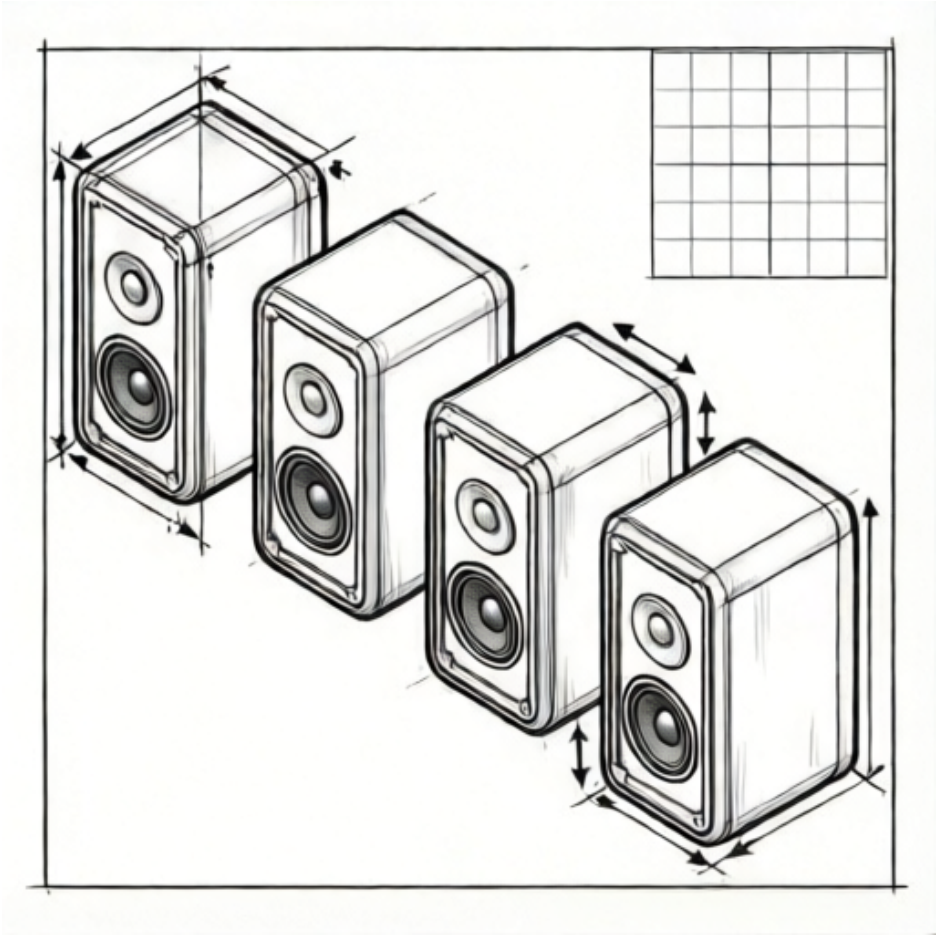
Isometric Product Plate: Form, Fillets, and Detail Callouts

Ordinary topic reference / separately checked pixels



Isometric Product Plate: Form, Fillets, and Detail Callouts

Original worked example / unchanged complete key

Prompt: Draw a small rectangular product 60 mm wide, 40 mm deep, and 50 mm high in isometric view. Add a 5 mm fillet on the four vertical edges, a 3 mm fillet on the top perimeter, and two buttons on the top face at 15 mm from the left edge and 10 mm from the front edge. Include callouts for radius, button placement, and edge detail.

Answer: The plate shows an axis box built from the three dimensions, a body with a front recess, four vertical fillets drawn as tangent curves, a rounded top perimeter, and two button centers projected from the left and front edges. Callouts read: vertical fillet radius 5 mm; top perimeter fillet radius 3 mm; buttons 15 mm from left edge and 10 mm from front edge; top edge treatment rounded. A short note states that fillets soften the isometric edges by replacing sharp transitions with tangent curves.