

DALEX

SCHWEISSTECHNIK

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.



fig. A 3139 S3

TECHNICAL DATA

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 |

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 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

Series 31

SPOT WELDING GUN

Spotwelding Gun Type A 3139 S3

| Technical Data* acc. to DIN 44753 / ISO 669 | | | A 3139 S3 | | |
|---|-------------------|---|--|-----------------|---------|
| Throat depth | | mm | 120 | | |
| Electrical part | 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 ² | 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.