

# ***JUNG SOO*** **PUMPS**

**Screw**

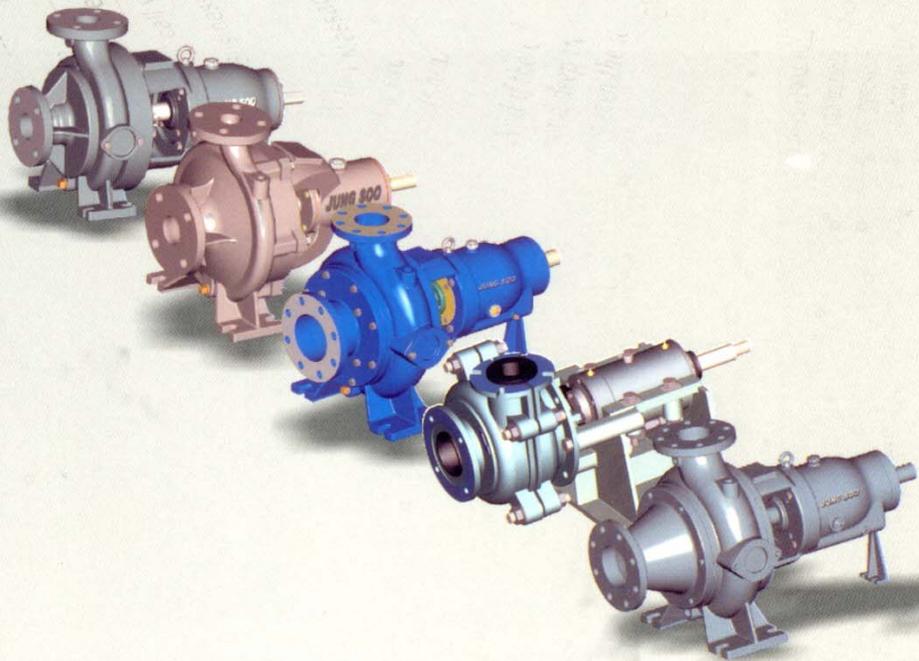
**Hilo** CERTIFICATE OF PATENT NO:10-0819139

**Spurt**

**Warman**

**Volute**

**Chemical**



**(株)正水플로우텍**  
JUNGSOO FLOW TECH CO., LTD.



■ **JSI** SCREW IMPELLER TYPE PUMPS

4p

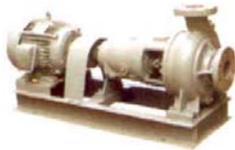
○하수 및 정수처리용 ○일반 산업용 ○화학 산업용 ○화력 발전소용  
○일반 공업용 ○건설업, 채석업 ○제철소, 제련소  
Sewage & water purification/General industry/Chemical industry/Power Plant  
Construction/Quarring/Steel mill, Refinery mill,



■ **Hilo** OPEN IMPELLER TYPE PUMPS

6p

○각종 수처리 분야 ○제지, 피혁, 식품 공업용 ○섬유, 금속, 제당, 유리, ○주정, 전분,  
요업, 건설등 ○축산업, 수산업  
Water treatment/Paper, leather, food industry/Textile, Metal working, Sugar, Glass  
industry/Ethyl alcohol, Starch, Ceramic, Construction, Livestock industry, Fisheries,



■ **JNP** NON-CLOG PUMPS

8p

○각종 수처리 분야 ○제지, 피혁, 식품 공업용 ○섬유, 금속, 제당, 유리,  
○주정, 전분, 요업, 건설등 ○축산업, 수산업  
Water treatment/Paper, leather, food industry/Textile, Metal working, Sugar, Glass  
industry/Ethyl alcohol, Starch, Ceramic, Construction, Livestock industry, Fisheries,



■ **JSP** SPURT PUMPS

10p

○화학공업 ○제지공업, 폐기물 처리용 ○골재 플랜트, 토사, 배수용  
○오니, 분뇨, 하수 슬러지 이송용  
Chemical industry/Paper & waste treatment/Aggregate, Earth & sand, Drainage  
/Sludge, Night soil/Sewage sludge transport



