THE SUNDCO CONCEPT
SUNDCO COIL HANDLING SYSTEM is designed and developed to give a smooth and gentle handling of coils.
The PCVA compactor with integrated KNB binding units or SBH5 strapping units is a powerful solution.

The coil collecting station with distributor and easy down function assures that optimal coils are created and maintained.

The design gives a convenient access to the binding units and makes maintenance of vital parts easy.

The PCVA compactor is cost effective and quick to install.
The coil collecting is done on a pallet in vertical position and by so avoiding deep foundation pits for down-enders or other mechanisms in collecting station.

Coil shape is maintained round on the pallet until it has been allowed to cool down and stabilize.

Very little floor space is occupied since supporting steel structure is limited.

When continuous rolling (welding of billets) is used where no front or rear ends needs to be trimmed the vertical system with vertical compactor is preferred.

On quality and cost efficiency.
TYPICAL MAIN FUNCTIONS

1. Coil collecting station
2. Hook with stable stand
3. Wheel conveyor, belt operated
4. Trimming station
5. Coil compacting station
6. Unloading station
7. Control room
mills a rational and efficient coil transportation
TYPICAL MAIN FUNCTIONS

1. Coil distributor
2. Coil collecting station, easy down
3. Pallet with coil
4. Transfer - horizontal to vertical
5. Hook with car
6. Turn table with wheel section
7. Wheel conveyor
8. Trimming area
9. Coil compactor, PCH
10. Unloading station
11. Control panel

The coil collecting can be done on a pallet in a vertical position and by so avoiding deep foundation pits for down-enders or other mechanisms in collecting station. The coil shape is maintained round on the pallet until it has been allowed to cool down and become stable.
SUNDCO-V/H combines the best of the two systems and gives a practical system suitable for most mills.

The coil collecting is done on a pallet in vertical position and by so avoiding deep foundation pits for down-enders or other mechanisms in collecting station.

Coil shape is maintained round on the pallet until it has been allowed to cool down and stabilize.

Very little floor space is occupied since supporting steel structure is limited.

Easy and quick to take samples and to remove front and tail of coil by trimming.

Shape of big coils is maintained good during compacting, even at very high pressure.

Unloading can be done quick and easy.

Smooth and gentle handling of coils.
With a technology built upon over 40 years of know-how, The SUNDCO CONCEPT has proven to be a art of handling system for smooth and gentle handling of coils. Some of the major advantages with the SUNDCO CONCEPT are:

- Coil collecting station with distributor and easy down function.
- A system that can handle coil weights up to 3000 kg.
- Easy to extend due to standardization of conveyor sections.
- Low maintenance costs due to utilization of belt drive and no power chain.
- Simple and heavy construction devoid of sensitive components.
- Compactor equipped with wire binding heads KNB or strapping heads SBH5.
- A hook that can be orientated in any direction to suit the various working stations.
- Excellent hook stability in all directions.
- A top modern and space saving design.

The purpose of SUND BIRSTA handling system is to receive coils on empty hooks in the conveyor system coming from the loader and transport them to different working stations. The handling system is completely automatic, but different parts in the system can be operated manually.
**A TYPICAL FUNCTION DESCRIPTION**

**Coils.** Coils are placed onto the C-hook by means of a stripper car at the reform station.

**Elevator.** The C-hook can be moved up or down (depending on the mill layout) between the main level of the hook conveyor system type SUNDCO-H and the stripper car.

**Hook Conveyor Line.** The hook conveyor, with belt operated wheel sections, is tailor made to suit the mill layout requirements as; capacity, number of working stations, coil weight, required buffer zone and type of unloading station.

**Trimming Station.** The station is designed to give an operator full access to both ends of the coils.

**Coil Compactor, PCH.** The Coil Compactor type PCH is available in various sizes depending on the coil size. The Compactor can be equipped with either wire binding heads or strapping units.

**Weighing Station and Tag Marking.** Weighing and tag marking are designed to follow the customer’s demand.

**Unloading Station.** The unloading station is designed as an intermediate coil storage.

**Electrical Control System – Tracking.** The complete handling system from loading of an uncompacted coil up to unloading of compacted and tied/strapped coils is fully automatic PLC controlled.

**Hydraulic System.** Where necessary, the movements are hydraulic operated with oil supply from a SUND BIRSTA central power unit.

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**A TYPICAL FUNCTION DESCRIPTION**

**Reform Station.** Coils are received onto the pallets by means of an easy down system.

**Pallet Conveyor Line.** The pallet line is designed to accommodate the mill layout as; capacity, number of working stations, coil weight and buffer demand.

**Trimming Station.** Trimming of coil top and bottom rings is also possible in the vertical system.

**Coil Compactor, PCV.** The Coil Compactor is designed to accommodate a variety of coil heights. The Compactor can be equipped with either wire binding or strapping units.

**Weighing Station and Tag Marking.** The same concept for the vertical system as described for the horizontal system.

**Unloading Station.** Various types of unloading stations are available; Storing Rack, Walking Beam and Walking Car.

**Electrical Control System – Tracking.** As described in the horizontal the complete system is PLC controlled. Tracking of the coils is based on hook identification readers interconnected to mill computer system.

**Hydraulic System.** Where necessary, the movements are hydraulic operated with oil supply from a SUND BIRSTA central power unit.

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**A TYPICAL FUNCTION DESCRIPTION**

**Reform Station with coil distributor.** Coils are received onto the pallets by means of an easy down system.

**Pallet Conveyor Line.** The pallet line is designed to accommodate the mill layout as; capacity, number of working stations, coil weight and buffer demand.

**Transfer Station.** The pallet with coil is tilted to a horizontal position and the coil is transferred to the hook.

**Hook Conveyor Line.** The hook conveyor, with belt operated wheel sections, is tailor made to suit the mill layout requirements as; capacity, number of working stations, coil weight, required buffer zone and type of unloading station.

**Trimming Station.** The station is designed to give an operator full access to both ends of the coils.

**Coil Compactor, PCH.** The Coil Compactor type PCH is available in various sizes depending on the coil size. The Compactor can be equipped with either wire binding heads or strapping units.

**Weighing Station and Tag Marking.** The same concept for the vertical system as described for the horizontal system.

**Unloading Station.** The unloading station is designed as an intermediate coil storage. Choice between 4-8 coils storing.

**Electrical Control System – Tracking.** As described in the horizontal the complete system is PLC controlled. Tracking of the coils is based on hook identification readers interconnected to mill computer system.

**Hydraulic System.** Where necessary, the movements are hydraulic operated with oil supply from a SUND BIRSTA central power unit.