



# Cat<sup>®</sup> CST65

## DRIVE SYSTEM

### Specifications

#### Typical Application

Chain Type Longwall Machinery like Armored Face Conveyors (AFC)

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

KP-65 CST/P-65 CST 650 000 N·m 479,415 lb/ft

#### Rated Power P

| Ratio i [-] | Rated Power P<br>(n = 1,480 rpm) | Rated Power P<br>(n = 1,800 rpm) |
|-------------|----------------------------------|----------------------------------|
| 28          | 1200 kW                          | 1,958 hp                         |
| 33          | 1200 kW                          | 1,958 hp                         |
| 39          | 1000 kW                          | 1,632 hp                         |
| 45          | 900 kW                           | 1,468 hp                         |
| 50          | 800 kW                           | 1,305 hp                         |

#### Dimensions

##### KP-65 CST

|        |         |          |
|--------|---------|----------|
| Length | 2910 mm | 114.6 in |
| Width  | 1530 mm | 60.2 in  |
| Height | 1060 mm | 41.7 in  |

##### P-65 CST

|        |         |         |
|--------|---------|---------|
| Length | 1887 mm | 74.3 in |
| Width  | 1120 mm | 44.1 in |
| Height | 1060 mm | 41.7 in |

#### 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 |

#### Capacity

##### KP-65 CST

|                              |           |           |
|------------------------------|-----------|-----------|
| Oil Quantity                 | 800 L     | 211 gal   |
| Gearbox Weight (without oil) | 10 880 kg | 23,980 lb |

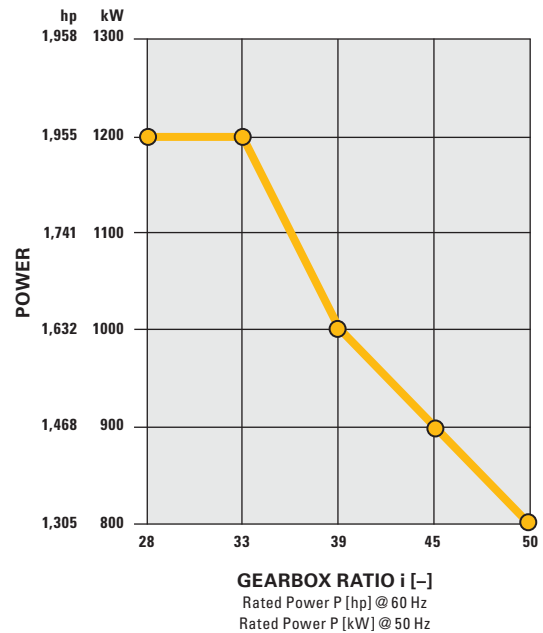
##### P-65 CST

|                              |         |           |
|------------------------------|---------|-----------|
| Oil Quantity                 | 500 L   | 132 gal   |
| Gearbox Weight (without oil) | 7300 kg | 16,094 lb |

#### Shaft Design

Input Shaft (cylindrical) DIN 5480-W 120×4

Output Shaft with Internal Tothing DIN 5480-N 320×10



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