

## DALEX- a brief company overview

**DALEXs:**

**the high quality product portfolio**

(standard welding machines & special- machines & guns )

Mit freundlichen Grüßen / Kind regards / 你真誠

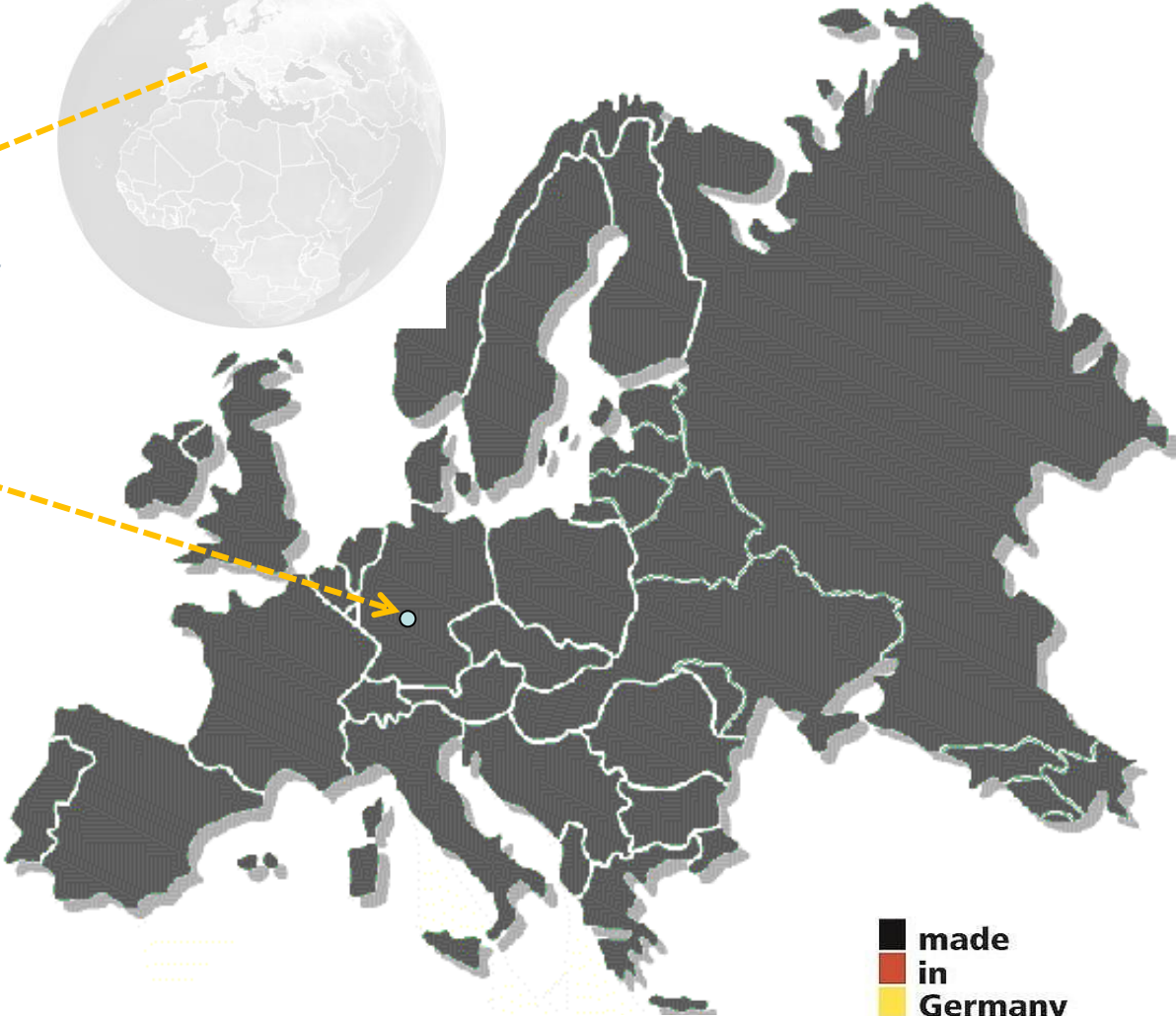
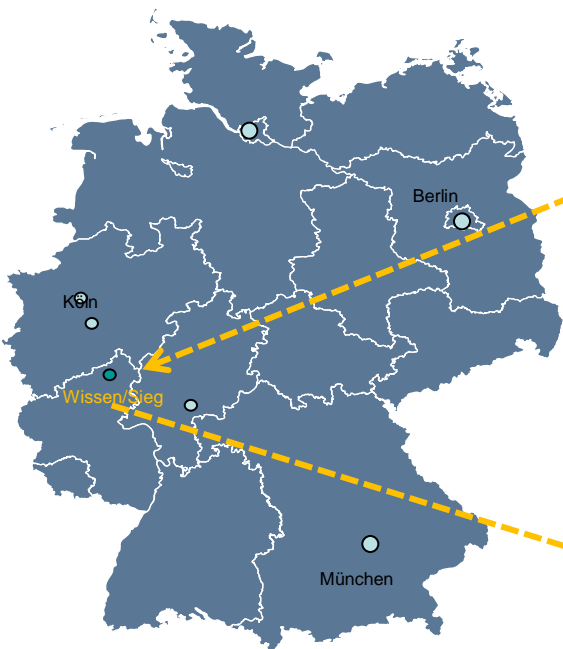
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<http://www.dalex.de>



# DALEX Standort / Location



DALEX location:  
D-57537 Wissen, Sieg  
*"in the west of central Germany"*



# History & Today



- 1911 foundation of Niepenberg & Co. KG in Solingen → manufacturing of high quality steel parts in particular razor blades
- 1936 start of production of welding transformers → base for an innovative and modern company
- 1945 start of production of first spot welding machine PK21/31, new era in welding technology
- 1950 complete change of production to welding technology, creation of brand DALEX (remembering ALEXander, son of Carl Niepenberg)
- 1963 DALEX-Werke become market leader in Germany in standard machines
- 1984 introduction of first direct current (DC) machine
- 1987 development of fast pneumatic cylinder “sprinter”
- 1996 development, production and sales of mid-frequency machines
- 1998 certification according DIN EN ISO 9001:2000
- 2004 Introduction of servotronic® for resistance welding machines; certification according VDA 6.4
- 2005 first development of foil seam welding machine
- 2006 first delivery of a complete production line for rear seat manufacturing in automotive industry
- 2008 award for extraordinary efforts in apprenticeship from government employment agency; award from Frost & Sullivan, London, for business strategy leadership
- 2011 100 years DALEX





**DALEX Today** location: Deutschland,

8.500 sqm production - 4.000 kVA energy supply - 130 employees including 11 apprentices  
brand awareness DALEX >90 % (national, Industry) - >16 MEUR sales p.y.



# DALEX

**SPECIAL  
EQUIPMENT**

**SERVICES &  
COMPONENTS**

**STANDARD-  
MACHINES**

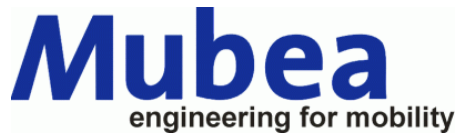
**WELDING  
GUNS**



DALEX:  
Global Players „of the automotive & supplier“



DALEX:  
Leading industry companies from all sectors





# DALEX:

## Leading industry companies from all sectors

Branchen unserer Kunden:  
**Industries of our customers:**

Zuliefererindustrie  
**supplier industry**

Metallbau  
**Metal construction**  
Stahlbau  
**steel construction**  
Maschinenbau  
**mechanical engineering**  
Blechschlosserei  
**Sheet Locksmith**

Lüftungsbau  
**Ventilation Companies**  
Gerätebau  
**Equipment manufacturing**  
Schrankbau  
**cabinet construction**

Montage-Montagetechnik  
**Mounting assembly technology**  
Industrieanlagenbau  
**industrial plant construction**

