

## HE-2-75/90 (YAW)

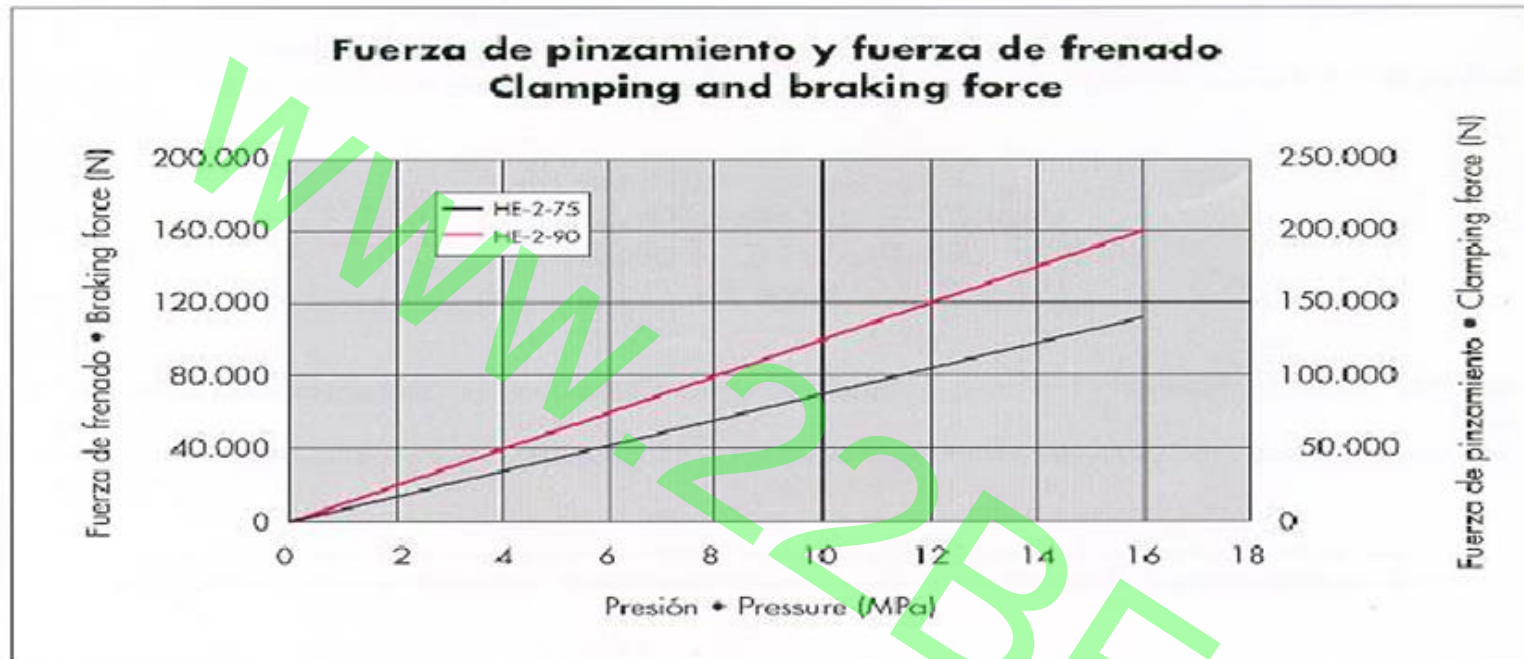


	HE-2-75	HE-2-90
Clamping force	Cf = 141 KN	Cf = 203 KN
Braking force	Bf = 113 KN	Bf = 160 KN
Maximum pressure	P=160 bar	
Piston diameter	75 mm	90 mm
Piston area	44,2 cm <sup>2</sup>	63,6 cm <sup>2</sup>
Lining dimension	219 x 110	
Lining material	RP-01	
Considered friction coef.	0,4	
Pad thickness	18 mm	
Lining material thickness	8 mm	
Maximum pad wear	6 mm	
Pad wear indicator	Optional	
Retraction springs	No	
End-stops	Optional	
Weight	75 Kg	
Temperature Range*	-20°C to 70°C	

\*For lower temperatures please contact us

- Active brake
- Hydraulic applied





● Braking Torque (Nm)

