



CONTENT

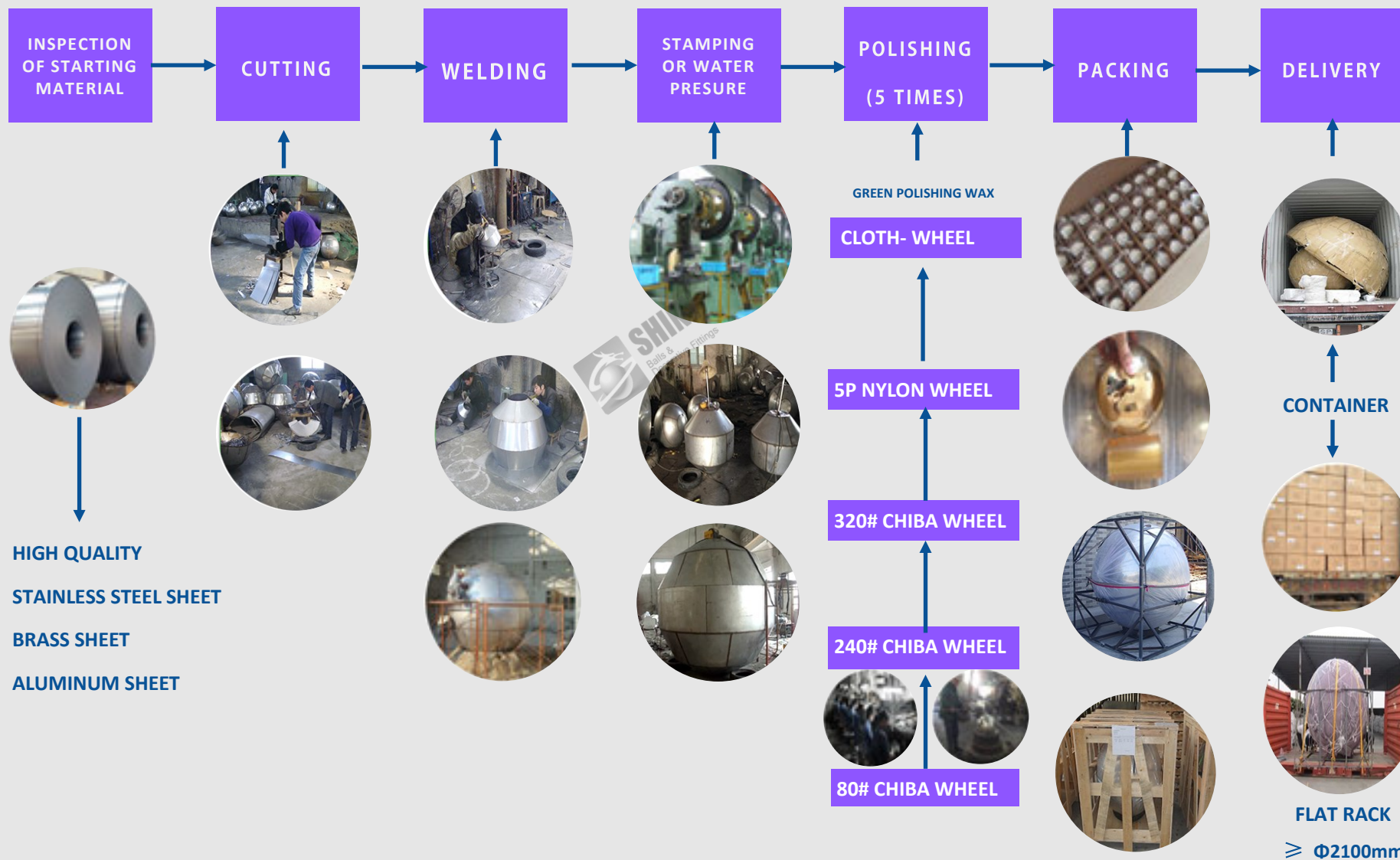


www.shinydecor.com
info@shinydecor.com
(0086)-757-83875036

FLOW CHART OF BALLS FORMING	02
SIZE RANGE OF HOLLOW BALLS	03
FINISHES & SURFACE CONDITION OF METAL HOLLOW BALLS	05
PACKING DIAGRAM	06

FLOW CHART OF BALLS FORMING

Brilliant mirror polishing No visible weld seam.



SIZE RANGE OF HOLLOW BALLS

SHINY is manufacturer of Metal Balls, Steel Sculptures and Fire pit ball



WALL THICKNESS	OUTSIDE DIAMETER																											
	6	10	12	15	16	19	20	25	30	32	35	38	42	51	55	60	63	66	76	80	90	95	102	114	120	127	138	
MM																												
0.6																												
0.8																												
1.0																												
1.2																												
1.5																												
2.0																												
2.5																												
3.0																												
	150	180	200	250	300	350	400	420	450	480	500	520	530	550	580	600	610	650	680	700	720	750	800	830	880	900	910	
0.8																												
1.0																												
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1.5																												
2.0																												
2.5																												
3							H																					
4				H		H								H		H				H		H						
5				H	H	H								H		H				H		H						H

