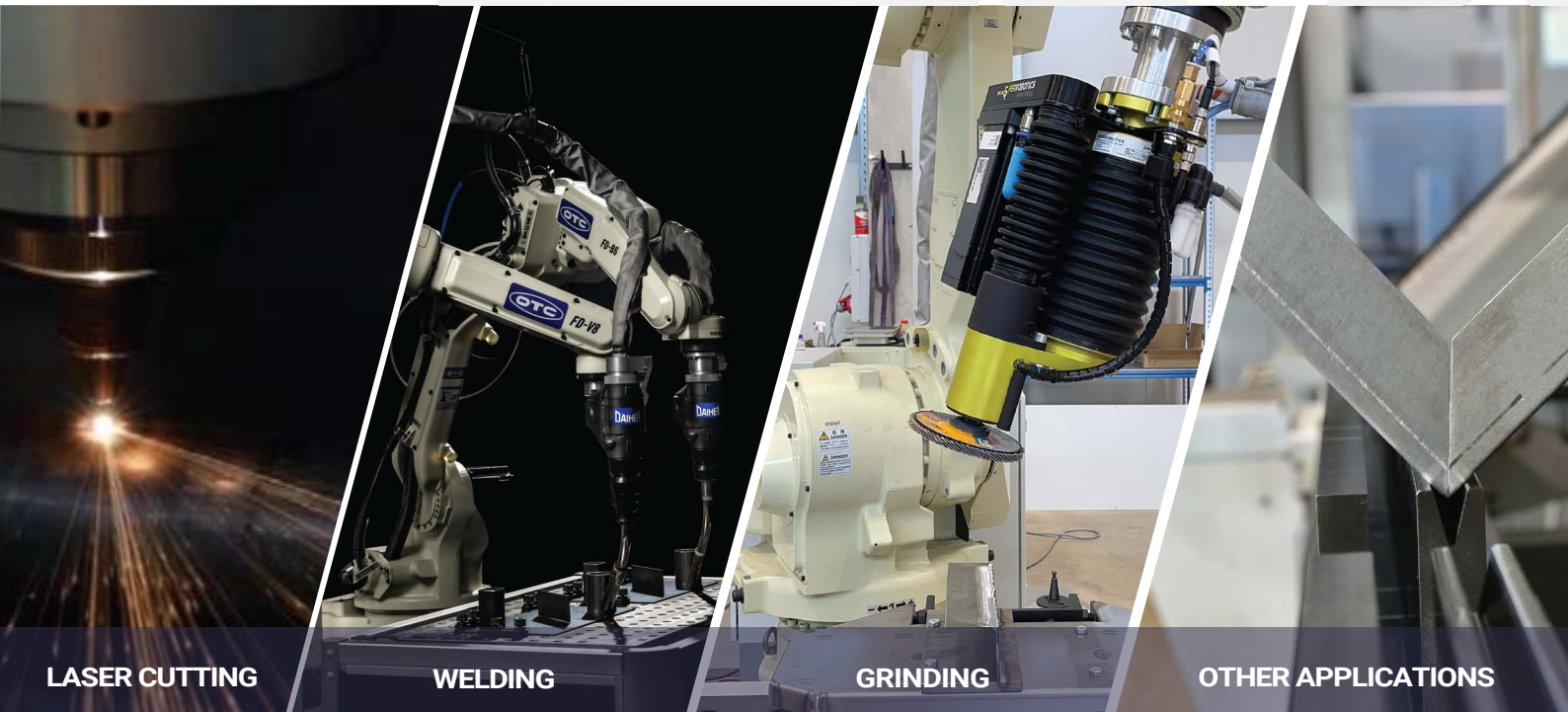
production & sales
locations across Europe

500

employees across the entire group
DAIHEN SMART SOLUTIONS EUROPE

2000+

successfully completed
robotic projects



LASER CUTTING

WELDING

GRINDING

OTHER APPLICATIONS

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www.daihen-varstroj.si

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