

CST45 M

Gearbox



TECHNICAL DATA

Typical Application

Chain Type Longwall Machinery like Armoured 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 [-]	Rated Power P (n = 1,485 rpm)	Rated Power P (n = 1,782 rpm)
16	800 kW	1,305 hp
21	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

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

Capacity

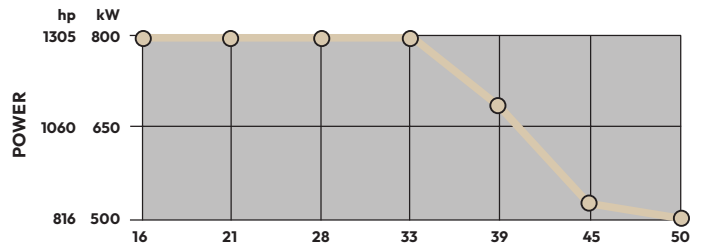
Oil Quantity	320 L	95 gal
Gearbox Weight (without oil)	7200 kg	15,873 lb

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

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