

# Cat<sup>®</sup> CST30

## GEARBOX

### Specifications

#### Typical Application

Chain Type Longwall Machinery like Armored Face Conveyors (AFC)

#### Maximum Output Torque (for 3 sec) $T_{max}$ [N-m]

**KP-30/P-30 CST** 300 000 N-m 221,269 lb/ft

#### Rated Power P

Ratio i [-]	Rated Power P (n = 1,485 rpm)	Rated Power P (n = 1,782 rpm)
16	500 kW	816 hp
21	500 kW	816 hp
24.4	500 kW	816 hp
28	500 kW	816 hp
33	500 kW	816 hp
39	435 kW	710 hp
50	400 kW	653 hp

#### Dimensions

KP-30 CST		
Length	2280 mm	89.8 in
Width	1180 mm	46.5 in
Height	900 mm	35.4 in
P-30 CST		
Length	1400 mm	55.1 in
Width	960 mm	37.8 in
Height	900 mm	35.4 in

#### Capacity

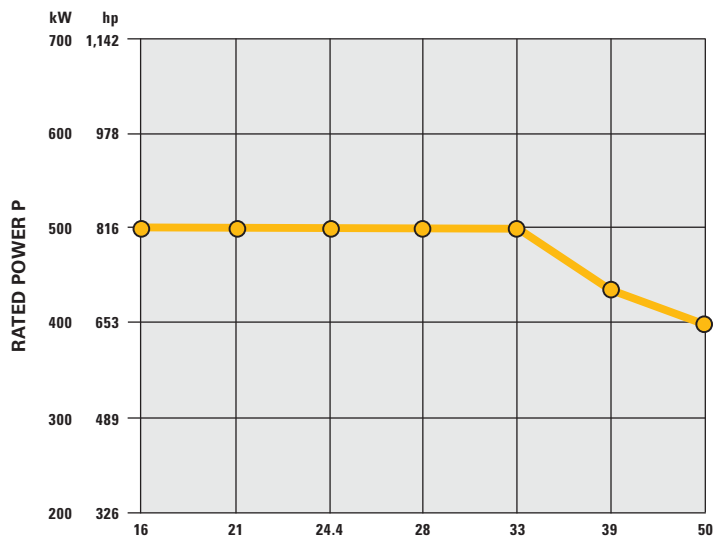
KP-30 CST		
Oil Quantity	500 L	132 gal
Gearbox Weight (without oil)	5800 kg	12,783 lb
P-30 CST		
Oil Quantity	250 L	66 gal
Gearbox Weight (without oil)	3900 kg	8,596 lb

#### Requirements of Cooling Water

Required Cooling Water	20 L/min	5.28 gal/min
Maximum Water Inlet Temperature	25° C/298.15 K	77° F/298.15 K

#### Shaft Design

Input Shaft (cylindrical)	DIN 5480-W 100×4×30×24
Output Shaft with Internal Tothing	DIN 5480-N 220×10×30×20



**GEARBOX RATIO i [-]**  
Rated Power P [hp] @ 60 Hz  
Rated Power P [kW] @ 50 Hz

# CST30 Gearbox

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