Schulen **schools**  
Ausbildungsstätten  
**training centers**

Bautechnik  
**Structural Engineering**  
Baugewerbe  
**construction sector**



Selzer  
Thyssen Krupp  
Mann & Hummel



Brose  
Phillips  
Rittal

Siemens  
Hammerstein  
Ned Car, Holland



Miele  
Lambertz  
Kronprinz

HCR, USA  
Linde & Wieman  
Hauni, Ungarn



MAN  
Sachs  
SSI-Werke

Thyssen Nothelfer  
Elektrolux  
IBC  
Mannesmann Sachs



ISE  
SLV  
Neef

Bosch  
Valeo




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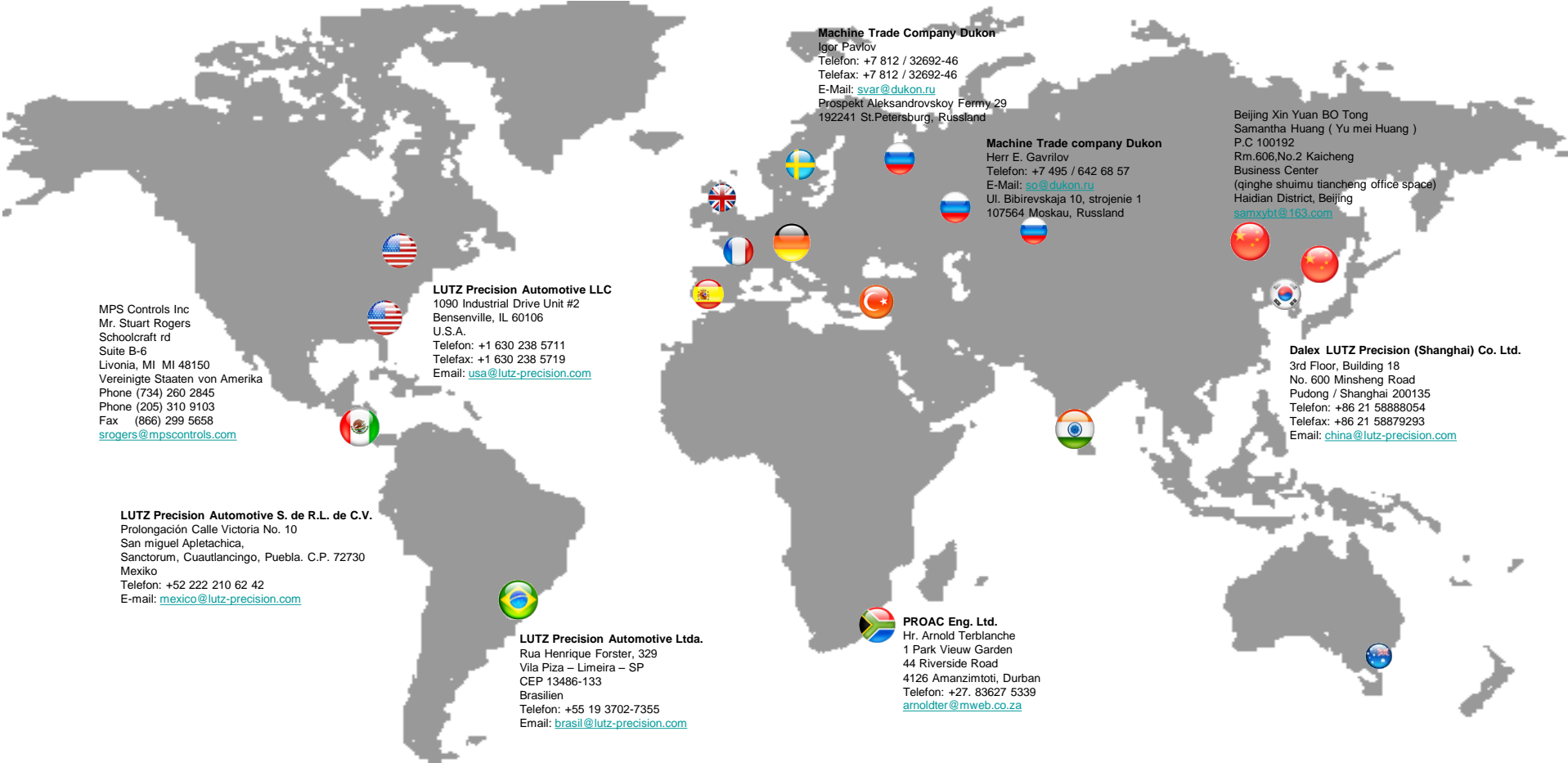
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# DALEX

## Türkei / Türkiye



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SCHWEISSTECHNIK

DALEX Türkei

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**DALEXs standard machines**

**the high quality product portfolio**





# DALEX L-TYPE

## Technische Daten / Technical Data



Dalex L4-6





L4



L6



### TECHNISCHE DATEN | TECHNICAL DATA

Modell	L4 		L6 	
Elektrodenführung <i>electrode guide</i>	Parallelhub <i>parallel stroke</i>		Parallelhub <i>parallel stroke</i>	
Stromform <i>kind of current</i>	AC	MF	AC	MF
Nennleistung/ <i>Nominal input</i>	80 kVA (50 % ED/d.c.)	180 kVA (20 % ED/d.c.)	160 kVA (50 % ED/d.c.)	250 kVA (20 % ED/d.c.)
Ausladung <i>Throat Length</i>	min / max 300 - 800 mm		fix 350 mm	
Elektrodenkraft <i>electrode force</i>	min / max 1,0 - 6,0 kN		min / max 3,0 - 18,0 kN	
Hubanzahl <i>numbers of strokes</i>	Einfachhub <i>single stroke</i>			
Armabstand <i>distance between arms</i>	min / max 150 - 400 mm		min / max 150 - 500 mm	
Steuerung/Anzahl Zeitparameter <i>welding control/numbers of time parameters</i>	9		9	
Steuerung/Programmanzahl <i>welding control/numbers of programs</i>	10		10	



# DALEX L-TYPE Spot L4 AC- 50Hz & L4 MF/DC- 1000Hz

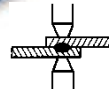
## QUALITÄT ÜBERZEUGT | PRIME QUALITY CONVINCES

- robuste Technik für den industriellen Einsatz
- hochwertige Komponenten
- Punkt- und Buckelschweißen
- Wechselstrom- und Mittelfrequenztechnik
- leichte Bedienbarkeit
- kurze Rüstzeiten
- entwickelt für die „schlanke Produktion“
- hohe Energieeffizienz
- preiswerte Premium-Qualität

- *rugged technology for industrial purposes*
- *high grade components*
- *spot & projection welding*
- *AC and mid frequency technology*
- *easy to use*
- *short setup time*
- *lean manufacturing philosophy*
- *energy efficiency*
- *best value for money in prime quality*



Punktschweißmaschinen Baureihe L4  
Spot Welding machines Class L4



Buckelschweißmaschinen Baureihe L6  
Projection Welding machines Class L6





# DALEX L-TYPE Spot L4 AC- 50Hz & L4 MF/DC- 1000Hz

### TECHNICAL DETAILS

#### L4 Spot-welding machine

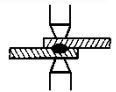
- non-distortion machine frame with Omega-shape
- infinitely adjustable height of upper and lower throat length
- pre-mounted electrodeholder
- very good performance factor via the close coupling of the secondary circuits
- electrode force can be infinitely regulated
- separate cooling water circuits for cooling the current-carrying parts and the power stage
- welding transformer cast in resin for water-cooling and thermal protective switch is fully enclosed in the primary side
- primary and secondary coils vacuum cast
- compressed air service unit as standard, consisting of regulator and manometer
- menu-driven, multilingual synchronised welding control with one-button handling and graphical display
- main-switch acc. VDE 0113
- CE-mark

### OPTIONAL FEATURES

- cooling water flow switch
- support system for workpiece

### TECHNICAL DATA

electrode guide  
 kind of current  
 nominal input  
 throat length  
 electrode force  
 numbers of strokes  
 distance between arms  
 welding control / numbers of time parameters  
 welding control / numbers of programmes



#### L4 AC

parallel stroke  
 AC  
 80 kVA (50 % d.c.)  
 min / max 300 - 800 mm  
 min / max 1,0 - 6,0 kN  
 single stroke  
 min / max 150 - 400 mm  
 9  
 10

#### L4 MF/DC

parallel stroke  
 MF  
 180 kVA (20 % d.c.)  
 min / max 300 - 800 mm  
 min / max 1,0 - 6,0 kN  
 single stroke  
 min / max 150 - 400 mm  
 9  
 10





# DALEX L-TYPE Projektion

## L6 AC- 50Hz & L6 MF/DC- 1000Hz

### TECHNICAL DETAILS

#### L6 Projektion-welding machine

- non-distortion machine frame with Omega-shape
- infinitely adjustable height of upper and lower throat length
- pre-mounted electrodeholder
- very good performance factor via the close coupling of the secondary circuits
- electrode force can be infinitely regulated
- separate cooling water circuits for cooling the current-carrying parts and the power stage
- welding transformer cast in resin for water-cooling and thermal protective switch is fully enclosed in the primary side
- primary and secondary coils vacuum cast
- compressed air service unit as standard, consisting of regulator and manometer
- menu-driven, multilingual synchronised welding control with one-button handling and graphical display
- main-switch acc. VDE 0113
- CE-mark

### OPTIONAL FEATURES

- cooling water flow switch
- support system for workpiece

### TECHNICAL DATA

electrode guide  
 kind of current  
 nominal input  
 throat length  
 electrode force  
 numbers of strokes  
 distance between arms  
 welding control / numbers of time parameters  
 welding control / numbers of programmes



#### L6 AC

parallel stroke  
 AC  
 160 kVA (50 % d.c.)  
 min / max 300 - 800 mm  
 min / max 1,0 - 6,0 kN  
 single stroke  
 min / max 150 - 400 mm  
 9  
 10

#### L6 MF/DC

parallel stroke  
 MF  
 250 kVA (20 % d.c.)  
 min / max 300 - 800 mm  
 min / max 1,0 - 6,0 kN  
 single stroke  
 min / max 150 - 400 mm  
 9  
 10



**DALEXs Rollnaht / Seam welding machines**

**the high quality product portfolio**



# DALEX TYPE Rollnaht / Seam welding PMS11-4 Q - AC- 50Hz + MPS100 Controller



MPS 100

**Technische Daten/TECHNICAL-DATA**

welding control numbers of  
time parameters:  
Schweißparameter Zeiten:

**MPS100**

5

welding control numbers  
of programs:  
Anzahl Schweißprogramme:

9

**Technische Daten / Technical Data**

Nennleistung/Nominal input 50% ED:

50, 80 o. 100 kVA

Ausladung/Throat Length:

250, 350, 550,750 o. 1050mm

Elektrodenkraft/electrode force:

