

STARWELD SELECT

Specifications

			with SweetSpot
Laser			
Type		pulsed Nd:YAG	pulsed Nd:YAG
Nominal power	W	100	80
Pulse peak power	kW	12	10
Pulse energy	J	120	100
Pulse duration	msec	0,3-50	0,3-50
Pulse frequency	Hz	single pulse up to 20	single pulse up to 20
Focal diameter	mm	0,3-2,5	0,1-2
			0,05-2 with MicroWeld™
Positioning axes			
Travel	x-y-z mm	180-220-200	
Loading	kg	50	
Resolution	µm	2,5	
Repeatability per axis	µm	+/- 10	
Speed	mm/sec	20	
Utilities			
Electrical	V	230	
	Hz	50/60	
	A	16 (single phase)	
Power consumption with nominal power	kW	3	
Cooling		internal water-air-heat exchanger	
Shielding gas		quick coupling	
Compressed air (cooling of workpiece)		quick coupling	
Measures			
Weight	kg	ca. 250	
Dimensions (W X H X D)	mm	790x1262x1258	
Ambient temperature	°C	35	

Selected options and detailed technical specifications on request. All data are subject to change without further notice.
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StarWeld Select



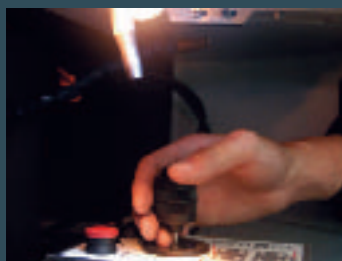
Ergonomic workstation



Interfaces



Loading



Joystick

LASER MICRO

Carl Baasel Lasertechnik
GmbH & Co. KG
Petersbrunner Str. 1b
82319 Starnberg
Tel: +49(0)8151-776-0
Fax: +49(0)8151-776-159
Email: sales@baasel.de

LASER MACRO

ROFIN-SINAR Laser GmbH
Berzeliusstraße 83
22113 Hamburg
Tel: +49(0)40-733 63-0
Fax: +49(0)40-733 63-100
Email: info@rofin-ham.de

LASER MARKING

ROFIN-SINAR Laser GmbH
Neufeldstraße 16/Günding
85232 Bergkirchen
Tel: +49(0)8131-704-0
Fax: +49(0)8131-704-100
Email: info@rofin-muc.de

WWW.ROFIN.COM

A: Tel: +49-(0)8151-776-0
E-mail: sales@baasel.de

Benelux: Tel: +31-(0)78-69310-37
E-mail: info@rofin-baasel.nl

CDN: Tel: +1-905-607-0400
E-mail: s.choe@rofin-inc.com

CH: Tel: +49-(0)8151-776-0
E-mail: sales@baasel.de

DK: Tel: +45-63-171-797
E-mail: avnmaskin@avnmaskin.dk

E: Tel: +34-948-324-600
E-mail: info@rofin-es.com

F: Tel: +33-(0)-1-6911-3636
E-mail: info@rofin.fr

FIN: Tel: +358-(0)19-266-2200
E-mail: laser@eurotool.fi

GB: Tel: +44-(0)-870-990-1020
E-mail: sales@rofin-baasel.co.uk

I: Tel: +39-039-2729-1
E-mail: info@rofin.it

J: Tel: +81-(0)46-229-8655
E-mail: info@rofin-jpn.co.jp

PRC: Tel: +86-(0)21-68552216
E-mail: john_peng@rofin-baasel.com.cn

RC: Tel: +886-(0)2-2790-1300
E-mail: info@rofin-baasel.com.tw

ROK: Tel: +82-(0)2-2113-7783
E-mail: info@rofin-baasel.co.kr

SGP: Tel: +65-6885-4517
E-mail: reception@rofin-baasel.com.sg

USA: Tel: +1-734-455-5400
E-mail: info@rofin.com



STARWELD SELECT

LASER WELDING AND MUCH MORE

STARWELD SELECT

- tailored to your needs

Flexible Configuration For All Welding Tasks

The StarWeld Select is a fully integrated system: ergonomically optimized manual welding laser, joystick controlled deposit welding system or high-precision CNC system – a unique welding concept with four high-precision axes, short setup times and easy CNC programming.

As much automation as you want, with the minimal complexity you need. All parameters can easily be adjusted without any special know-how via a multi-functional joystick and large color touch-screen.



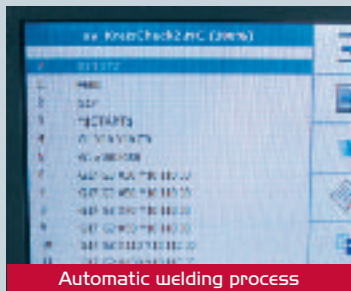
MANUAL
Without any special set-up you can start manual welding, repair welding of single parts etc.

Manual welding



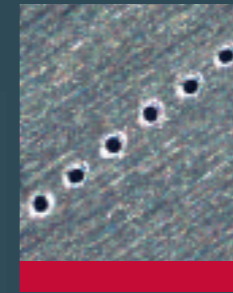
JOYSTICK
Direct axis-control, easy semi-automatic laser welding, repair welding, small batches.

Welding with joystick control



CNC
Programming via touch screen, teach-in or data import, semi or full automation.

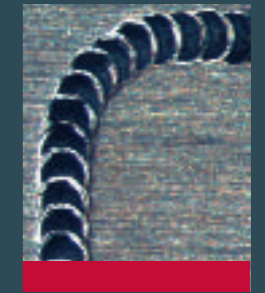
Automatic welding process



MicroWeld™
Weld spot diameters smaller than 0.1 mm for finest applications



SweetSpot Resonator®
Consistently high weld quality even in highly-reflective materials, high pulse-to-pulse stability over a large depth of focus



SynchroWeld™
Consistent pulse overlap on seam welds independent of path contour and welding speed



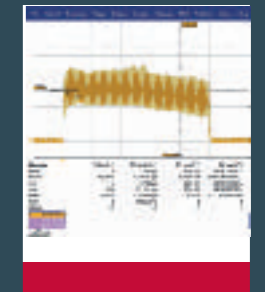
AreaFill™
Apply several parallel-offset welding seams when 3D surface deposit welding



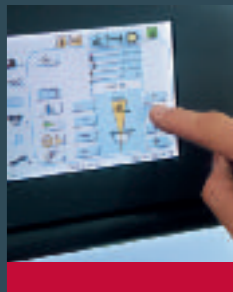
TrackMode™
Semi-automatic welding with intuitive joystick path-teaching



TrueView™
Enables a 100 % hit-rate, even when working out of focus – the laser beam is always aligned to the cross-hair



Intelligent Pulse Management™
High pulse-to-pulse-stability for fine micro welds



EasyTouch™
Easy, intuitive parameter setting even for beginners

Robust All-in-one solution

- Doors completely hidden inside the machine when open
- Large working chamber accessed by manual ports with leather cuffs
- Flow-controlled exhaust system with HEPA filters
- Closed-loop cooling circuit for 24/7 operation
- Generously dimensioned linear axes and additional rotary axis
- Ready to use after delivery