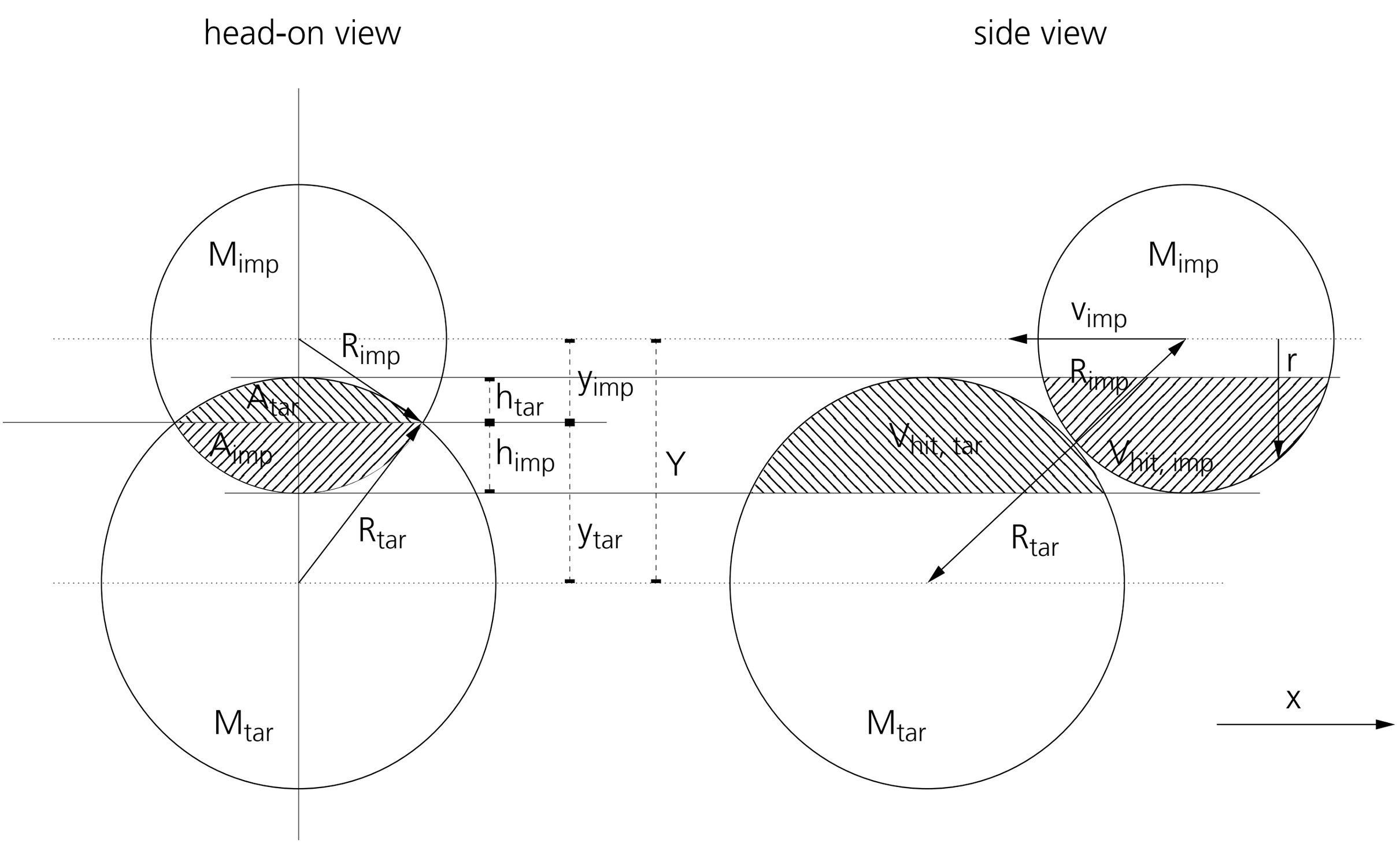
head-on view
side view
M_{imp}
R_{imp}
A_{tar}
A_{imp}
h_{tar}
h_{imp}
y_{imp}
y_{tar}
Y
R_{tar}
M_{tar}
M_{imp}
v_{imp}
R_{imp}
r
$V_{hit, tar}$
$V_{hit, imp}$
R_{tar}
M_{tar}
x