

from the oil field
to the refinery

make it a **SHIMPO**



SHIMPO All for dreams

RXC TRACTION DRIVES

Progressive cavity pumps are used throughout the industry to transport fluids that may be thick, heavy, or contain solids, including wastewater. The heavier the fluid, the slower it moves, and the greater the power needed to move it.

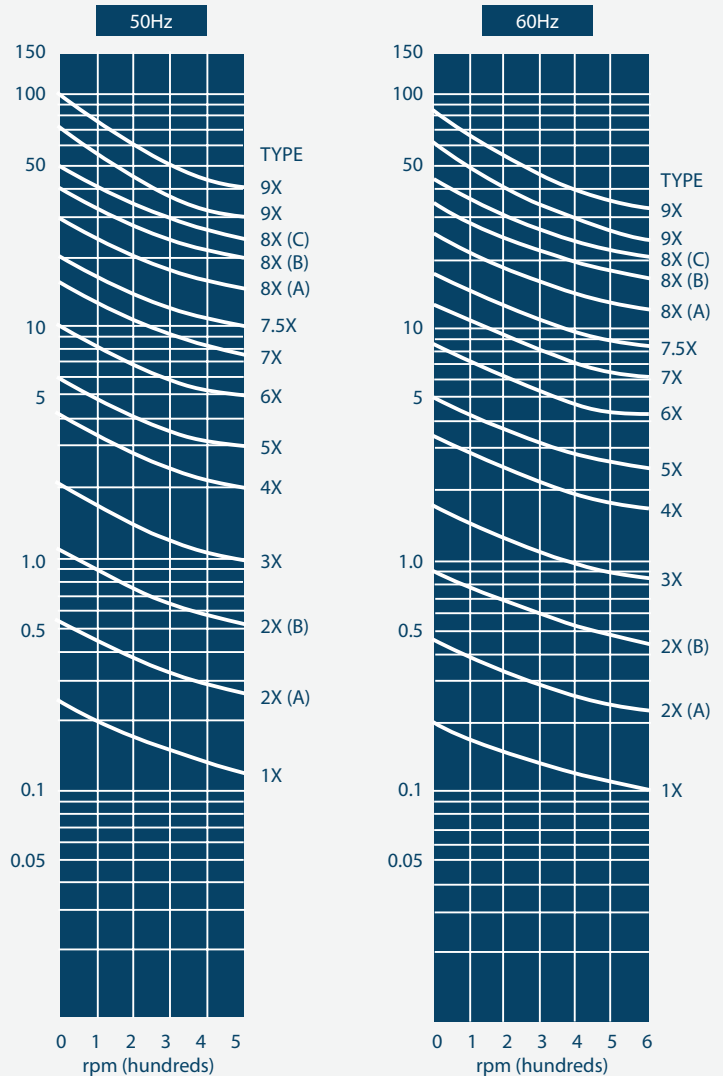
Shimpo's RXC adjustable speed traction drive might have been made for this type of duty, considering its specifications. The RXC is one of very few adjustable speed drives that develops more torque at lower speeds than at higher speeds.

This is perfect for positive displacement pumps. When the fluid becomes thick, lumpy, or both, the RXC's low speed torque keeps the pump turning. When encountering a momentary clog or jam, the RXC's pressure control cam will momentarily slow the speed, resulting in more torque and clearing the problem.

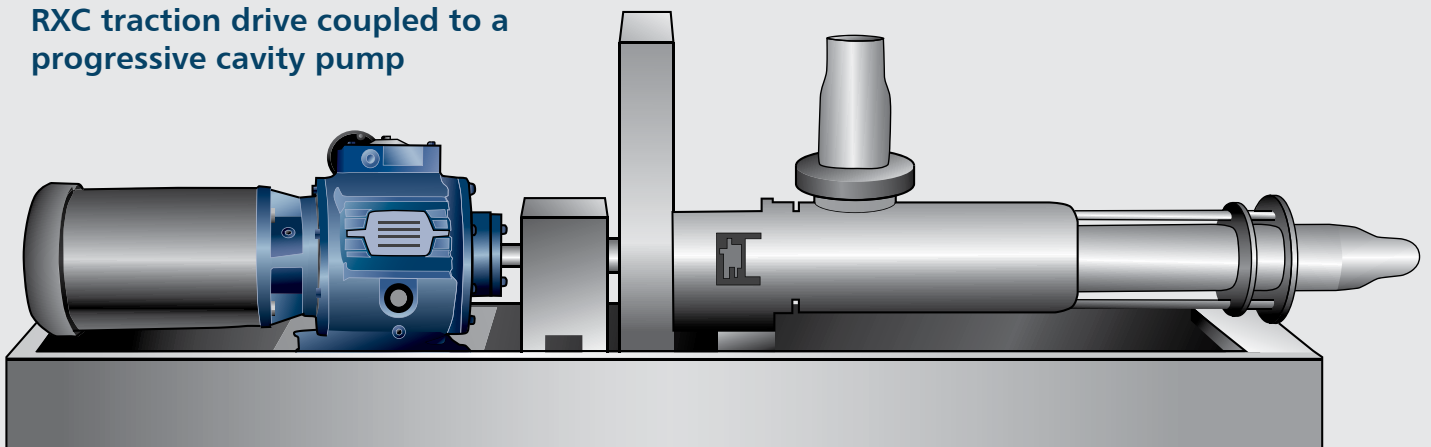
Pumps in these applications typically use an RXC with a simple handwheel for speed control, but electric and electronic options are also available for remote or automatic speed control.

