



摩坦斯

- 粉粒体工程专家



M.T.S

- a good name in bulk handling industry



摩坦斯

摩坦斯清堵系统

**BUILD-UP &
BLOCKAGE
CLEARING
SYSTEM**



*for silos, bins, hoppers, &
most storage vessels*

KEEP YOUR PRODUCT FREE & FLOWING...

THE MTS SYSTEM



Before: Plug is removed to reveal build up of product



MTS tube is placed in the tube holder, inserted and then secured in the socket. The tube is then activated.



After: The tube is removed to reveal build-up has been cleared and product is aerated and once again free flowing.

EFFICIENT, EFFECTIVE & RELIABLE...

OVER 50 YEARS OF KEEPING PRODUCTS FREE & FLOWING!

T VÙ is widely recognised as the most efficient way and reliable means of clearing build ups and blockages..... whether **grain, flour, maize, soya, salt, sugar, cement, gypsum, coal, fertilizer, catalyst, ores, powders etc.** The powerful T VÙ System provides the ultimate solution to clear even the most difficult of build ups.

WHY?

Each and every time you use a T VÙ Tube you instantly release a cold heaving mass of CO₂ that expands 600 times its original volume!..... At pressures which can be regulated from 1,200 bar (18,000 psi) to 3,000 bar (40,000 psi).



Soya build up viewed from above



View of soya build up from down inside silo just prior to activation of one T VU Cardox Tube.



T VU Tube is activated, releasing within a second a powerful heaving mass of cold CO₂ that expands 600 times its original volume.

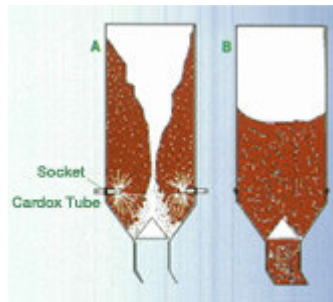


T VU clears the build-up and creates the product to produce a free flowing product.

ACCESS

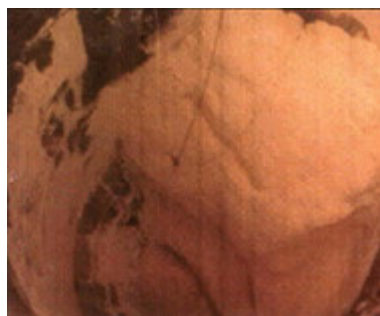
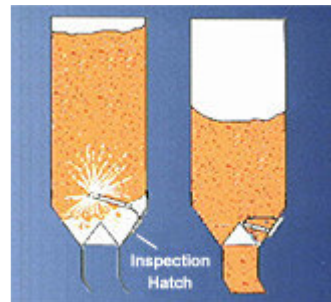
ACCESS TO BUILD-UP

Through sockets
Mounted onto silo wall



ACCESS TO BUILD-UP

Through inspection
hatches



Before: 15m high build up on walls of grain silo

After: One T VU Tube clears the build-up

A

The 'Sealing Plug' is removed from the 'Socket' and a hole made in the product. The T VU Tube is inserted through the Socket into the product and activated.

B

T VU Tube is removed and Sealing Plug replaced in Socket, returning the vessel to normal operation until the next time T VU is needed.

SAFE OPERATION

FULLY APPROVED BY THE UK HEALTH & EXECUTIVE

T VÙ can be applied either through small Sockets mounted onto the vessel wall or through inspection hatches around the silo. Either way nobody need enter the vessel and T VÙ Tubes can discharged away from the vessel area.

COST EFFECTIVE

Compared to other methods of aerating product and clearing build-up T VÙ usually proves more cost effective in terms of:

Capital costs – Many of our customers report that T VÙ has paid for itself after just a single application.

Hire costs – Extremely reasonable rates available!

Running or operational costs – There are no continuous running costs with T VÙ, the System need only be used when build-up accumulates.

Maintenance costs – Virtually no maintenance costs!

AVAILABILITY

T VÙ is available in the following options:

Purchase a complete T VÙ System

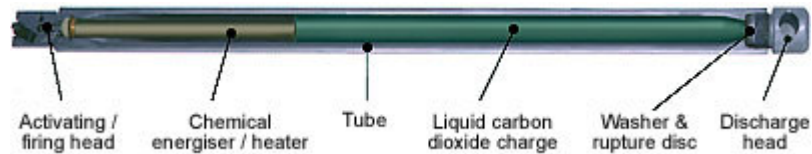
Hire a T VÙ System

Hire a T VÙ Service Team to undertake the works

HOW IT WORKS...

T VÙ consists of a high strength reusable steel tube filled with liquid carbon dioxide, a chemical heater and a rupture disc.

MTS Tube Cut-away



When energised by the application of a small electrical charge, the chemical heater instantly converts the liquid carbon dioxide to a gas. This conversion expands the CO₂ volume and builds up pressure inside the tube until it causes the rupture disc at the end of the tube to burst. This releases the CO₂ - now 600 times the original volume - through a special discharge nozzle to create a powerful heaving force, at pressures up to 40,000psi (3,000bar). This all takes place in milliseconds.

T VÙ dioxide gas is an inert gas that is commonly used in fire extinguishers, so it is safe to use without fear of generating secondary reaction with gases in the vessel/silo. In addition the quick release of the gas refrigerates the discharge, bringing it to a temperature low enough to avoid ignition of any air-gas mixtures inside the blocked vessel.



Simple, secure coupling devices are mounted on the equipment in areas of known build up, which allows you to set the T VÙ Tube to a predetermined depth and discharge direction.

