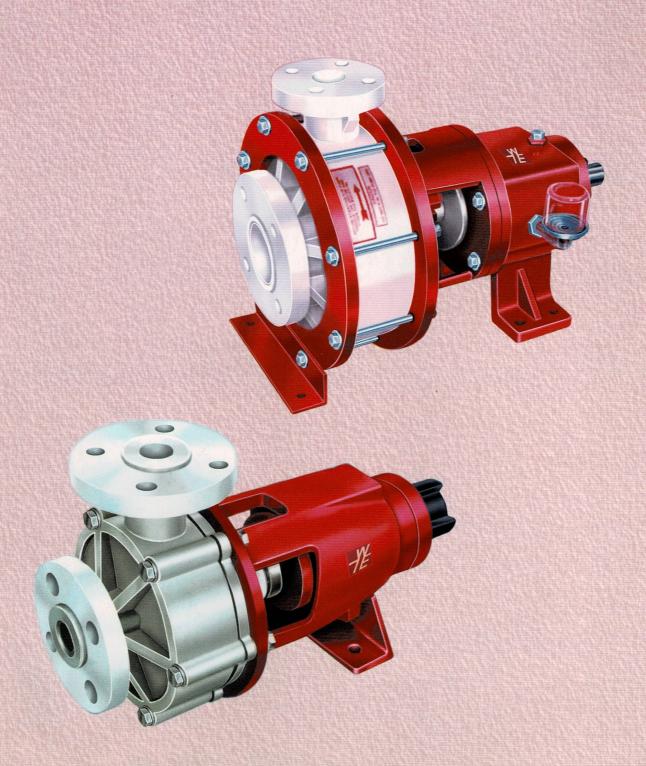
# **WEL-TECH** Polypropylene Pumps The Range of Moulded Polypropylene Pumps for Handling Corrosive and Aggressive



"ECHO" Series pumps are designed and manufactured by Weltech Equipments to meet customer specific requirement with optimum standardization. The company's wealth of the experience goes in to the design and manufacture of moulded polypropylene corrosion resistant pumps.

**"ECHO"** series pumps designed philosophy is to design pumps that are simple, rugged and reliable, using most appropriate material with economical moulding technique with all aspects of quality performance.

High degree of manual interchangeability of components within all models by grouping system

# GROUP-1: PROCESS PUMPS Models: ECHO-100, ECHO-130, ECHO-140, ECHO-160, ECHO-170

# **Application:**

- ♦ Used in continuous processing acid pickling line in steel industries.
- For filteration and pressurise feeding in dyes and intermediate industries.
- ♦ Excellant for vacuum ejectors.
- Scrubbing of corrosive gases like Cl<sub>2</sub>, Br, I, So<sub>2</sub>
- For descaling of tubes

These pumps are high head (up to 35 mtrs.) with different capacity coupled to 2900 rpm motors.

Model	Suction in mm	Delivery in mm	Impeller DIA in mm	НР	RPM	Head in m. Capacity in m <sup>3</sup> / hr			m. m³/hr		
ECHO-100	25	25	100	1	2900	7 11	8 9	10 6	11 5	12 3	13 00
ECHO-130	40	40	130	2	2900	20 00	17 3	14 6	10 10	8 14	4 13
ECHO-150	40	40	150	3	2900	24 00	22 3	20 5	18 10	15 20	10 26
ECHO-160	75	40	160	5	2900	31 00	26 12	25 15	20 25	15 30	10 35
ECHO-170	75	50	170	7.5	2900	35 00	32 15	30 25	25 32	20 38	12 50

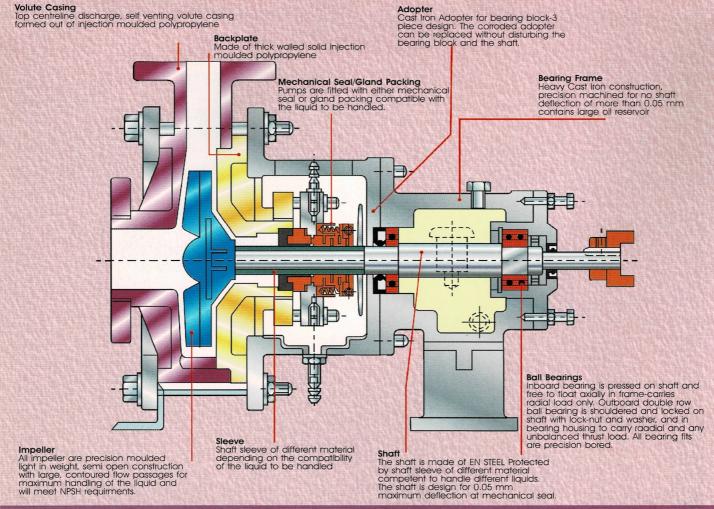
### GROUP - 2 TRANSFER PUMPS Models: ECHO-50 and ECHO-55

#### **Application:**

- These pumps are normally used for transfering acids / alkalies and also for loading-unloading of acid - alkalies road tankers.
- Used for effluent treatment plants for maximum 3 mtrs. negative suction with foot valve.
- Used for recirculation of chemicals in electro plating plants.
- ♦ Transfering for HCL, H<sub>2</sub>SO<sub>4</sub> (DIL) HNO<sub>3</sub>, NaOH.

