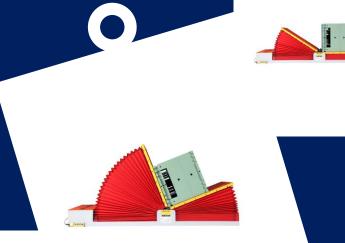
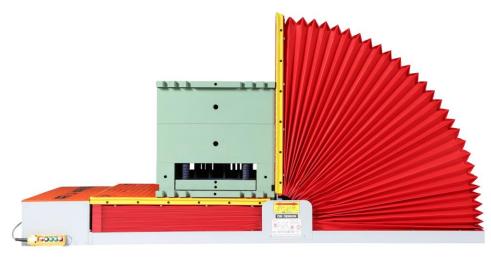
G T series





For $8 \sim 150$ tons

Mold Flipper

Comparison of mainstream inversion methods



Crane flipping

Required Skills

advanced

Reversal Risk

high

Forcibly flipping a heavy object.

Accidents are likely to occur the moment the load is transferred.

Crane manufacturers prohibit diagonal pulling due to the excessive risk.

When operating a wired crane, the control unit is often close to the object to be flipped.

There have been cases of fatal accidents where the object has been caught in the air while swinging.



Twin hoist flipping

Required Skills

advanced

Reversal Risk

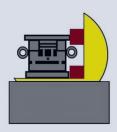
high

After lifting it with one end, you have to crawl inside and attach the other end.

Operation Occurs above eye level If wire breaks mold will fall.

There are many possible fall patterns when it flips in midair.

Many factories have exceeded the capacity of their sub-hoists.



90° Mold rotator pac-man type

Required Skills

intermediate

Reversal Risk

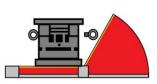
middle

The position must be shifted to avoid the sling by inserting sleepers.

The center of gravity is far away, the inversion according to the catalog value cannot be achieved, and a larger device than expected is required.

The inversion occurs above eye level, which can be Harmful for the operator.

Because it is driven by a motor with a reduction gear, the rotational force increases due to its own weight when it exceeds 45°, and it may overrun and fall.



Mold Flipper Flat type

Required Skills

beginner

Reversal Risk

low

The angle can be changed before and after inversion, so inversion can be performed with minimal effort.

After inversion, the wall can be made horizontal, so it is possible to attach a lifting device immediately, maximizing work efficiency compared to other inversion methods.

In addition, inversion can be performed at a position lower than eye level, providing a sense of security.

Inversions that exceed the capacity will not operate.

As long as you are flipping heavy objects, there is always the "risk" of a flipping accident.

How many years will dangerous flipping work continue in your workplace?

At Denson, we manufacture "turnover machines" that anyone can use safely, easily and quickly.

benefits of introducing the DENSON GT series

If you have not installed

If you are using DENSON GTseries

- A reversal accident may occur today

 "Avoid accidents caused by reversing"

 Overwhelming safety reduces

 all risks to nearly zero
- Employees in danger when reversing

 "Protect employees from danger"

 Eliminate employee danger
- Dangerous work becomes the norm -> "Psychological safety level will improve significantly."

 Workers have adapted within the environment An aversion to risk
 - Reversing work requires an experienced worker \rightarrow "Even beginners can easily perform inversion work."

 Hydraulic control makes it powerful and easy to operate
 - Spacers required when inverting

 "No more buffer material or spacers"

 Safe and efficient inversion work
 - Must turn with high center of gravity

 > "It allows for a low center of gravity and small force to turn the wheel."

 Compared to other methods, it is possible to flip at the most advantageous center of gravity
 - and cannot be embedded. → "Level to floor & low floor applications"

 Space can be saved
 - The product is damaged after the inversion process \rightarrow "Your precious inverted items will not be damaged."

 Almost no shock occurs when inverting
 - The crane is occupied for a long time

 "Reduce the time the crane is occupied"

 Product lead times are reduced
 - The crane equipment must bestrengthened to turn the mold around.

 "2 cranes are not necessary to flip the mold."

 The entire facility can be downsized.
 - Qualifications and experience are "No qualifications or experience are required to perform inversion work.

 The improvement of the improvement of

Inverter not compatible > "Can be replaced with generic products"

When replacing, you can install it in the same place

Concerns about the durability of the inversion equipment — "High durability and cost-effectiveness"

Get incredible cost-effectiveness

Ultra low floor Mold Flipper DENSON GTseries

Used for

Injection Mold

For mold maintenance

Machine frame

For turning over workpieces during machining

Marine engines

For processing and assembling diesel engines.

Large Structures

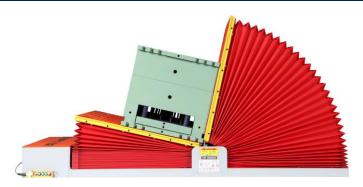
For manufacturing various building structures.

Roll material

When manufacturing press parts

Large materials

When manufacturing or transporting large materials.



This is the most widely used tipping machine in Japan.

Anyone can flip heavy objects 90 degrees with amazing ease and extreme safety.

Floor level application can be used where forklifts can go on top of flipper.

The GT series has been repeatedly upgraded for over 40 years, and is the optimal solution for tipping heavy objects that have been thoroughly thought out.

Choose from two types

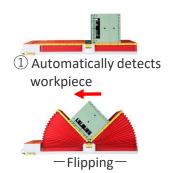


Vehicles can drive over the machine, and it can also be installed in the aisle.

