

KATALOG ZNANSTVENO-ISTRAŽIVAČKE OPREME I PROGRAMA

NAZIV UREĐAJA / PROGRAMA	MODEL I GODINA PROIZVODNJE	SVRHA I MOGUĆNOSTI	VLASNIK	KONTAKTI ODGOVORNE OSOBE	PHOTO (JPEG)	IZVOR SREDSTAVA
Optički 3D profilometar	FILMETRICS 2020.g.	Optički 3D profilometar koji beskontaktnim putem mjeri morfologiju, odnosno topografiju ispitivanih površina kao što su profil, ravnoća, valovitost, površinska hrapavost, pukotine itd. te daje 3D prikaz istih.	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		HRZZ
Uređaj za usitnjavanje otpada	Filamaker 2020.g.	Uređaj za usitnjavanje prvenstveno metalnog i polimernog otpada.	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		HRZZ
Senzor za mjerjenje dinamičke sile	DYTRAN 1061V sa pripadajućom zaštitnom kapom DYTRAN 6217 2015.g.	Može mjeriti dinamičke sile od 500–50 000 lbf u širokom rasponu frekvencija. Ponuđen s osjetljivostima u rasponu od 0,1 do 10 mV/lbf, ovaj senzor dinamičke sile može mjeriti do 1000 lbs pune skale u načinu zatezanja.	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ

Senzor za mjerenje sile	HBM C6A 1MN; 2011.g.	Senzor za mjerenje vlačnih i tlačnih sila do 1MN	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Senzor pomaka	HBM WA T- 50; 2009.g.	Senzor za mjerenje pomaka do max 50 mm	FESB	Izv.prof.dr.sc Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Peć za žarenje	DEMITERM EASY 9; 2011.g.	Laboratorijska peć za žarenje. Dimenzije radnog prostora 250×150×230 mm Snaga 3,0 kW Max. Temp. 1150 °C	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Senzor pritiska	HBM P15RVA1/500B; 2009.g.	Senzor za mjerenje pritiska u tekućinama i plinovima do 500 bar	FESB	Izv.prof.dr.sc.. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ

Regulator temperature	OMRON E5CC; 2012.g.	Regulator temperature	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Optički senzor za mjerenje udaljenosti	OMRON ZX1-LD300A61 5M; 2012.g.	Senzor za mjerenje udaljenosti 300 ± 150 mm	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Kompresor	HERCULES 200/10/24; 2012.g.	Zračni kompresor Posuda 24l Tlak 10 bar Protok 180 l/min 1 cilindar; 3400o/min Snaga 1,1 kW	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Mjerna kartica	MC USB-1208HS- 2AO; 2012.g.	13-Bit, 1 MS/s, USB mjerna kartica sa 8 SE/4 DIFF analognih ulaza, 2 analogna izlaza, 16 digitalnih I/O linija	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Enkoder za mjerenje pomaka	MICRO- EPSILON WDS-1000-- P60-SR-U; 2014.g.	Senzor za mjerenje udaljenosti ili položaja elemenata koji se gibaju Mjerno područje: 1000 mm	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		FESB

Elektro-kemijski označivač	Östling Marking Systems EU 100 2013.g.	Uređaj za elektro-kemijsko označavanje metala Moguća upotreba izmjenične i istosmjerne struje	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ
Akcelerometar	DYTRAN 3200B2M; 2014.g.	Akcelerometar za sudare i mjerenja u pirotehnici,... - 0.1 mV/g osjetljivost - 50,000g mjerno područje - 0.35 to 10,000 Hz opseg frekvencija - Kućište od nehrđajućeg čelika - Visoka vlastita frekvencija >90 kHz - IEPE	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		FESB
Kamera	BASLER acA640-120uc 2013.g.	Basler industrijska kamera Resolution horizontal/vertical 658 pixels x 492 pixels Pixel Size horizontal/vertical 5.6 µm x 5.6 µm Frame Rate 120 fps Color C-mount Interface USB 3.0	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		MZOŠ

Kompresor	FINI Kompresor BK119-270-7.5 2016.g.	Kompresor sa spremnikom 270 lit, uljni, 2-cilindrični, 2-stepeni, pogonjen remenom, 1370 okr/min, napajanje 400V/50Hz, snaga 5,5 kW, kapacitet na usisu 840 lit/min, max.pritisak 10 bar, dimenzije 1550x590x1130 mm, težina 147 kg, 2 izlaza sa regulacijom pritiska sa brzom spojnicom za priključak potrošača i 1 direktan izlaz sa kuglastim ventilom 1/2"F	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		FESB
Regulator temperature	West Instruments P6100-1000002-10 2017.g.	Dimenzije: 48mm x 48mm x 110mm (HxWxD), 1/16 DIN Ulaz: Univerzalni (TC, RTD, DC linear mA/mV) Izlaz: Relay, Sd, DC linear V or mA, Triac, 24V Tip kontrole:PID, ON/OFF, Manual, Napajanje: 100–240V AC 50–60Hz	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		FESB
Ultrazvučna kada	AS-UZKPRO60 2017.g.	ULTRAZVUČNA KADA PRO 6,0 LIT. KOM 25,00 2.660,00 1,000 2.660,00 Karakteristike Volumen rezervoara 6 litara Ultrazvucna frekvencija 40 KHz Mjerac vremena (min) do 99 minuta sa automatskim isključenje Grijanje (°C) do 80°C Snaga grijanja 300W Snaga ultrazvuka 150W	FESB	Izv.prof.dr.sc. Branimir Lela tel.: 021 305909 email: blela@fesb.hr		FESB

