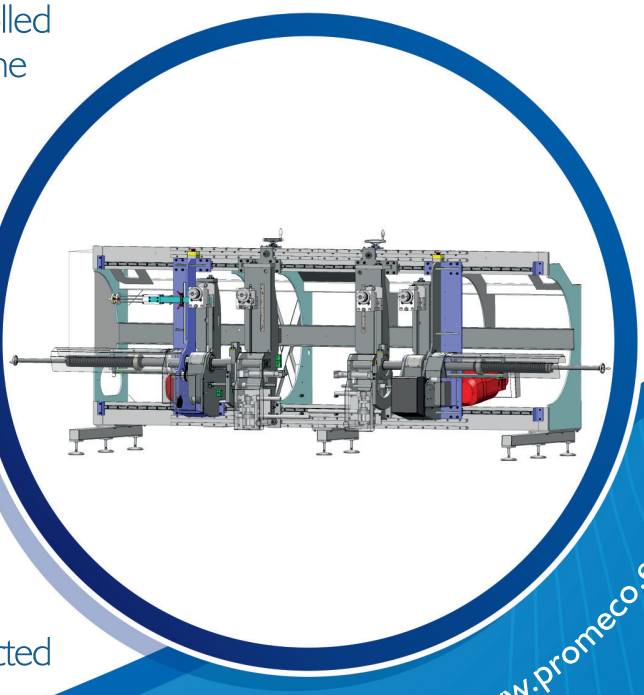
PROMECO

Prototype mechanics

Rotor conductor forming machine

- Powerful rotor conductor forming machine is used for production of coils for high voltage generator and motor rotors. Easy setup procedure makes machine operation fast and intuitive, requiring minimum setup time.
- Both, insulated and noninsulated conductor bars could be used in the forming machine, giving equally magnificent final result for upper and lower layers of the rotor winding.
- Machine simulates rotor geometry by forming the conductor around actual axle and therefore makes parameter settings easy to understand and perform.
- Only limited amount of digitally controlled movements are intentionally used in the forming machine along with rigid steel structure, making the machine more cost effective and easier to use and maintain for unexperienced personnel. However, more sophisticated machine modification is offered for more demanding customers separately.
- Intuitive HMI software allows to operate the forming machine and up to 25 rotor forming parameters could be stored in product library slots protected by different access level passwords.



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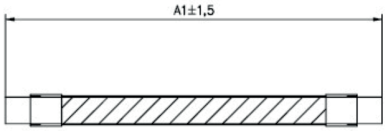
Rotor conductor forming machine technical specification

Power supply		400* V / 7 kW
Compressed air consumption		5 BAR / 40 L/min
Overall dimensions		
	width	6050 mm
	height	1690 mm
	length	1920 mm
Weight		2800 kg

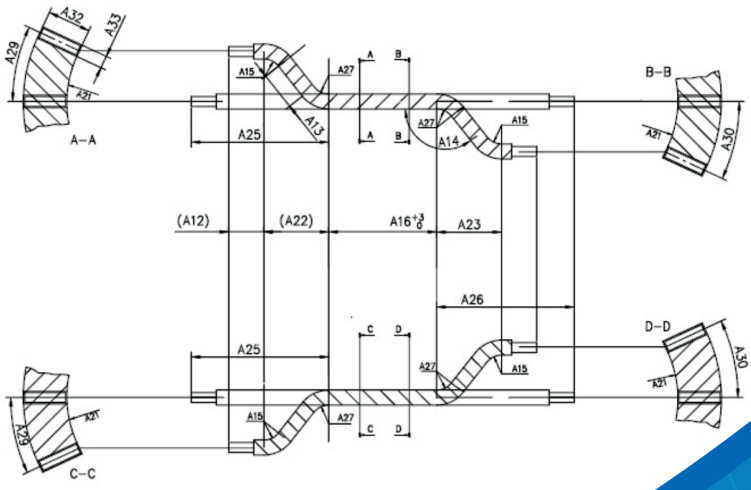
* Also available with 440V supply



Bending values

(some values depend on conductor geometry)

		Min.	Max.
Conductor bar length	A1	850 mm	2800 mm
Conductor bar height	A32	10 mm	40 mm
Conductor bar width	A33	4 mm	10 mm
Conductor stright tip	A12 & A19	45 mm	85 mm
Bending radius	A15 & A27	10 mm	30 mm
Conductor central stright part after bending	A16	530 mm	1800 mm
Axial radius of curvature	A21	175 mm	510 mm
Length of curvature	A22 & A23	65 mm	420 mm
Bending angle	A29 & A30	±55°	



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