■ **JWS** WARMAN PUMPS (Low Head Type)

12p

○일반 산업용 ○화학 산업용 ○화력 발전소용 ○일반 공업용  
○건설업, 채석업 ○제철소, 제련소  
General & Chemical industry, Firepower plant/Construction, Quarring, Steel  
Refinery mill,



■ **JWH** WARMAN PUMPS (High Head Type)

14p

○일반 산업용 ○화학 산업용 ○화력 발전소용 ○일반 공업용  
○건설업, 채석업 ○제철소, 제련소  
General & Chemical industry, Firepower plant/Construction, Quarring, Steel  
Refinery mill,



■ **JWP** WARMAN TYPE PUMPS

16p

○일반 산업용 ○화학 산업용 ○화력 발전소용 ○일반 공업용  
○건설업, 채석업 ○제철소, 제련소  
General & Chemical industry/Firepower plant/Construction, Quarring, Steel refine mill



**JV** VORTEX PUMPS 18p

◯빌딩의 정화조용 ◯오수, 오물, 배수용 ◯식품 폐기물 처리용  
 ◯화학 플랜트, 공장 폐수처리용 ◯하수 처리용  
 Water purification tank for building/Sludge, Night soil/Sewage sludge transport  
 /Food waste disposal/Chemical plant, Factory waste treatment/Sewage treatment



**JHC** VOLUTE PUMPS 20p

◯일반 산업용 ◯공업용수 공급용 ◯급수 시설용 ◯농업 관개용 ◯냉난방 순환용  
 ◯산, 알카리, 유기 및 무기화학용  
 General industry/industrial water/Water supply/Agriculture Irrigation  
 /Air conditioning & Heating/Acid, Alkali, Organic & Inorganic Chemical use.



**JMT** MULTI-STAGE PUMPS 22p

◯일반 산업용 ◯급수시설 및 빌딩 소화전용 ◯스프링 쿨러, 냉난방 순환용  
 ◯화학 공업용 ◯고층 건물 급수용 ◯고압 이송용  
 General industry/Water supply & Building Fire hydrant/Spring cooler (water curtain)  
 /Air conditioning & Heating/Chemical industry/High rising water supply/High pressure transfer.



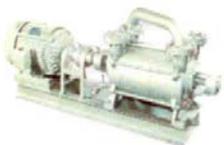
**JFR** F.R.P PUMPS 24p

◯화학 공업용 ◯도금 공장용 ◯염색 공장용 ◯약품 폐수 처리용  
 Chemical Industrial/Plating mill/Dye works/Medical waste water treatment



**JVT** VERTICAL PUMPS 26p

◯각종 수처리분야(폐수) ◯오, 폐수 배수용 ◯일반 수처리용  
 Various water treatment/Sewage, waster water treatment/General water treatment



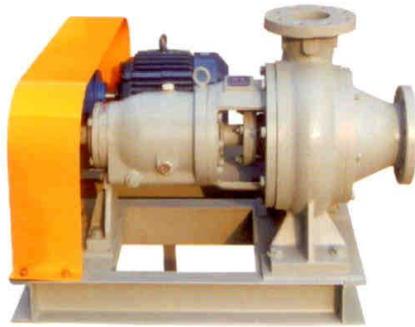
**JVP** VACUUM PUMPS 28p

◯탈수 건조용 ◯대형펌프 플라임용 ◯피혁공장 탈수용 ◯진공 여과기용 ◯응축 배기용  
 Dehydration, drying/Big pump's priming/Dehydration in leather plant/Vacuum  
 strainer/Condensation ventilation



**JSB** SUBMERSIBLE PUMPS 30p

◯도축, 도계장 배수 ◯정화조 원수이송 ◯분뇨, 및 고형물이송 ◯폐수, 하수처리장  
 Slaughter's drainage/Septic tank's raw water transportation/night soil,  
 sewage & solid materials treatment.



