

# ANALISIS KOLOM M BETON BERTULANG

DENGAN DIAGRAM INTERAKSI

KODE KOLOM

K2

## INPUT DATA KOLOM

Kuat tekan beton,	$f'_c =$	20	MPa
Tegangan leleh baja,	$f_y =$	390	MPa
Lebar kolom,	$b =$	250	mm
Tinggi kolom,	$h =$	250	mm
Tebal brutto selimut beton,	$d_s =$	40	mm
Jumlah tulangan,	$n =$	4	buah
Diameter tulangan,	$D =$	19	mm

## PERHITUNGAN DIAGRAM INTERAKSI

Modulus elastis baja,	$E_s =$	2.E+05	MPa
$\beta_1 = 0,85$	untuk $f'_c \leq 30$ MPa		
$\beta_1 = 0,85 - 0,008 (f'_c - 30)$	untuk $f'_c > 30$ MPa		
Faktor distribusi tegangan,	$\beta_1 =$	0,85	
Luas tulangan total,	$A_s = n \cdot \pi / 4 \cdot D^2 =$	1134	mm <sup>2</sup>
Jarak antara tulangan,	$x = h - 2 \cdot d_s =$	170,00	mm
Rasio tulangan,	$\rho = A_s / A_g =$	1,81%	

## Faktor reduksi kekuatan,

$\phi = 0,65$ untuk $P_u \geq 0,1 \cdot f'_c \cdot b \cdot h$	Untuk : $0 \leq P_u$
$\phi = 0,80$ untuk $P_u = 0$	$\phi = 0,65 + 0,15 \cdot (P_{u0} - P_u) / P_{u0}$

No	Luas masing-masing tulangan	Jarak tulangan thd.
1	$A_{s1} = 2/4 \cdot A_s = 567$ mm <sup>2</sup>	$d_1 = x + d_s =$
2	$A_{s2} = 2/4 \cdot A_s = 567$ mm <sup>2</sup>	$d_2 = d_s =$
	$A_g = 1134$ mm <sup>2</sup>	

Pada kondisi tekan aksial sentris ( $M_{u0} = 0$ ) :

$$P_{u0} = 0,80 \cdot [0,85 \cdot f'_c \cdot b \cdot h + A_s \cdot (f_y - 0,85 \cdot f'_c)] \cdot 10^{-3} = 1188 \text{ kN}$$

Pada kondisi balance :

$$0,1 \cdot f'_c \cdot b \cdot h \cdot 10^{-3} = 125 \text{ kN}$$

$$c = c_b = 600 / (600 + f_y) \cdot d_1 = 127,3 \text{ mm}$$

Pada kondisi garis netral terletak pada jarak c dari sisi beton tekan t

Regangan pada masing-masing baja tulangan :  $\epsilon_{si} = 0,003 \cdot (c - d_i) / c$

Tegangan pada masing-masing baja tulangan :

Untuk  $|\epsilon_{si}|$  maka  $f_{si} = \epsilon_{si} \cdot E_s$

Untuk  $|\epsilon_{si}|$  maka  $f_{si} = |\epsilon_{si}| / \epsilon_{si} \cdot f_y$

$$\text{Jumlah interval jarak grs netral} = 112 \rightarrow \Delta c = 2,2321$$

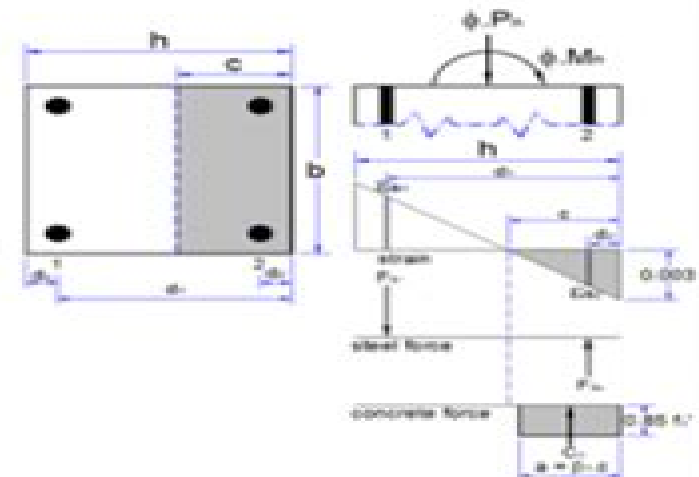
## URAIAN PERHITUNGAN

Gaya-gaya internal pada masing-masing baja tulangan :

Resultan gaya internal baja tulangan :

Momen akibat gaya internal masing-masing baja tulangan :

K10 K8 K7 K6 K5 K4 K3



## PERSAMAAN

$$F_{si} = A_{si} \cdot f_{si} \cdot 10^{-3}$$

C

M



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# Perhitungan Diagram Interaksi Kolom Beton Bertulang

**Abdul Rochman**



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