CATALOGUE OF SCIENTIFIC & RESEARCH EQUIPMENT AND SOFTWARE

INSTRUMENT / SOFTWARE	MODEL AND YEAR OF PRODUCTION	APPLICATION	OWNER	CONTACT OF RESPONSIBLE PERSON	PHOTO (JPEG)
Optical 3D profilometer	FILMETRICS 2020.g.	Optical 3D profilometer that non-contactly measures the morphology, topography of the examined surfaces such as profile, flatness, corrugation, surface roughness, cracks, etc. and gives a 3D view of the same.	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Waste shredder	Filamaker 2020.g.	Device for shredding primarily metal and polymer waste.	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	

Dynamic force measuring sensor	DYTRAN 1061V with DYTRAN 6217 protective cap 2015.g.	Can measure dynamic forces from 500–50,000 lbf over a wide frequency range. Offered with sensitivities ranging from 0.1 to 10 mV/lbf, this dynamic force sensor can measure up to 1,000 lbs full scale in tension mode.	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Force transducer	HBM C6A 1MN; 2011.g.	C6A force transducers are designed for the measurement of static and dynamic pressure forces. Tensile forces can also be measured.	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Inductive displacement transducer	HBM WA T- 50; 2009.g.	Inductive measurement of displacement in the range of 0-50 mm	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Annealing furnace	DEMITERM EASY 9; 2011.g.	Annealing furnace Max temper. 1150°C Power 3kW Workspace 250x150x230 mm	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	

Pressure sensor	HBM P15RVA1/500B; 2009.g.	P15 pressure gauge transducers are suitable for measuring static and dynamic pressures of liquids and gases up to 500 bar	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Digital Temperature Controller	OMRON E5CC; 2012.g.	Digital Temperature Controller	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Laser sensor	OMRON ZX1-LD300A61 5M; 2012.g.	Visible-light semiconductor laser Measurement range: 300 ± 150 mm Spot diameter: 0.52 mm dia Resolution: 30 µm	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Air compressor	HERCULES 200/10/24	Air compressor pressure tank 24l Pressure 10 bar Flow 180 l/min 1 cylinder; 3400o/min Power 1,1 kW	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	

DAQ Device	MC USB-1208HS- 2AO; 2012.g.	13-Bit, 1 MS/s, High-Speed DAQ Device with 8 SE/4 DIFF Analog Inputs, 2 Analog Outputs, 16 digital lines	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Draw wire sensors with potentiometer output	EPSILON WDS-1000--P60-SR-U; 2014.g.	Draw wire sensors are used for distance or displacement measuring position determination of components or moving machine parts Measuring range:1000mm	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Electrolytic marking unit	Östling Marking Systems EU 100 2013.g.	EU 100 is Electrolytic marking unit capable of generating AC and direct current as output voltage. This enables deep marking	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
High shock accelerometers	DYTRAN 3200B2M; 2014.g.	Accelerometer for: Drop testing Far field blast testing Pyrotechnic testing Shock testing - 0.1 mV/g sensitivity - 50,000g range - 0.35 to 10,000 Hz frequency range - Stainless steel - High natural frequency of >90 kHz - IEPE	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	

Industrial camera	BASLER acA640-120uc 2013.g.	Basler industrial camera Resolution horizontal/vertical 658 pixels x 492 pixels Pixel Size horizontal/vertical 15.6 μm x 5.6 μm Frame Rate 120 fps Color C-mount Interface USB 3.0	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Air compressor	FINI Compressor BK119-270-7.5 2016.g.	Compressor with 270 lit tank, uljni, two cylinder 2 stroke with 2 degrees, belt driven, 1370 o/min, powered 400V/50Hz, power 5,5 kW, input capacity 840 lit/min, max.pressure 10 bar, dimensions 1550x590x1130 mm, weight 147 kg, 2 output with pressure regulation with fast connection for user consumption and 1 direct output with ball valve 1/2"F	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
Digital Temperature Controller	West Instruments P6100-1000002-10 2017.g.	Dimensions and size: 48mm x 48mm x 110mm (HxWxD), 1/16 DIN Primary Input Type: Universal (TC, RTD, DC linear mA/mV) Output Type: Relay, Sd, DC linear V or mA, Triac, 24V transmitter power supply Max. Number of Control Type: PID, ON/OFF, Manual, Power Supply: 100–240V AC 50–60Hz	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	

Ultrasonic Bath	AS-UZKPRO60 2017.g.	ULTRASONIC BATH PRO 6,0 LIT. Tank volume: 6 lit Ultrasonic frequency: 40 KHz Time controller (min) until 99 min with automatic shutdown Heating (°C): 80°C Heating power: 300W Ultrasonic power: 150W	FESB	Assoc. Prof. Branimir Lela tel.: 021 305909 email: blela@fesb.hr	
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