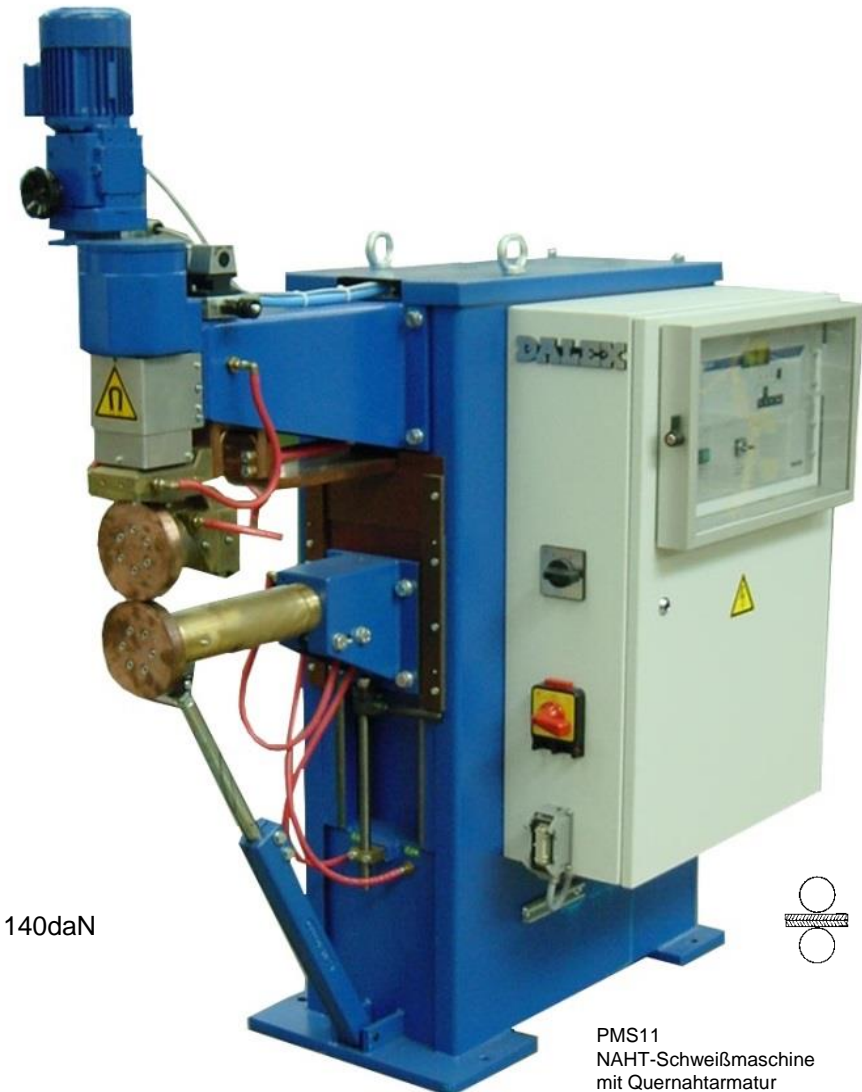
100-600daN, 20-600daN o. 190-1140daN

Elektrodenhub/electrode strokes:

max. 90mm Hub 1

Schweißsteuerung/welding controller:

9 Programme / Programs



PMS11  
NAHT-Schweißmaschine  
mit Quernahtarmatur







# DALEX TYPE Rollnaht / Seam welding PMS11-4 L - AC- 50Hz + MPS100 Controller



MPS 100

**Technische Daten/TECHNICAL-DATA**

welding control numbers of  
time parameters:  
Schweißparameter Zeiten:

**MPS100**

5

welding control numbers  
of programs:  
Anzahl Schweißprogramme:

9

**Technische Daten / Technical Data**

Nennleistung/Nominal input 50% ED:

50, 80 o. 100 kVA

Ausladung/Throat Length:

250, 350, 550,750 o. 1050mm

Elektrodenkraft/electrode force:

100-600daN, 20-600daN o. 190-1140daN

Elektrodenhub/electrode strokes:

max. 90mm Hub 1

Schweißsteuerung/welding controller:

9 Programme / Programs



PMS11  
NAHT-Schweißmaschine  
mit Längsnahtarmatur





# DALEX TYPE Rollnaht / Seam welding

## PMS11-4 Q&L - AC- 50Hz + MPS100 Controller



### TECHNISCHE MERKMALE

Verwindungssteifer Maschinenständer in Schalenbauweise mit Verrippung

Groß dimensionierter Anbauschaltschrank zur Aufnahme von Schweiß- und Maschinen

Absolute Trennung zwischen Maschinen- und Schaltraum

Stufenlose Höhenverstellung der unteren Armatur

Elektrodenkraftzylinder mit Präzisionsführung und externem Verdrehschutz

Sehr guter Leistungsfaktor durch die enge Kopplung des Sekundärkreises

Elektrodenkraft stufenlos regulierbar

Geschwindigkeit von Vor- u. Rückhub des Zylinders separat über Drosseln regelbar

Vier getrennte Kühlwasserkreise zur Kühlung der stromführenden Teile und der Leistungsstufe

Schweißtransformator in Gießharz-Verbundbauweise zur Wasserkühlung und Thermoschutzschalter primärseitig voll gekapselt

Primär- und Sekundärspulen im Vakuum vergossen

Druckluftwartungseinheit serienmäßig bestehend aus Druckluftfilter, Druckluftregler mit Manometer

### ZUSATZAUSTATTUNG

- Doppelhubzylinder (DH), 65 + 25 mm Hub
- Doppelhubzylinder mit Zustellung für den Vorhub (DHZ), 0 – 65 mm Vorhub + 25 - 90 mm Arbeitshub
- Doppelhubzylinder mit Zustellhub und Folgeschaltung (DHZF) 0 – 90 mm Zustellhub für den Vorhub , 0 – 90 mm Arbeitshub oder 90 mm Langhub
- Zylinder mit erweitertem Elektrodenkraftbereich 20 - 600 daN
- Zylinder mit erhöhtem Elektrodenkraftbereich 190–1140 daN
- Durchflußwächter zur Überwachung der Kühlwassermenge
- Verstelleinrichtung zur Höhenverstellung der unteren Armatur
- Druckloses Absenken der Oberarmatur über Handventil
- Elektrodenkraftschalter elektronisch
- Doppelte Sekundär-Leerlaufspannung
- 4-Stufenschalter im Anbauschaltschrank montiert
- Hauptschalter im Anbauschaltschrank montiert
- Druckausgleichswerkzeug zum Ausgleich von Werkzeugtoleranzen
- Ausführung als Dreiphasen-Gleichstrommaschine
- Synchron-Thyristor-Steuerung nach Wahl



**DALEXs Hanschweißzangen / Manuel welding guns**

**the high quality product portfolio**



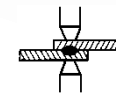
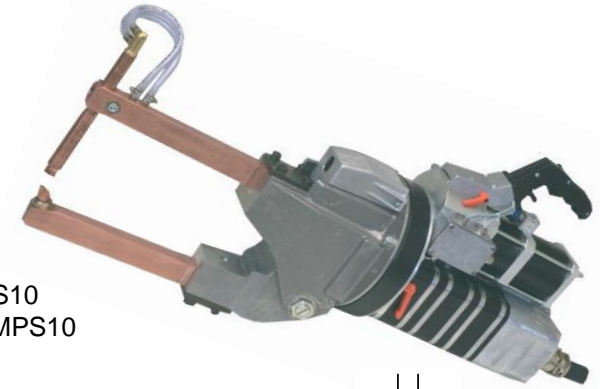
# DALEX Handschweißzangen C (X) & L DALEX Manuel welding gun C(X)&L

### Technische Daten / TECHNICAL DATA

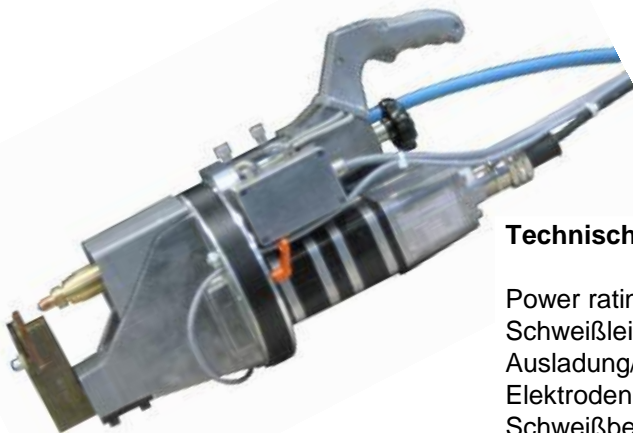
Nennleistung/Power rating at 50 % d.c:  
Schweißleistung/Secondary short-circuit current:  
Ausladung/Throat Length:  
Elektrodenkraft /Electrode force:  
Schweißbereich/Welding power:  
Schweißsteuerung/Compatible welding control:  
  
Wasserrückkühler/Compatible water recoler:  
Federzug/Compatible spring balancer:

### 3329

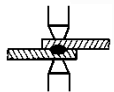
25 kVA  
17 kA  
170 mm  
440 daN  
Steel sheet 3 + 3 mm / max. 4 + 4 mm  
B 200 Freistehender Schaltschrank mit MPS10  
Free-standing welding control with slide-in MPS10  
COOL1  
D5/60-1



L- Gun 3329



C- Gun 3346-4



### Technische Daten / TECHNICAL DATA

Power rating at 50 % d.c:  
Schweißleistung/Secondary short-circuit current:  
Ausladung/Throat Length:  
Elektrodenkraft /Electrode force:  
Schweißbereich/Welding power:  
Schweißsteuerung/Compatible welding control:  
  
Schweißsteuerung/Compatible welding control:  
Federzug/Compatible welding control:

### 3346-4

22 kVA  
17 kA  
120 mm  
360 daN  
Steel sheet 3 + 3 mm / max. 4 + 4 mm  
B 200 Freistehender Schaltschrank mit MPS10  
Free-standing welding control with slide-in MPS10  
COOL1  
D5/45-1





**DALEXs Zubehör / Accessories**

**the high quality product portfolio**



## DALEX Zubehör / Accessories



Federzug / Balancer:  
für Zange / for gun Type 3329:  
für Zange / for gun Type 3346-4:

D5/60-1  
D5/45-1

Handschweiß- Steuerung im Schaltschrank/  
Welding controller for manuel gun 3329 & 3346-4:  
Welding controller for machines L4 & L6 & PMS11

MPS 10  
MPS 10  
Filius

Wasserrückkühler / water cooler:  
DALEX Anlage/machine bis/till 250MF/DC:  
DALEX Anlage/machine bis/till 160AC  
DALEX Zange/Gun Type 3329 & 3346-4:

Cool 8  
Cool 4  
Cool 1



Filius



MPS 10



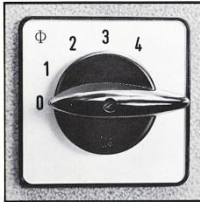
Cool 1



Cool 4 o 8



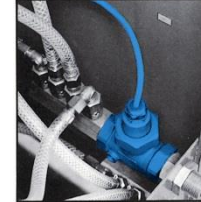
- 4-Step switch for coarse regulation of the welding power- mounted in switching cabinet



