

BOCOMATIC EB 40

laboratory extruder

extruding machine for rubber mixture

The BOCOMATIC EB 40 laboratory extruder with type designation EB/N-40/14-4/33 is an extruding machine intended for specific or experimental production for detection of material defects or contingent impurities in the undercured rubber mixture. The output mixture output is reduced through a extrusion head in the form of desired profiles (e.g. strips with dimensions 50x0,8 mm etc. according to customers requirement). The extrusion head is equipped with air cooling.

The principle of the extruder is a closed steel supporting frame with storage area which is possible to close. In the frame are placed electric and control case equipped with NORD/OMRON electric components with OMRON (PDI) digital thermoregulators, NORD gearbox with an axial bearing housing, main NORD (3x380V/50Hz) three phase asynchronous electric motor with stepless rpm regulation, controlled by NORD frequency converter with external cooling. The screw is delivered in two versions – not tempered (without drilled aperture) and tempered (with aperture, bored in its whole length) intended for cooling by water. It is possible, on customers request, to fur

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nish the appliance with the MAIER HEIDENHEIM sealing head and with external tempering unit for exact regulation of water temperature. The chamber – working cylinder is equipped with 2 sets of heating zones and cooling zones in the form of sheated barrel intended for cooling by water. The hopper is equipped with a rotary feed roller.

BOCOMATIC EB 40 laboratory extruder is fluently supplied from the hopper by granules or by a strip of rubber mixture without that txe mixture must be force-pressed into the barrel input aper-

ture and is free taken only by its own weight with the aid of the revolving screw. The material is with the aid of the screw which is placed in the barrel further transported to the extrusion head on the machine output. In case of need of connection of another output adaptor is the end output barrel section adapted for tack of whatever part connecting the extruder with consequential technological equipment. In both cases of use of the strip or of the granules the hopper is not adapted and is for both material sorts identical.

TECHNICAL PARAMETERS OF THE BOCOMATIC EB 40 EXTRUDER

TYPE	EB/N-40/14-4/33	UNIT
Main electric motor power	4	kW
Maximum screw speed	min. 5 – max. 80	Rpm
Total built-in wattage of the machine	7	kW
Gear ratio	1:33	i
No. of heating zones – barrel thermoregulation zones	2	pcs
Individual thermoregulators for external wiring (extr. head etc.)	1	Pcs
Screw diameter	40	mm
Screw length	14	L/D
No. of screws	1	Ks
Screw type	with single-thread pitch, without evacuation	1
Screw grade (as preferred)	nitrided or armoured	1
Barrel grade (as preferred)	nitrided or bimetallic	1
Barrel cooling	water cooling	
Screw axial height from the floor – extrusion axis height	1050	mm
Machine colour	frame + gearbox - RAL 5010 coverings + hopper – RAL 9001	RAL
Cooling water consumption	0,7 – 2,5	m ³ /h
Extruder dimensions		
- length	cca. 1030	mm
- width	cca. 450	mm
- height (to the upper hopper edge/to the top of the warning signal lights)	cca. 1260/1410	mm
Total extruder weight	cca. 300	kg
Electric distribution box dimensions		
- length	cca. 540	mm
- width	cca. 450	mm
- height	cca. 350	mm
Total electric distribution box weight	cca. 25	kg
The equivalent sound pressure level measured in a distance of 1 meter from the machine and 1,5 meter upon the floor doesn't exceed the value of 85 dB.		

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