



# Cat<sup>®</sup> CST45 M

## DRIVE SYSTEM

### 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

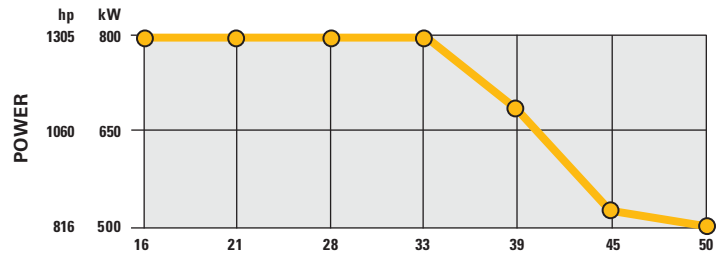
Oil Quantity	320 L	85 gal
Gearbox Weight (without oil)	7200 kg	15,873 lb

#### 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 Toothing	DIN 5480-N 260×10×30×24



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

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