- Main switch acc. to VDE and installed in switching cabinet



- Flow monitor (water control switch) and situated at water inlet



- Filter silencer for oil-free exit air fitted to air outlet



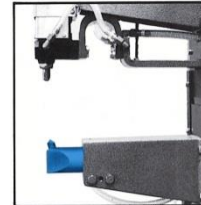
- Height adjustment tool with ratchet for adjusting the height of the lower arm



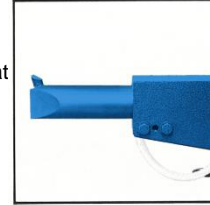
- 2-handsafety start console with stand, and height adjustment, proven safety with certification from trade organisations



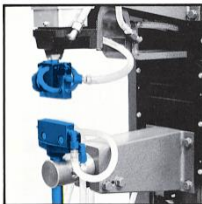
- Pipe arm as lower spot mounting



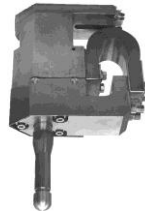
- Pipe-arm mounting with extra-large throat depth of the tubular arm as lower spot mounting



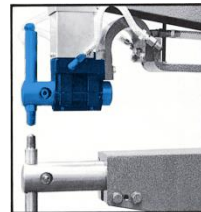
- Swing electrode holder above
- Beam electrode holder below



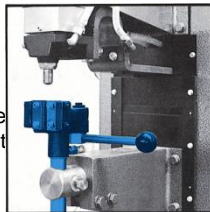
- Hydraulic welding element



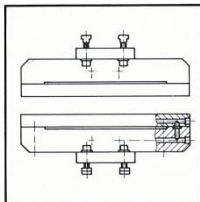
- Pre-constructed electrode holder



- Vice electrode for current-carrying clamping in hand-operated mechanism, pneumatic also available



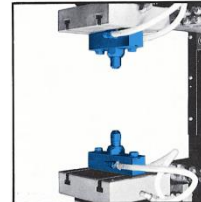
- Beam electrode with current-carrier for fitting onto the mounting plate above and below



- Pressure-compensator for projection welding for mounting under the upper clamping plate



- Flange-held electrode holder for using a projection welding machine as a spot welding machine

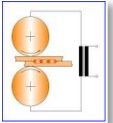
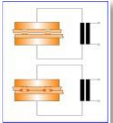
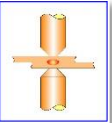
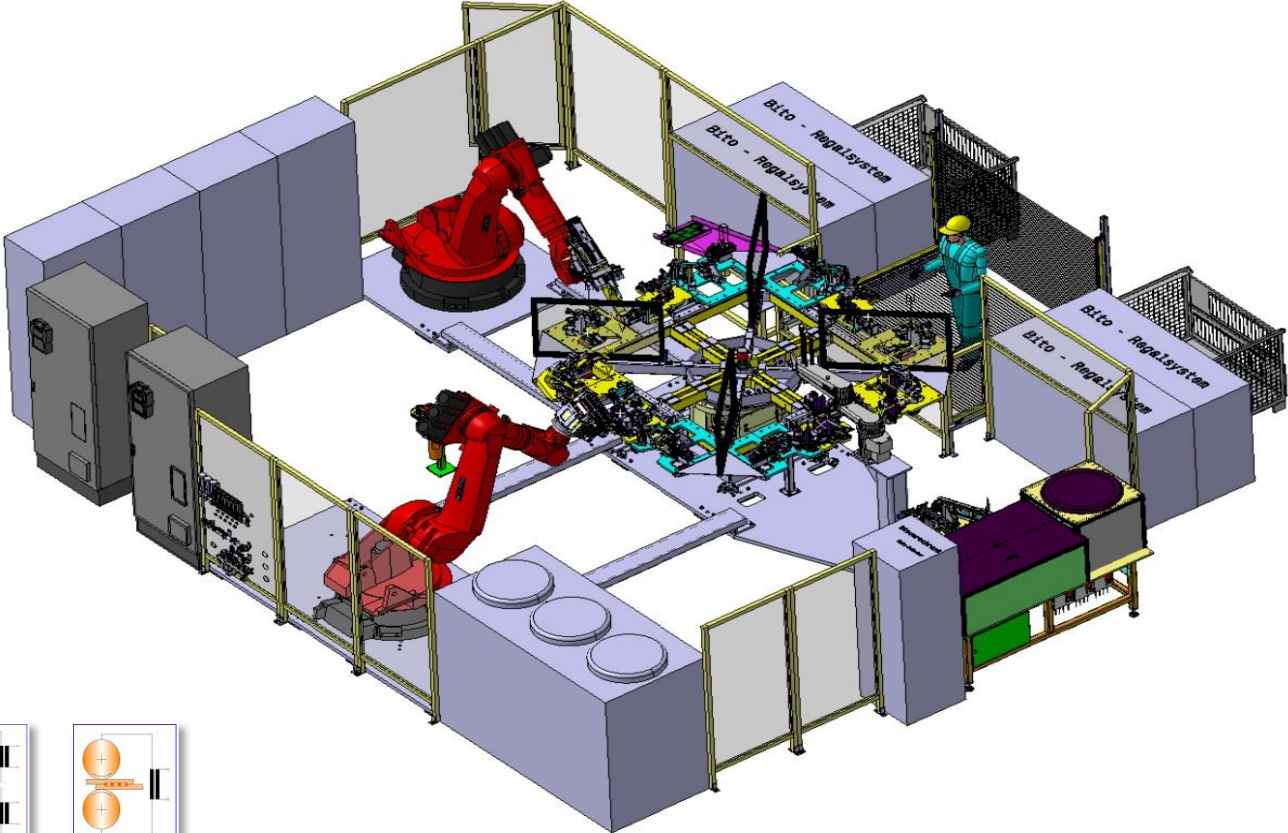


- Rotating table 6-part divisioning for rational welding in mass-production



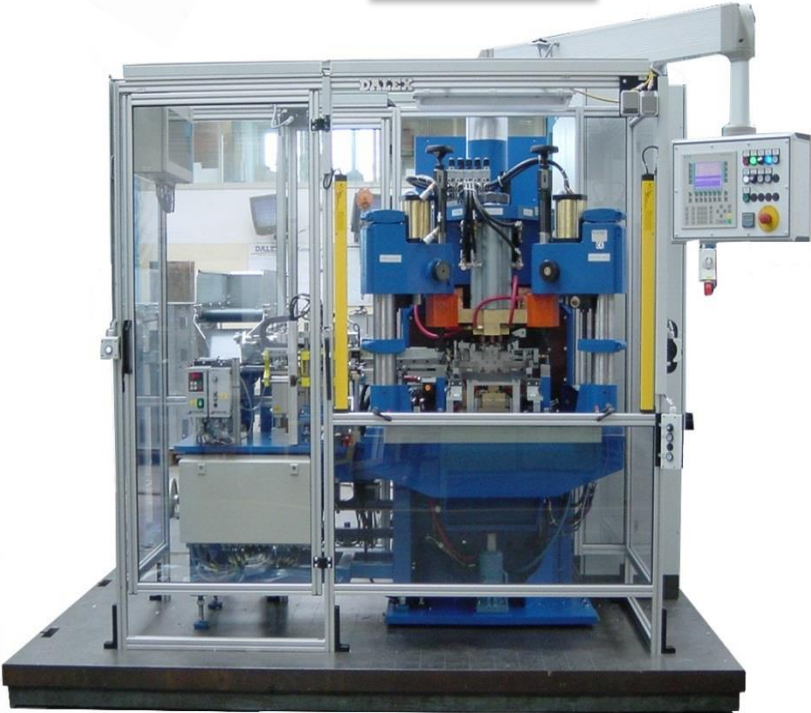
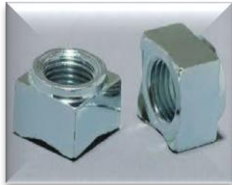
DALEXs special machines

the high quality product portfolio





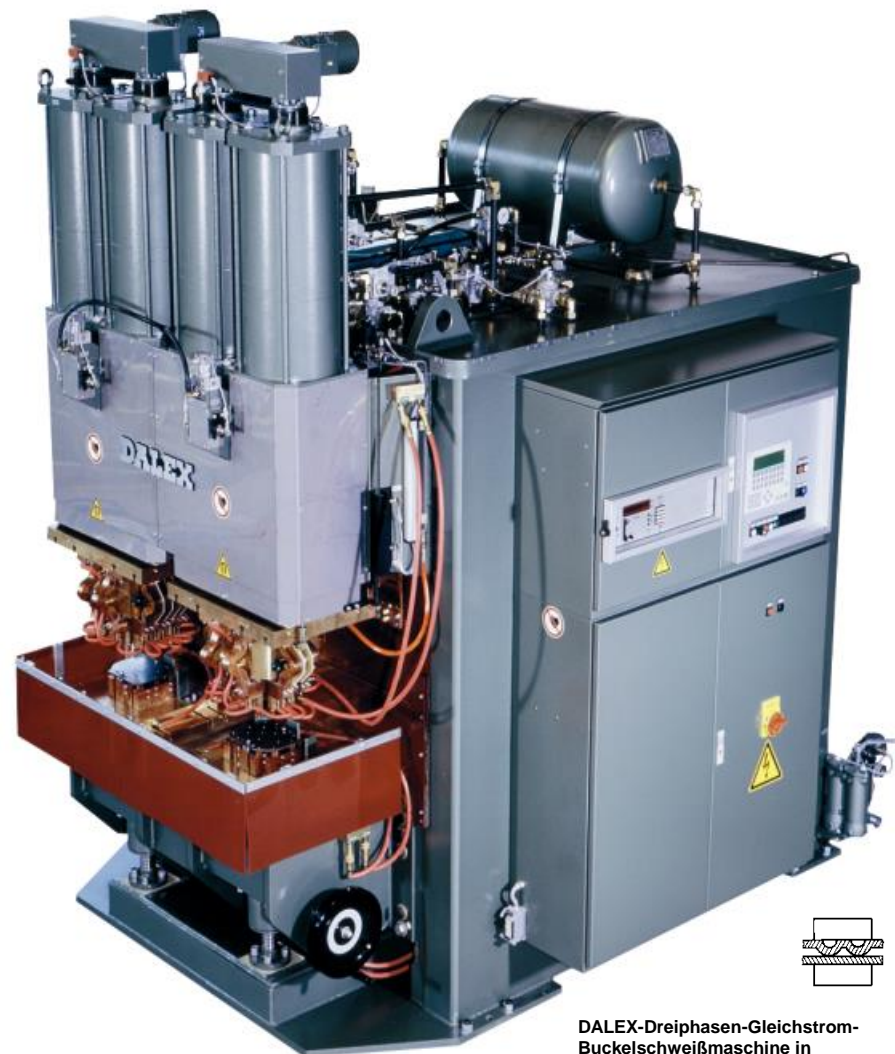
Sonderanlagen nach Kundenvorgaben / special equipment according to customer specifications