Low Head (up to 15 mtrs.) medium capacity pumps coupled to 1440 rpm motor

	Model	Suction in mm	Delivery in mm	Impeller DIA in mm	HP	RPM	Head in m. Capacity in m <sup>3</sup> / hr	m. m³/hr
THE PERSON NAMED IN	ECHO-50	75	40	210	3	1440	15     00       13     12       15     23       8     30	6 40
	ECHO-40	40	40	205	2	1440	12 00 11 10 06 8 12 5 25	
Maria Marianta	ECHO-55	75	50	210	5	1400	18     00     17     06     15     10     14     20     12     28	10 37



#### SHAFT SLEEVE OPTIONS

1) F.R.B. (BISPHENOL RESIN)	Used for mechanical seal arrangement only for handling HCl 33% Conc. service Also used for dilute H <sub>2</sub> SO <sub>4</sub> (not recommended for gland packing arrangement & for HCL containing solvents.)
2) CERAMIC	HCL (ACID) + Solvents (Acids & solvents) and generally for all liquids
3) HASTELLOY 'B'	For effluents.
4) ALLOY-20	Dilute Sulphuric Acid (H <sub>2</sub> SO <sub>4</sub> ) concentration less than 70% NaOH upto 48%, HNO <sub>3</sub> upto 60%
5) TITANIUM	BRINE
6)MONEL	HF (40%)

# ECHO pumps are widely used for the following applications

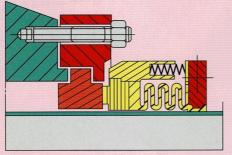
- Conc. HCI Loading and Unloading of Road Tanker.
- ♦ Filter Press for Dyes.
- ♦ Descaling.

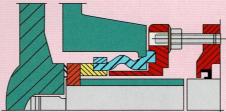
- ♦ Water Treatment.
- ♦ Effluent Treatment
- ♦ Electro Plating

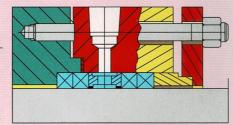
- Picking of Steel in Cold Rolling Mills.
- ♦ Scrubbing of Corrosive Gases like Cl₂, Br₂, F₂ I₂, SO₂, SO₃, CO₂, NH₃

#### ECHO pumps are serving the following industries

- Caustic Soda Plants (Chlor Alkali Industries)
- **Dyes** and Chemicals
- ♦ Drugs and Pharmaceuticals
- ♦ Fertiliser Plants
- ♦ Thermal and Atomic Power Plants
- ♦ Steel Plants.
- Paper and Pulp Industries. (for alum & NaOCI)
- ♦ Electronic Industries
- ♦ Sea Water Treatment
- ♦ Rayon and Staple Fibre Plant (Bleach Liquor)
- ♦ Copper, Zinc Smelter
- ♦ TiO₂ Plant
- ♦ Glass Industries
- ♦ Textile Industries







#### **Teflon Bellows**

(GFT V/S Ceramic) externally mounted mechanical seal

#### Teflon bellows mechanical seals

These seals have ceramic as stationary unit and teflon bellows as rotary unit. These are recommended for clear and corrosive chemicals like HCI, H<sub>2</sub>SO<sub>4</sub> (DIL), HNO<sub>3</sub>, NaOH, H<sub>2</sub>O<sub>2</sub> etc.

These seals are not recommended for :

- Liquid containing solids or slurry or abrassive particles.
- Liquids which get crystallised on cooling e.g. NaOH,
   CuSO<sub>4</sub> NiSO<sub>4</sub> etc.

NB: For this seal, external water cooling is necessary for better service & longer life.

#### Inernal Mechanical seal

with Elastomer bellows (Neoprene/ Hypelon) with carbon v/s carbon face combination

#### Internal Mechanical seal

This seal is developed by

ECHO for handling liquids

containing slurry upto 20%

(not abrasive slurry). This seal

consists of carbon as stationary

ring fixed in a neoprene/hypelon

rubber bellows and carbon as

rotaryring. The stationary ring

and bellows are held by a non

metallic bellows holder.

- Seal recommended for flooded suction
- Excellent for HF upto 40 % concentration.
- Can be used for liquids getting crystallised on cooling like
   NaoH, Electroplating solution, etc.
- Not recommended for liquids containing organic compound or solvents due to rubber bellows.

#### **Gland Packing**

T.I.B.A. (Taflon impregnated blue asbestos)

#### **Gland Packing**

Teflon impregnated blue asbestos (TIBA) 10 mm & 12.5 mm square gland packings are put in **ECHO** series, respectively.

- Gland packed pumps are normally recommended for transfer of caustic 40% concentration and primary effluents.
- Liquid contains Slury and Solid particals

For further information Contect to:

# **WEL-TECH EQUIPMENTS**

MFR. OF INDUSTRIAL PUMPS & EQUIPMENTS

6, Girivar Complex, Near. Girivar Banglows, Opp. Ramvadi Temple, Isanpur, Ahmedabad-382443. Tele./Fax: 30917873, 25732846 Email:-jramolia@satyam.net.in, weltechpumps@yahoo.co.in Distributors / Dealer