

# Lining Tools for Coreless Induction Furnaces, Ladles and other Aggregates



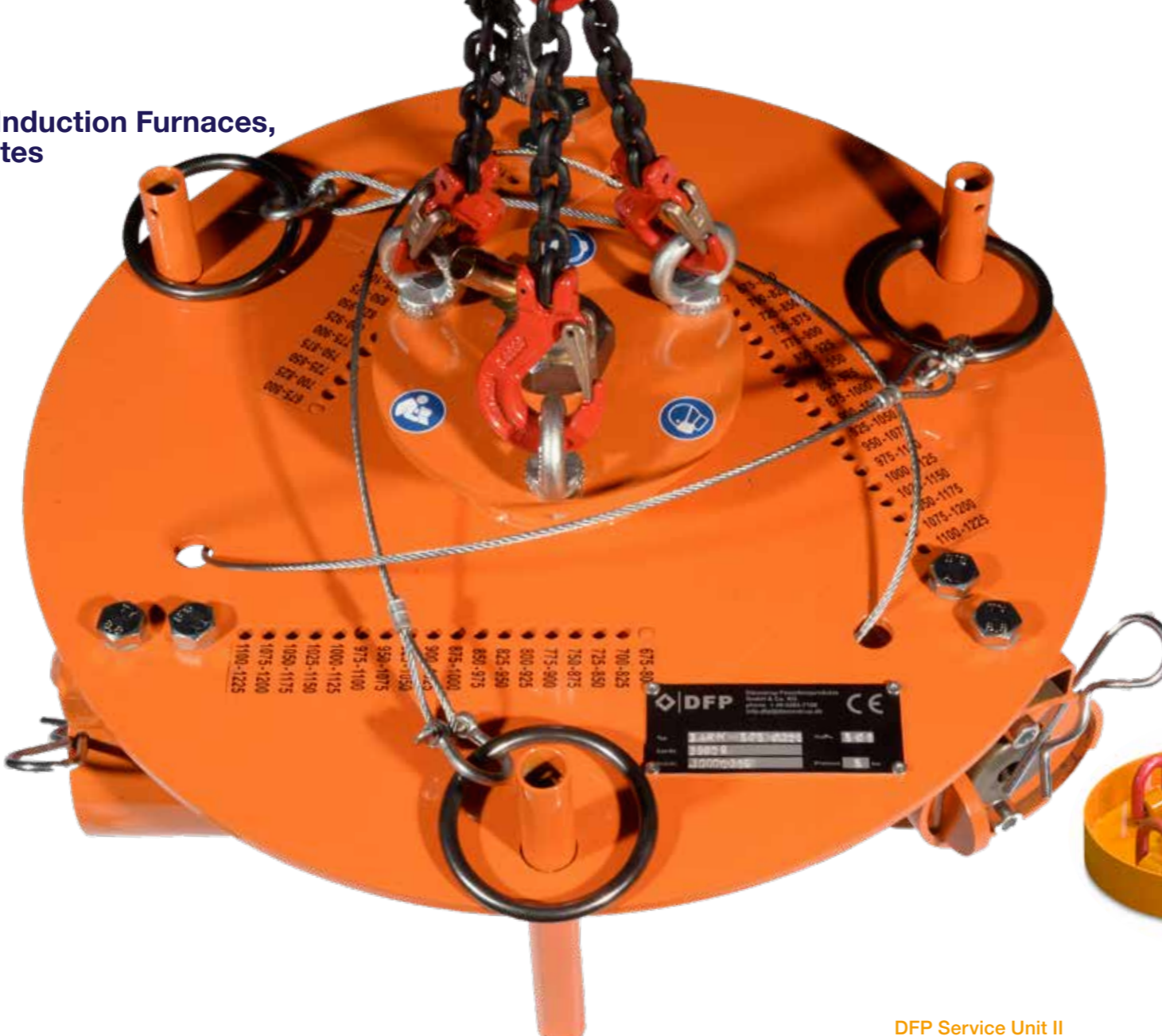
## Vibrator for side wall:

The vibrators use the tapping effect and have arms each provided with an adjustable arm-unit. Depending on the furnace size, different tools are available: 2-arm or 3-arm vibrators.

The tools are driven by compressed air and suitable for connection to any compressed air line having at least 6 bar.

## The DFP Automatic Vibrator:

- automatic maintenance unit for oil > longer life time
- measuring unit for air pressure > guarantee for safe compaction
- improved material of all components > longer life time
- improved sealing of the vibration units > increased power
- easy handling
- easy and safety adjustment with cross-section ruler
- quality-secured production > model number and name-plate



**Information:**  
The function principle is according to the valid DFP working instructions. Due to further developments there are modifications of the design of our lining tools possible.



**DFP MINI Automatic Vibrator:**  
For small furnaces, with diameters from 260mm to 460mm DFP has developed the MINI 2 arm automatic vibrator.



**Bottom plate vibrator:**  
The installation of the bottom can be done by a bottom plate vibrator, which is equipped with a pneumatic vibrator.