The RXC traction drive is non-sparking, and is often driven by a common explosion-proof AC motor.

Output Shaft Torque (kgf -m)



RXC traction drive coupled to a progressive cavity pump



CIRCULUTE 3000 SPEED REDUCER

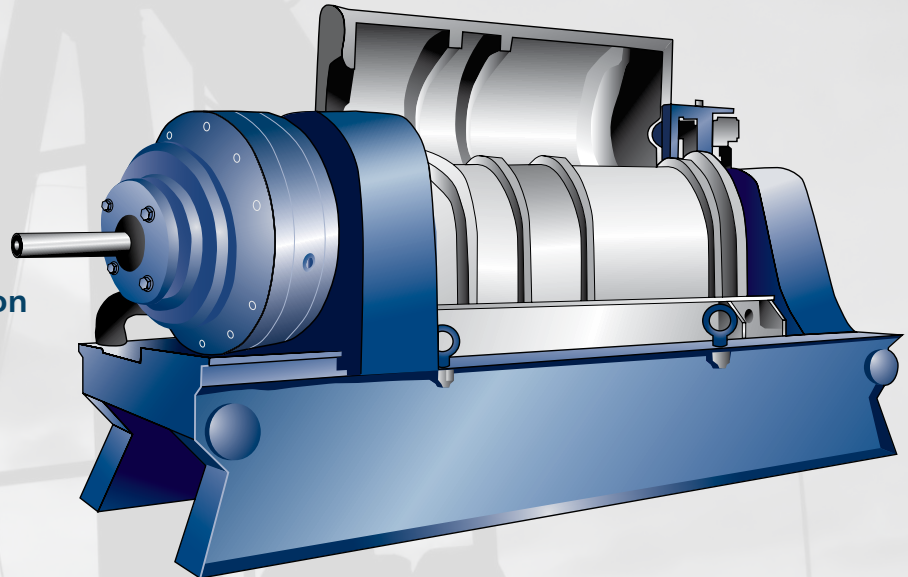
Because of their compact heavy-duty construction, Shimpo Circulute reducers have become a common choice for centrifuge applications. In centrifuges, a specially modified Circulute reducer is used to spin a centrifuge screen at one speed and a scraper at another speed, separating fluids from solids.

Ciculute is well-known for industrial applications which involve severe operating conditions, high shock loads, and long life with minimum maintenance. When centrifuge-duty is specified, the Circulute reducer can be expected to deliver reliability and long life.

The Circulute reducer is modified so that the housing, normally stationary, spins with the screen and tank, while the output shaft rotates at a slightly different speed to drive the scraper over the screen. Oversized roller bearings are specified, to handle the high loads.

