vedanta transforming for good | HINDUSTAN ZINC Zinc & Silver of India

Special High Grade (SHG) Jumbo

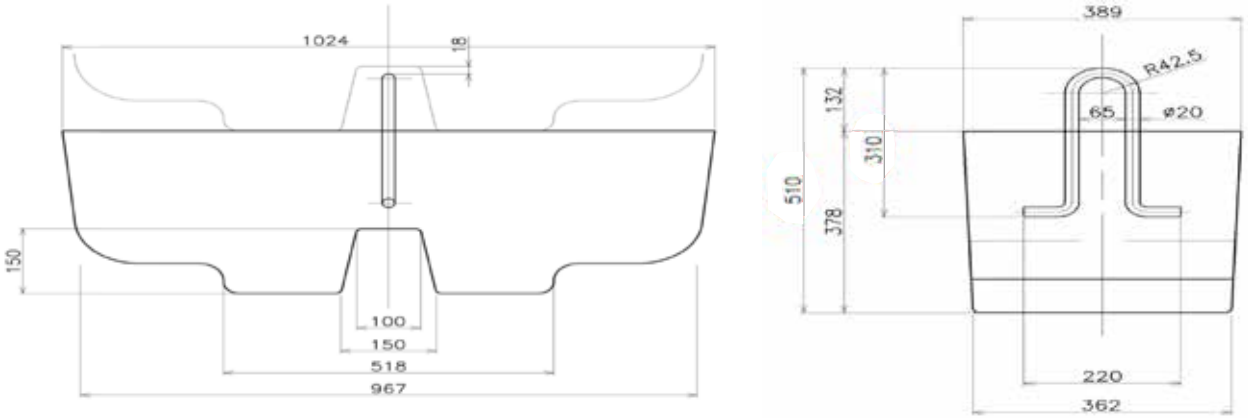
Chemical Specifications

Component	Guaranteed	HZL Typical
Zinc (Zn)	99.9950% Min	99.9960% Min
Lead (Pb)	0.0030% Max	0.0020% Max
Copper (Cu)	0.0010% Max	0.0003% Max
Cadmium (Cd)	0.0030% Max	0.0002% Max
Iron (Fe)	0.0020% Max	0.0010% Max
Aluminium (Al)	0.0010% Max	0.0001% Max
Tin (Sn)	0.0010% Max	0.0001% Max

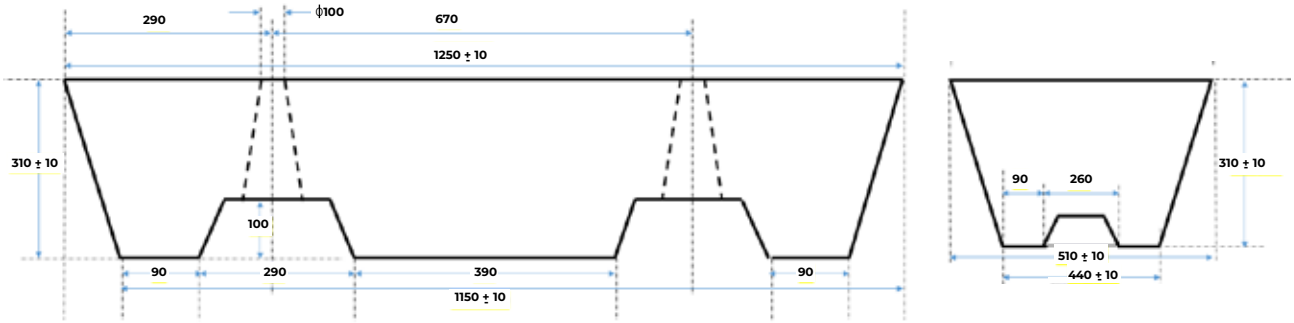
Bundle Specifications

Component	SHG Jumbo - 1 MT	Type-4 With Cut (CGG jumbo of different grades as per requirement -1 Ton)	Type-4 Without Cut (CGG jumbo of different grades as per requirement)
Length	1024 (+/-5) Kg	1250 (+/-10) mm	1250 (+/-10) mm
Width	390 (+/-5) mm	510 (+/-10) mm	520 (+/-10) mm
Height	378 (+/-5) mm	310 (+/_10) mm	310 (+/_10) mm
FG Weight	900-1000 Kg	950-1050 Kg	950-1050 Kg

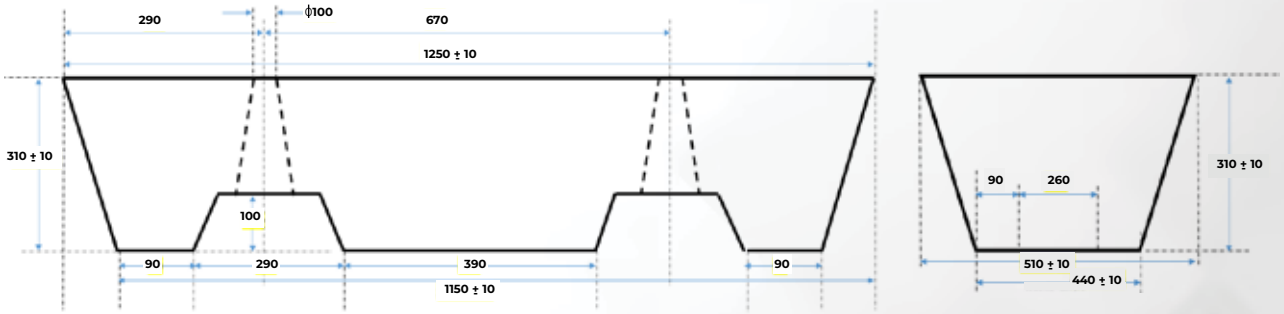
JUMBO WITH HOOK



TYPE-4 WITH CUT



TYPE-4 WITHOUT CUT



Physical Specifications: All Dimensions in mm

Advantages of SHG-Jumbo over Ingots:

The use of zinc jumbo (1 MT) instead of conventional 25 Kg slab provides galvanizers with a number of benefits.

Convenience

Use of zinc jumbos simplifies storage, handling and loading of the zinc into the galvanizing bath. As shown in figure 1 of bundle dimensions, jumbos are lowered easily and conventionally into the zinc bath using a chain sling attached to the crane hoist

Security

Ensuring secure storage at the galvanizing plant is therefore very important. Due to large cale, they are much less vulnerable to theft

Safety

There is much less risk of operator injury using zinc jumbos. They require crane for loading into the bath primarily and operators can therefore remain at safe distance. Melting of jumbos involves less turbulence results in less molten zinc splashing

Better Bath Management

Till the time jumbo is submerged into the bath, it has full support of the crane. When we add bundles of ingots, they get separated and few fall to the bottom of the bath results in some disturbance in dross layer, causing dross to mix into the zinc bath and subsequently contaminate the galvanizing coating

Cost Saving

Zinc melting loss is lower in case of jumbos as compared to ingots. This is due to less ash being generated on the galvanizing bath surface during melting as a result of less turbulence by splashing. Turbulence created in the galvanizing bath when adding zinc is caused by its surface condition (such as presence of minor oxidation, white rust, moisture condensation). This turbulence causes in ash formation on the bath surface. Tests have shown that the use of zinc jumbos results in 15 Kg less ash per tonne of zinc added to bath. Even after allowing for the subsequent sale of zinc ash, the cost savings are estimated to be approx. $20/tonne of zinc added

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