# CMS DT Type Naming

List of **DT Type Names**Shown

on a Drawing of the Wheel

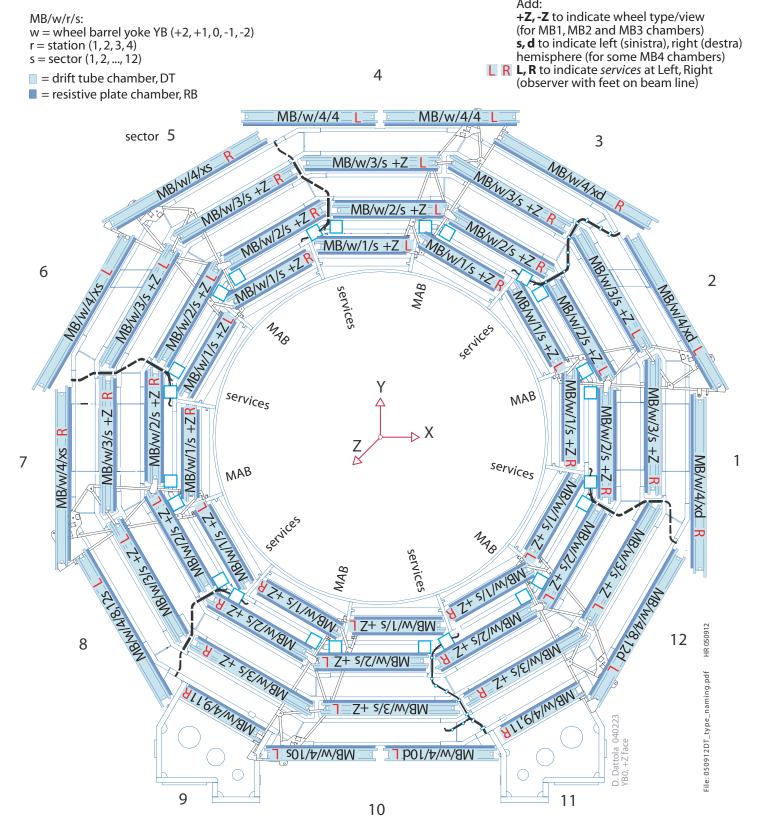
(for Each Wheel)

and a Schematic Drawing
Showing an
Overview of Services
(Orientation, Location of Services, etc.)

H. Reithler Status 050912

# CMS DT Type Naming for +Z View: YB+2



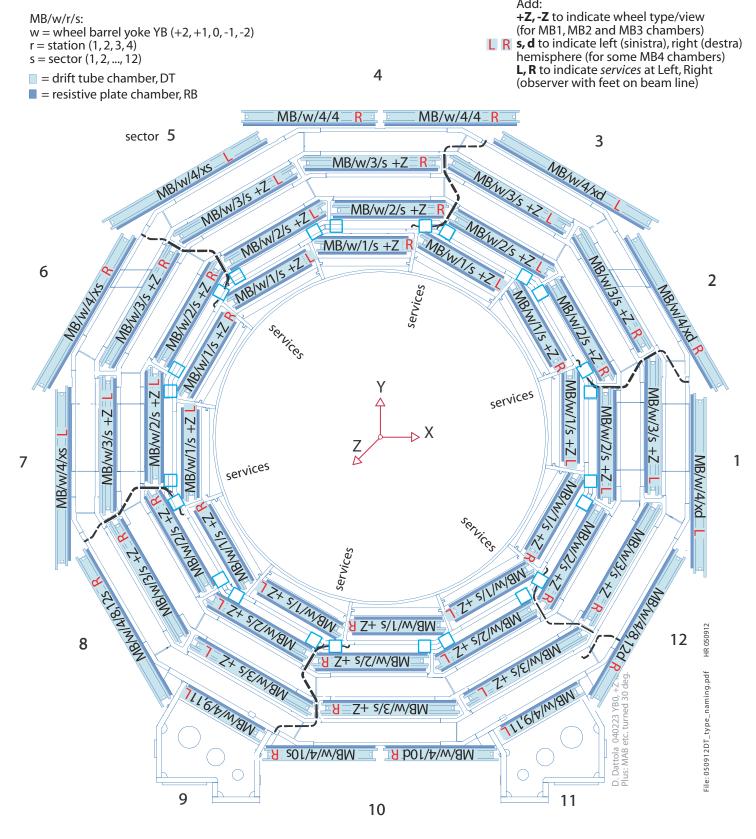


Naming of CMS DT chamber type: The convention is to look at the FrontEnd side of the chambers, having the feet on the beam axis and to name the chamber TYPE according to its construction. Services (HV, gas, cooling) add an asymmetry to the chambers, and to reflect whether services are at the left or right side the (reserved) letters L or R are added to the name.

