Scania's modular system

Scania's extensive modular system makes it possible to optimally adapt chassis for different uses.

Each Scania chassis is uniquely specified to give the finished vehicle the best possible properties in the following areas:

- Strength
- Comfort
- Driving characteristics
- Load handling

For this to be possible, the chassis specification must harmonize with the following:

- Intended bodywork
- Planned operating conditions
- Type of transport

Furthermore, all customization and assembly of the chassis, bodywork and other equipment must be done properly following the Scania bodywork instructions.
Model designation

Complete vehicle

Scania's model designation is a character combination compiled as in the following example.

![Diagram of model designation]

Truck model

The models of the Scania truck program are designated with Cab type and Power code (R 580 in the example above).

Cab type

P Low forward-control cab
G Medium forward-control cab
R High forward-control cab
T Bonneted cab
Chassis information and model designations

**Power code**
The power code is an approximation of the power rating in hp net.

**Type of transport**
The chassis are divided into 3 different classes (L, D, C) depending on the type of transport for which the vehicle is adapted.

L Long-distance haulage often takes several work shifts to perform. The distances are long and include both domestic and international transportation. Load handling is often done at the start and end station.
**Chassis information and model designations**

**Model designation**

D  Distribution transport means that the driver performs one or more assignments during the same work shift. The distances are short, mostly travelling through densely populated areas. A large percentage of the work shift is made up of load handling. The driver enters and exits the cab several times a day.

C  Construction transports entail varying assignments, such as distribution of construction material within and between densely populated areas and large construction projects. The load is often only transported in one direction. It is common for load handling to be done with the help of a power take-off, such as a crane or cement mixer.
Chassis adaptation

The following codes differentiate chassis adaptations:

A  Chassis factory-adapted for tractor (Articulated)
B  Chassis factory-adapted for truck bodywork (Basic)
Wheel configuration

The first part of the wheel configuration (e.g. 4x2) indicates the number of bearing wheels and the number of driving wheels. The wheels of the front axle (or axles) are always steerable.

/ Indicates that the vehicle is equipped with a tag axle in front of the first driving rear axle
* Indicates that the vehicle is equipped with a tag axle behind the last driving axle

If the symbol for tag axle location is used, it is followed by the number of steering wheels.

E.g. 8x2*6: 8 bearing wheels, 2 driving wheels, tag axle behind the last driving axle and 6 steering wheels.

4x2

6x2

6x2/2

6x2/4

6x2*4
Chassis information and model designations

Model designation

6x4

8x4

8x2/4

6x6

8x2

8x2*6

4x4

8x4*4

305 184

305 185

305 186

305 187

305 188

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305 190

305 191
Duty class

The driving conditions are different for the different types of transport - Long-distance haulage, Distribution and Construction. That is why Scania has chosen to optimise chassis components for different transport types and road surfaces.

By selecting the right operation type, the customer gets a vehicle that has optimal strength, the right weight and is designed for its specific operating conditions.

Scania has defined 3 different duty classes:

- M Medium - transport on surfaced and well maintained roads.
- H Heavy duty - transports on poorly maintained surfaced roads or well maintained unsurfaced roads.
- E Extra heavy duty - transport off-road or on poorly maintained unsurfaced roads.

Chassis height

The chassis height value indicates relative chassis height, based on the distance from the upper edge of the chassis frame to the centre of the rear driving axle and the distance from the upper edge of the chassis frame to the centre of the front axle.

- E Extra low
- L Low
- N Normal
- S Semi high
- H High

Suspension

- A Leaf-spring suspension front and air suspension rear
- B Air suspension front and rear
- Z Leaf-spring suspension front and rear
Chassis information and model designations

Cab

In type designations, "cab" denotes the part of the cab sprung from the chassis.

A complete type designation for truck cabs is arranged as follows:

<table>
<thead>
<tr>
<th>Cab type</th>
<th>Cab length</th>
<th>Roof height</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR19T</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cab type**

The cabs are divided into different classes based on the height of the floor relative to the chassis frame.

- **C** Cab
- **CP** Low forward-control cab
- **CG** Medium forward-control cab
- **CR** High forward-control cab
- **CT** Bonneted cab\(^a\)

\(^a\) The bonneted cab has been discontinued from the Scania range and can no longer be ordered.
### Cab length
Cab length is the interior distance (dm) between the front and the rear walls, at floor level in the driver area.

<table>
<thead>
<tr>
<th>Cab Length</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Short cab</td>
</tr>
<tr>
<td>16</td>
<td>Day cab</td>
</tr>
<tr>
<td>19</td>
<td>Sleeper cab</td>
</tr>
<tr>
<td>28</td>
<td>Crew cab for 5-6 persons</td>
</tr>
<tr>
<td>31</td>
<td>Long crew cab for 6-8 persons</td>
</tr>
<tr>
<td>32</td>
<td>Extended sleeper cab</td>
</tr>
</tbody>
</table>

### Roof height

<table>
<thead>
<tr>
<th>Roof Height</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Normal</td>
</tr>
<tr>
<td>L</td>
<td>Low</td>
</tr>
<tr>
<td>E</td>
<td>Low boarding step, normal roof height</td>
</tr>
<tr>
<td>H</td>
<td>High</td>
</tr>
<tr>
<td>T</td>
<td>Full height</td>
</tr>
</tbody>
</table>

### Use of designation system

Common market names:

- CP19E: *Low entry*
- CP28: *Scania CrewCab*
- CP31: *Long Scania CrewCab*
- CR19H: *Scania Highline*
- CR19T: *Scania Topline*
Cab configurations

- Standard cab in 3 lengths
- Standard cab in 4 roof heights
- Cab with low boarding step
- Crew cab in 2 lengths