### TECHNISCHE DATEN - Technical Data

Typ/Type	PMS 38-5 G3
Ausführung/performance	C-DHZF
Anschlußspannung/terminal voltage	400 Volt, 50 Hz
Nennleistung bei 50 % ED Power rating at 50 % d.c	1200 (6 x 200) kVA
Maschinenausladung/Throat depth	350 mm
Elektrodenkraft/electrode force	2 x 12500 daN
Hub/stroke	150 mm



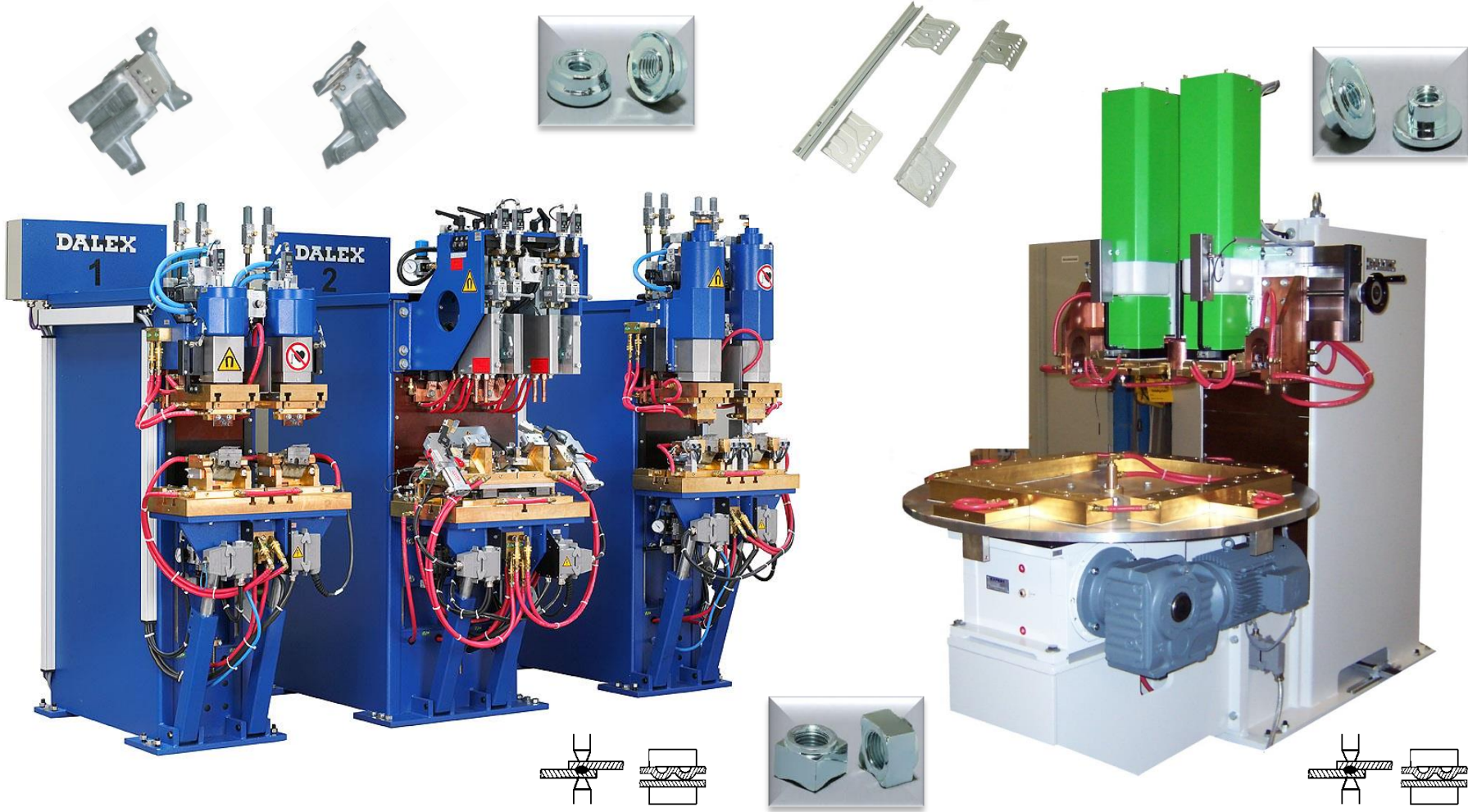
DALEX-Dreiphasen-Gleichstrom-  
Buckelschweißmaschine in  
Doppelkopfausführung



# DALEX Doppelkopf / Double head systems



Sonderanlagen nach Kundenvorgaben / special equipment according to customer specifications





### TECHNISCHE DATEN - Technical Data

Typ/Type	PMS 34-4
Ausführung/performance	C-EH
Anschlußspannung/terminal voltage	400 Volt, 50 Hz
Nennleistung bei 50 % ED Power rating at 50 % d.c.	250 kVA
Maschinenausladung throat depth	200 mm
Elektrodenkraft electrode force	300-1000 daN/je Zylinder
Hub/stroke	100 mm/je Zylinder
Sekundär-Kurzschlußstrom Secondary Circuit current	75 kA
Drehtisch/turntable	Sechserteilung/six division Ø1000mm
Produktionsleistung/output	ca.40 Teile-Parts/min. (20 Takte)



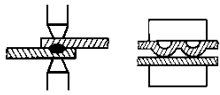
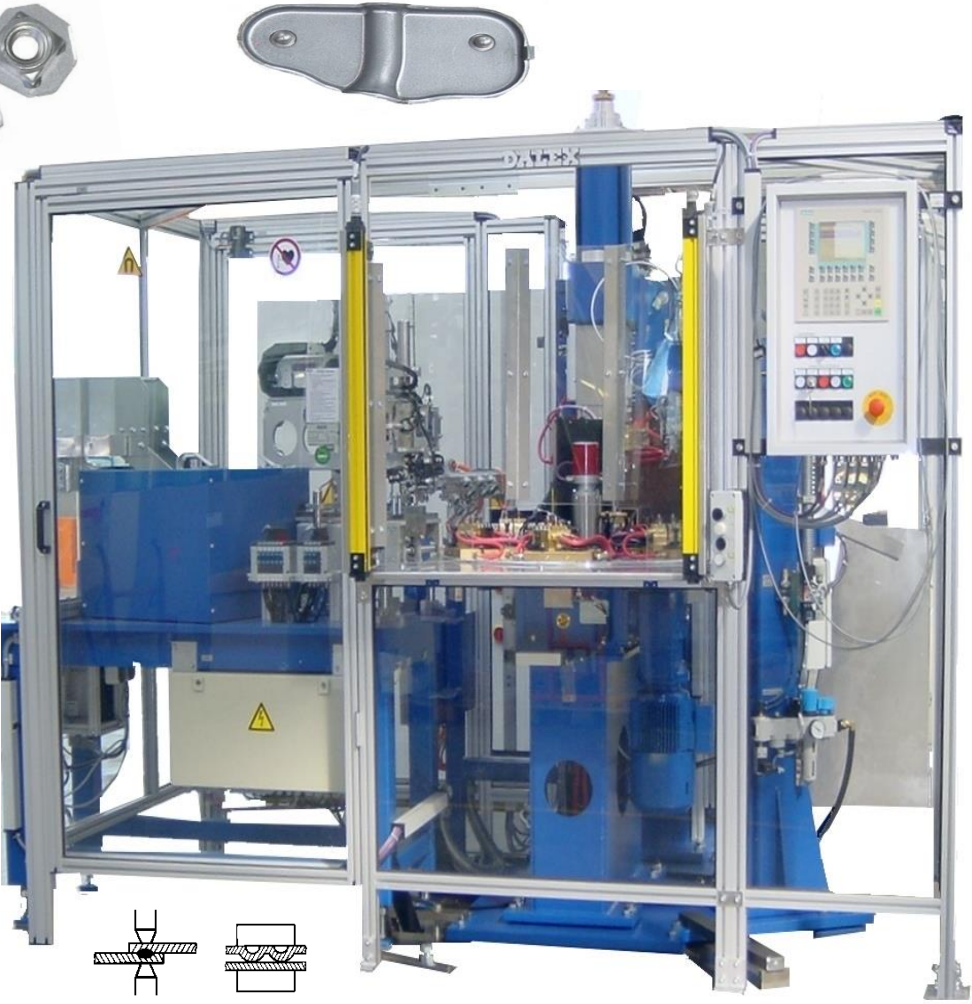
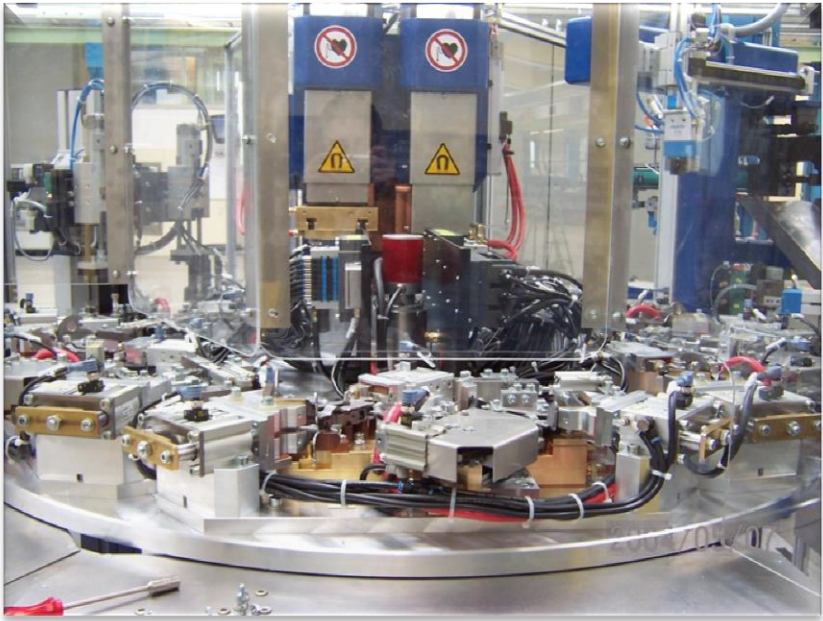
DALEX-Doppelkopf-Buckelschweißmaschine in Drehtischausführung für Serienschweißung (Abb.1)