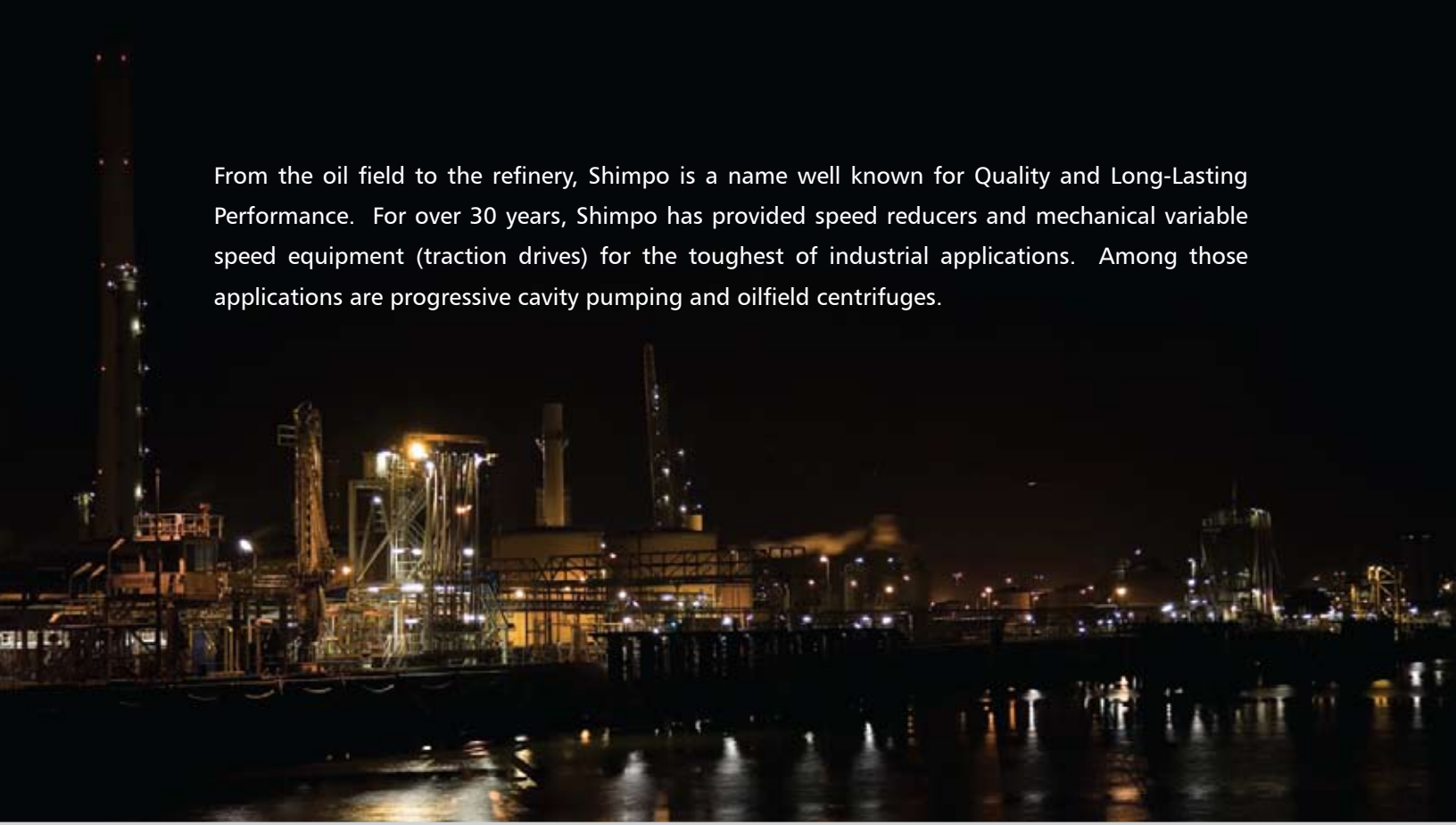
The centrifuge-duty Circulute reducer is available in several sizes, to accommodate different centrifuge styles and applications.

Ciculute 3000 in a centrifuge application



Rating Table - 1750 rpm Input, Single Reduction

Reducer Frame Size	Ratio	11	17	29	35	47	59	71
	Output rpm	159	103	60.3	50.0	37.2	29.7	24.6
A	Input HP	1.43	1.29	0.80	0.73	0.52	0.39	0.26
	Output lb-in	521	724	769	847	802	764	608
B	Input HP	4.25	3.00	2.12	1.68	1.19	0.93	0.75
	Output lb-in	1,550	1,690	2,040	1,950	1,860	1,820	1,770
C	Input HP	8.67	8.02	5.03	4.61	3.20	2.55	2.12
	Output lb-in	3,160	4,520	4,830	5,350	4,990	4,990	4,980
D	Input HP	20.4	16.0	10.1	8.97	6.68	5.12	4.06
	Output lb-in	7,420	9,020	9,720	10,400	10,400	10,000	9,560
E	Input HP	39.0	34.6	28.9	24.0	16.1	13.2	10.2
	Output lb-in	14,200	19,500	27,800	27,800	25,000	25,800	24,000
F	Input HP	60.1	59.3	50.6	44.2	32.1	24.3	20.2
	Output lb-in	21,900	33,400	48,600	51,200	50,000	47,600	47,600



From the oil field to the refinery, Shimpo is a name well known for Quality and Long-Lasting Performance. For over 30 years, Shimpo has provided speed reducers and mechanical variable speed equipment (traction drives) for the toughest of industrial applications. Among those applications are progressive cavity pumping and oilfield centrifuges.

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