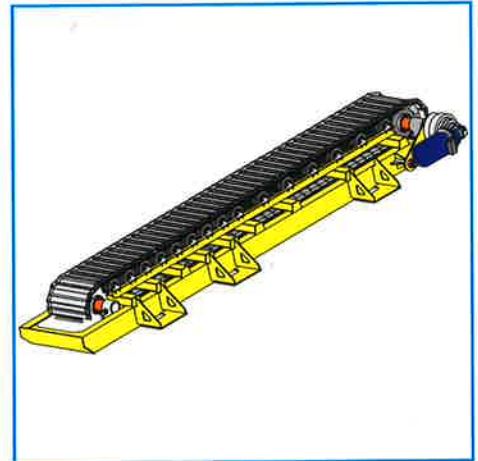


# BAIONI® UniTrack7

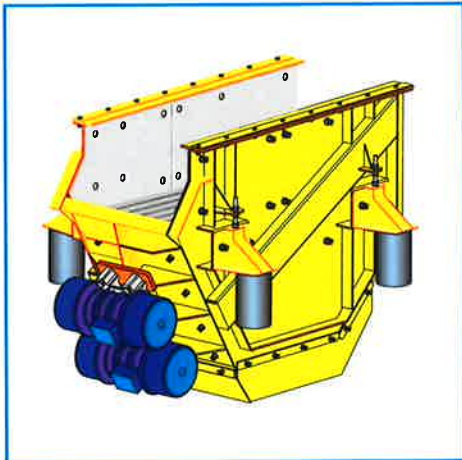
Crushing Plants

BAIONI CRUSHING PLANTS SpA is now breaking new ground with the introduction of **Unitrack7**, the first tracked mobile unit for aggregate production, designed and developed for mining industry, from quarrying applications to recycling. **Unitrack7** is a **complete crushing and screening plant** with electric motors to power the movement of the tracks, a low feed hopper to make the load easier even with small loaders, thus finding further applications in road construction, for the production of mixed aggregates suitable for road foundations or fillings.

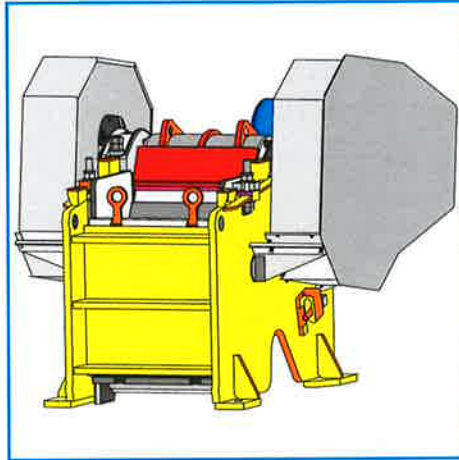


Apron feeder AP 60

The unit has been designed as complete crushing and screening plant for primary and secondary crushing handling hard and abrasive rocks (i.e. andesite, basalt, quartzite, gabbro). It can be fed directly with loaders and buckets.