H HEMISPHERE ONLY

Additional or customized size on request

SIZE RANGE OF HOLLOW BALLS

SHINY is manufacture of metal hollow ball /decorative fittings



WALL THICKNESS	OUTSIDE DIAMETER																								
	1000	1100	1150	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3500	3800	4000
1.0																									
1.2																									
1.5																									
2.0																									
2.5																									
3.0																									
4																									
5																									
6	H	H	H	H	H	H	H	H	H	H	H	H	H												
7	H	H	H	H	H	H	H	H	H	H	H	H	H												
8	H	H	H	H	H	H	H	H	H	H	H	H	H												
9	H	H	H	H	H	H	H	H	H	H	H	H	H												
10	H	H	H	H	H	H	H	H	H	H	H	H	H												
11	H	H	H	H	H	H	H	H	H	H	H	H	H												
12	H	H	H	H	H	H	H	H	H	H	H	H	H												
13	H	H	H	H	H	H	H	H	H	H	H	H	H												
14	H	H	H	H	H	H	H	H	H	H	H	H	H												

H HEMISPHERE ONLY

Additional or customized size on request

FINISHES & SURFACE CONDITION OF METAL HOLLOW BALLS

Aluminum /Brass /Stainless steel /carbon steel balls

MATERIAL	SURFACE CONDITION	REMARK
Stainless steel AISI201/304/316	Mirror polished	Brilliant mirror surface Ra: AISI316 ≤ AISI304 ≤ AISI201
Carbon steel Q235/AISI1010	Metallically clean	Scale free imperfections are allowed
Aluminum 3003Alloy	Normal polished	Ra 0.05
Brass/Copper H62/H68	Mirror polished	Brilliant mirror surface

- Balls can be unpolished (Scale free)
- Hemispheres can be mirror polished and unpolished.

FINISHES & SURFACE CONDITION OF METAL HOLLOW BALLS

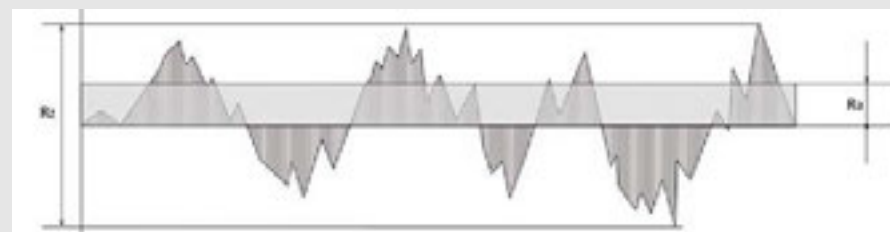
ACC TO GB/T 131-2006 -ISO 1302-2002

Ra (CLA)

Arithmetic Average Roughness
(Center Line Average)

Rz

Maximum profile height



example for surface profile in measured length

Roughness indicators

N class		1	2	3	4	5	6	7	8	9	10	11	12
Ra	μm	0,02	0.05	0,1	0,2	0,4	0,8	1,6	3,2	6,3	12,5	25	50
	μ"	5 1	2	4	8	16	32	63	125	250	500	1000	2000
		▽12	▽	▽	▽	▽8	▽7	▽6	▽5	▽4	▽3	▽2	▽1

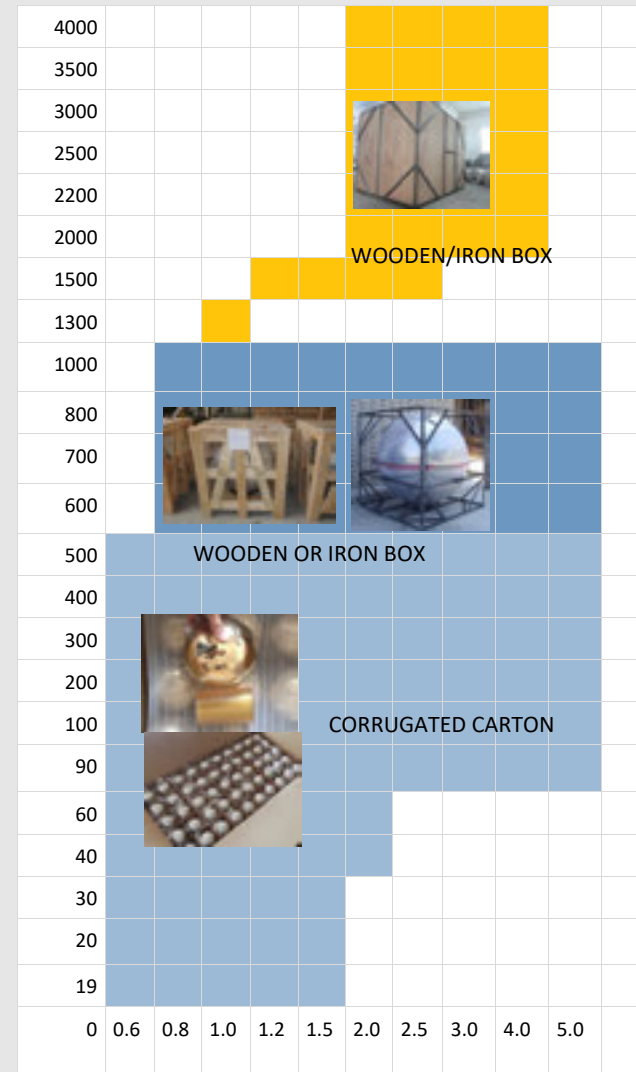


PACKAGE REF



PACKING DIAGRAM

common packing method at SHINY



Special packing on request