Sonderanlagen nach Kundenvorgaben / special equipment according to customer specifications



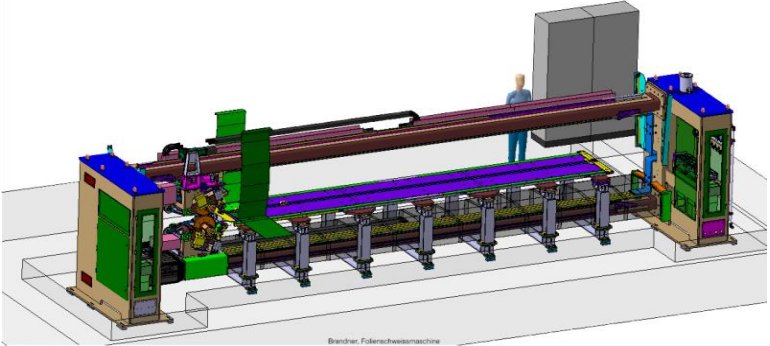
# DALEX

## Portal Rollnaht- Sonderanlagen / Portal Seamwelding- Special Machines



# DALEX

SCHWEISSTECHNIK



DALEX Portalschweißanlage  
Brantner

Nennleistung bei 50 % ED  
Power rating at 50 % d.c

1000 (2x500kVA) or  
1200 (4 x300kVA) or  
1400 (2x700kVA)





Nennleistung bei 50 % ED / Power rating at 50 % d.c.

2000 kVA (4x500kVA) or 1800kVA (6x300kVA)

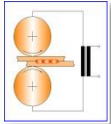
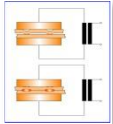
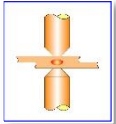
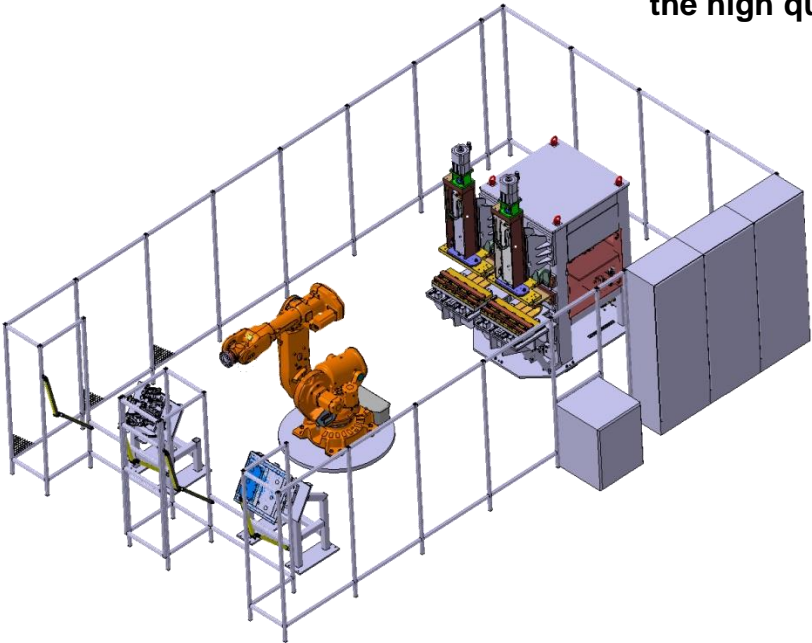
DALEX Portalschweißanlage Stihl





DALEXs Robot based Automation

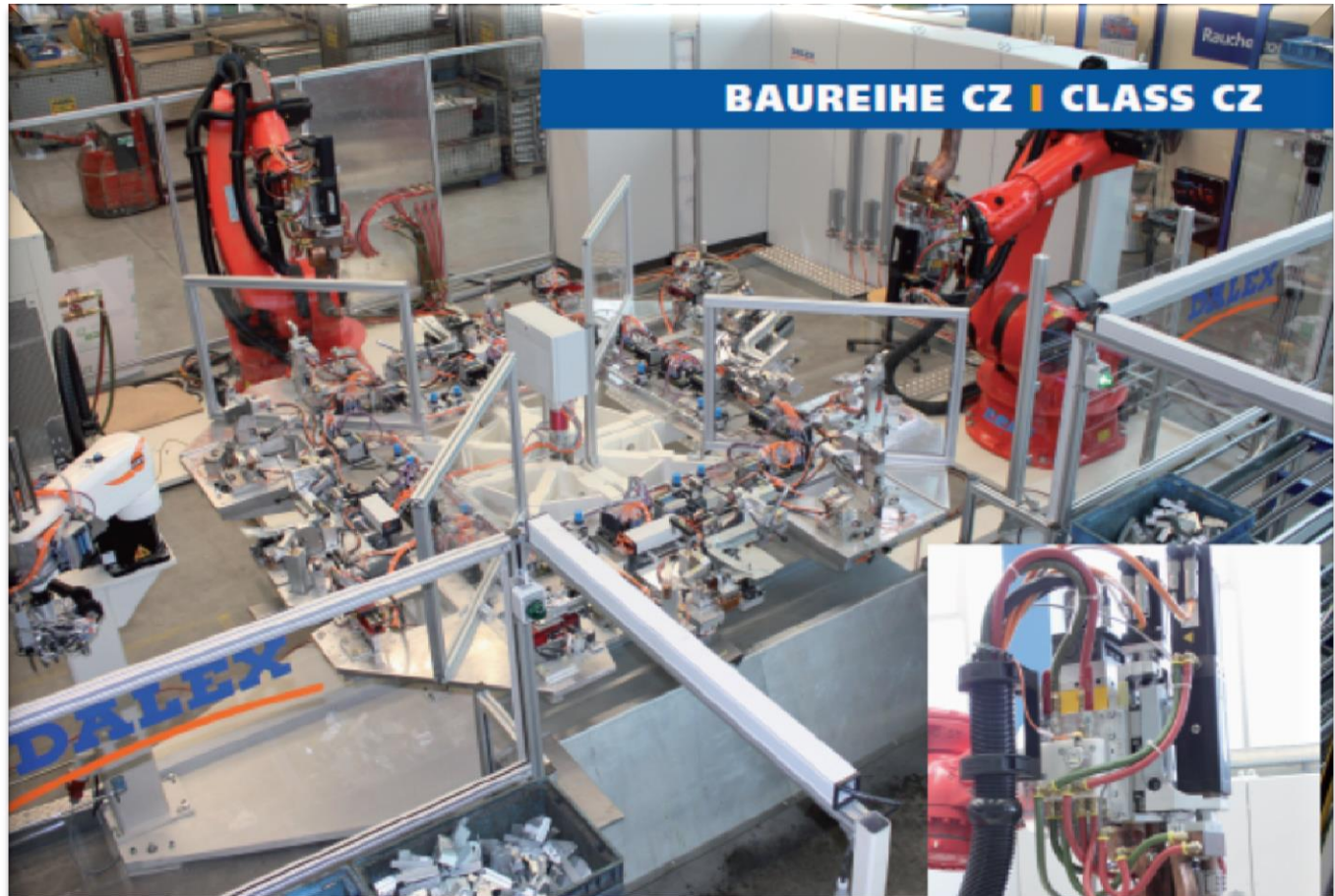
the high quality product portfolio



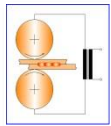
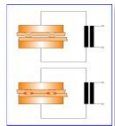
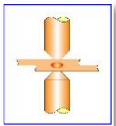
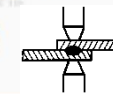


