

Cat[®] CST45 M

GEARBOX

Specifications

Typical Application

Chain Type Longwall Machinery like Armored Face Conveyors (AFC) and Plow Systems

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

P-45 M CST 450 000 N·m 331,858 lb/ft

Rated Power P

Ratio i [-]

16

21

28

33

39

45

50

Rated Power P
($n = 1,485$ rpm)

800 kW

800 kW

800 kW

800 kW

700 kW

540 kW

500 kW

Rated Power P
($n = 1,782$ rpm)

1,305 hp

1,305 hp

1,305 hp

1,305 hp

1,142 hp

881 hp

816 hp

Dimensions

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

Capacity

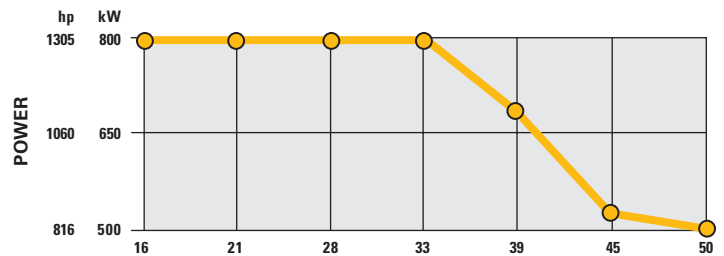
Oil Quantity	320 L	85 gal
Gearbox Weight (without oil)	7200 kg	15,873 lb

Requirements of Cooling Water

Required Cooling Water Quantity	30 L/min	7.9 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 M Gearbox

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