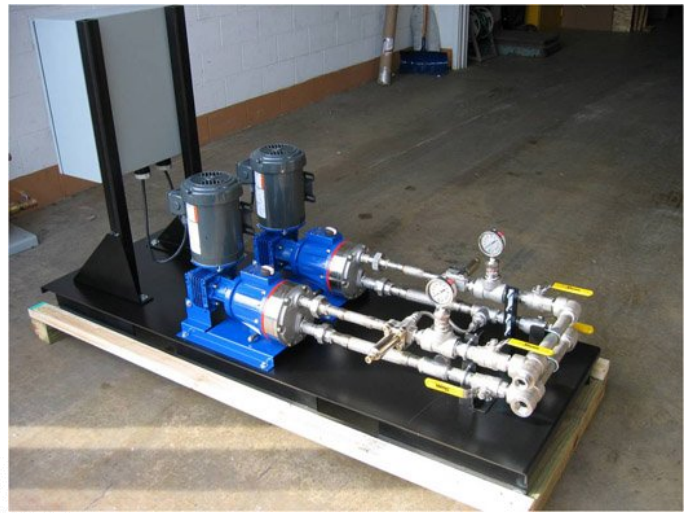


Application story



Ceramic Slurry Spray Drying

Location	USA	Hydra-Cell model	P400NSTSC007C
Type of application	Spray Drying Ceramic Slurries	Flow rate	Up to 243 l/hr (53.5 gph)
Liquid	Ceramic Slurry	Pressure	Up to 70 bar (1000 psi)
Application details	An Illinois plant was having problems delivering ceramic slurry to the nozzles in a spray dryer. With a density of 87 lb/ft³ and viscosity of 500 cps at 21°C, the slurry was also abrasive. The progressing cavity pumps in use were unable to withstand the abrasion. Intensive maintenance was needed and costs were high. In place of the progressing cavity pumps, a local pump specialist proposed a system incorporating two P400 Hydra-Cell metering pumps in stainless steel, each driven through a 7.5:1 ratio gearbox. The new system proved 'ideal' and solved all the problems associated with the original pumps.		
Advantages of Hydra-Cell pump on this application	Seal-less design, enabling problem-free handling of abrasive slurries. Reliable low-maintenance operation.		

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