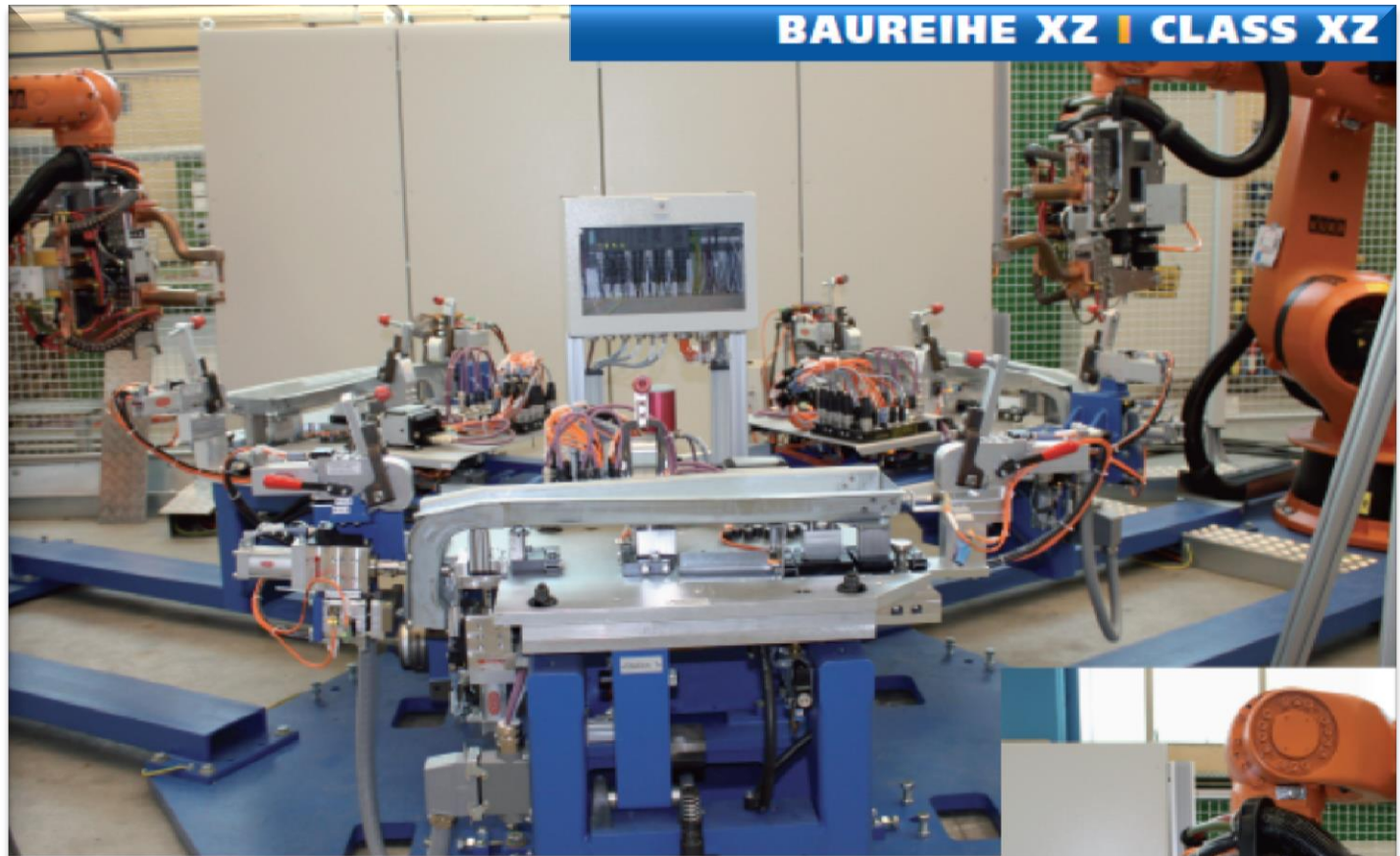
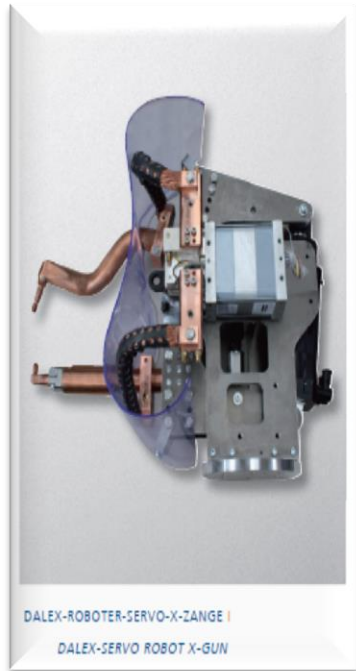


DALEX-ROBTER-SERVO-C-ZANGE |  
DALEX-SERVO ROBOT C-GUN

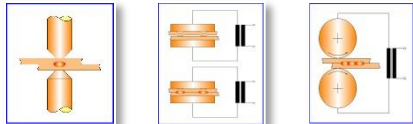
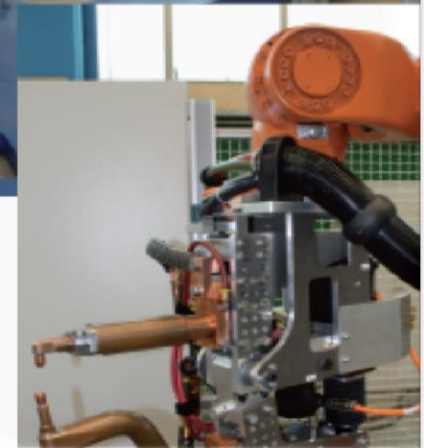