**Applications**

- ◆ 각종 수처리 분야 ◆ 일반 산업용
- ◆ 화학 산업용 ◆ 화력 발전소용 ◆ 일반 공업용
- ◆ 건설업, 채석업 ◆ 제철소, 제련소
  
- ◆ Sewage treatment
- ◆ General industry
- ◆ Chemical
- ◆ Power plant
- ◆ Primary metals
- ◆ Building Steel mill

**Features**

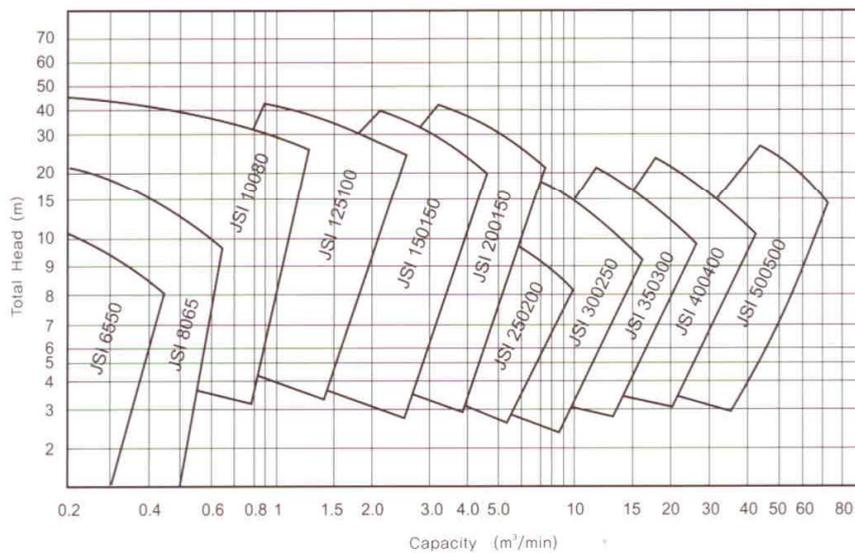
- ◆ Screw type impeller
- ◆ V-Belt 형식으로 설치면적이 적다.
- ◆ 구조가 간단하고, 분해 조립이 쉬운 구조로 되어있다.
- ◆ 접액부의 재질 변경가능
- ◆ V-Belt requires small installation size.
- ◆ Simple structure makes it easy to assemble and disassemble.
- ◆ Contacted surface material can be changed.



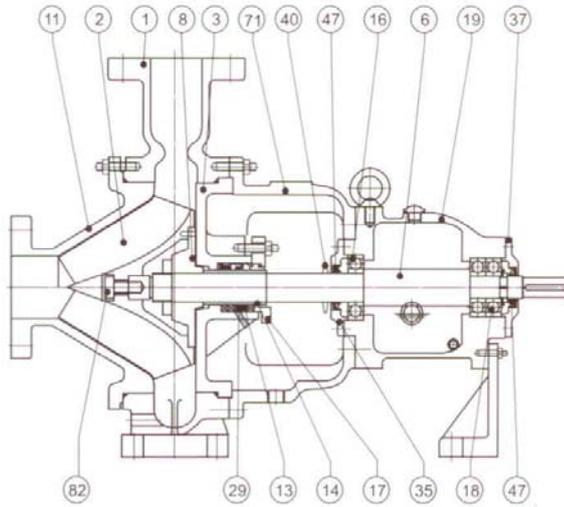
**Design Ratings**

- Size : up to 500 mm
- Capacity : up to 30 m<sup>3</sup>/min
- Head : up to 50 m
- Revolution : V-Belt - 60Hz
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