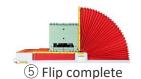


No need for large-scale construction work, easy relocation

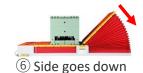
Operational flow



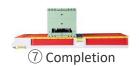








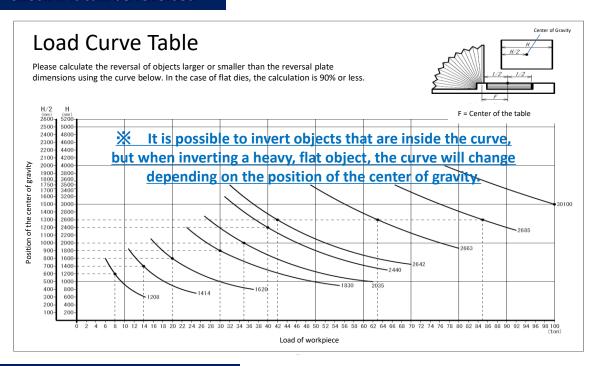




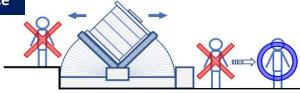
Side goes dov

How to operate the Mold Flipper

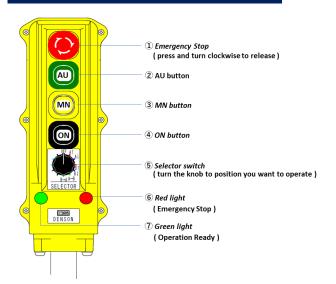
1 Check if it can be reversed



2 Move away to a safe distance



3 Operate with a controller



1 Turn the select switch to OFF



2 Press and hold button



(After 2 seconds, the green light will turn on and the device will be ready to operate.)



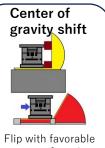
3 Press and hold N + AU at the same time.

(Semi-automatic operation until the reversing operation is completed)



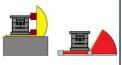
_4

Features and Functions of DENSON GT series



center of gravity

Ultra-low center of gravity inversion



Safe low-position reversal

Emergency stop

function

Triple safety features



Light and sound alerts Restrictions on operation area

Semiautomatic



One-push operation from start to finish

Human error prevention function A and B



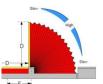
B Continues operation during automatic operation

One-handed driving prevention function



The operation can be disabled

Safe Speed **Control Function**



Safely speed controlled

Prevents dust from entering



Bellows protection

Power failure protection function. Brake when not in operation



Hydraulic circuit complete lock

Collision protection **function**



Protect the surrounding area with cushioning material

Interlock **Function**



can be controlled in conjunction with the guard fence.

Wireless operation function



Wireless control of the Mold Flipper *Optional

Manual Operation Function



Two-way operation: semi-automatic and manual

* Oil cooler for hydraulic system



To prevent oil temperature from rising during frequent reversals.*Optional

External oil supply function for sliding parts



Grease can be supplied from outside the machine.

Easy Access



Oil can be changed from outside the machine

Oil temperature monitoring function



Built-in oil thermo sensor

Motor temperature monitoring function



Equipped with a motor with built-in temperature sensor

Power cutoff



Automatically cuts off power in the event of an abnormality

Can be painted in a specified color



Can be changed to the color specified by each company.*Optional

Machine long life function



Power control by hydraulic unloading system

Function to warn of regular inspection



Automatic warnings when certain conditions occur

Weight protection function



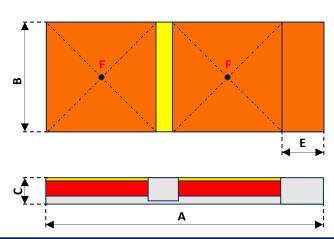
High strength design allows it to run over machines

Horizontal installation of the reversal plate



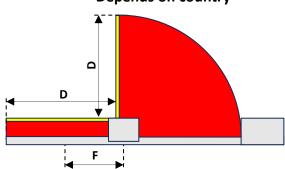
Leveling work using a laser measuring device

GTseries Dimensions

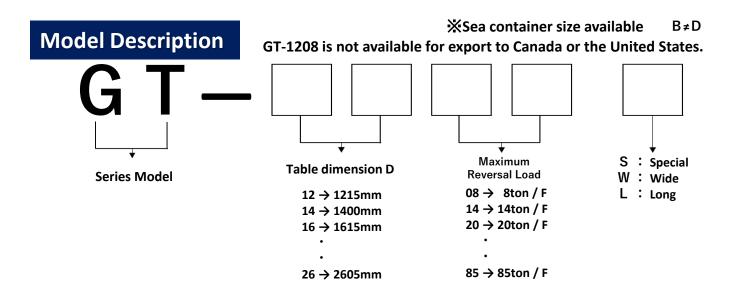


Power system : hydraulic

Power-supply voltage: Depends on country



Standard Model Oil Motor Machine External dimensions (mm) Maximum Reversal Load (ton/F) Model Capacity Weight quantity В С D E F (l)(kw) (ton) GT - 1414 5.5 2.7 GT - 1620 872.5 7.5 3.3 GT - 1830 GT - 2035 GT - 2440 **%2200** GT - 2642 1397.5 GT - 2663 1397.5 18.5 GT-30100 GT-30150



* Please note that the values in this catalog may change without notice due to ongoing research and improvements.

"Reduce the number of inversion accidents in the world to '0'." That is our company's mission. **DENSON Co.,Ltd. T** 340 - 0808

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