



Mineral Processing Equipment
And Engineering Services

Danesh Faravaran Co.

**INDUSTRIAL BALL MILL OF
DANESHFARAVARAN ENGINEERING Co.**

DANESHFARAVARAN ENGINEERING Co.
DESIGNING, MANUFACTURING AND SUPPLYING OF MINERAL PROSSEING AND ROCK
MECHANIC EQUIPMENT IN LABORATORY, PILOT AND INDUSTRIAL SCALE

BALL MILL



Technical Specification

General	
Mill Size (D X L)	5.5m x 10.5m
Mill Design Motor Power	5500kW
Mill Motor Type	WRIM
Mill RPM	13.34
% Nc	75%

Location	Acceptable Stress Range
Steel plate – base material – Nominal stress range	76 MPa
Steel plate –local stress concentration – Peak stress	90 MPa
Steel Castings – Nominal & Peak Stress Range	70 MPa external surfaces 53 MPa on inside of mill or head splits where welding repair can occur after normalising and tempering.
Butt-welds as welded – Nominal or hot spot stress range	As per BS7608 with thickness effect included
Internal Butt-welds ground flush – Peak stress range	53 MPa
External Butt-welds ground flush – Peak stress range	70 MPa
Welds with fillet reinforcement – unground. Hot spot stress range at fillet toe	As per BS7608 with thickness effect included
Welds with ground fillet reinforcement – Hot spot stress	40 MPa

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Head & Trunnion	
Material	Cast Steel – ASTM A216 WCA – Modified
Trunnion Design	Integral
Sections	1 x360°
Head to Shell Fit	Spigotted
Backing Rubber	6mm fitted prior to dispatch

Shell	
Shell Plate Material	A36 or Equivalent
Flange Material	ASTM 216WCA -modified
Flange Design	Cast & Contoured
Weld Standard	AWSD1.1
Weld Design	B-U3c-S
Sections	as necessary
Shell to Head Fit	Spigotted
Shell to Shell Fit (if applicable)	Spigotted
Backing Rubber	6mm fitted prior to dispatch

Discharge Trommel	
Type	Rubber lined Steel fabrication
Size	2.3m x 3.4m
Rubber lining thickness	10 -12 mm
Panel size	305mm x 610mm
Panel Openings	To suit
Stress Relieved	Yes

Main Drive Motor	
Power	5500Kw
Type	WRIM
Bearing type	Sleeve
Lubrication Type	Oil
Voltage	6KV
Frequenc	50Hz
IP Rating	IP54
Insulation Class	F
Variable Speed	No
Starting method	LRS
Base Plate, Sub Sole Plates & Shims	Included

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