

# **PROGRESSIVE TECHNOLOGIES**

## **PROGRESSING CAVITY SCREW PUMPS**



**Tariq Alsafeena**

**DESIGN & MANUFACTURING  
TECHNICAL CONSULTANT  
REPAIR & RECONSTRUCTION  
PROVISION OF SPARE PARTS/ AFTER  
SALES SERVICES**





## **Company introduction**

**Tariq Alsafeena company is one of the largest manufacturers of mono pumps in Middle East. With more than two decades of experience in various industries and according to the needs of the country, especially sewage, agriculture, food, marine, paint and resin, chemical, mineral, oil and petrochemical industries, this company started to manufacture pumps with High efficiency, reliable performance and low depreciation for transporting oil derivatives, drilling mud and transporting all materials with high concentration.**

**The company of Tariq Alsafeena company have been working in the field of technical consulting, design, production, repair and restoration of all types of pumps and mono pumps with different sizes and mechanisms, as well as providing spare parts. In this way, Tariq Alsafeena Mono pump, with its brilliant history and relying on its knowledge and experienced engineers, declares its readiness to cooperate with active companies in all industries.**





Pumps and mono pumps of Takran kavoush Industrial Group have been widely welcomed by industrial owners in the country due to the high quality in manufacturing, assembly and extensive technical services and favorable product warranty.

All custom parts and products of this collection are tested and delivered to the customer in the company's well-equipped laboratory, which is specially designed for testing pump performance according to the required standards.

The main products of this company are:

- Mono pump for flocculant
- Mono pump for flour and bread industries
- Different types of dosing pumps
- Centrifugal pumps
- Mono pump for transferring sludge and water and sewage
- Barrel mono pump
- Mono pump for chemicals and all kinds of detergents, paints and resins
- Mono pump for food industries
- Tank emptying mono pump
- Floor pumps
- Funnel mono pumps with bridge breaker

## TECHNICAL SPECIFICATIONS OF TARIQ ALSAFEENA PROGRESSIVE MONO PUMPS

Tariq Alsafeena mono pumps are designed by the engineering team according to various functional conditions and customer needs and are produced in the workshops of this company. These mono pumps are competitive with the mono pumps of the famous brands in the world, which are designed and produced as standard with flanged inlet and outlet and steel plate chassis. In addition to providing standard models that are commonly used in the industry, Tariq Alsafeena Industrial Group has the possibility of engineering, designing and manufacturing customized samples according to the needs of customers. In custom designs, it is possible to add features such as the use of special materials and coatings in the structure of the pump parts, special electrical and electronic considerations (such as being anti-spark, etc.), the appearance and dimensions of the mono pump, as well as control and protection systems to the standard mono pump. In the following, some custom designs that can be used in different industrial units are mentioned.

