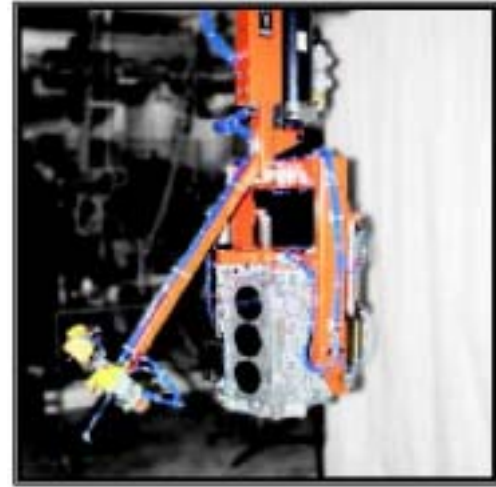


Automatic Balanced Arm



We can offer your original attachments.

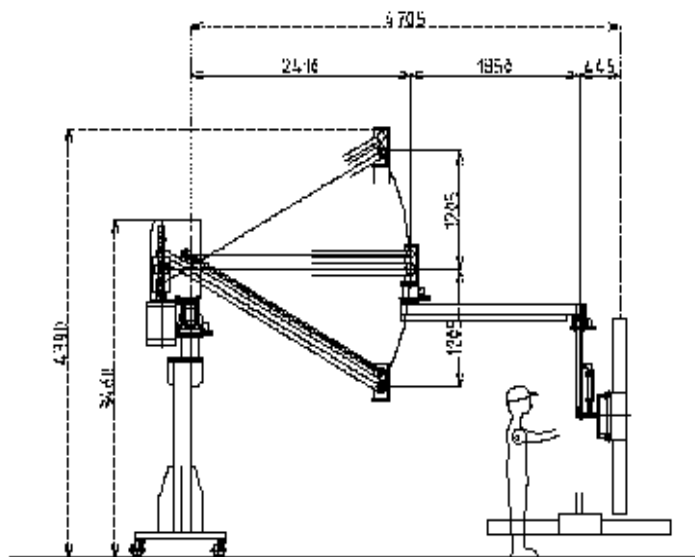


Type 200 Transfer of metallic molds

Standard T-Arm balances automatically. You don't have to adjust anything even if the products' weight is changed. It helps saved you works.

Types and Capacity

Type	Capacity	Travel
Type 60	60 kg	1200 mm
Type 120	120 kg	1400 mm
Type 200	200 kg	1500 mm
Type 350	350 kg	2000 mm



Type 350 Steel Transfer



Type 60 Door install for vehicle



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Aichi pref, Japan 446-0013

Phone: +81-566-76-5368

Fax: +81-566-76-5269

E-Mail: sales@thing-tech.com

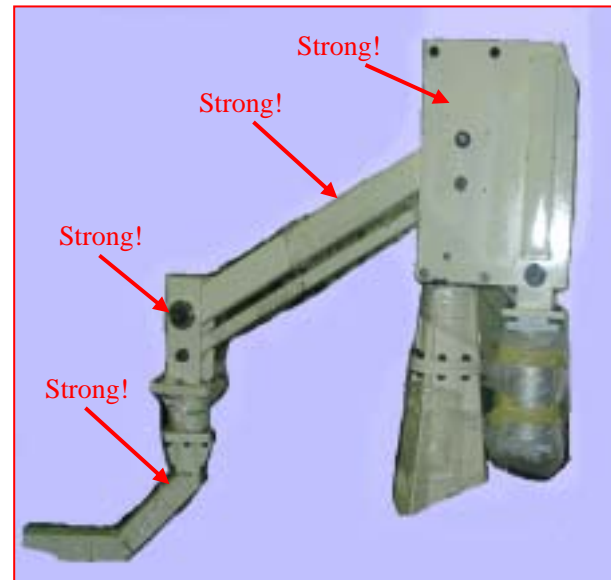
Homa Page: www.thing-tech.com

Relief & Comfort

We had designed all types of T-Arm for your relief and comfort. As a result, the strength of pull and compression is increased 1.8 times as conventional ones.

Complete Safety Design

- We had improved rigidity by review of internal structures and materials.
- Each parts' reliability had been gained by complete control over weld.
- Each points' strength had been gained by changes parts.



- It is designed for easy operation. Even women and elders can operate it easily.
- You don't need to adjust, T-Arm equipped "Automatic Balancing" control.