**DFP Service Unit II**  
Small portable protection box with carrying handle and maintenance unit for DFP Lining Tools.



## The DFP Service Unit with Multifunction Rack:

- Optimum protection for the service unit
- Hanger for air tube and electric cable
- Rack for the control unit of the lifting device
- Easy control of air pressure
- Integrated filter
- Ergonomic and safety working height

## The DFP Lifting Device:

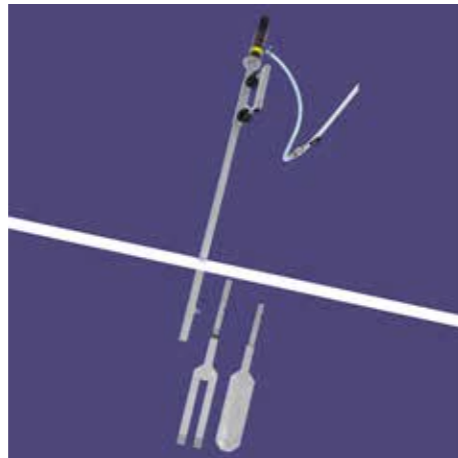
- Integrated crane
- 10 programs free selectable
- Automatic adjustment of the lift height
- Defined installation through control system
- Wing-span of the frame from 500 – 2.000 mm
- Loading capacity max. 500 kg
- Quality controlled production (type plate)
- Quality components (among other things Siemens)
- Quality case



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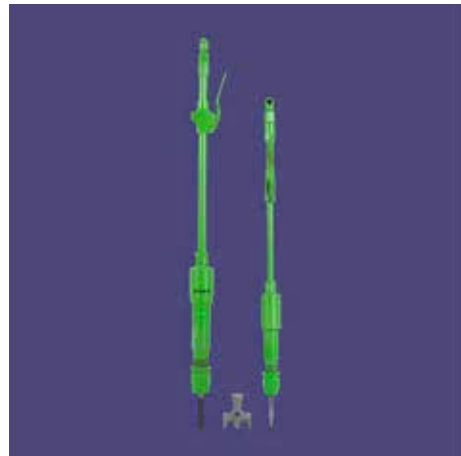
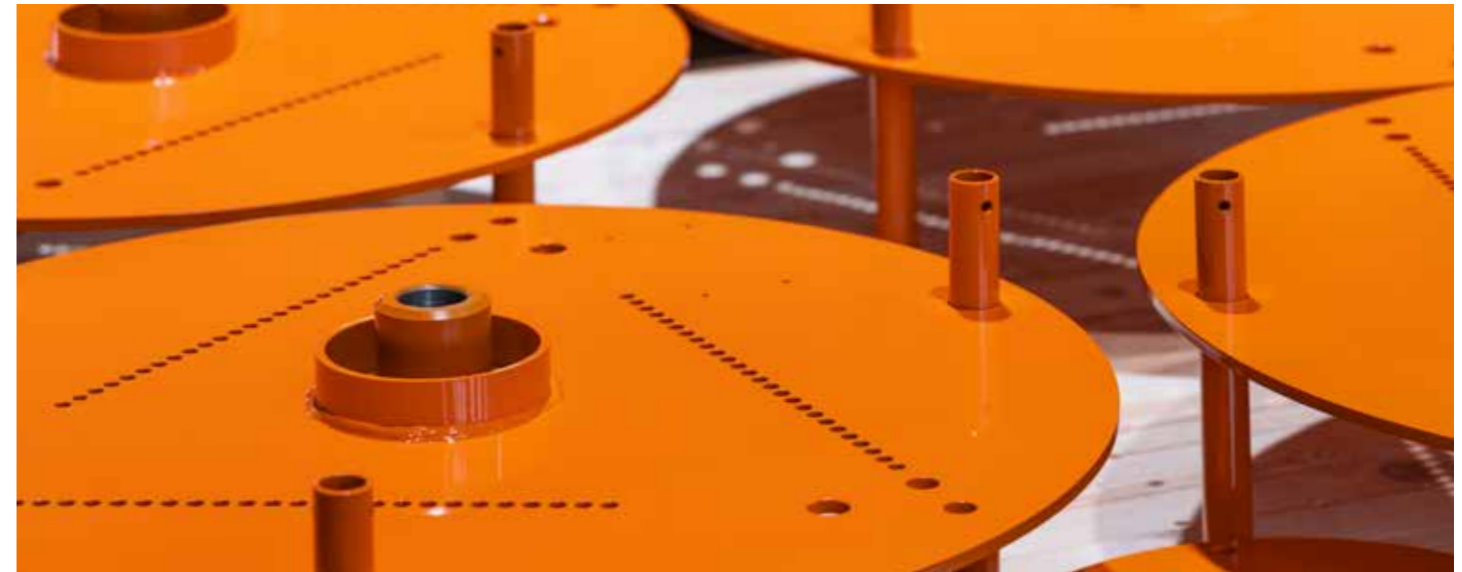
**Compressed air vibrator:**  
This device is operated by a ball air vibrator with high frequency and can be used with a fork and with a base plate. The vibrator is operated by hand and is especially suitable for ramming dry refractories which must be filled in layers of 100-120 mm.



**Backup mix vibrator with piston vibrator:**  
This tool is to use for the vibrating of the hole mix and the backup mix. Furthermore it can be used for prejolting the cone and side wall area in the case of a conventional lining.



**Electric vibrator:**  
The electric vibrator is a hand-operated vibrator, too. The vibration effect is transmitted onto a rectangular base plate via a tube. This tool is especially suitable for small furnaces and for ramming neutral and basic dry linings. Here, the filled layers must not be higher than 60 mm.



**Ramming tool for wet ramming material / ramming foot:**  
Deliverable are different sizes: ST 1 / ST 2 in short or extended completion, alternatively with silencer



**Immersion bottle vibrator:**  
Following diameter are available: 35 mm / 55 mm  
The immersion vibrator is working with 6 bar air pressure



**Hand compulsion mixer B7:**  
For mixing small quantities



**Crucible lifting device:**  
This tool can be used for the installation and break out of the crucible, if there is not a push out system available.



**Compulsion mixer for concretes:**  
The mixer is available in different sizes: 100 l / 200 l / 300l mixing capacity. Furthermore the mixer can be delivered additional with a whirl.