- Brake installed towards disc centre

$$Torque_{Brake} = n \cdot 2 \cdot \mu \cdot 2 \cdot P \cdot 10 \cdot A \cdot \left( \frac{\varnothing_{Ext} - 0.1}{2} \right)$$

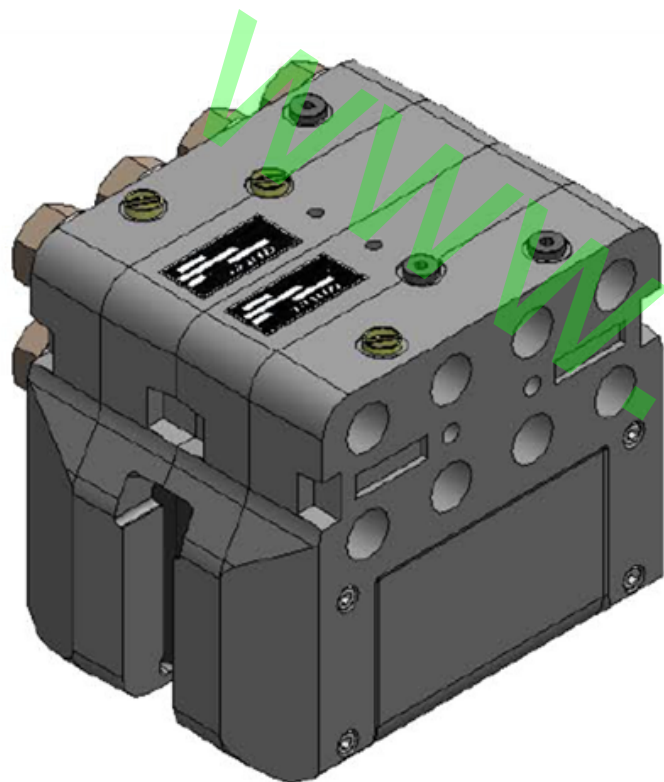
- Brake installed outwards disc centre

$$Torque_{Brake} = n \cdot 2 \cdot \mu \cdot 2 \cdot P \cdot 10 \cdot A \cdot \left( \frac{\varnothing_{Ext} + 0.1}{2} \right)$$

n= Number of brakes  
 μ=0.4 (\*)  
 P= Pressure (bar)  
 A= Piston area (1 Piston) (cm²)  
 Ø= Diameter (m)

(\*) The friction coefficient depends on different factors such as disc material, speed, temperature, application and may vary between 0.25 and 0.5

