



Cat[®] CST45

GEARBOX

Specifications

Typical Application

Chain Type Longwall Machinery like Armored Face Conveyors (AFC)

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

KP-45/P-45 CST 450 000 N-m 331,858 lb/ft

Rated Power P

Ratio i [-]	Rated Power P (n = 1,485 rpm)	Rated Power P (n = 1,782 rpm)
24.5	800 kW	1,305 hp
28	800 kW	1,305 hp
33	800 kW	1,305 hp
39	700 kW	1,142 hp
45	540 kW	881 hp
50	500 kW	816 hp

Dimensions

KP-45 CST		
Length	2875 mm	113.2 in
Width	1401 mm	55.2 in
Height	1060 mm	41.7 in
P-45 CST		
Length	1697 mm	66.8 in
Width	1120 mm	44.1 in
Height	1060 mm	41.7 in

Capacity

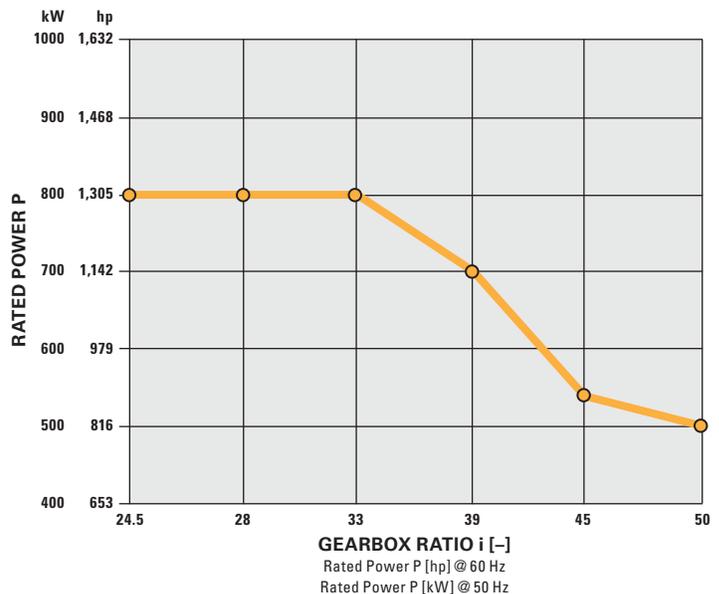
KP-45 CST		
Oil Quantity	730 L	193 gal
Gearbox Weight (without oil)	9700 kg	21,385 lb
P-45 CST		
Oil Quantity	430 L	114 gal
Gearbox Weight (without oil)	5900 kg	13,007 lb

Requirements of Cooling Water

Required Cooling Water	25 L/min	6.6 gal/min
Maximum Water Inlet Temperature	25° C/298,15 K	77° F/298.15 K

Shaft Design

Input Shaft (cylindrical)	DIN 5480-W 120×4
Output Shaft with Internal Tothing	DIN 5480-N 260×10×30×24



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