



TOUGH ENGISOL PVT LTD



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COOLANT PUMPS

“PHULSONS” range of immiscible pumps has been designed especially for filtering systems in the machine tool industry. The low-pressure pumps are available in different flow variants and come with a choice of bottom suction or suction from the top of the volute.

The compact coolant pumps efficiently transport liquid containing chips, fibers and abrasive particles on to the filtering unit. Semi open impellers allow the passing of chips up to 10 mm, making the pumps ideal for removing liquid from any machining process- from boring and milling to grinding.

High – Quality materials :- Carefully chosen materials ensure trouble free operation and long life the top of the pump is made of cast iron, while the impeller is available in composite Bronze/aluminum/engineering plastic etc are used in pumps with flow up to 1000 l/min. in the bigger pumps with higher flow the impellers are made of bronze to ensure perfect Resistance to e.g metal chips. As the pumped liquid will always contain oil there no risk of Corrosion.

Easy Installation:- Easy installation is another of the benefits of the pumps. The tank –mounting flange dimensions’ have been carefully designed to ensure that even replacement of compacting products can be carried out without any inconvenience no special tools are required to the Installation of the coolant pumps just as the entire range is easily serviced and cleaned.

Full – line supplier :- In addition to the range for filtering systems, we offers a wide range of pumps for the cooling and cleaning of tools inside the machine. this allows our customers the benefit of convenient and time –saving one stop shopping.

WIDE RANGE OF APPLICATION

Turning	Grinding	Granite
Boring	Filtration	Fountains
Drilling	Circulation	Washing
Milling	Prininting	Heat treatment
Cutting	Conveyor	Oil Transfer
Sawing	Cooling	

FEATURES:-

- Available in very wide range.
- High **flexibility** of Design.
- Availability in any type of material like CI, SS-316,SS-304,Bronze , Alloy-20 Etc.
- Balanced Shaft & Rotor with excellent grade stamping & wire so highly efficient motor
- Totally Noiseless Operation.
- Available in any length and for any Liquid.
- Extruded powder coated motor body (up to 1 hp)
- No shaft seal (100% Maintenance free 😊.)
- Semi Open Impellers (Ensure free passage of solids and chips)
- Large stock, Earliest Delivery.

TYPE OF COOLANT PUMPS :

- Standard Coolant pumps.
- Coolant pumps with **DC motor**.
- Coolant pumps with **flame proof motor**.
- Coolant pumps with **"C E" and "UL" Mark Motor**
- Custom built coolant pumps for different lengths.
- Very high discharged pump.
- Very high head pump / High pressure pump.
- Pumps in special material like stainless steel, bronze, PP, alloy – 20 etc.
- Multistage Coolant pumps.
- Coolant pump without stem.
- Coolant pump for oil (gear type).
- Submersible Coolant pumps.

COOLANT PUMPS RANGE :

- Max discharge up to **1000 LPM**.
- Max pressure up to **21 bar**.
- Max length up to **1500 mm**.
- Max HP up to **20 HP**.
- Max outlet size **up to 4"**.
- Max temp up to **240° C**.
- Max Size of chips **up to 15 mm**.
- Material or construction – CI / SS Alloy 20 / PP /bronze etc.

MULTISTAGE STAGE HIGH HEAD COOLANT PUMPS (MCP SERIES)

PERFORMANCE DATA OF MCP - 2										
PUMP MODEL	MOTOR POWER KW / HP	FLOW IN LPM	HEAD IN METER							
			17	18	25	32	38	45	50	55
MCP 2-20	0.37 / 0.5	HEAD IN METER	18	17	16	15	13	12	10	8
MCP 2-30	0.37 / 0.5		27	26	24	22	20	18	15	12
MCP 2-40	0.55 / 1		26	35	33	30	26	24	20	16
MCP 2-50	0.55 / 1		45	43	40	37	33	30	24	20
MCP 2-60	0.75 / 1		53	52	50	45	40	36	30	24
MCP 2-70	0.75 / 1		63	61	57	52	47	41	35	28
MCP 2-90	1.1 / 1.5		80	78	73	67	67	54	45	37
MCP 2-110	1.1 / 1.5		98	95	89	82	73	64	54	44
MCP 2-130	1.5 / 2		116	114	106	98	89	78	65	52
MCP 2-150	1.5 / 2		134	130	123	112	100	90	73	60
MCP 2-180	2.2 / 3		161	157	148	136	121	108	91	76
MCP 2-220	2.2 / 3		198	192	180	165	148	130	110	90
MCP 2-260	3.0 / 4		232	228	214	198	179	158	130	110



PERFORMANCE DATA OF MCP - 4										
PUMP MODEL	MOTOR POWER KW/HP	FLOW IN	HEAD IN METER							
			25	33	50	66	83	100	116	133
MCP 4-20	0.37 / 0.5	HEAD IN METER	19	18	17	15	13	10	8	6
MCP 4-30	0.37 / 0.5		28	27	26	24	20	18	13	10
MCP 4-40	0.55 / 1		38	36	34	32	27	24	19	13
MCP 4-50	0.55/1.5		47	45	43	40	34	31	23	17
MCP 4-60	0.60/1.5		56	54	52	48	41	37	28	20
MCP 4-70	0.75 / 2		66	63	61	56	48	43	33	24
MCP 4-80	1.1 / 2		74	72	70	64	55	50	38	27
MCP 4-100	1.1 / 3		96	90	87	81	71	62	48	34
MCP 4-120	1.5 / 3		114	108	104	95	85	75	58	41
MCP 4-140	1.5 / 4		136	126	122	112	101	89	68	48
MCP 4-160	2.2 / 4		152	144	140	129	115	101	78	55
MCP 4-190	3.7/5		183	171	168	153	137	122	93	67
MCP 4-220	3.7/5		211	200	192	178	160	138	108	79