Some chambers are of same type on all wheels: MB/4/4, MB/4/9,11.

# CMS DT Type Naming for +Z View: YB+1



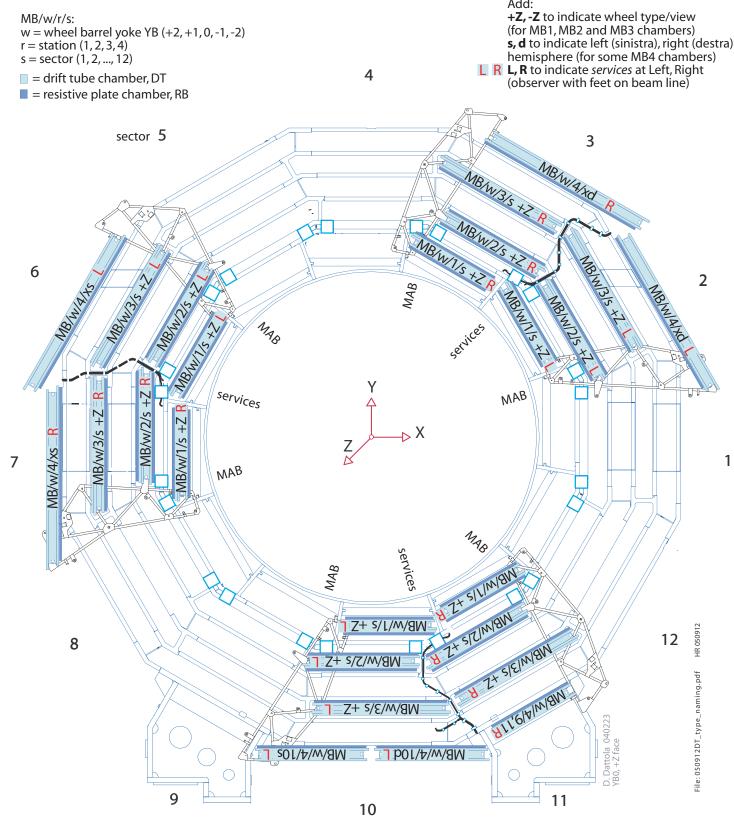


Naming of CMS DT chamber type: The convention is to look at the FrontEnd side of the chambers, having the feet on the beam axis and to name the chamber TYPE according to its construction. Services (HV, gas, cooling) add an asymmetry to the chambers, and to reflect whether services are at the left or right side the (reserved) letters L or R are added to the name.

Some chambers are of same type on all wheels: MB/4/4, MB/4/9,11.

