

"T" SERIES PEDESTAL MOUNTED

**HELICAL ROTOR PUMPS** 



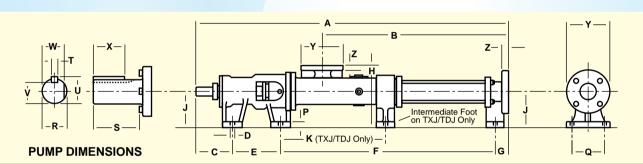


**PROGRESSIVE CAVITY** 

**POSITIVE DISPLACEMENT** 



# PROGRESSIVE CAVITY POSITIVE DISPLACEMENT



PUMP	Α	В	С	D	Е	F	G	Н	J	K	Р	Q	PUMP MASS
TXD	801	373				464							25kg
TDD	914	486	122	14	171	576	44	197	114	_	14	102	27kg
TXE	842	414				505							28kg
TDE	1250	715				838		241					48kg
TXG	1141	606	161	14	203	729	48	241	140	_	16	140	48kg
TDG	1331	796				919		241					54kg
TXH	1304	750				892		254					64kg
TDH	1683	991				1145		292		_			102kg
TXJ	1805	1056	235	17	260	1267	43	311	178	714	19	191	128kg
TDJ	2149	1401				1611		311		714			147kg

SHAFT DIMENSIONS									
PUMP	R	S	Т	U	<b>V</b>	W	Х		
TXD/DD/XE	28	49	8	31	24	27	35		
TDE/XG/DG/XH	42	80	12	45	37	40	54		
TDH/XJ/DJ	55	100	16	59	49	53	70		

FLANGE DIMENSIONS — to AS2129 Table 'E'											
PUMP	NOM.	NO. OF	BOLT	HOLE	Υ	Z					
	SIZE	HOLES	CIRCLE	DIAM							
TXD/DD/XE	40 (1.5")	4	98	14	135	16					
TDE/XG/DG	50 (2")	4	114	17	151	19					
TXH/DH	80 (3")	4	146	17	185	19					
TXJ/DJ	100 (4")	8	178	17	216	22					

EL ANCE DIMENCIONO

As Tyco policy is one of constant improvement, we reserve the right to make specification changes without notice and without incurring liability

Diributed by...



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A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

### **APPLICATIONS**

- Positive displacement helical rotor type pumps for the transfer of a variety of liquids including —
- -WATER
- -SOFT MACERATED SEWAGE
- -SOFT ABATTOIR EFFLUENT
- -TALLOW and BLOOD
- -ANIMAL and VEGETABLE OILS
- -PIGGERY EFFLUENT
- -SLURRIES

#### **FEATURES**

- Pump to high heads or over long distances.
- High efficiency, low maintenance.
- Constant non-pulsating discharge in either direction.
- Low power and running costs.
- Wide operating speed range for variable output.
- Australian designed and manufactured.
- Up to 19 litres per second discharge.
- Heads to 120 metres.
- 40 to 100mm flanged connections.



# Southern Cross

Southern

Cross

Electric

**Belt Drive** 

Pump Unit

## "T" SERIES PEDESTAL MOUNTED

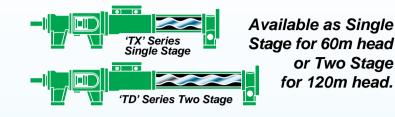
## **HELICAL ROTOR PUMPS**

"T" SERIES PEDESTAL MOUNTED

## Southern Cross

## **HELICAL ROTOR PUMPS**

or Two Stage



#### SPECIFICATIONS...

PUMP ROTOR: 300 series stainless steel, hard chrome plated and polished.

PUMP STATOR: Standard pumps have moulded natural rubber stators bonded into cast iron bodies. When hydrocarbons, hydraulic fluids and vegetable oils are to be pumped optional nitrile butadiene lined stators are available. The extended rubber lining provides a seal at each end of the stator to insulate the cast iron body from the pumped liquid.

ROTOR DRIVE SHAFT (WHIPSHAFT): One piece, type 431 stainless steel shaft which flexes to take the "whip" due to the eccentric rotation of the rotor. This eliminates the need for costly and difficult to replace universal joints.

HOLLOW DRIVE SHAFT: Cast stainless steel made hollow to allow movement of the "whipshaft". Flanged on the input end to accept the stub shaft, the drive shaft runs on grease lubricated taper roller bearings sealed with lip seals.