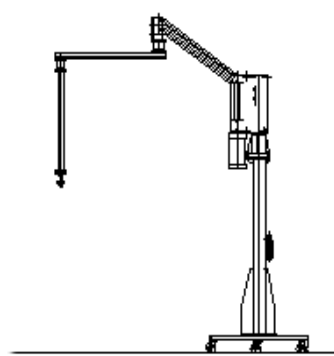
Easy operation! "Two Action"



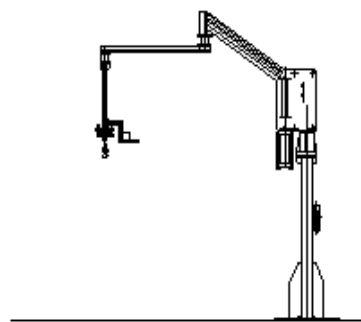
Up & Down control
by the lifting lever

Push the balancing
button

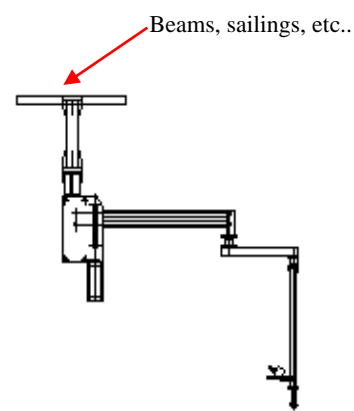
[Several establishments of T-Arm]



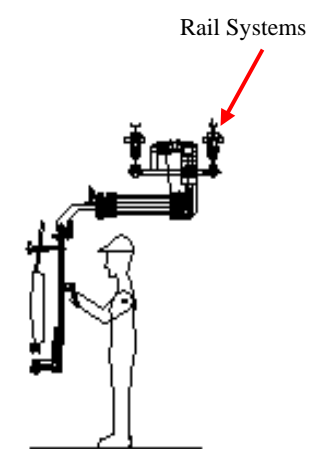
A. Ground, movable



B. Ground, fixed



C. Overhead, fixed



D. Overhead, movable

- You can choose various setting way.
- We can contract to design hands. We propose to operate them by using clamps, vacuums, hooks, etc...

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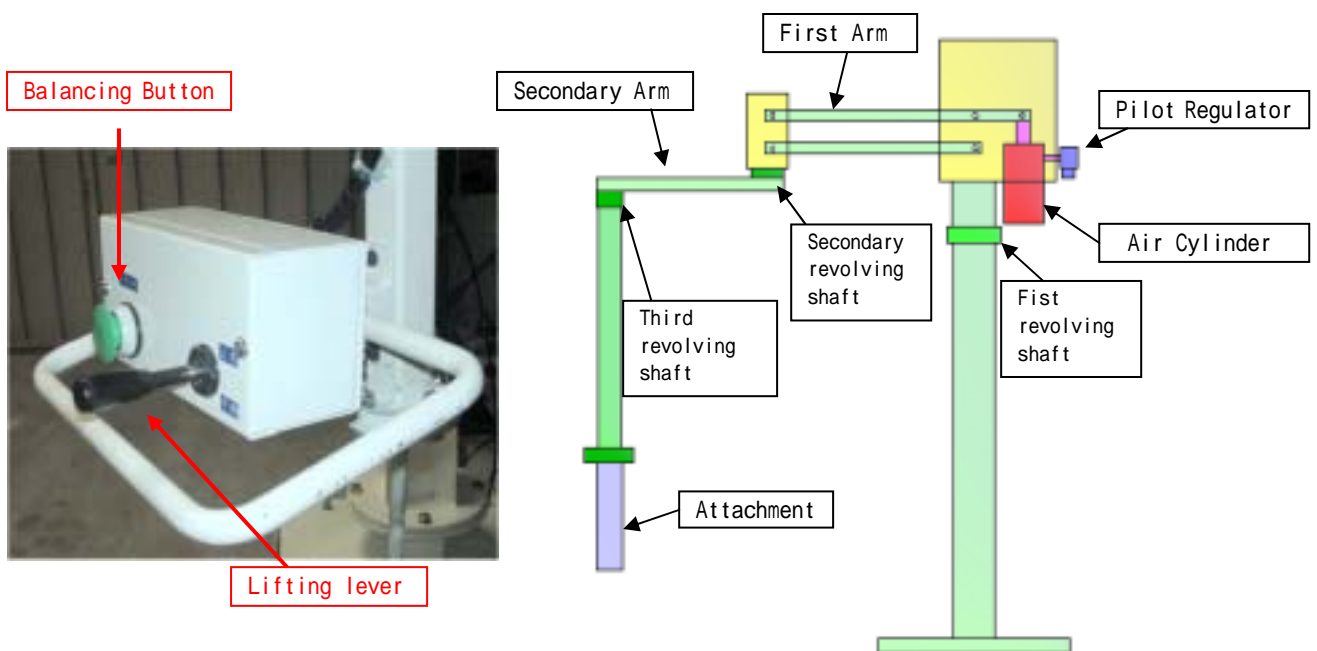
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July 8, 2003

Theory of movement of T-Arm and Options

THING TECH CO., LTD.



(A) 1PB circuit (Automatic Balancing) 1 PB

- Clamp the objective works(hereinafter, “works”) by using attachment.
- To ascent the arm, push up the lifting lever. Then, the air filled the inside of air cylinder and the arm rises.
 To descent the arm, pull down the lifting lever. Then, the air cylinder goes down and the arm sinks down.
 It stops as you leave the lever. (The arm is locked point at the point you leave it)
- It is balanced by sense the work ’ s gravity during the work is lifted. You can carry it with holding anywhere at this condition.
- It starts moving up & down if you operate it by the lifting lever. At the time, the arm is locked.
 It is balanced again if you push the balancing button.
- We can provide hand lever instead of the lifting lever and balancing button.