# CMS DT Type Naming for +Z View: YB+0



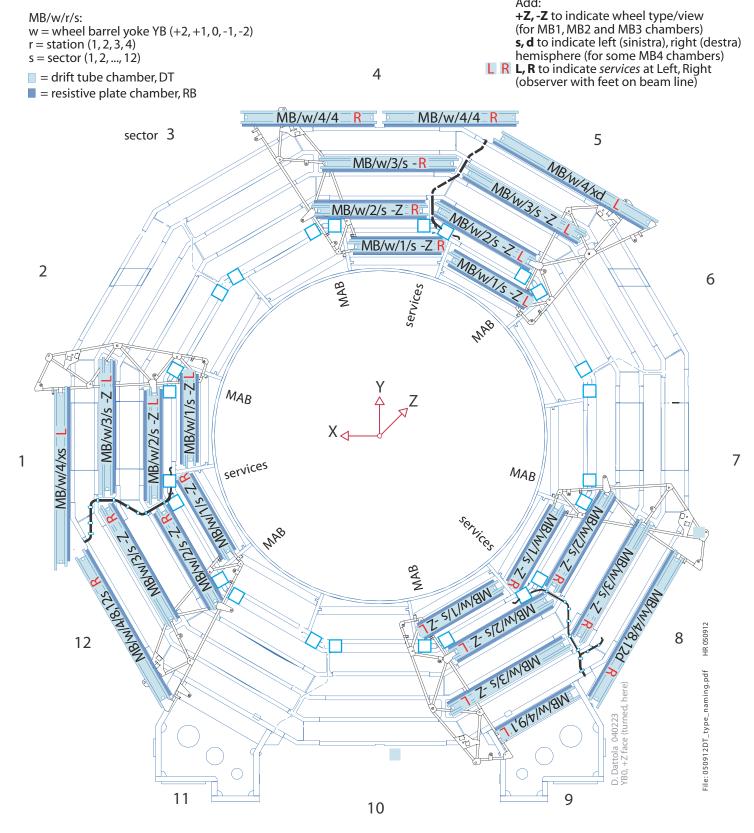


Naming of CMS DT chamber type: The convention is to look at the FrontEnd side of the chambers, having the feet on the beam axis and to name the chamber TYPE according to its construction. Services (HV, gas, cooling) add an asymmetry to the chambers, and to reflect whether services are at the left or right side the (reserved) letters L or R are added to the name.

Some chambers are of same type on all wheels: MB/4/4, MB/4/9,11.

# CMS DT Type Naming for -Z View: YB-0

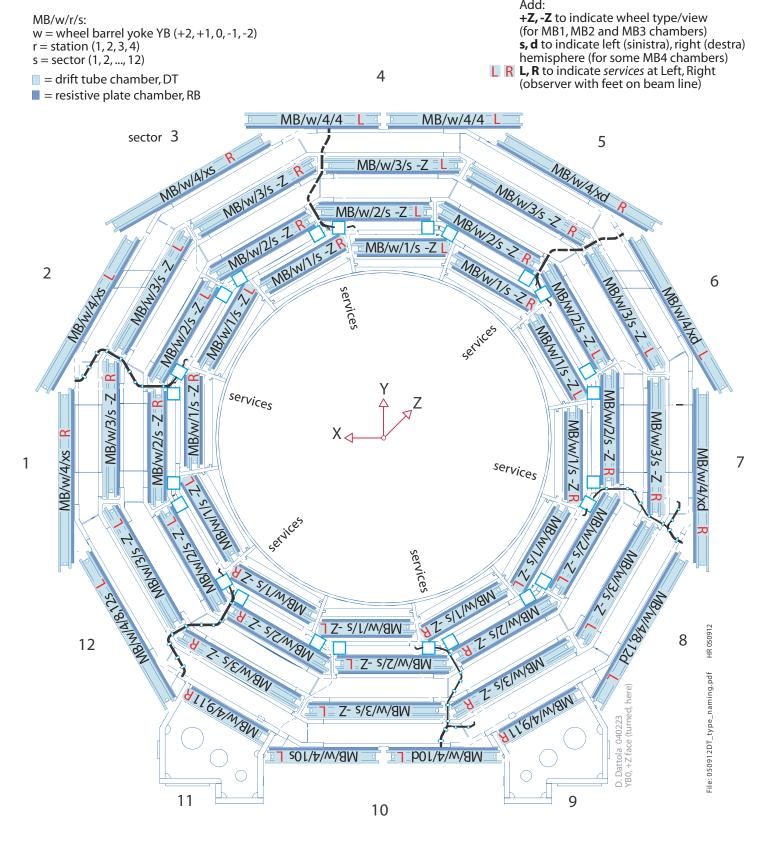




Naming of CMS DT chamber type: The convention is to look at the FrontEnd side of the chambers, having the feet on the beam axis and to name the chamber TYPE according to its construction. Services (HV, gas, cooling) add an asymmetry to the chambers, and to reflect whether services are at the left or right side the (reserved) letters L or R are added to the name. Some chambers are of same type on all wheels: MB/4/4, MB/4/9,11.