**Selections Chart**



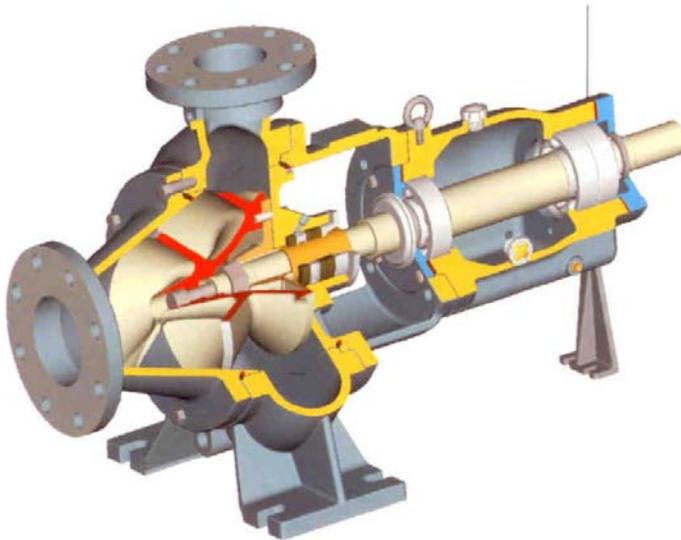
Materials



NO	PART NAME	MATERIAL		
01	Casing	GC200	SSC13	Hi-Cr
02	Impeller	SSC13	SSC13	Hi-Cr
03	Stuffing Box	GC200	SSC13	Hi-Cr
06	Shaft	SM45C	STS304	STS304
08	Impeller Flange	SSC13		
11	Casing Cover	GC200	SSC13	Hi-Cr
13	Gland Packing	TEFLON		
14	Sleeve	STS304		
16	Bearing	STB2		
17	Gland	GC200	SSC13	Hi-Cr
18	Bearing	STB2		
19	Bearing Housing	GC200		
29	Lantern Ring	BRC3	STS304	
35	Bearing Cover	GC200		
37	Bearing Cover	GC200		
40	Deflector	RUBBER		
47	Oil Seal	NBR		
71	Adapter	GC200		
82	Impeller Set Bolt	STS304		

◆ 임펠러축에 고하중용 베어링을 장착하여 중하중, 충격 및 고속 회전에 가능하도록 하였고 축방향과 원주 방향의 하중을 충분히 견디도록 설계되었다.

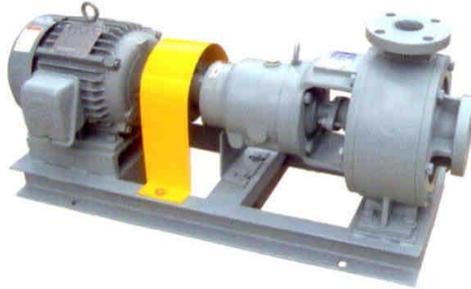
◆ Mount high-load bearing on impeller shaft, it is good for high load, high speed rotation and impact. Also it is designed to endure loads of shaft direction and circumference.



◆ 나선형에 의한 임펠러로서 스크류흡입 부분과 원심 부분이 복합된, 형태로 긴 섬유질 혹은 고형물등을 이송하기에 적합 하도록 설계되어있다.

◆ Spiral impeller which is combined screw suction part with centrifugal part, is designed for the transportation of long fibers or solid materials.

# Model Hilo Open-Impeller Type



CERTIFICATE OF PATENT NO:10-0819139  
(흡입효율이 향상된 임펠러를 이용한 펌프)



## Design Ratings

- Size : up to 300 mm
- Capacity : up to 20 m<sup>3</sup>/min
- Head : up to 30 m
- Revolution : 1750, 1180 rpm - 60Hz
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