## SPECIFICATIONS contd...

**DIRECTION OF ROTATION:** Rotation in either direction enables pumps to be reversed for back flushing of lines, clearing blockages or for duties requiring reversal of flow between tanks and reservoirs.

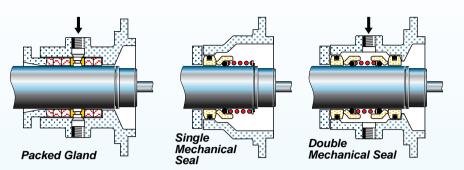
**MOUNTING:** Any angle from horizontal to vertical is acceptable.

**LUBRICATION:** Occasional greasing of the drive shaft bearings. Pumping element is lubricated by the pumped liauid.

### PUMPED LIQUID TEMP. RANGE:

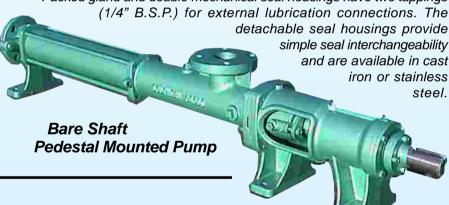
For standard pumps liquid temperature should not exceed 37° C. Refer to Southern Cross for higher temperature operation.

**DRIVE:** Supplied as standard with keyed, bare shafts or can be fitted with pulleys or couplings as required.

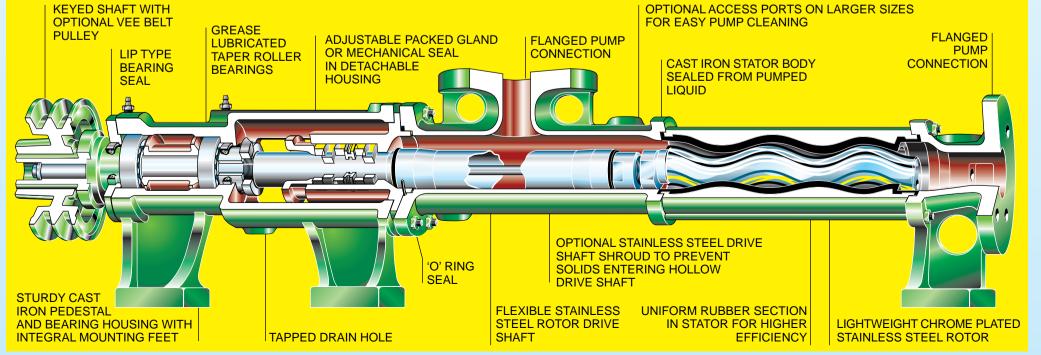


SHAFT SEAL: Pumps are supplied as standard with packed gland shaft seals or optionally single or double mechanical seals can be fitted. Packed glands are suitable for operating heads to 120 metres and depending on rotation of the pump can be subjected to either suction or discharge head. When on the discharge side the pumped liquid lubricates the gland. Optional pressure feed fittings provide gland lubrication from the pump discharge when the gland is on the suction side or alternatively clean water from an external supply can be used when pumping abrasive liquids.

Single mechanical seals are available for clean water applications and are suitable for either direction of pump rotation. Double mechanical seals with external water or oil lubrication are available for dirty water applications. Packed gland and double mechanical seal housings have two tappings



**PUMP CONNECTIONS:** Flanged to B.S.S. Table 'E'. The end flange is on ROTOR DRIVE SHAFT SHROUD (Optional): Prevents solids, the centre line of the pump while the which impede the flexing action of the drive shaft, from entering the centre flange on the pump housing cavity between the rotor drive shaft and the hollow shaft. can be rotated through 360° at 90° **Belt Drive** increments. Both flanges are the same ACCESS PORTS (Optional): H and J size pumps can be supplied Diesel Pump Unit with ports and cover plates for clearing blockages. size. **GUIDE TO PERFORMANCE** OPTIONAL ACCESS PORTS ON LARGER SIZES FOR EASY PUMP CLEANING **GALLONS PER MINUTE GREASE FLANGED** ADJUSTABLE PACKED GLAND FLANGED PUMP **LUBRICATED** PUMP OR MECHANICAL SEAL CONNECTION TAPER ROLLER



# 250 単 1.5 2.0 LITRES PER SECOND