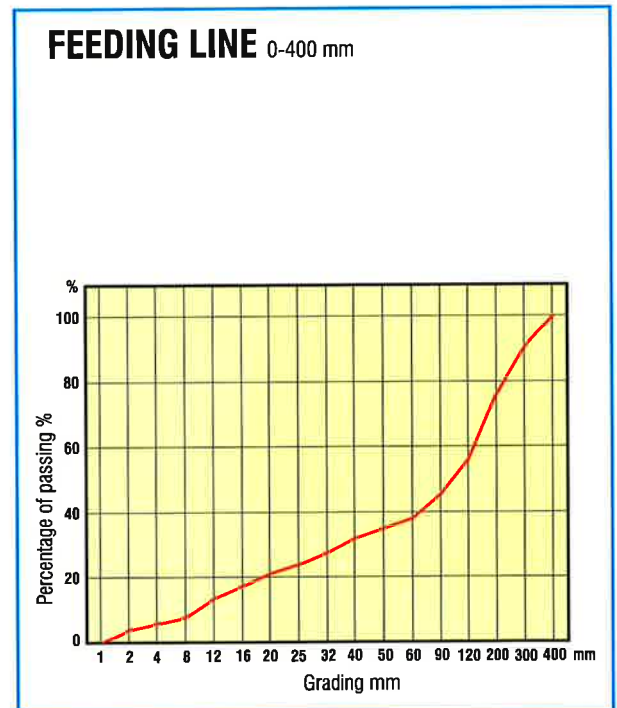
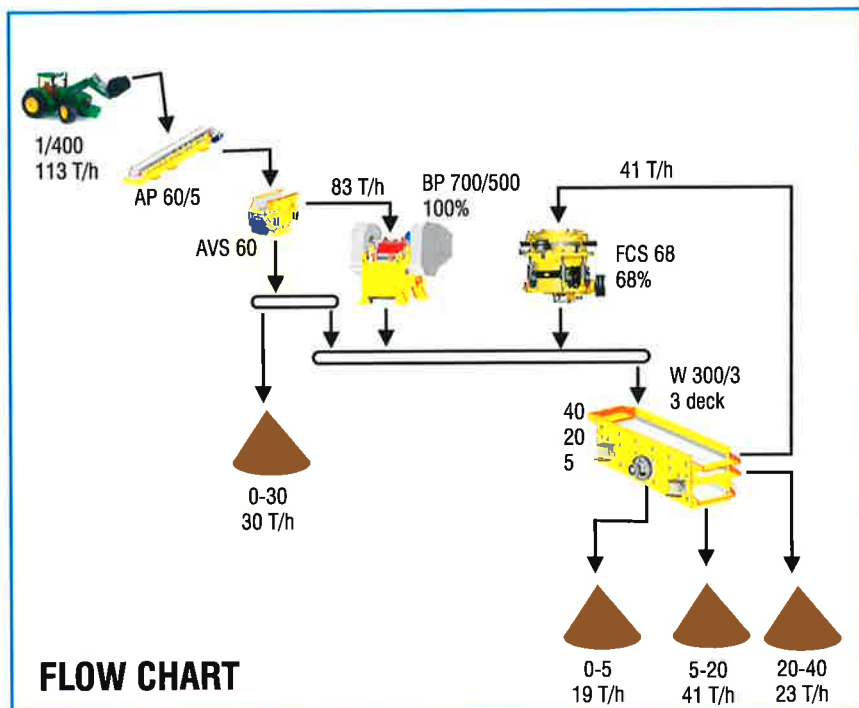


