

## How to apply multiple train sets

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This document is entitled to present how to apply the multiple train sets. PCS has a new development, a built-in, an improved calculation method. The system can automatically calculate the weight and length parameters of the train after entering the locomotive type number. Please note that the train max. speed is excluded from the calculation.

In the below examples see some use cases that describes how to apply it correctly:

### **Use case 1 – no wagons or carriages**

This use case is relevant in the case of the Passenger train, which are using multiple-units or train sets.

1. Enter Loco type number
2. Weight carriages set to "0"
3. Length carriages set to "0"

**TRACTION DETAILS**

Loco type number	<input type="text" value="5406"/>	✓	Traction mode	<input type="text" value="Train traction"/>	✓	<input type="button" value="x"/>
Train cc system	<input type="text" value="0"/>	✓	1st traction unit in...	<input type="text" value="1st traction unit in..."/>	✓	
Traction weight	<input type="text" value="462"/>		Train radio system	<input type="text" value=""/>		
Traction max speed	<input type="text" value="300"/>		Traction length	<input type="text" value="200"/>		
Loco type number	<input type="text" value="5406"/>	✓	Traction mode	<input type="text" value="Train traction"/>	✓	<input type="button" value="x"/>
Train cc system	<input type="text" value="0"/>	✓	2nd traction unit i...	<input type="text" value="2nd traction unit i..."/>	✓	
Traction weight	<input type="text" value="462"/>		Train radio system	<input type="text" value=""/>		
Traction max speed	<input type="text" value="300"/>		Traction length	<input type="text" value="200"/>		

Train weight	<input type="text" value="924"/>	✓	Weight carriages set	<input type="text" value="0"/>	✓
Train length	<input type="text" value="400"/>	✓	Length carriages set	<input type="text" value="0"/>	✓

*Annotations: Red arrows point from the two '462' weight fields to the '924' field with the equation  $462 + 462 = 924$ . Blue arrows point from the two '200' length fields to the '400' field with the equation  $200 + 200 = 400$ . A blue '+' button is located between the two traction unit sections.*

## Use case 2 – enter the weight/length carriages set

This use case is more relevant for Cargo trains or when the Planners have to enter weight/length carriages set values.

When you enter the locomotive type number to add more traction units, the calculation method updates the max Train Weight/Length fields. Here the calculation works automatically. But once when you need to enter the Weight/Length set of carriages then you must press the “Reset pre-calculation” button to get the exact value of all fields, otherwise the max. the Train Weight / Length fields are NOT updated with the new values if you save your work!

**TRACTION DETAILS**

Loco type number	5406	Traction mode	Train traction
Train cc system	0	1st traction unit in...	1st traction unit in...
Traction weight	462	Train radio system	
Traction max speed	300	Traction length	200
Loco type number	5406	Traction mode	Train traction
Train cc system	0	2nd traction unit i...	2nd traction unit i...
Traction weight	462	Train radio system	
Traction max speed	300	Traction length	200




$462 + 462 = 924$   
 $200 + 200 = 400$   
 $924 + 900 = 1824$   
 $400 + 300 = 700$

Train weight: 1824 ✓  
 Train length: 700 ✓

Weight carriages set: 900 ✓  
 Length carriages set: 300 ✓

Reset pre-calculation

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