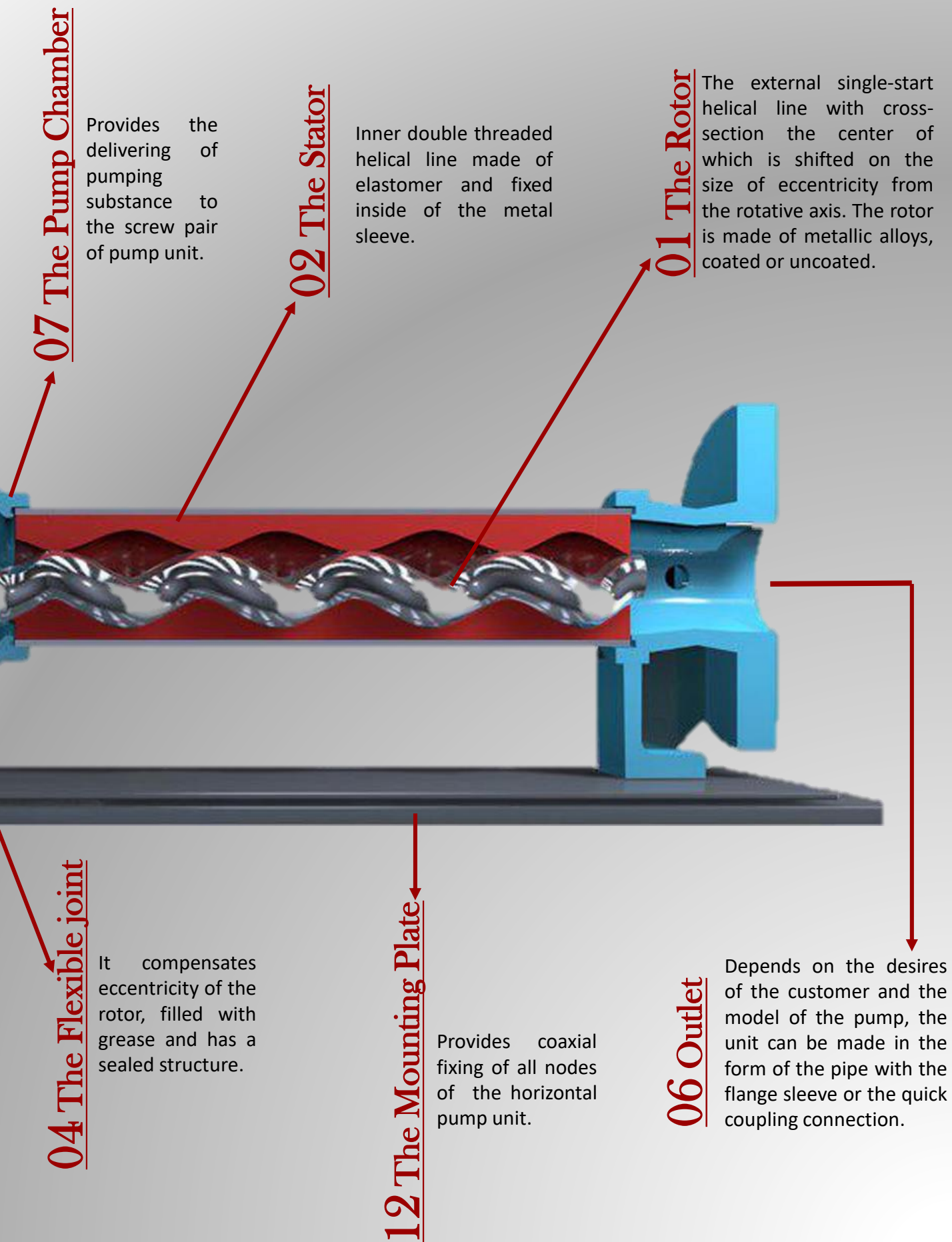




Pump model PH	P, bar	Q, M³/h	N, kW	R, min	Main dimensions, mm			M, kg	Out, DN, mm	Main stator dimensions, mm			Permitted size of particles (hard/soft)
					L1	L2	L3			L4	D	d	
021S01	4	0.6-1.5	0.55-1.1	525-828	260	200	840	27	25	112	51	20	6/9
021S02	12	0.1-1.4	0.55-1.1	220-1090	260	200	940	30	25	212	51	21	6/9
021S04	24	0.6-1.5	0.75-1.5	560-1090	260	250	1350	55	25	412	51	20	6/9
021L01	6	0.8-2.2	0.75-1.1	350-890	260	200	940	30	25	212	51	30	6/9
031S01	6	0.5-2.4	0.55-1.1	262-648	270	220	970	45	50	162	70	30	9/13
031S02	12	0.5-1.8	0.75-1.1	262-545	270	220	1105	60	50	304	70	31	9/13
031S04	24	0.5-2.1	1.1-3	266-624	300	250	1720	80	50	588	70	30	9/13
031L01	6	1.1-3.7	0.75-1.5	216-545	270	220	1105	48	50	304	70	30	9/13
038S01	6	2-5.4	1.5-2.2	380-631	320	250	1270	75	65	226	89	38	14/21
038S02	12	2.2-5.8	2.2-4	380-638	320	250	1470	90	65	426	89	38	14/21
038S04	24	2-4.7	5.5-7.5	380-593	360	300	2325	130	65	826	89	39	14/21
038L01	6	4.2-9.8	2.2-4	250-513	320	250	1470	90	65	426	89	38	14/21
045S01	6	2-8.5	2.2-4	296-622	300	250	1340	85	80	261	108	45	17/26
045S02	12	4.4-10	4-5.5	319-600	300	250	1560	110	80	493	108	45	17/26
045S03	18	3.5-8.6	5.5-7.5	297-547	350	300	2470	180	80	725	108	46	17/26
045S04	24	2.6-7.1	5.5-11	260-469	350	300	2700	260	80	957	108	46	17/26
045L01	6	8.1-18.6	3-5.5	257-515	300	250	1560	115	80	493	108	45	17/26
053S01	6	3.9-13	3-5.5	273-547	350	350	1650	150	100	316	121	53	20/30
053S02	12	8.1-15.6	5.5-11	273-547	350	350	1930	170	100	598	121	53	20/30
053S03	18	3.5-10.5	4-11	167-370	450	350	2840	210	100	880	121	54	20/30
053S04	24	5.5-10	11-15	278-397	450	400	1915	290	100	1162	121	54	20/30
053L01	6	11.1-28	4-7.5	200-469	350	400	1930	160	100	598	121	53	20/30
063S01	6	3.5-20	2.2-7.5	169-469	335	350	1760	185	125	363	146	63	24/37
063S02	12	3.3-17.5	4-11	167-397	335	350	2080	240	125	685	146	63	24/37
063S03	18	8-17.4	7.5-15	208-360	540	400	3130	415	125	1007	146	64	24/37
063S04	24	8-17.1	11-18.5	208-360	540	400	3450	505	125	1329	146	64	24/37
