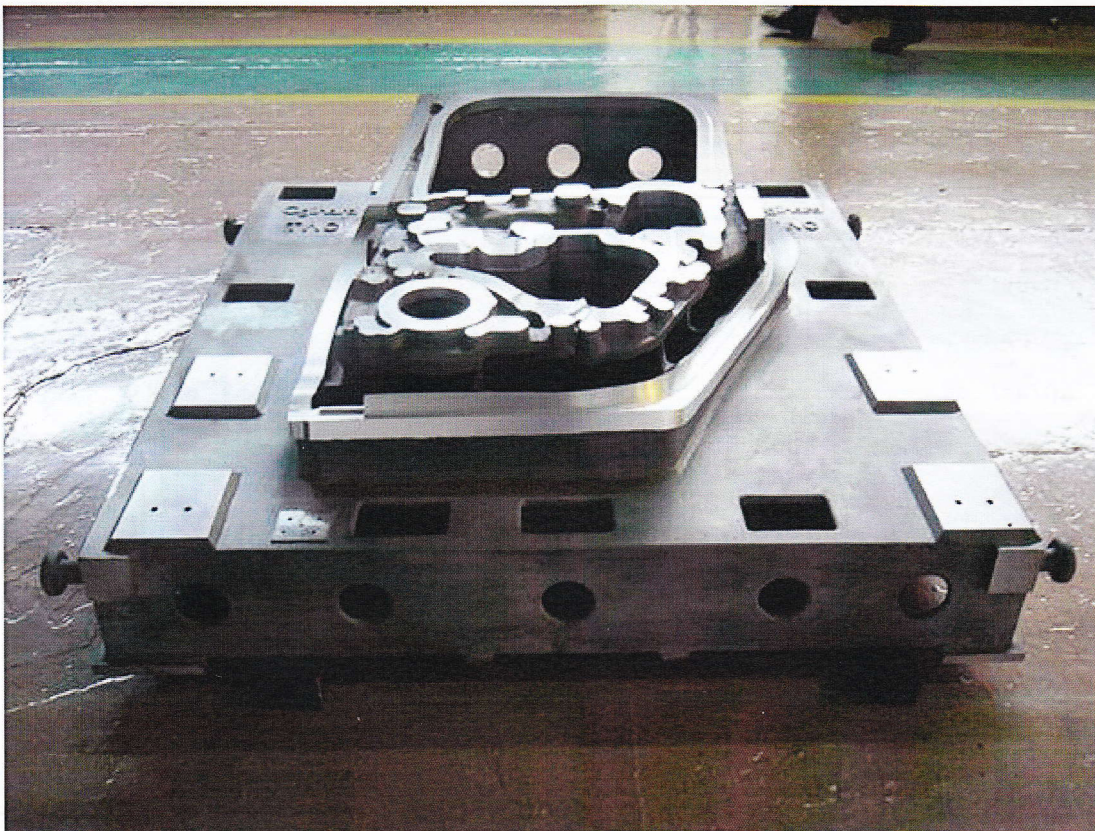


## Aluminum-Casting Inspection Jigs for Automotive Parts (Material)

Aluminum-casting inspection jigs can contribute to reduced environmental loads, reduced costs, and shorter lead times!



Tajima Light Metal Co., Ltd.

## Features of Aluminum-Casting Inspection Jigs

### ◎ 100% Recyclable

- \* With concerns of a worldwide aluminum shortage in 2020, more advanced recycling is necessary.
- \* Efforts to reduce CO<sub>2</sub> emissions are essential.

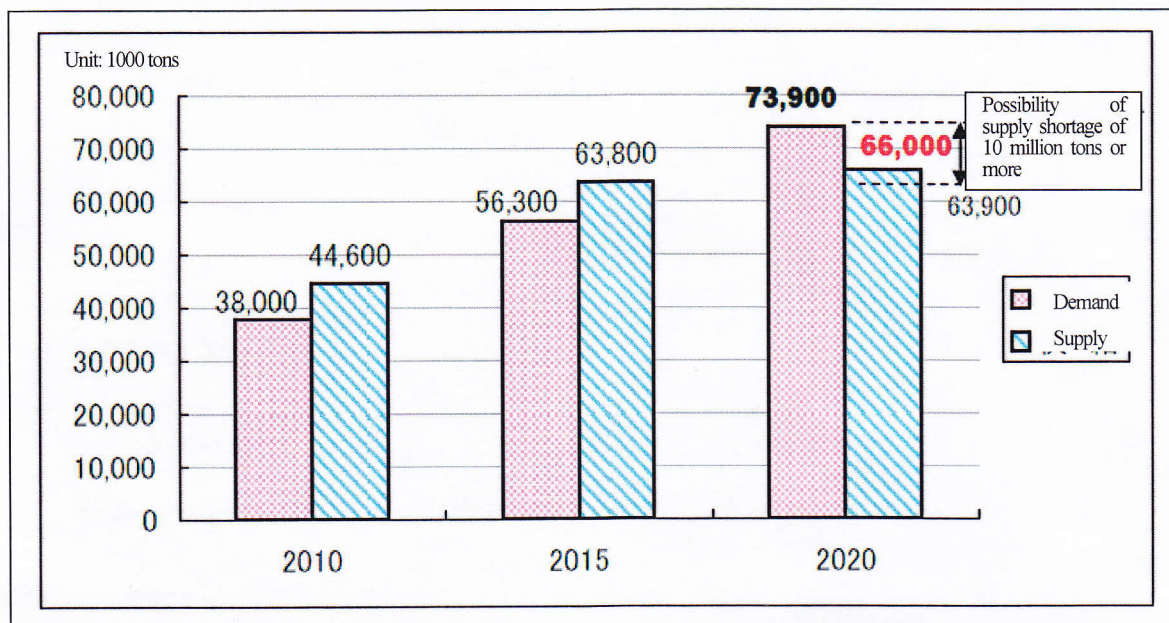
### ◎ Inspection jigs (final products) can contribute to reduced costs.

