

Stainless Steel Sphere Datasheet

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Ranges

Hollow sphere diameter	19 mm to 5000 mm
Sphere wall thickness	0.6 mm to 6 mm
Mould pressed balls	5 mm to 500 mm, 0.6 mm to 6 mm thick
Stamped hemispheres	20 mm to 700 mm dia, 0.6 mm to 3 mm thick
Welded hemispheres	200 mm to 3500 mm dia, 0.6 mm to 3 mm thick
Stainless grades	AISI 201, 304, 316, 316L
Other materials	Carbon steel, brass, copper, aluminium, corten
Finishes	Mirror polish, Mill finish, Brushed, Electroplating, Sandblasting, Etching, Silk printing, Spray paint
Conventional freight limit	7 feet diameter

Forming Routes

Water Pressure Forming	Technicians calculate the exact developed size for each steel sheet, the sheet is bent into leaf s
Mould Pressing	Sheet is deformed against a mould, two hemispheres are welded together, the weld seam is gro
Spinning	Two hemispheres are metal spun and then welded together, ground and polished. This is the ro

Inspection Criteria

Surface Uniformity	A polished surface is judged on whether reflected light is even across the whole ball rather than
Weld Seam Treatment	The weld line is where two panels meet and is the hardest area to finish. If it is not treated corre
Material Selection	304 is used for indoor work. For coastal cities and acid rain regions 316 is specified because of

Grade Selection

AISI 304 for indoor sculpture. AISI 316 or 316L for coastal cities and acid rain regions, where the grade change gives better corrosion resistance and durability. We do not recommend 201 for sculpture.

All figures are production capability ranges. Confirm the specification for your piece before ordering. Maoping Sculpture Arts does not publish certification claims; ask us what documentation we can supply for your project.