

Cat[®] CST45 V

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 V CST/P-45 V 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)
16	1050 kW	1,713 hp
21	1050 kW	1,713 hp
28	1050 kW	1,713 hp
33	1050 kW	1,713 hp
39	820 kW	1,338 hp
45	710 kW	1,158 hp
50	650 kW	1,061 hp

Dimensions

KP-45 V CST

Length	2875 mm	113.2 in
Width	1401 mm	55.2 in
Height	1060 mm	41.7 in

P-45 V CST

Length	1697 mm	66.8 in
Width	1120 mm	44.1 in
Height	1060 mm	41.7 in

Capacity

KP-45 V CST

Oil Quantity	730 L	193 gal
Gearbox Weight (without oil)	9700 kg	21,380 lb

P-45 V CST

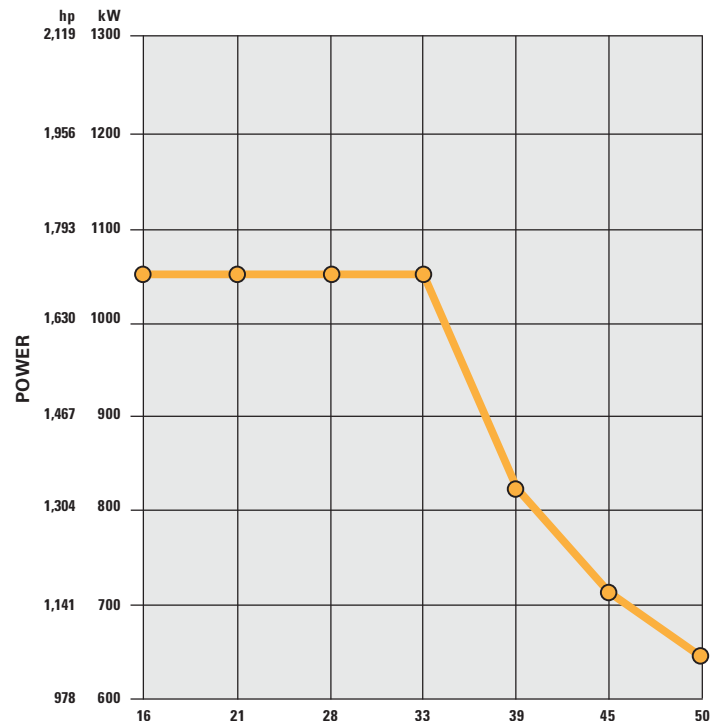
Oil Quantity	430 L	114 gal
Gearbox Weight (without oil)	5900 kg	13,000 lb

Requirements of Cooling Water

Required Cooling Water Quantity	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



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

CST45 V Gearbox

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