

## SPOT WELDING GUNS

# 31

## A 3139 S3

### APPLICATION AREAS

DALEX Spot welding guns of the series 31 are applied almost exclusively in the motor vehicle trade and in car body repair workshops.

The Spot welding gun A 3139 S3 performs faultless repairs on those difficult areas, such as damage to chassis.

Thereby water-cooled secondary circuit guarantees the same 1st class quality for all welded points.



Upon request A 3139 S2  
techn. data such as A 3139 S3.  
with Cardan spring balancer and  
compatible spring balancer: D4/21  
or D5/30

### TECHNICAL DATA

Type	A 3139 S3
Power rating at 50 % d.c.	8 kVA
Sec. short-circuit current	9,5 kA
Throat gap	120 mm
Electrode force	300 daN
Welding power	Steel sheet 3 + 3 mm
Compatible control unit	RS 15 Z alternative Variospot 3.3
Compatible water re cooler	COOL 1

### TECHNICAL DETAILS

- double stroke mechanism
- compressed air operation
- water cooled gun and electrode arms
- non-distortion-free square electrode arms
- low-deflection square electrode arms for optimum performance of the high electrode force
- universal usage by means of an all-round mounting system
- rotation-resistant square mounting in gun body
- easy positioning of the spot welding gun via cardan spring balancer (A3139 S3)
- welding transformer cast resin sandwich construction
- welding quality remains constant via the same sandwich construction
- toggle-joint system for raising electrode force
- connecting cable in standard 10m standard length and low connected load / input valves
- fusing 16 A

# SPOT WELDING GUN Type **A 3139 S3**

Technical Data* acc. to DIN 44753 / ISO 669			A 3139 S3		
Electrical part	Throat depth	mm	120		
	Machine power	Power rating 50 % d.c	kVA	8	
		Continuous rating	kVA	5,6	
		Max. short-circuit power	kVA	28	
		Max. welding power	kVA	22,4	
	Machine voltage	Secondary idling voltage	V	2,9	
		Mains connection	Rated primary voltage	V	400
	Rated frequency		Hz	50	
	Supply power		kVA	16,8	
	Main switch / Fusing		A	16	
	Wire range for cable length shorter = 15 m		mm <sup>2</sup>	2,5	
	Secondary current	Rated operating current	kA	2,7	
		Continuous current	kA	1,9	
		Short-circuit current	kA	9,5	
		Max. welding current	kA	7,6	
		Perm. duty cycle at highest welding current	%	6,25	
	Mechanical part	Spot mounting	Throat gap	mm	120
			Electrode arm diameter, height x width	mm	20 x 20
			Spot electrode / outer Ø	mm	12,5
		Compressed air operation	Short stroke / long stroke	mm	25/57
Electrode force min. / max.			daN	50/300	
Gun dimensions		3) Width x depth x height	mm	200 x 450 x 360	
		Weight	kg	15,5	
Welding values		1) Steel sheet 2)	mm	3 + 3	
		2) Round steel 15 % penetration	mm	8 + 8	

## Notes:

- 1) subject to influences, at a max. permitted voltage drop of 4 %
- 2) weldable quality with metallic clean surface, C-content 0,2 %
- 3) excl. electrode arms and spring balancer

Technical alterations reserved.

\*Details for shortest throat depth.