Increasing the strength of welded thin-walled axisymmetric vessels made of corrosion-resistant steel

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Scheme of manufacturing a welded thin-walled vessel of increased strength

I – convolution of a sheet blank into a cylinder and longitudinal welding of abutting edges
II – plastic shaping of the bottom
III – compression calibration of the cylindrical vessel body
IV – compression calibration of the cylindrical edge of the bottom
V – welding of the body and the bottom with an annular seam
VI – ring weld distribution
VII – rotary rolling

1 - the blank of the vessel; 2 - mandrel; 3 - rolling head