- \* Possible to reduce mold costs by standardizing frames.
- \* Possible to reduce material costs, preconditioned on recycling.
- \* New production method requires less attention than conventional welded structures.
- \* Space-saving and labor-saving.

### ◎ Inspection jigs (final products) can contribute to shorter lead times

- \* Welding work is not necessary.
- \* Work related to resins (cutting, pasting, etc.) is not necessary.




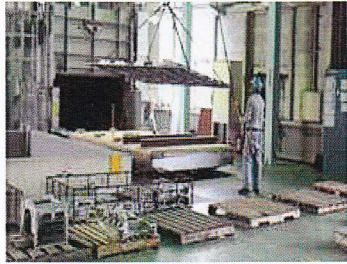


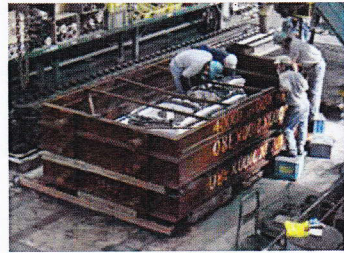
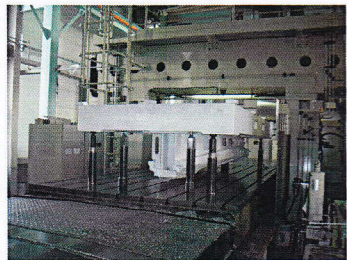
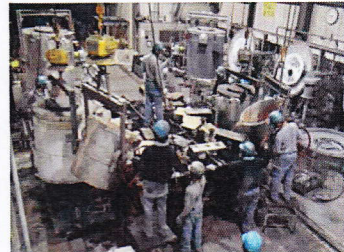



Reference information: Important forecast for aluminum (source: Japan Aluminum Association)



The Japan Aluminum Association calculated total supply and demand for virgin aluminum in June 2010. Against the background of demand in China, India, Brazil, and other emerging economies, demand is forecast to exceed 70 million tons in 2020. As a supply capacity shortage exceeding 10 million tons at maximum is possible, advanced recycling is an urgent challenge.

# Inspection Jig Production Process by Semi/Full Mold (Partial Lost-Foam) Casting Method

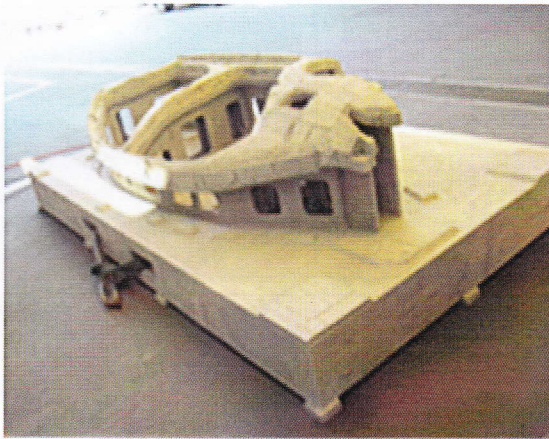
## Production Process for Inspection Jigs for Automotive Press Parts

1)CAD design		7)Cutting/finishing	
2)Mold NC machining		8) Heat treatment	
3)Finished mold		9)X-ray inspection (when necessary)	
4)Sand filling		10)Machining	
5)Pouring		11)Dimensional measurement (introduction scheduled)	
6) Shake-out		12)Final product	

## Examples of Manufacture of Aluminum-Casting Inspection Jigs

### Examples of Inspection Jigs for Automotive Press Parts

For side panel Weight: 1,810kg



For side panel Weight: 1,340kg



For door Weight: 500kg



For door Weight: 500kg



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