Ditzler Vulkan

Plastic welding equipment



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For efficient, fast and safe work on all the thermoplastic plastics currently recognised, with continuous regulation to 600° C, stabilised to $\pm 2^{\circ}$ C, independent of the volume of air flow.









The powerful heating element is provided with double electrical insulation so that work can be carried out with greater safety in all areas.





The slim, compact and outstandingly light construction guarantees precise, efficient working under more difficult conditions, as well as in confined and inaccessible locations.

Standard device with 5m air tube, other lengths (8m/10m, ...) on request

accessories and equipment

lit by 3D minispot



5101 lit by 24V/20W minispot, consisting of:

5101.1 detachable ring on protective cover to DR1000 (red handle), DR1900 (blue handle)

5101.2 switching ring with 5m cable and special plug, suitable for electrical mains connecting equipment

5101/8m

lit by 24V/20W minispot with 8m cable consisting of:

5101.1 detachable ring on protective

> cover to DR1000 (red handle), DR1900 (blue handle)

5101.2/8m switching ring with 8m cable

and special plug, suitable for electrical mains connecting

equipment

3D control spot



5102 control spot 24V/20W

with handle and miniswitch, 5m cable and special plug, suitable for electrical mains connecting equipment

electrical mains connecting equipment



5120 mains connecting equipment with plug for lighting equipment

- 230 Volt for welding gear DR1000
- 24 Volt protection voltage for lighting
- fault current protection switch, Fi-30mA
- 2,5m power cable

5121 – 120 Volt for welding gear DR1900

5130 nitrogen/air mains connecting equipment with plug for lighting equipment

- 230 Volt for welding gear DR1000
- 24 Volt protection voltage for lighting
- fault current protection switch,
 Fi-30 mA
- 3-way valve to switch from nitrogen to air
- pressure reduction valve
- air flow meter, with 10-100 NL/min scale
- 2,5m power cable, with plug as required

5140 – 120 Volt for welding gear DR1900

welding air regulator combination



5215 flow meter made of plexiglas, transparent with scale 10-100 NL/min, 3/8" air connection nipple and hose connection

5210 welding air regulator combination

comprising pressure reduction station with manometer, oil separator, stop tap, flow meter with scale 10-100 NL/min and hose connection

accessories and equipment

table stand



5320 special table stand made of stainless steel for welding gear DR1000 / DR1900

stativ with temperature



5330 stativ with temperature display in stainless steel for welding gear DR1000 / DR1900

- print plate from -10°C to +50°C. (+14°F to +122°F)
- temperature sensor -40°C to +1000°C
- display limits -999.9°C to +999.9°C.

compressor



5250 supercharger 50 HZ, 230V, 435W

welding mirrors



welding mirror with / without table stand

- special teflon coating with high abrasion-resistance and non stick qualities
- precise heat distribution
- chemical-resistant against all materials
- temperatur-resistant up to 320°C
- special measurements and designs on request

standard:

5240 Ø 190 mm **5241** Ø 220 mm

5242 Ø 340 mm / hole Ø 160 mm

welding nozzles

round nozzles with lip



5020 Ø 3 mm
5021 Ø 4 mm
5022 Ø 5 mm
5023 Ø 6 mm
5024 Ø 8 mm

round nozzles without lip



5030 Ø 3 mm 5031 Ø 4 mm 5032 Ø 5 mm 5033 Ø 6 mm 5034 Ø 8 mm

stitch nozzle (tacking tip)



5040

fast welding nozzles, round



5050 Ø 3 mm **5051** Ø 4 mm

nozzles with long pre-warming zone for PE, PP, PVC, PVDF, and ECTFE welding

fast welding nozzles, triangular



5060.1 △ 2 mm **5062** △ 6 mm **5060** △ 3 mm **5063** △ 8 mm **5061** △ 4 mm **5064** △ 10 mm

nozzles with long pre-warming zone for PE, PP, PVC, PVDF, and ECTFE welding

flat nozzles for welding band



5070 □ 2.5 mm × 15 mm (E-CTFE)

5071 □ 2 mm × 12 mm **5072** □ 2 mm × 8 mm

wide slot nozzles, suitable for cap strips

steep welding nozzles, round/triangular



5090 Ø 3 mm, straight **5091** Ø 4 mm, straight **5092** △ 4 mm

nozzles with short pre-warming zone for PFA and FEP welding

nozzle extensions



5089.01 Ø 10/8 mm × 250 mm **5089.02** Ø 8/6 mm × 250 mm **5089.03** Ø 6/4 mm × 250 mm

angled models on request

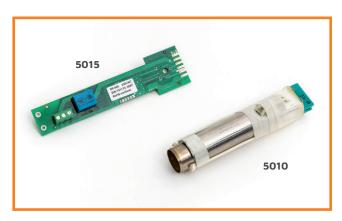


5310	triangular scraper for various tasks	5315	welding nozzle pliers to change hot welding nozzles
5311	special deburring tool various blades	5316	side cutting pliers, 145mm, for clean cutting of welding wire
5312	pull scraper to hollow out		
	welding grooves	5317	brush with brass bristles to clean welding nozzles
5 313	pull scraper		
	with cutting metal insert	5318	stainless steel scraper
5314	triangular scraper with handle		to remove the welding wire before carrying out welding tasks, with cut-in grooves to match the welding wire
5314.1	triangular scraper		S
	_	5319	stainless steel scraper
5314.2	handle to triangular scraper		for general removal tasks
5314.3	scraper drop form	5340	angle piece 90° to nozzles
5314.4	scraper hexagonal form	5341	angle piece 45° to nozzles



welding gear DR1000, 230V/900W

5012	heating element	5002.22	rotary knob red
5017	print plate,	5002.31	hose main line
	compl. temperature electronic		Ø 17,5mm × 12,5mm
5002.1	protection cover,	5002.90	air hose, short line
	stainless steel		Ø 15 mm × 12,5 mm
5002.2	handle with control button	5002.41	air distribution piece
5002.32B	power cable red with plug		

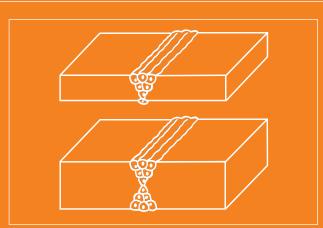


welding gear DR500, 230V/800W (previous model)

5010 heating element 5015 print plate

weld forms

With a plate thickness of 20mm, it is recommended to connect the plates together, using an extruder or by butt welding. As thicker a plate is, as more "weld layer" must be done.



The most important types of welds in hot gas welding

examples of welding seam construction				
plate thickness (mm)	welding rod number × diameter (mm)			
V-seam				
	3×3			
	6×3			
DV-seam (X-seam)				
	2 (1×4)			
	2 (3×3)			
	2 (3×3)			
	2 (1×3 and 2×4)			
10	2 (6×3)			



Vulkan AG