MACHINE TOOL COOLANT

www.Hydra-Cell.com

Location:	India
Application:	Machine tool cooling in automotive components manufacture
Media:	Cutting oilCoolant emulsion
Model No.:	D10XKCTHFEYA
	D12XKCTHFEYA
	H25XKCTHFEYA
Flow Rate:	D10/D12 30 l/min 8 gpm (30 l/min)
	D25 18 gpm (70 l/min)
Pressure:	D10/D12 800 psi (55 bar)
	H25 1000 psi (69 bar)
Hydra-Cell Advantages:	Seal-less, leak-free design
	Minimal, easy maintenance
	No contact between coolant liquid and drive
	Can maintain constant pressure
	Sustained performance
	Energy cost savings



Machining of Diesel Engine Components

As part of major additions to its production facilities in India, a leading Japanese vehicle manufacturer planned a new production line for diesel engine components. Machine tools originally brought in from Japan, or purchased in India for this expansion, incorporated high-pressure coolant delivery systems equipped with piston pumps.

Meanwhile the company searched for alternative pumps that could run reliably for long periods on virtually continuous 24hour duty. Screw pumps from a German manufacturer and centrifugal pumps from another well-known European supplier were among the options considered.

Discussions with the Hydra-Cell distributor in India on the advantages of a seal-less design alerted plant engineering to features of particular interest to the company: (1) low maintenance; (2) sustainably low power consumption.

Initially replacing two piston pumps and establishing that seal-less Hydra-Cell pumps performed to expectations, the company bought more Hydra-Cell units. All new machine tool coolant systems are now fitted with Hydra-Cell pumps, while additional Hydra-Cell pumps are running in other applications such as auto parts wash.

As of May 2014, more than thirty Hydra-Cell pumps (models D10, H25 and the vertically- mounted D12) are operating on machine tool coolant systems.

Characteristics of Fluid Pumped:



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