(B) Automatic sensor circuit

- This circuit is similar to 1PB circuit, but it is taken off the balancing button.
- It clamps the objective works (hereinafter, “works”) same as (A). As it accept the operation, the arm rises automatically and it sense the works ’ weight and it is balanced. It needs 0.5~1.0seconds.
- If you unclamp it after lowering the works, it is balanced without loads.
- If you don ’ t have any switches for clamping and vacuum, it needs a button or a lever for up & down.



(C) Adjust Pressure Controlled Circuit AJP

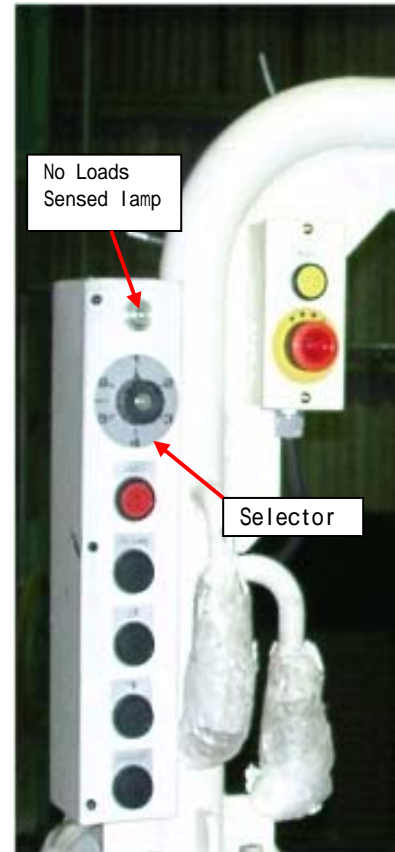
- This is common controlled circuit.
- Choose the variety of the works by using the selector in advance.
- This is balanced as to the chosen works' weight by clamping or vacuum.
- If you unclamp it after lowering the works, it is balanced without loads.

(D) Options

No Loads Sensed Interlock (It had taken out "the new practical plan") <NLI>

- Switches (for example, unclamp only run during the loads inside cylinder descends because of work's going down when (A) & (B) move up & down.

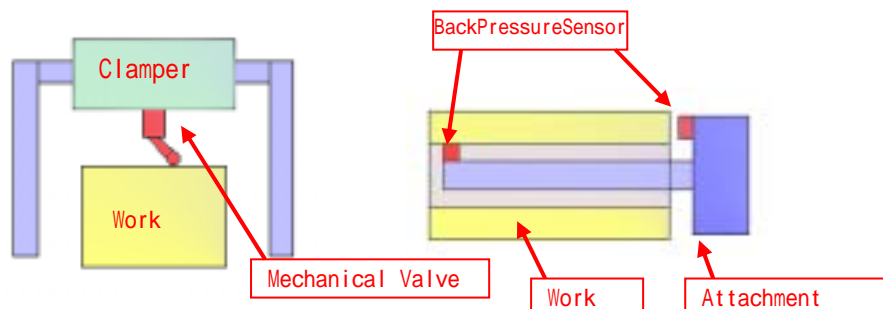
Rotating Brake RTB



- The brake is released during you grip the brake lever. As you lose your grip, the caliper which is installed on the shafts turned on and it locks each shafts. The purpose is determination of position to place the arm and prevention against collision with facilities and operators, so it doesn't sustain the all stress which works against the arm.

Loads Detecting Switches LPT

- To confirm whether it holds works certainly by clamps or something, mechanical valves are usually installed to attachments and the valves detect it. The other way, you can confirm whether there are the works by using back pressure or something.





Pressure Verification Switch PSI

- You can interlock various things with usage PSI. At first, you can lock the arm when the pressure drops below certain reading. You can also lock the arms when you would lift heavier thing than certain reading. At the time, PSI signals to lock the arms when the pressure inside the cylinder is bigger than usual. These are effective options in safety measure.

Preventive Function Against Arm 's Bouncing ARC

- The arm is balanced without loads when the works fall down because of some causes during it carries the works, it is balanced. It is caused because of unfastening LPT. You may be able to operate it with a relief when the arm is balanced with carrying the works.

Stopper With Shock Absorber SAB

- It can absorb the shock if you install an absorber in up & down movement and revolution. This function is helpful to the instance that it is operated fast, it is jolted at the end of up & down movement and revolution.
- We recommend for you to install it to the each stoppers of the rails when you use rail systems.

Arm Locking Structure ALD

- You can make the arms up & down parts locks when always you have to keep the arm upper. It doesn't move absolutely.

Decline Interlock (DIL)

- As add an order for decline to the button which release the grips of products. After NLI sense that the products go down enough, the grips are released.

*We can suggest the other various options which fill your operating environment. Please refer to us the details.