## HE-2-90 (ROTOR)

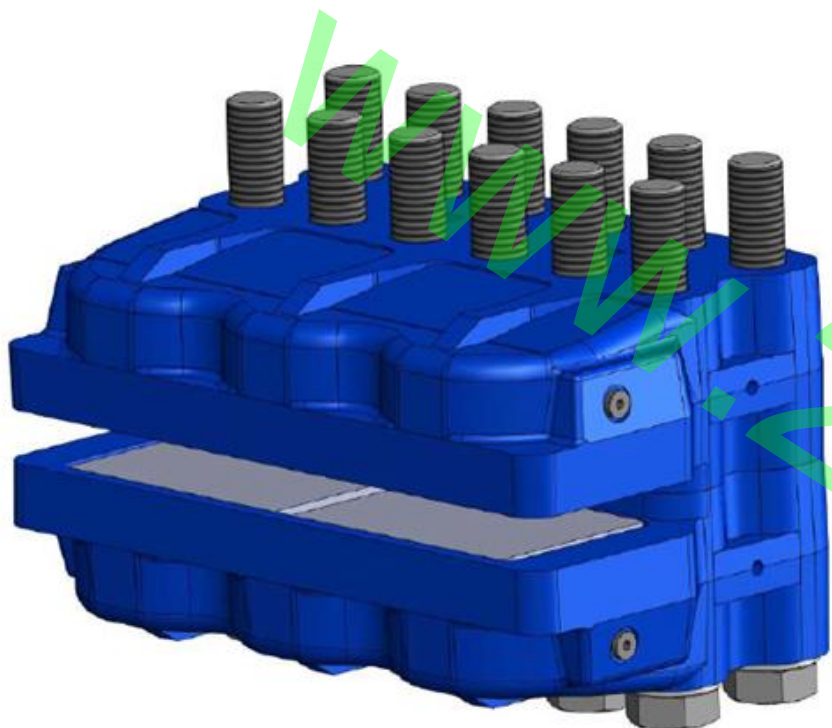


- Active brake
- Hydraulically applied

	HE-2-90/37
Clamping force	Cf=200 KN
Braking force	Bf=160 KN
Maximum pressure	P=160 bar
Piston diameter	90 mm
Piston area	63,6 cm <sup>2</sup>
Lining dimension	219 x 110
Lining material	Organic
Considered friction coef.	0,4
Pad thickness	18 mm
Lining material thickness	8 mm
Maximum pad wear	6 mm
Pad wear indicator	Available
Retraction springs	Available
End-stops	Available
Weight	70 Kg
Temperature Range*	-20°C to 70°C

\*For lower temperatures please contact us

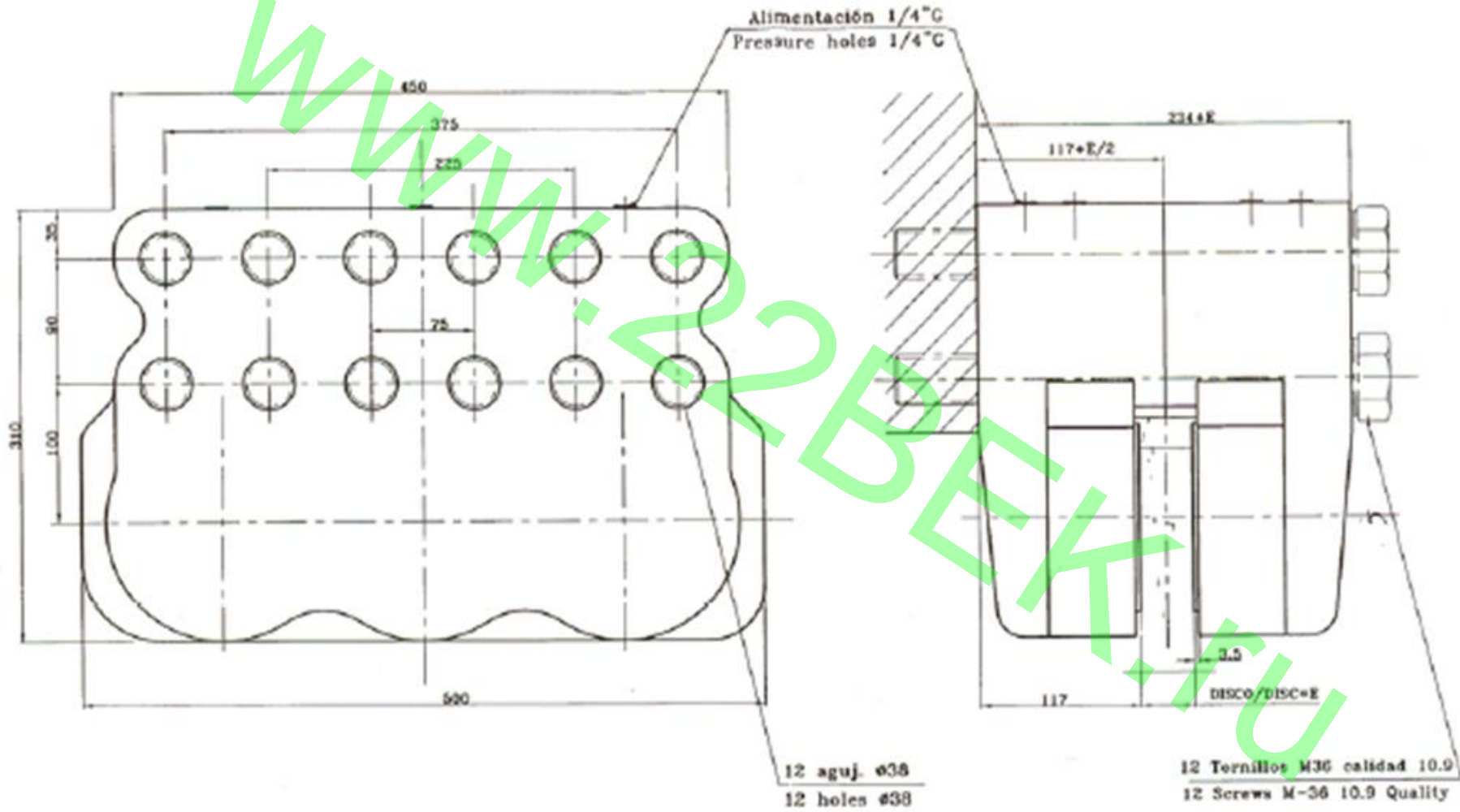
## HE-3-120 (YAW)

