

## Efficient waste disposal using screw compactors.

The Austrian mechanical engineering company UT Umwelttechnik M. Lechner GmbH is based in Bergheim near Salzburg and develops, produces and markets innovative screw compactors for the waste disposal sector. The compactor screw in these units is driven by a Watt helical geared motor (custom design). The feeder unit (optional) is driven using a helical worm gear motor.



### Mobile and stationary screw compactors:

The product range includes two screw compactor systems based on modular designs, which can be selected depending on the logistics system being used or the space available.

Mobile systems (MSC type, 18 - 22m<sup>3</sup>) are used wherever flexibility is required and the waste volume is not excessively high.

Stationary systems (SSC type, 4 - 32m<sup>3</sup>) are used for high waste volumes (see **Figure 2**).

The most efficient waste disposal system is chosen in consultation with the customer during the planning phase.

### Applications:

The screw compactors can be used for the disposal of the following waste types:

- Cardboard boxes and loose paper
- Pallets, wooden crates and disposable containers
- Plastic films and mixed plastic waste
- Other industrial waste

### Benefits to the customer:

The main benefits of the system include:

- High turnover up to 75m<sup>3</sup>/h
- Space-saving thanks to high compaction rates (up to 10:1 compaction)
- Considerable savings on transport costs (containers require less frequent emptying)
- Custom modification for constructional conditions



**Figure 1: HK 110A 134ML4 TH**

### Gear data for SSC 9 main drive:

HK 110A 134ML4 TH (see **Figure 1**)

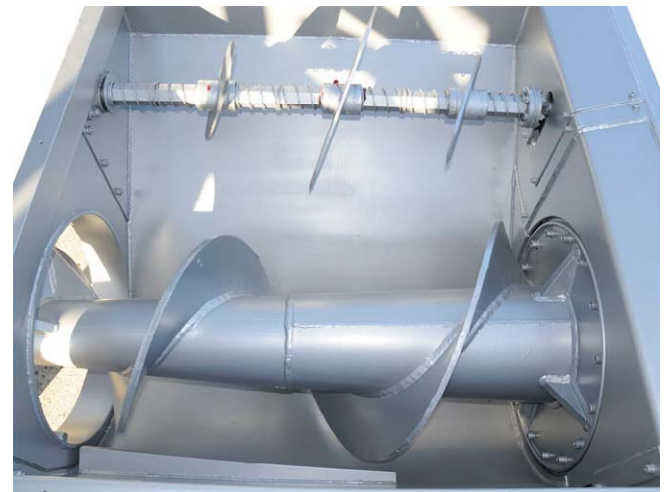
Input power P <sub>1</sub> :	9.2 kW
Voltage/frequency:	400/690V, 50Hz, D/Y
Protection rating/ISO class:	IP55/F

The used HK 110A helical geared motor is manufactured with a customised output shaft and output flange. The drive units are designed for peak torque load. A chain wheel is positioned on the output shaft which drives the screw compactor shaft via the chain drive.

### Gear data for feeder unit:

SUA 608B 81N4

Input power P <sub>1</sub> :	0.75 kW
Voltage/frequency:	230/400V, 50Hz, D/Y
Protection rating/ISO class:	IP55/F



**Figure 2: SSC9 stationary screw compactor**

For more information on the Watt product range, please visit our website at [www.wattdrive.com](http://www.wattdrive.com).