## **CST30**

Gearbox



## **TECHNICAL DATA**

## **Typical Application**

Chain Type Longwall Machinery like  $\boldsymbol{\mathsf{A}}$ rmoured  $\boldsymbol{\mathsf{F}}$ ace  $\boldsymbol{\mathsf{C}}$ onveyors (AFC)

Maximum Output Torque (for 3 sec) T <sub>max</sub> [N·m]		
KP-30/P-30 CST	300 000 N·m	221,269 lb/ft
Rated Power P		
Ratio i [–]	Rated Power P	Rated Power P
	(n = 1,485 rpm)	(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 Toothing	DIN 5480-N 220×10×30×20	
kW hp 700 1,142 600 978		
d 500 816 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
¥ 400 653	0	

300 489

200 326

16

21

24.4

28

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

33

39

50





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