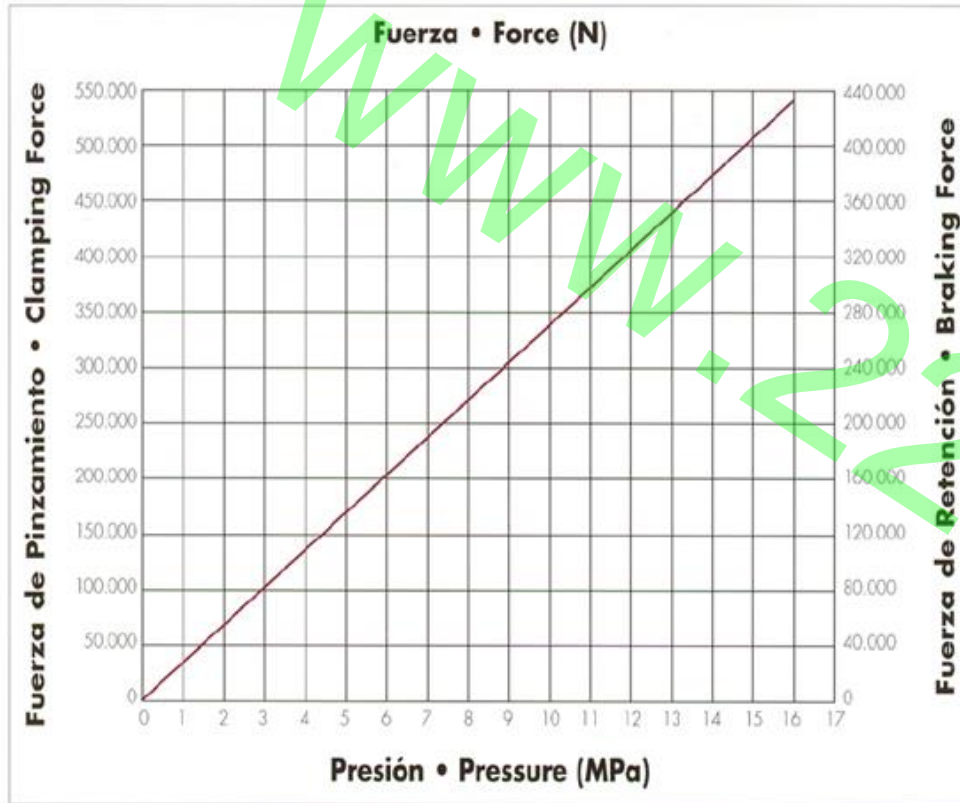


Clamping force	Cf=610 KN
Braking force	Bf=490 KN
Maximum pressure	P=180 bar
Piston diameter	120 mm
Piston area	113 cm <sup>2</sup>
Lining dimension	420 x 135
Lining material	RP 01
Considered friction coefficient	0,4
Lining thickness	20 mm
Lining material thickness	8 mm
Maximum pad wear	6 mm
Weight	190 Kg
Temperature Range*	-20°C to 70°C

\*For lower temperatures please contact us

- Active brake
- Hydraulically applied





- Braking Torque (Nm)

- Brake installed towards disc centre

$$Torque_{Brake} = n \cdot 2 \cdot \mu \cdot 3 \cdot P \cdot 10 \cdot A \cdot \left( \frac{\varnothing_{Ext} - 0.136}{2} \right)$$

- Brake installed outwards disc centre

$$Torque_{Brake} = n \cdot 2 \cdot \mu \cdot 3 \cdot P \cdot 10 \cdot A \cdot \left( \frac{\varnothing_{Ext} + 0.136}{2} \right)$$

n= Number of brakes

μ=0.4 (\*)