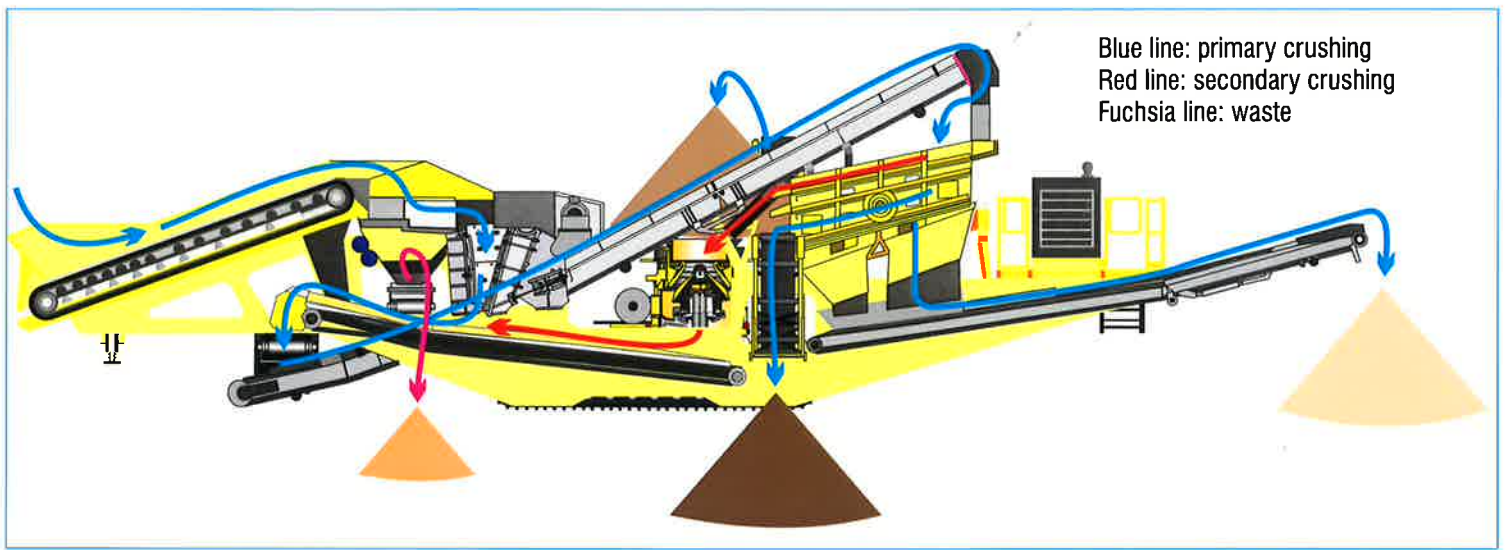
Vibrating grizzly screen AVS 60



Primary jaw crusher BP 700/500

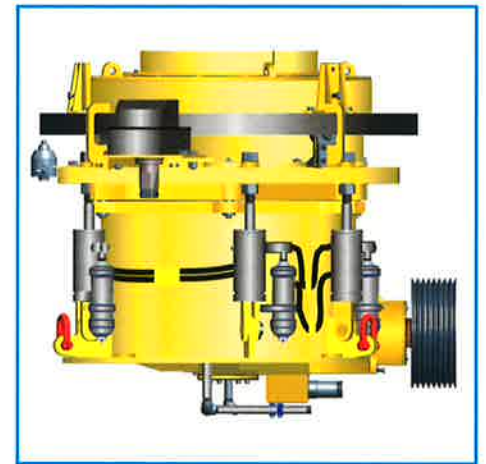
This mobile plant is fully driven by electric motors powered by a generator, both for production of aggregates and tracks motion (with inverter) and can be operated remotely via a standard remote-control system allowing to operate where space is limited, such as on smaller quarry or construction sites, where a smooth and accurate drive is still required. Easy to transport and quick to set-up, **Unitrack7** complies with safety and environmental standards. All pistons are powered by an hydraulic plant. All settings of the machine are controlled by an electric panel placed onboard. The whole unit is purposely oversized to ensure excellent resistance, all trade components are able to work even in adverse weather conditions (low temperatures up to -30° C).





## PROCESS DESCRIPTION

1. The material to be processed is loaded directly into the hopper by loaders or buckets.
2. Rocks are extracted by an apron feeder then transferred to the grizzly screen for primary screening of fines and contaminated material.
3. Pre-screened material goes into the primary crusher for size reduction.
4. The output product falls onto the conveyor belts and then conveyed to the vibrating screen.
5. The vibrating screen selects the material sending the different sizes to the side extracting conveyors and to the sand conveyor.
6. The selected material yet to be crushed is conveyed to the cone crusher for secondary crushing.
7. Thus the material returns back to the vibrating screen through the conveyor belts system where it is further screened, then ready for the stockpile.

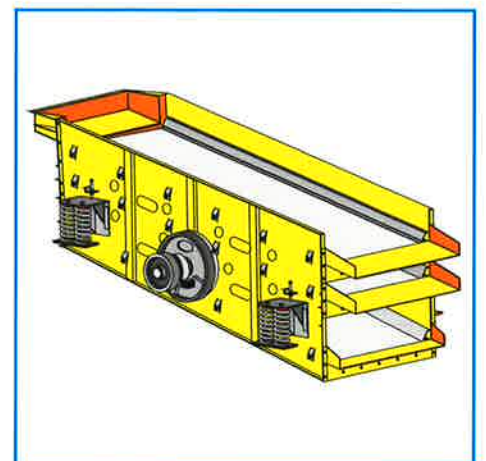


*Cone crusher FCS 68*

## SETTING ADJUSTMENTS

**Unitrack7** onboard machinery (components) may have the following setting adjustments:

- a) APRON FEEDER (AP 60/5) - Adjustment of track tensioning.
- b) VIBRATING GRIZZLY FEEDER (AVS 60) - Adjustment of vibrations to allow dirty material to be properly processed.
- c) JAW CRUSHER (BP 700/500) - Adjustment of jaws opening according to the size of final product to be achieved.
- d) CONE CRUSHER (FCS 68) - Adjustment of the liners according to the material to be size of the final product to be achieved.
- e) CONVEYORS - Adjustment of belt conveyors tensioning.
- f) BELTS - Adjustment of transmission belts tensioning.
- g) TRACKS - Adjustment of tracks tensioning.