ROBOTERSCHWEISSANLAGE MIT 2 CZ-ZANGEN |  
ROBOT WELDING CELL WITH 2 CZ-GUNS





**ROBOTERSCHWEISSANLAGE MIT 2 XZ-ZANGEN |**  
**ROBOT WELDING CELL WITH 2 XZ-GUNS**

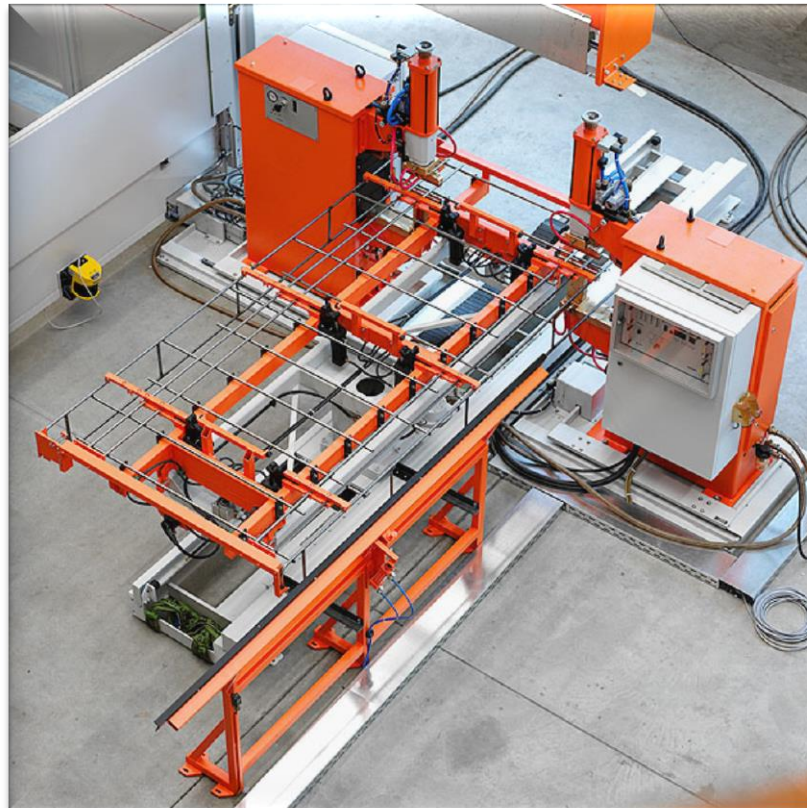






**DALEXs Laser & MIG/MAG based Automation**

the high quality product portfolio

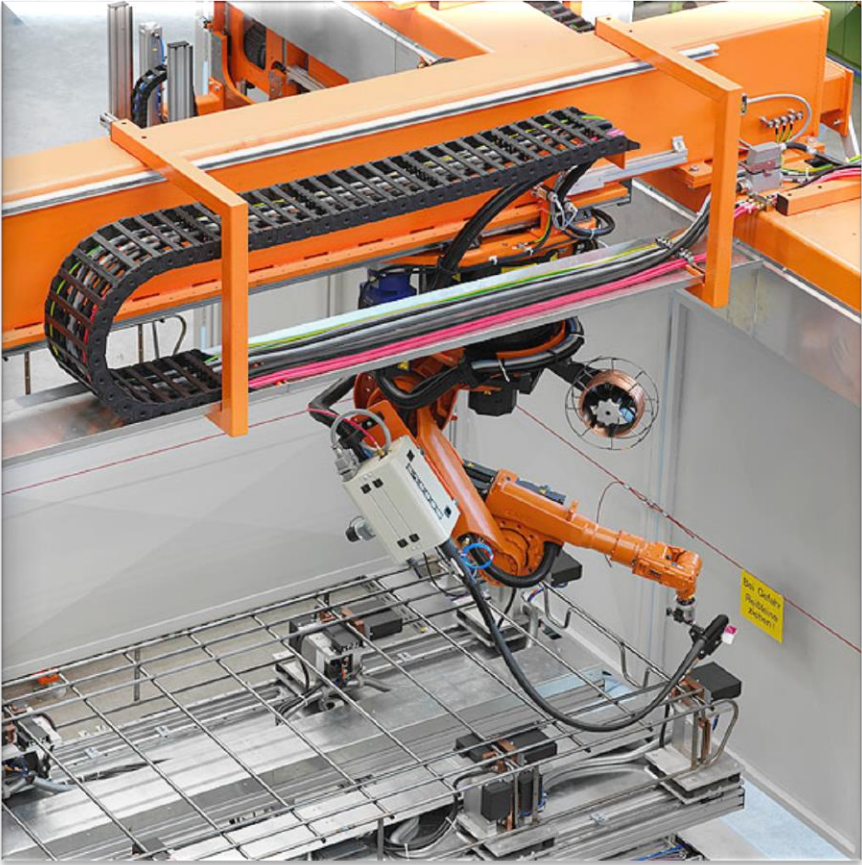


# DALEX Expertise – Development – Solution

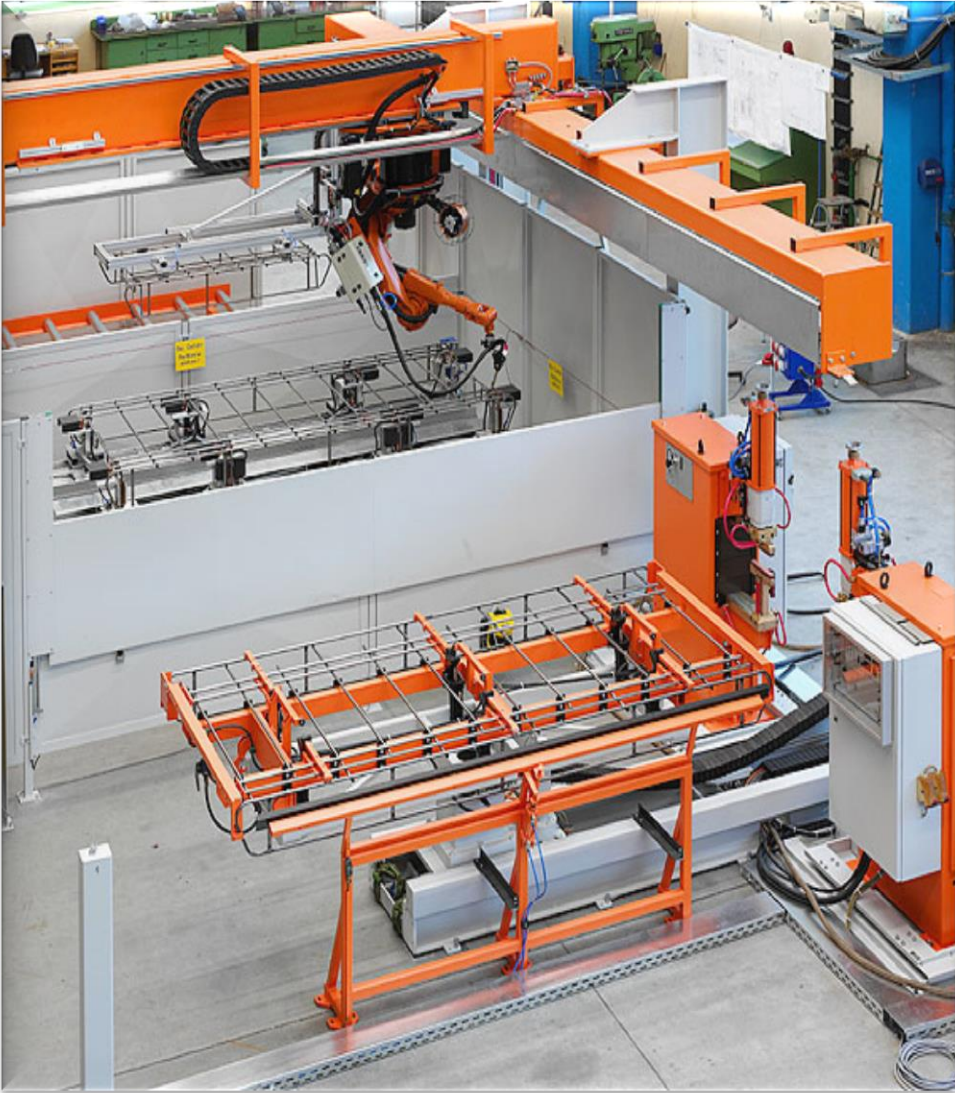


# DALEX

## SCHWEISSTECHNIK



DALEXs Laser & MIG/MAG based Automation  
the high quality product portfolio

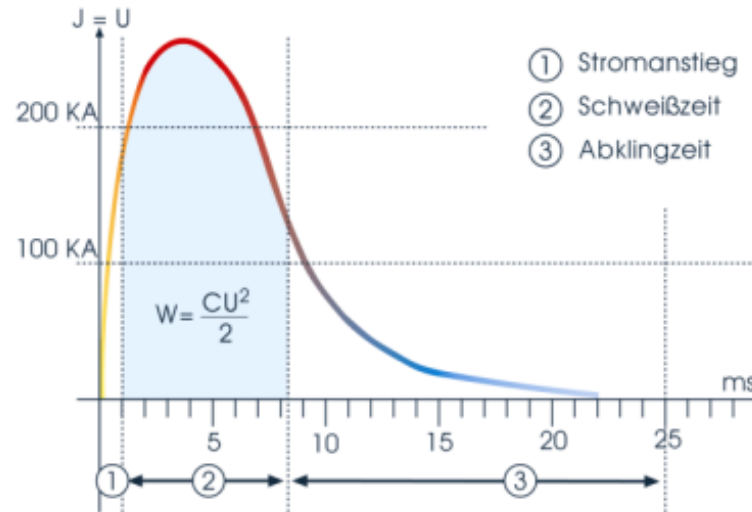






DALEXs KE/CD machines

the high quality product portfolio





Geringe Erwärmung der Elektroden =  
lange Standzeiten  
Low heating of the electrodes  
= long tool life



Geringe Netzbelastungen  
Low mains loads



Hohe Schweißströme (bis 800KA)  
High welding currents (up to 800KA)



Geringe Netzanschlusswerte  
(16, 32, 64, 120 Ampere)  
Low mains voltage values?  
(16, 32, 64, 120 amps)



Keine Verbrauchsmedien wie Wasser  
(evt. Luft) notwendig  
No medium like water usage  
(possibly air) required



KE-Schweißen  
benötigt  
kein Kühlwasser

KE-welding  
needs no  
cooling water



KE- saves  
Investment costs

KE-Schweißen  
benötigt keine  
Wasserkühlung

KE-welding does  
not require any  
water cooling



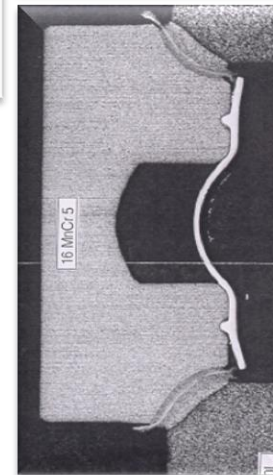
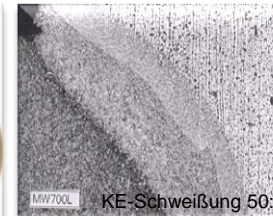
KE- reduces  
energy consumption

KE-Schweißen  
benötigt kaum  
Anschlußleistung

KE welding needs  
hardly any  
power connection



KE- improved  
the environmental  
balance



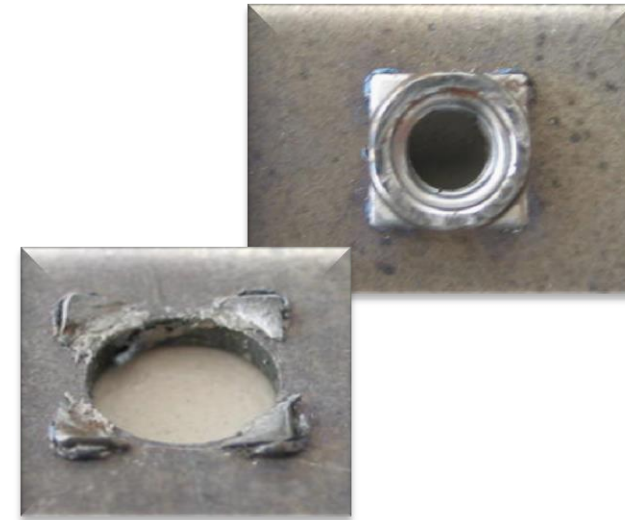
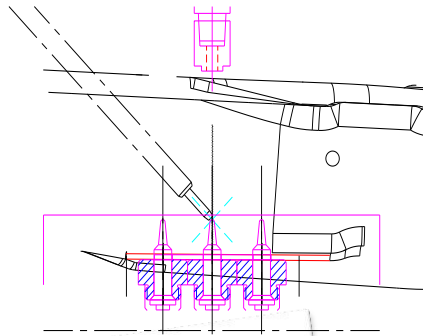
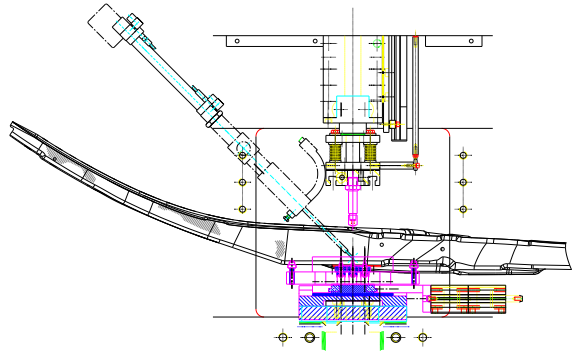
### Mess- Parameter ...

- ✓ Welding energy (Ws), welding current (KA), welding time (ms)
- ✓ Component tolerances(mm),penetration(mm),electrode force (KN)

### Projection welding of ...

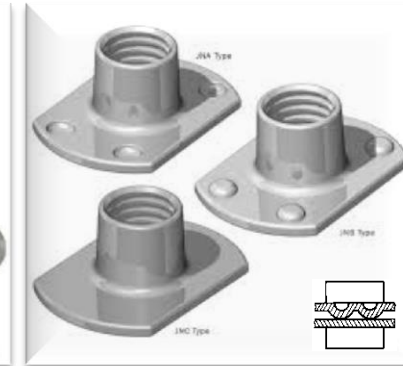
- ✓ - High-strength multi-phase steels ( $R_{0.2} < 1.600 \text{ MPa}$ )
- ✓ - Steels with a high carbon content ( $> 0.2\% \text{ C}$ )
- ✓ - Different materials (for example Copper + steel, brass + steel)
- ✓ - Surface coated components
- ✓ - Workpieces of different cross sections and surfaces
- ✓ - Weld nuts and weld bolts on Usiobor





### Projection welding of ...

- ✓ - High-strength multi-phase steels ( $R_{0.2} < 1.600 \text{ MPa}$ )
- ✓ - Steels with a high carbon content ( $> 0.2\% \text{ C}$ )
- ✓ - Different materials (for example Copper + steel, brass + steel)
- ✓ - Surface coated components
- ✓ - Workpieces of different cross sections and surfaces
- ✓ - Weld nuts and weld bolts on Usiobor







## DALEX SERVICE

DALEX takes on construction and commissioning of plant & equipment as well as inspection, care & maintenance and testing in accordance with BGVA3.

Being "quick on the job" and the minimizing of downtimes is our maxim. Our dedicated service team with the most modern technology can react rapidly & flexibly and sometimes unconventionally.

We offer training in theory and practice in the field of resistance welding technology. Practical training, on-site, on duty at your location, and at the machine or in our technology Center, working & learning on one of our many varied pieces of equipment- all ready for use.



Our in-house service team is constantly available for repair-work and ordering spare parts.



Specialized service technicians can be on-site for commissioning, care & maintenance and repairs



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[www.dalex.de](http://www.dalex.de)





THANK YOU FOR YOUR ATTENTION

Vielen Dank für Ihre Aufmerksamkeit

Wij danken u voor uw aandacht

感谢您的参与