063L01	6	13-40.5	4-11	167-397	335	350	2080	240	125	585	146	63	24/37
076S01	6	5.2-28.5	4-11	156-381	485	420	2330	480	150	419	168	75	30/45
076S02	12	6.5-28.6	7.5-18.5	156-381	485	420	2700	560	150	791	168	75	30/45
076S03	18	10-20.5	11.18.5	167-265	550	450	3720	670	150	1163	168	76	30/45
076S04	24	10.2-20.2	11-18.5	167-265	550	450	4100	715	150	1535	168	76	30/45
076L01	6	20-62.4	7.5-18.5	135-360	485	420	2700	570	150	791	168	75	30/45
090S01	6	15-47	11-18.5	186-372	525	450	2620	675	150	500	203	89	36/54
090S02	12	18-35	15-18.5	167-265	525	450	3061	785	150	944	203	89	36/54
090S03	18	16-33	22-30	158-253	600	350	4320	940	150	1388	203	90	36/54
090S04	24	15-35	22-37	137-253	650	500	4857	1010	150	1832	203	90	36/54
090L01	6	34-106	11-30	141-372	252	450	3060	790	150	944	203	89	36/54
105S01	6	24-57	11-18.5	158-274	600	560	3100	1015	200	623	230	104	41/62
105S02	12	28-58	30-40	158-274	600	560	3650	1180	200	1179	230	104	41/62
105S03	18	29-56	30-40	158-249	630	580	4210	1410	200	1735	230	105	41/62
105S04	24	17-36	37-45	124-189	630	580	4770	1520	200	2291	230	105	41/62
105L01	6	55-119	22-37	137-249	600	560	3650	1170	200	1179	230	104	41/62
125S01	6	36-74	15-22	137-214	775	600	3890	1350	250	740	273	124	50/74
125S02	12	38-77	30-45	137-214	775	600	4550	1570	250	1400	273	124	50/74
125S03	18	16-60	37-60	135-220	895	600	6050	1880	250	2060	273	125	50/74
125S04	24	8-36	37-60	160-220	895	600	6710	2030	250	2720	273	125	50/74
125L01	6	82-160	22-37	106-191	775	600	4550	1580	250	1400	273	124	50/74



# CAVITY PUMPS









## Petroleum And Petrochemical Industries

- ❖ Crude oil transportation
- ❖ Rail unloading
- ❖ Explosives-atmospheres
- ❖ Isolation of the tank
- ❖ FPSO
- ❖ Underground storage tanks
- ❖ Marine applications

## SPHERES OF PROGRESSING CAVITY PUMPS APPLICATION



## Mining Industries

- ❖ Molybdenum sludge
- ❖ gold slurry
- ❖ Ammonium nitrate emulsion
- ❖ Copper treatment
- ❖ Explosives industry





## **Pulp And Paper Industry**

- ❖ Cellulose
- ❖ Filling agents
- ❖ Pigments
- ❖ Bonding materials
- ❖ Adhesives
- ❖ Chemical and reagents