*Vibrating screen W 300/3*

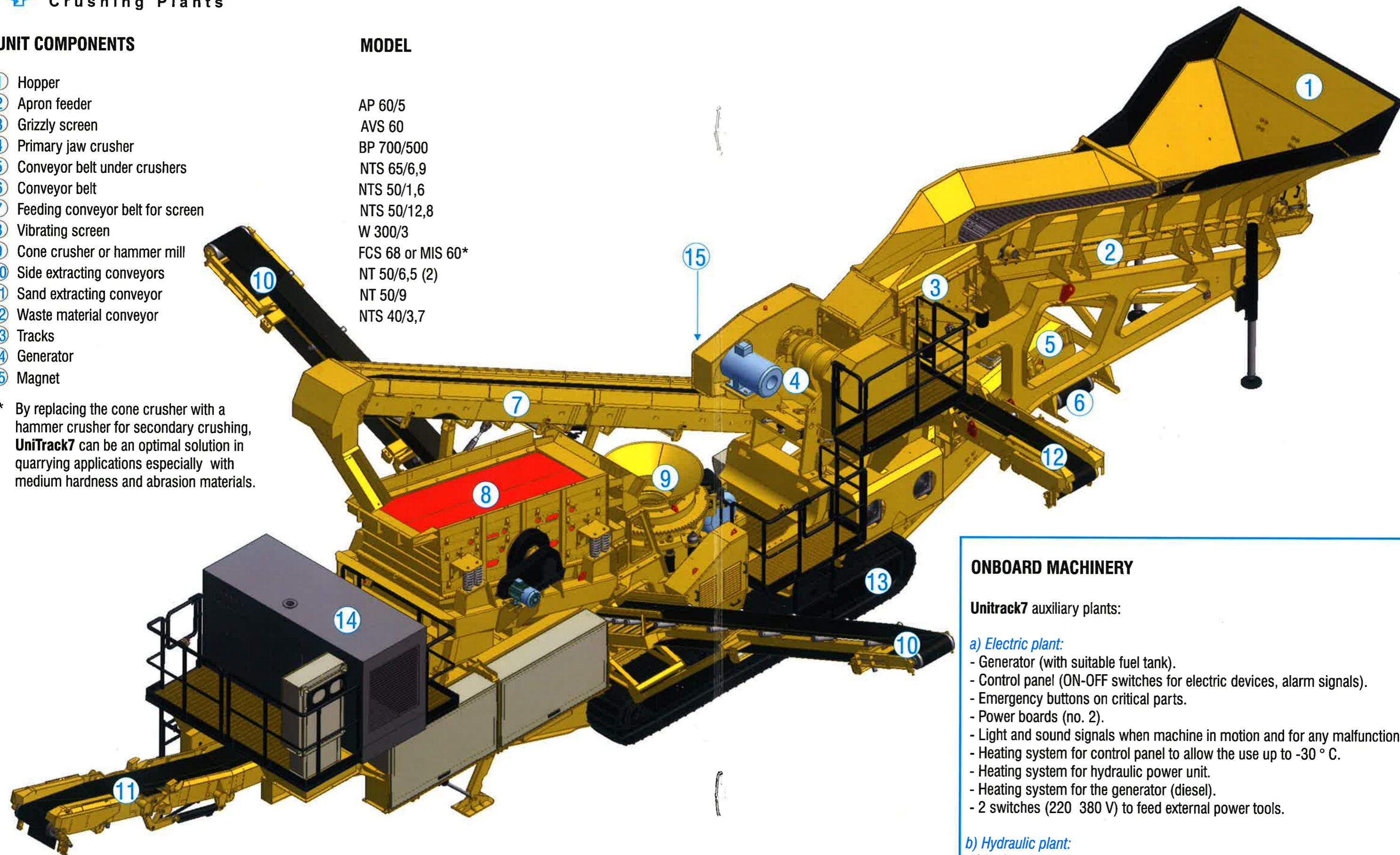
**UNIT COMPONENTS**

**MODEL**

- ① Hopper
- ② Apron feeder
- ③ Grizzly screen
- ④ Primary jaw crusher
- ⑤ Conveyor belt under crushers
- ⑥ Conveyor belt
- ⑦ Feeding conveyor belt for screen
- ⑧ Vibrating screen
- ⑨ Cone crusher or hammer mill
- ⑩ Side extracting conveyors
- ⑪ Sand extracting conveyor
- ⑫ Waste material conveyor
- ⑬ Tracks
- ⑭ Generator
- ⑮ Magnet

- AP 60/5
- AVS 60
- BP 700/500
- NTS 65/6,9
- NTS 50/1,6
- NTS 50/12,8
- W 300/3
- FCS 68 or MIS 60\*
- NT 50/6,5 (2)
- NT 50/9
- NTS 40/3,7

\* By replacing the cone crusher with a hammer crusher for secondary crushing, **UniTrack7** can be an optimal solution in quarrying applications especially with medium hardness and abrasion materials.



**ONBOARD MACHINERY**

**Unitrack7** auxiliary plants:

*a) Electric plant:*

- Generator (with suitable fuel tank).
- Control panel (ON-OFF switches for electric devices, alarm signals).
- Emergency buttons on critical parts.
- Power boards (no. 2).
- Light and sound signals when machine in motion and for any malfunctions.
- Heating system for control panel to allow the use up to -30 ° C.
- Heating system for hydraulic power unit.
- Heating system for the generator (diesel).
- 2 switches (220 380 V) to feed external power tools.

*b) Hydraulic plant:*

- 1 hydraulic unit for the lubrication of the cone crusher FCS.
- 1 hydraulic unit for stabilizers, the opening and closing of the side conveyors, the setting of the mantle of the cone crusher, especially for uncrushable material (hydraulic tramp release system).
- Safety valves on pistons.