# CMS DT Type Naming for -Z View: YB-1



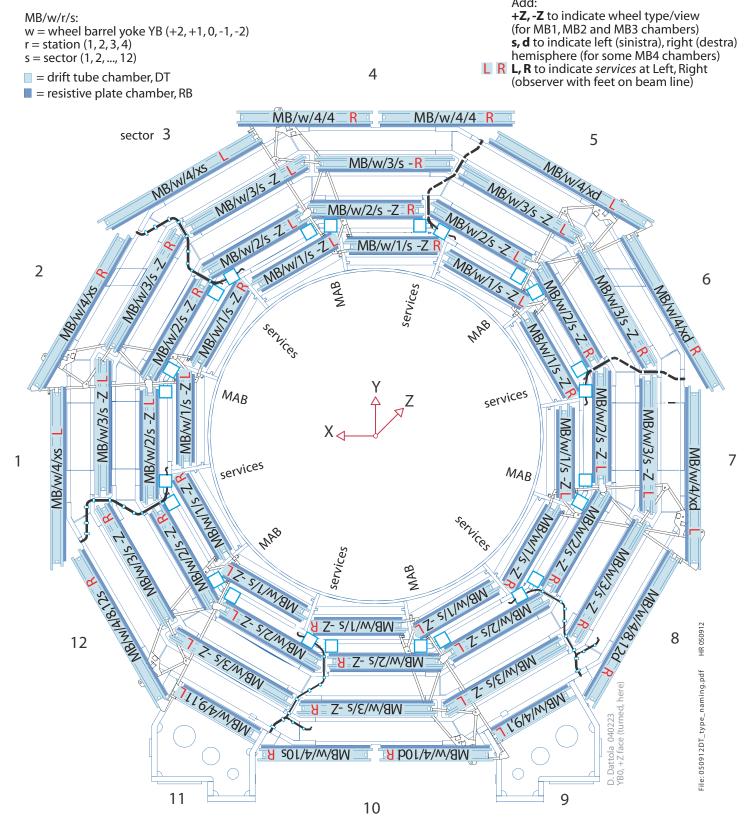


Naming of CMS DT chamber type: The convention is to look at the FrontEnd side of the chambers, having the feet on the beam axis and to name the chamber TYPE according to its construction. Services (HV, gas, cooling) add an asymmetry to the chambers, and to reflect whether services are at the left or right side the (reserved) letters L or R are added to the name.

Some chambers are of same type on all wheels: MB/4/4, MB/4/9,11.

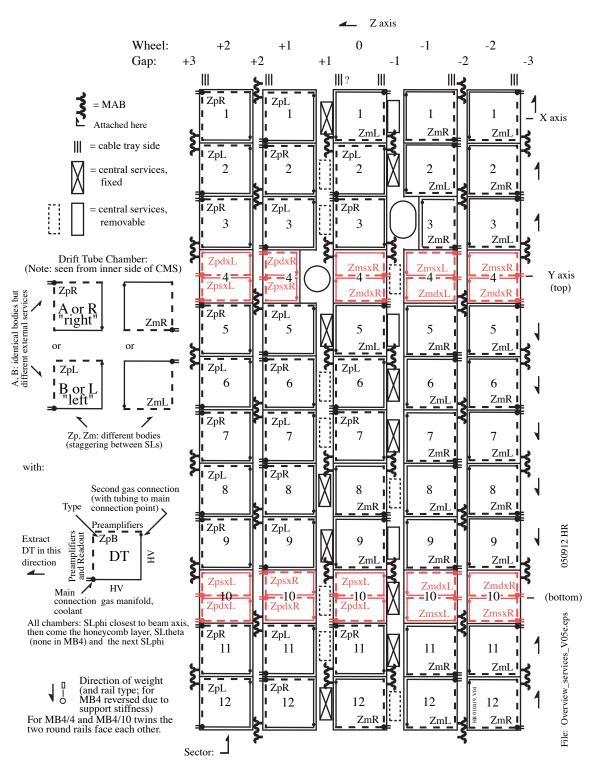
# CMS DT Type Naming for -Z View: YB-2





Naming of CMS DT chamber type: The convention is to look at the FrontEnd side of the chambers, having the feet on the beam axis and to name the chamber TYPE according to its construction. Services (HV, gas, cooling) add an asymmetry to the chambers, and to reflect whether services are at the left or right side the (reserved) letters L or R are added to the name.

Some chambers are of same type on all wheels: MB/4/4, MB/4/9,11.



Installation of CMS Barrel Muon Chambers. Sectors as seen from inside. Sectors 4 and 10 have the chambers subdivided in two, as shown here in red, only at station MB4. The difference between R (or A; right) and L (or B; left) types is the location of gas, coolant, HV and LV external connection; the bodies are identical. The staggering between the SuperLayers is, however, different between the Zp and Zm types for MB1, MB2 and MB3 chambers (have to extract the chambers in opposite directions in Z+ and Z- wheels, but the wheels have all the same orientation and are made left-right asymmetric to ensure an hermetic coverage in azimuth). For MB4 chambers the distinction of chambers types is related to the hemisphere (wrt a vertical line) and is indicated by d (destra=right) and s (sinistra=left). The cable and piping trays along the periphery of the wheel are close to the face with the main connections; on the central wheel the Barrel Muon gas and cooling piping is on the Zm side. The "bottom" side of a chamber has one, the "top" side has two SuperLayers (SL) attached to the honeycomb structure (not applicable to MB4 chambers, which have only two SLs).