## **Food Industry**

- ❖ Milk and milk derivatives
- ❖ Vegetable oil
- ❖ Minced meat
- ❖ Fruit purees
- ❖ Tomato paste and sauce
- ❖ Fillings with various inclusions
- ❖ Syrup, sugar pulp
- ❖ Squash, mash, press cake





## Water Purification And Water Supply

- ❖ Wastewater and slime water
- ❖ Groundwater with inclusions
- ❖ Fecal fluid
- ❖ Bog muck
- ❖ Chemical and reagents
- ❖ Flocculants

## SPHERES OF PROGRESSING CAVITY PUMPS APPLICATION

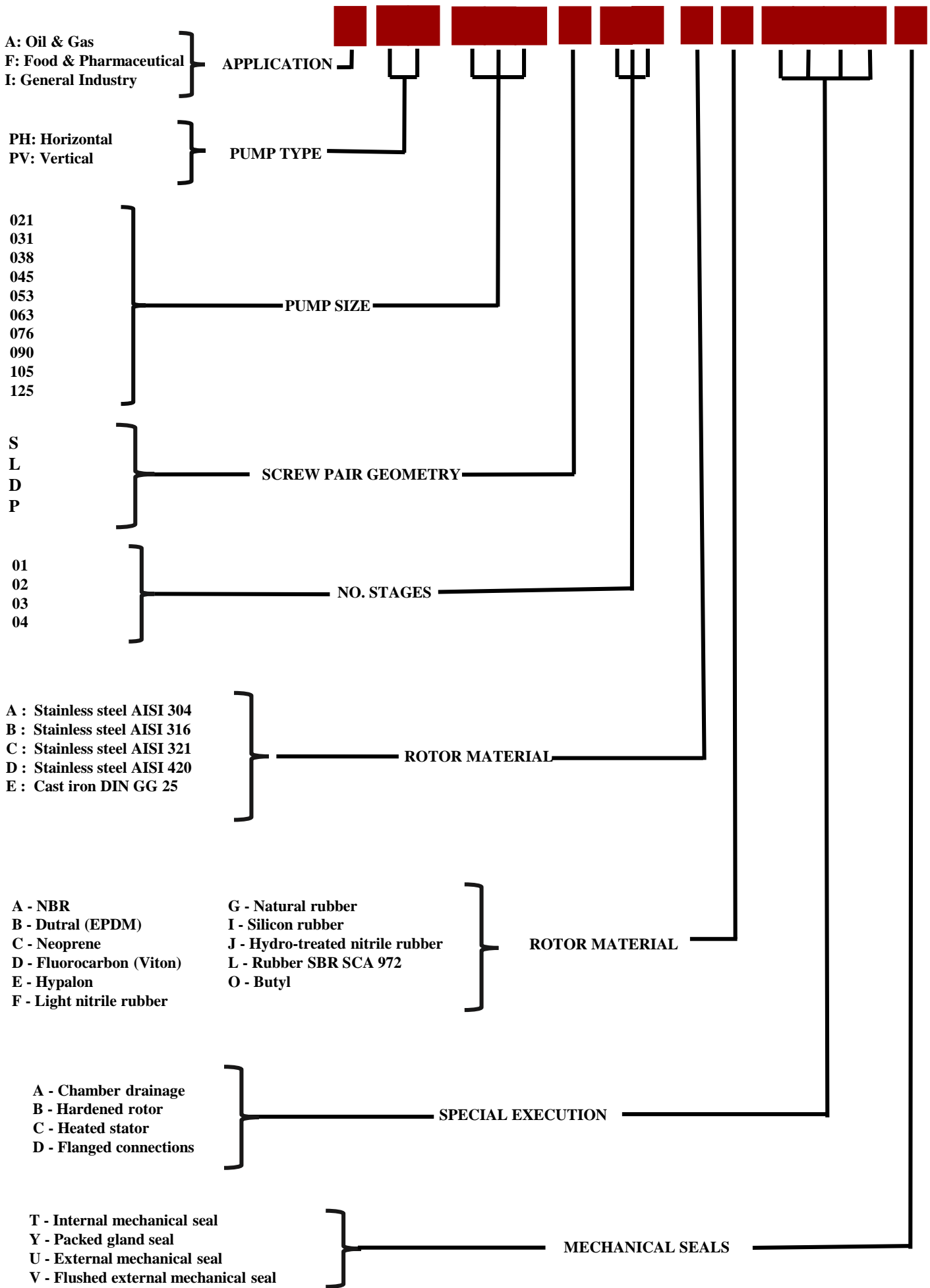


### Pharmaceutical And Cosmetic Industry

- ❖ Surfactant liquids
- ❖ Pastes and ointments
- ❖ Plasticizers
- ❖ Creams
- ❖ Vegetable and animal fats
- ❖ Chemicals and reagents
- ❖ Precise dosage



# PUMP CODES GUIDE FOR SINGLE SCREW PAIRS





Name of the Company .....

