

**motralec**

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**Colfax**<sup>™</sup>  
Corporation



**TUSHACO**<sup>®</sup>  
SERIES EG



RELIABLE PUMPING PARTNERS SINCE 1960's

Introduced in early 1970s, TUSHACO External Gear Pumps "EG" series continues to dominate the market providing reliable operation and ensuring trouble-free performance over the years. Simple in construction, using only two pumping elements, the single helical gearing, supported on antifriction bearings, within the pump casing bores ensures perfect assembly and internal alignment. Alloy steel gears are surface hardened by nitriding process for longer surface life. Casing Parts are made of high grade cast iron and processed on CNC machining centres for total interchangeability of components. Although, Standard construction is in horizontal foot mounting design, special versions are executed in flange mounting and with sleeve type bearings for certain applications. For example, the main transmission oil filling pump on the CLW's Locomotive on the Indian Railways is an import substitute for TUSHACO EG pump with flange mounted construction. This pump was one of the first to be indigenised by the Railways early in the 1980s. Paint industry is another major user of TUSHACO EG

series with most of the modern paint project in the last two decades using TUSHACO EG series.

TUSHACO EG series is a low pressure gear pump for transfer, booster and process pumping for general industrial needs. Liquids more commonly handled include all grade of fuel oils, lube oils, paints, varnish, resins, grease and similar high /low viscous products having some lubricating value.

TUSHACO also has high pressure series HPG gear pumps in aluminium alloy casing, hardened spur gears and pressure compensated sleeve bearing for handling clean lubricating / hydraulic oils typical for hydraulic duties, like jacking oil service for rotor lifting and for pressure and lubrication.

HPG series is suitable only for clean hydraulic & lube oils, degree of filtration less than 100 microns, viscosity 3 cSt to 350 cSt, maximum discharge pressure up to 180 bar, temperature < 120°C. The following table gives approximate flow ratings. For exact details, please ask for individual performance graph.

Pump selection depends on factors like viscosity, temperature, fluid characteristics etc. Consequently, power requirement can only be calculated on the basis of specific data. Please ask for individual performance curves. Performance at a glance for EG Series. Approx. flow rates in LPM, speed @ 1450 RPM, viscosity 75cSt and pressure 2 kg/cm<sup>2</sup>. Maximum possible pressure 10 bar, maximum possible viscosity ~ 5000 cSt..

| Model  | Gear length |     |     |     |     |       |     |     | Inlet/ Outlet size       |
|--------|-------------|-----|-----|-----|-----|-------|-----|-----|--------------------------|
|        | 35          | 55  | 70  | 65  | 80  | 101.5 | 125 | 140 |                          |
| 50 EG  | 120         | 200 | 250 | —   | —   | —     | —   | —   | 2" BSP                   |
| 100 EG | —           | —   | —   | 400 | 500 | 650   | 750 | 850 | 3" ANSI 150#             |
| TOP    | —           | —   | —   | —   | —   | —     | —   | 550 | Nb 100 Np 16<br>DIN 2533 |

Performance at a glance for HPG Series: Approx. flow rates in LPM, speed @ 1450 RPM, viscosity 35 cSt and pressure 100 bar (Max. possible pressure 180 bar).

Power requirement depends on operating pressure. Please ask for data for specific requirements.

| Model | A   | B   | C  | D   | E   | F   | G   | H   | I  | Inlet/ Outlet size                                        |
|-------|-----|-----|----|-----|-----|-----|-----|-----|----|-----------------------------------------------------------|
| HPG 1 | 1.5 | 2.1 | 3  | 4.2 | 5.5 | 6.5 | 7.5 | 9.5 | 12 | A to E 3/8" x 3/8", F to 1 1/2" x 1/2" BSPF               |
| HPG 2 | 11  | 14  | 18 | 22  | 25  | 28  | 34  | -   | -  | A & B 1/2" x 1/2", C 3/4" x 1/2", D to G 3/4" x 3/4" BSPF |
| HPG 3 | 24  | 32  | 41 | 49  | 55  | 68  | 72  | -   | -  | 1" x 3/4" SAE                                             |
| HPG 4 | 68  | 82  | 98 | 112 | 130 | 150 | 172 | -   | -  | A to E 1 1/2" x 1", F & G 1 1/2" x 1 1/4" SAE             |

## TUSHACO PERFORMANCE PROVEN POSITIVE PUMPING POWER!

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