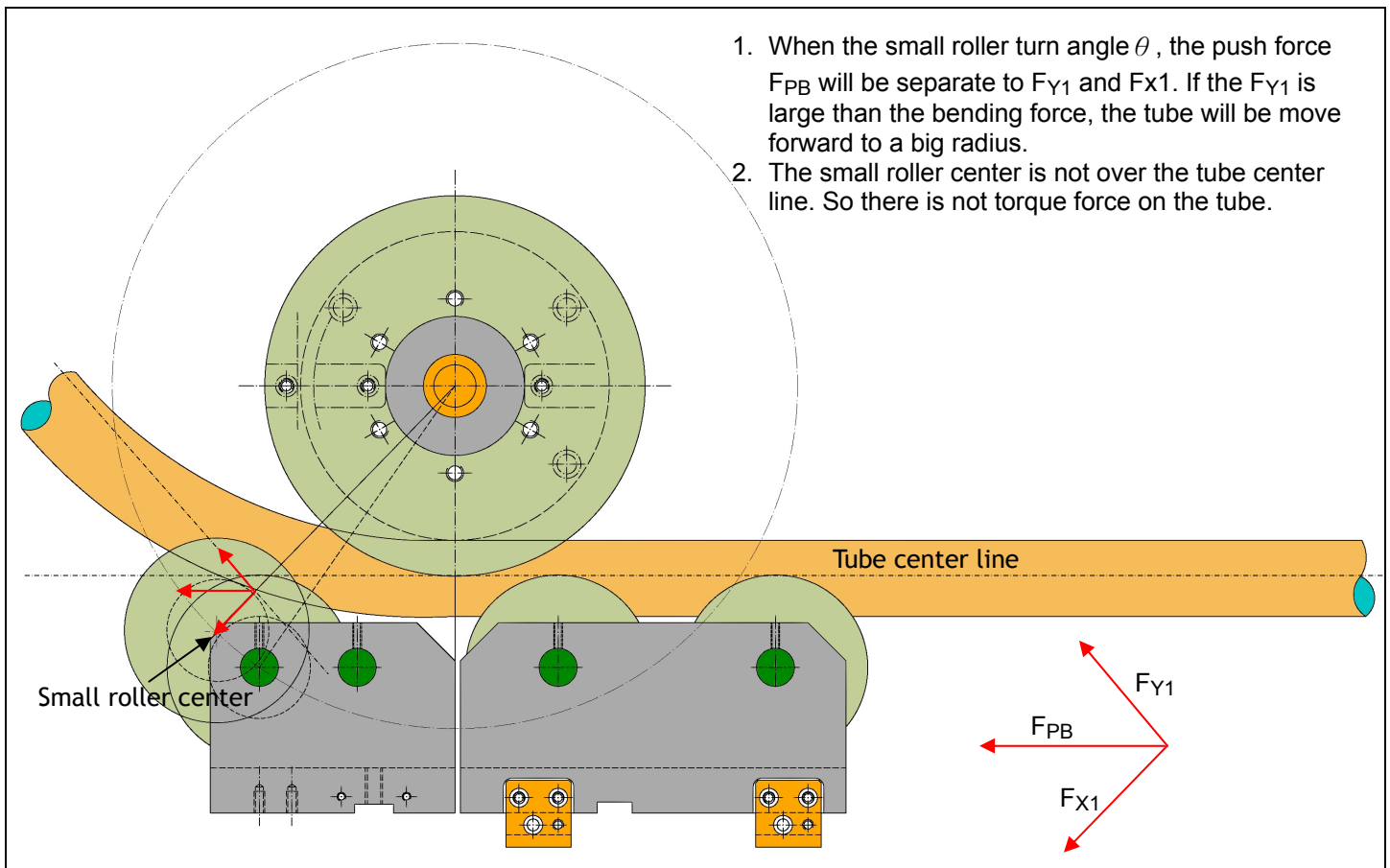
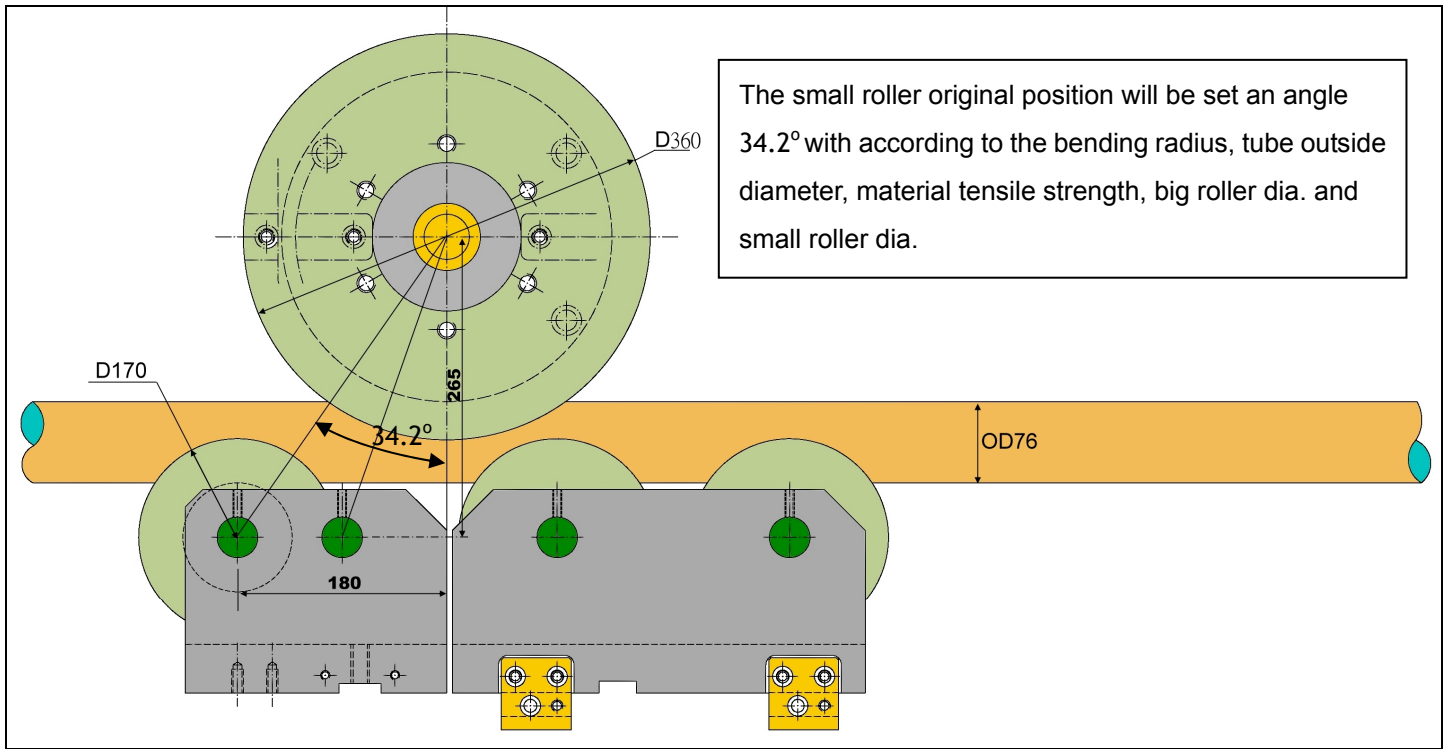
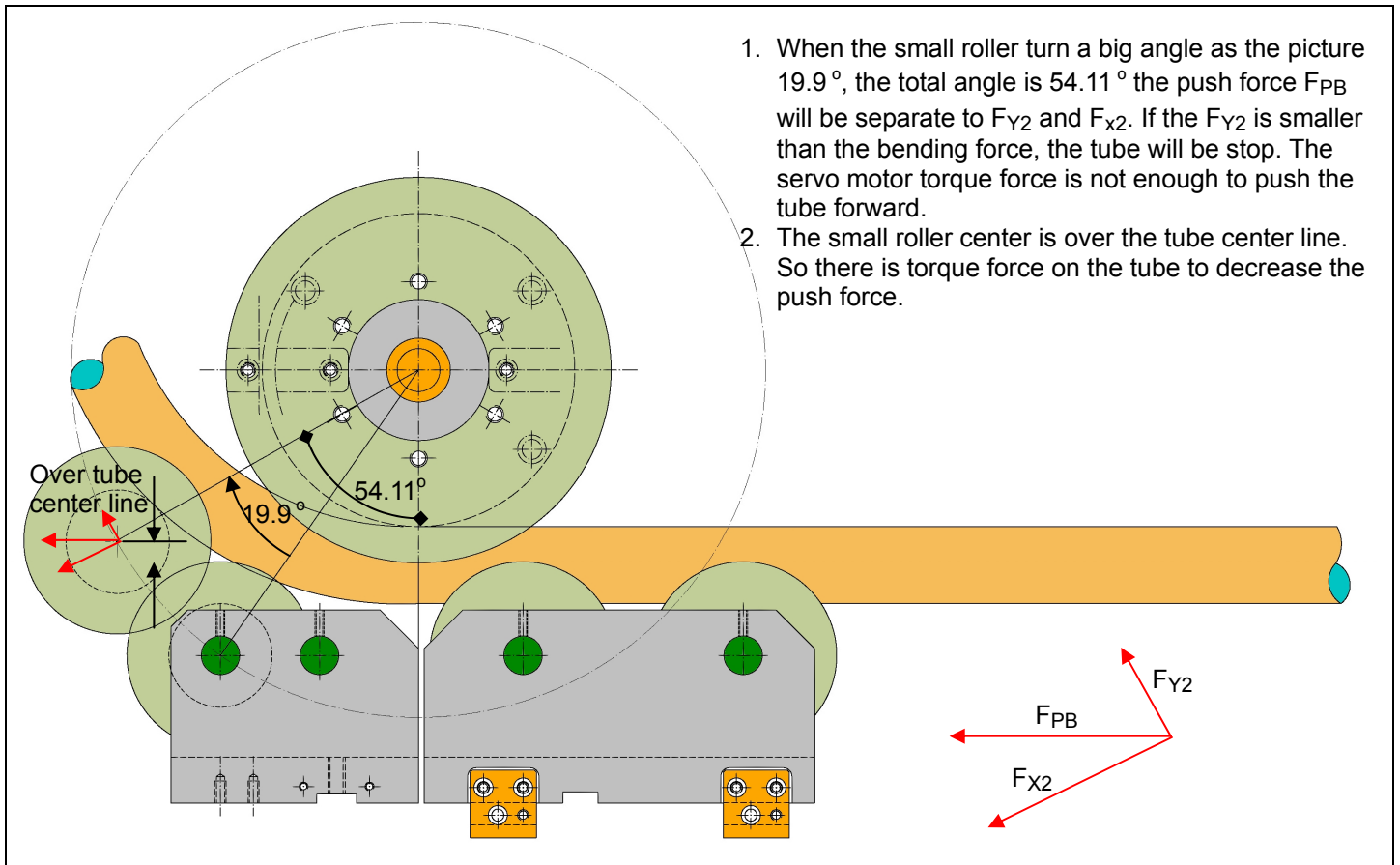


Roll bending principle

Example: OD76 in CNC130 with roll bending function application





Formula for calculate the tube total length in push bending function application

$L_t = L_f + S + L_r$

$S = \theta / 360^\circ \times 2\pi R$

$L_f = 2 \times OD$

Lt: tube total length

Lf: the length from the front tube end

S: the arc length of center line

Lr: the length from the rear tube end

θ : Bending angle

Example:

Tube OD=65 mm

R = 500 mm

$\theta = 90^\circ$

Lr = 200 mm (inner jaw)

Lr = 265 mm (external jaw)

$L_t = 135 + 785.4 + 200 = 1120.4$ (with inner jaw)

$L_t = 135 + 785.4 + 265 = 1185.4$ (with outer jaw)