Contact numbers .....

Contact person .....

E-mail: .....

PARAMETERS	DESCRIPTION
Application (Oil & Gas/Food &Pharmaceutical/General Industry)	
Pump type (horizontal/vertical)	
Fluid name	
Capacity, m3 /h	
Inlet pressure, bar	
Outlet pressure, bar	
Fluid temperature (min/max) °C	
Density, kg/m 3	
Viscosity, cP	
PH	
Presence of particles	
Size of particles, mm	
Site ambient temperature (min/max), °C	
Diameter of suction / discharge pipes, mm	
Inlet/outlet connection type (flange/dairy fitting)	
Shaft seal type (stuffing box/mechanical/double mechanical)	
Installation location (indoor/outdoor)	

Additional options:

FEATURES	YES	NO	DESCRIPTION
Screw feeder			
Input neck			
Heating of pump chamber/screw pair			
CIP flushing of the unit			
Explosion-proof version			
Frequency converter			
Control system «dry run»			
Overpressure protection			
Special climatic version			



Name of the Company .....

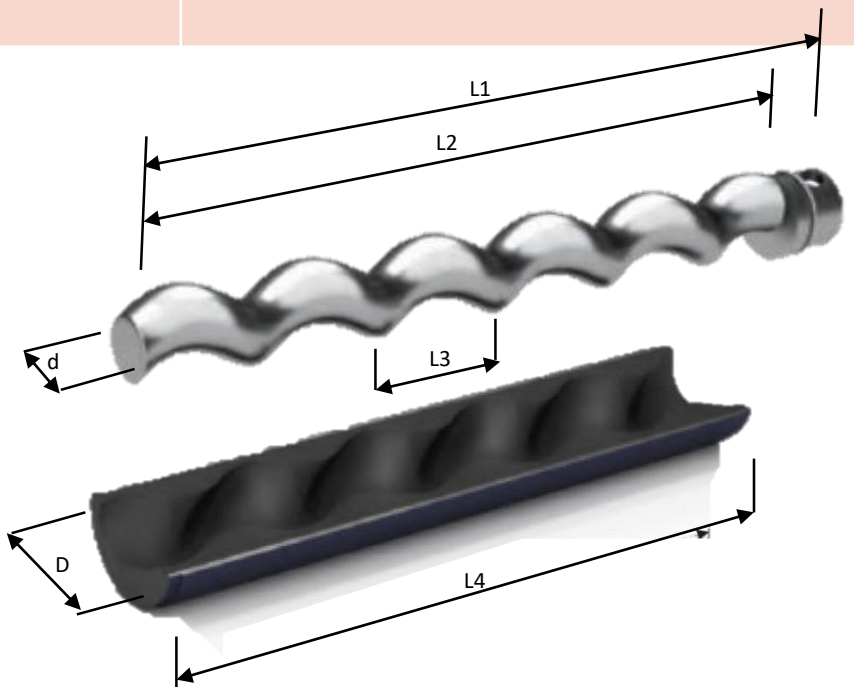
Contact numbers .....