P= Pressure (bar)

A= Piston area (1 Piston) (cm<sup>2</sup>)

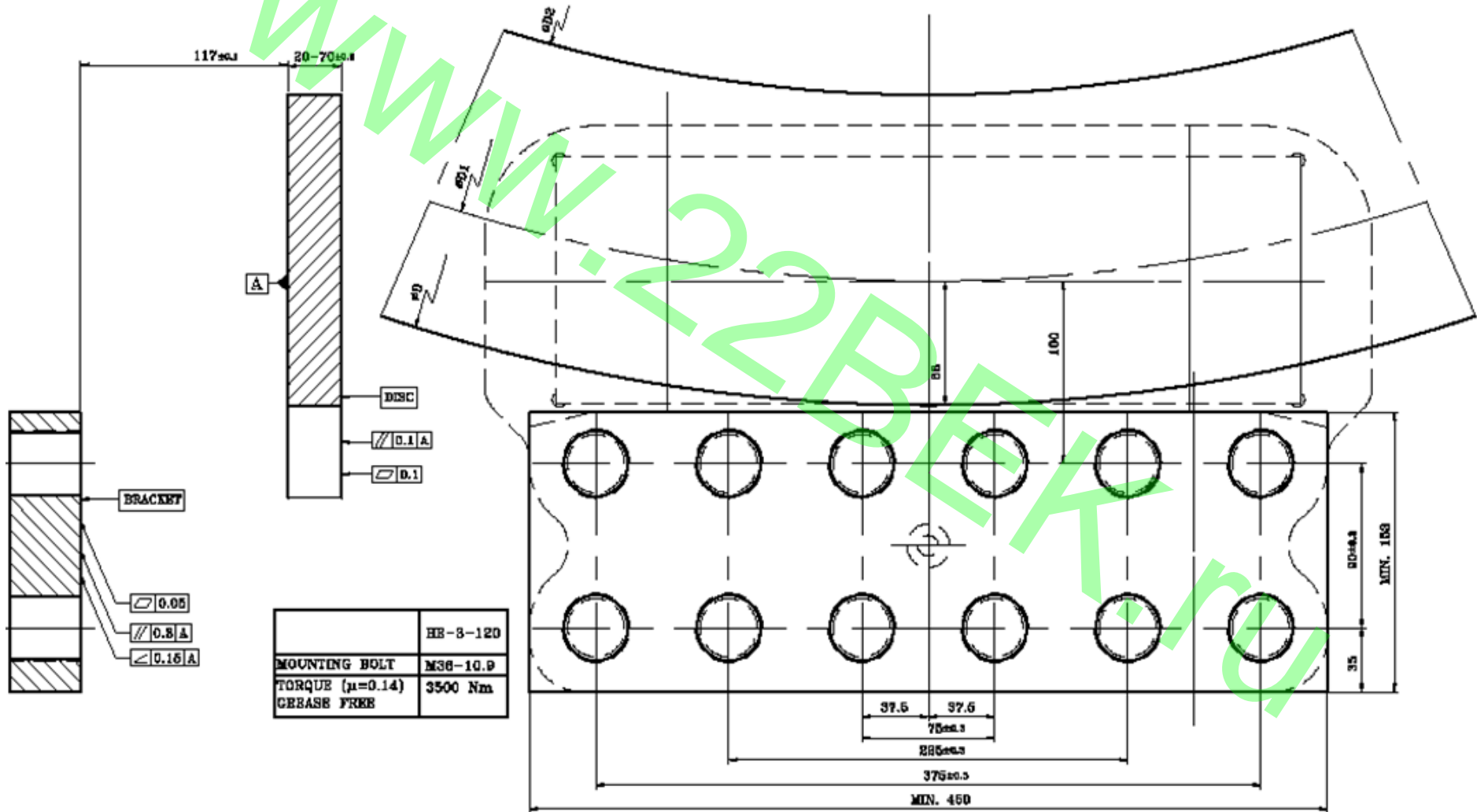
∅= Diameter (m)

(\*) The friction coefficient depends on different factors such as disc material, speed, temperature, application and may vary between 0.25 and 0.5



# HE-3-120

Brake instalation towards disc centre



# HE-3-120

Brake instalation outwards disc centre

