



SELECT, SELECT FIBER

NOW AVAILABLE WITH
FIBER LASER

NEW
AXIS SYSTEM
NEW
CONTROL

LASER WELDING AND MUCH MORE

SELECT, SELECT FIBER

– tailored to your needs

Flexible configuration for all welding tasks

The 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.

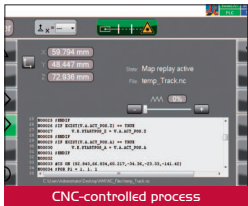
As much automation as you want, with the minimal complexity you need. All parameters can easily be adjusted without any special know-how via a multi-functional joystick and large color touch-screen.



Welding with joystick control

Joystick

- Direct axes-control
- Easy semi-automatic laser welding
- Single pieces, small batch series and repair welding
- Process and prototype development



CNC-controlled process

CNC

- Programming via touch screen, teach-in or data import
- Semi or full automation
- Joystick programming of CNC process

Select SweetSpot™

- Lamp-pumped Nd:YAG with patented SweetSpot laser resonator
- High pulse-to-pulse stability
- Very wide power range for very small and strong welds as well as for highly-reflective material



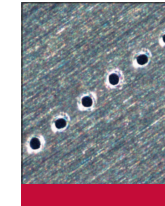
SweetSpot™

Select Fiber

- Fiber laser for high process stability
- No maintenance
- Fine welds with extremely high quality requirements



Now available with fiber laser



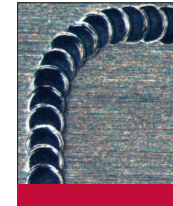
MicroWeld™ and SweetSpot Resonator®

Smallest weld spot diameters of < 0.1 mm for very fine applications showing a constantly high weld quality



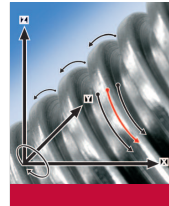
Teach-Functions

Extensive library of teaching functions optimized for laser processing



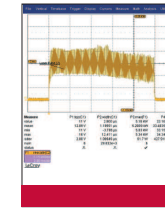
SynchronWeld™ and Look ahead

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



V-Track

Various optimized teach modes for semi-automatic laser welding of single workpieces or small batch series.



Intelligent Pulse Management™

High pulse-to-pulse stability for fine micro welds



Axes system

Servo motor-driven linear axes with positioning control for high dynamics and high precision



Multi-touch Display

Easy and intuitive parameter setting, ideal even for beginners



Joystick Box

Can be configured individually with 4 axes and parameter display

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

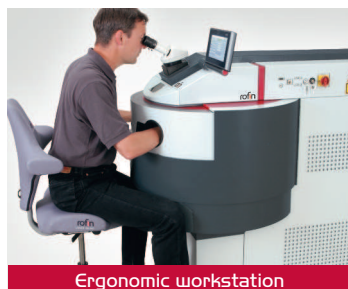
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Specifications

		Select		Select Fiber
Laser		with SweetSpot®		
Type		pulsed Nd: YAG	pulsed Nd: YAG	fiber laser
Nominal power	W	100	80	pulsed 150/cw 250
Pulse peak power	kW	12	10	1,5
Pulse energy	J	120	100	15
Pulse duration	msec	0,3 - 50	0,3 - 50	0,2 - 50
Pulse frequency	Hz	single pulse up to 50	single pulse up to 50	single pulse up to 500
Focal diameter	mm	0,3 - 2,5	0,1 - 2 0,05 - 2 with MicroWeld™	0,1 - 0,5
Positioning axes				
Tarvel	x-y-z mm	210 - 170 - 200		
Loading	kg	50		
Resolution	µm	1,0		
Repeatability				
per axis	µm	± 30		
Speed	mm/sec	60		
Utilities				
Electrical	V Hz A	230 50/60 16 (single phase)		2,0 air cooling
Power consumption with nominal power	kW	3,5		
Cooling		internal water-air-heat exchange		
Shielding gas		quick coupling		
Compressed air (cooling of workpiece)		quick coupling		
Measures				
Weight	kg	app. 250		
Dimensions W x H x D	mm	790 x 1.262 x 1.258		
Ambient temperature	max. °C	35		



Select



Ergonomic workstation



Interfaces



Loading



Joystick

LASER MICRO
ROFIN-BAASEL Lasertech
GmbH & Co. KG
 Petersbrunner Str. 1b
 82319 Starnberg
 Germany
 Phone +49(0)8151-776-0
 Fax: +49(0)8151-776-4159
 E-mail: sales@baasel.de

LASER MACRO
ROFIN-SINAR Laser GmbH
 Berzeliusstraße 87
 22113 Hamburg
 Germany
 Phone: +49(0)40-733 63-0
 Fax: +49(0)40-733 63-4100
 E-mail: info@rofin-ham.de

LASER MARKING
ROFIN-SINAR Laser GmbH
 Dieselstraße 15
 85232 Bergkirchen-Günding
 Germany
 Phone: +49(0)8131-704-0
 Fax: +49(0)8131-704-4100
 E-mail: info@rofin-muc.de

WWW.ROFIN.COM

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

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

CA: Phone +1-905-607-0400
 E-mail: info-canada@rofin-inc.com

CH: Phone +41-(0)32-322 1010
 E-mail: info@rofin-baasel.ch

CN: Phone +86-21-68552216
 E-mail: info@rofin-baasel.com.cn

DK: Phone +45-6317-1711
 E-mail: contact@masentia.com

ES/PT: Phone +34-948-324-600
 E-mail: info@rofin-es.com

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

FI: Phone +358-(0)34476400
 E-mail: info@corelase.fi

IN: Phone +91-(22)28477501
 E-mail: sales.micro@rofin.in

IT: Phone +39-039-2729-1
 E-mail: info@rofin.it

JP: Phone +81-(0)46-229-8655
 E-mail: info@rofin-baasel.co.jp

KR: Phone +82-(0)2-837-1750
 E-mail: info@rofin.co.kr

SG: Phone +65-6482-1091
 E-mail: reception@rofin-baasel.com.sg

TW: Phone +886-2-2790-1300
 E-mail: sales@rofin-baasel.com.tw

UK: Phone +44-(0)1327-701-100
 E-mail: sales@rofin-baasel.co.uk

US: Phone +01-847-483-6300
 E-mail: info@rofin-inc.com



Outside the system corresponds to Class 1 laser product (EN 60825-1)