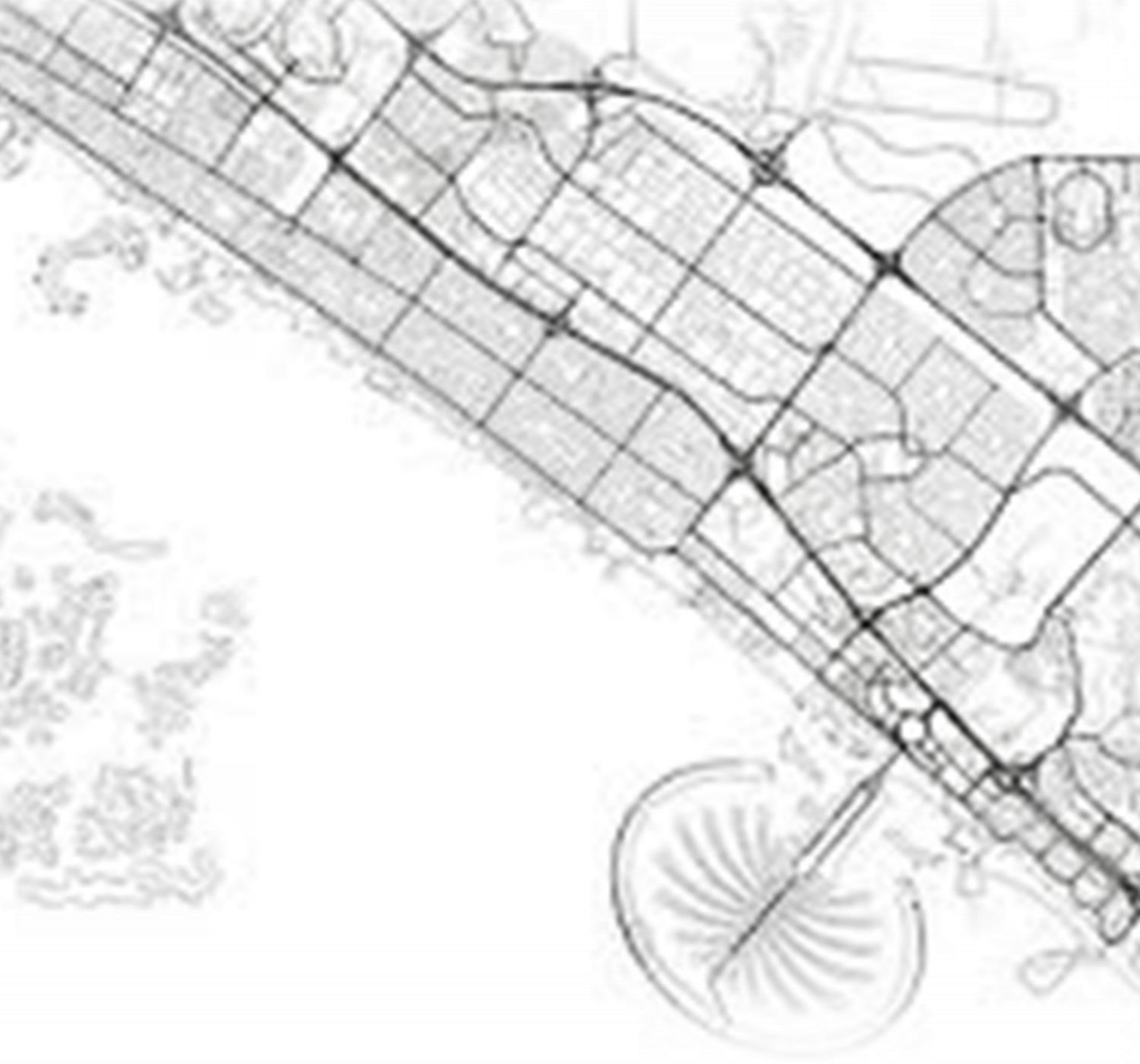
Contact person .....

E-mail: .....

PARAMETERS	DESCRIPTION
Original manufacturer (O&M)	
Pump model/Order number	
Fluid name	
Capacity, m3 /h	
Inlet pressure, bar	
Outlet pressure, bar	
Fluid temperature (min/max) °C	
Density, kg/m 3	
Viscosity, cP	
PH	
Presence of particles	
Size of particles, mm	
Site ambient temperature (min/max), °C	
Diameter of suction / discharge pipes, mm	
Rotor material	
Stator material	
Screw pair geometry type (S/L/D/P)	

PARAMETERS	VALUES
L1, mm	
L2, mm	
L3, mm	
L4, mm	
d, mm	
D, mm	





**Tariq Alsafeena**

DUBIA

TEL: +971581827857

P.O.BOX: 9717 Dubai UAE

EMAIL: [T.alsafeena@gmail.com](mailto:T.alsafeena@gmail.com)

[www.TariqAlsafeena.com](http://www.TariqAlsafeena.com)