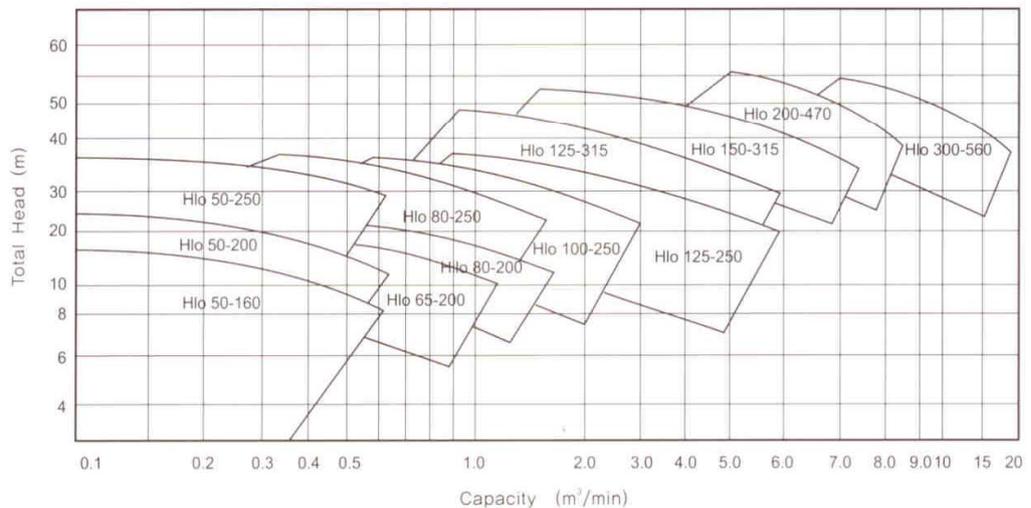
## Applications

- ◆ 각종 수처리 분야
- ◆ 제지, 피혁, 식품 공업용
- ◆ 섬유, 금속, 제당, 유리, 주정, 전분, 요업, 건설등
- ◆ 축산업, 수산업
- ◆ Water treatment ◆ Paper, leather, food industry ◆ Textile,
- ◆ Metal working, Sugar, Glass industry ◆ Ethyl alcohol, Starch, Ceramic, Construction, Livestock industry, Fisheries

## Features

- ◆ 인듀서를 이용한 흡입효율의 향상
- ◆ Open impeller 고품질의 무손상 이송
- ◆ 임펠러 구조 Open impeller Type
- ◆ 액체의 종류 및 성질에 따라 Mechanical Seal을 장착할 수 있다.
- ◆ 유지보수의 편리성을 위한 후방 분해구조 (Back pull-out)로 되어있다.
- ◆ 구조가 간단하고, 분해 조립이 쉬운 구조로 되어있다.
- ◆ 접액부의 재질 변경가능
- ◆ Improvement of suction efficiency by use of inducer.
- ◆ Non clog impeller is for solid materials intact transportation
- ◆ Impeller structure can be varied open.
- ◆ Mechanical is applicable according to liquid's properties.
- ◆ Back pull out structure for easy maintenance
- ◆ Contacted surface material can be changed.

## Selections Chart



## Specification

Specification

1750 rpm

Model Size	Size	Capacity (m <sup>3</sup> /min)	Head(m)	Power (kw)
	Suc. x Disc.			
Hlo 40 -150	40x40	0,2	10	1,5
Hlo 40 -165	40x40	0,2	13	2,2
Hlo 50 -165	50x50	0,4	13	2,2
Hlo 50 -190	50x50	0,4	18	3,7
Hlo 50 -250	50x50	0,4	30	5,5
Hlo 65 -210	65x65	0,6	20	5,5
Hlo 80 -190	80x80	0,4	18	3,7
Hlo 80 -210	80x80	0,8	20	7,5
Hlo 80 -225	80x80	1,0	25	11
Hlo 100 -225	100x100	1,0	25	11
Hlo 100 -125	100x100	1,5	27	15
Hlo 125 -250	125x125	2,0	27	19



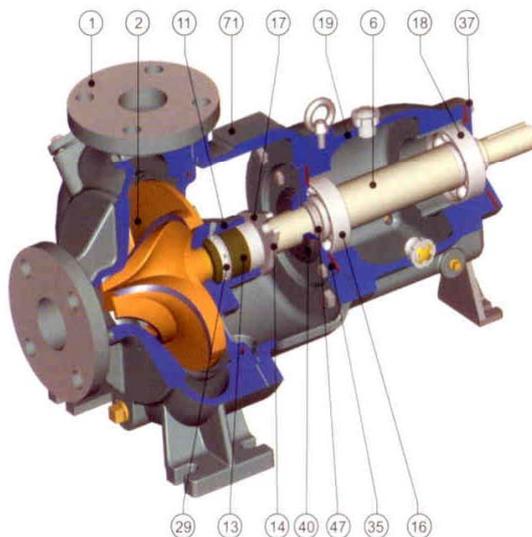
1160 rpm

Model Size	Size	Capacity (m <sup>3</sup> /min)	Head(m)	Power (kw)
	Suc. x Disc.			
Hlo 125 -290	125x125	2,0	30	22
Hlo 150 -290	150x150	4,0	20	30
Hlo 150 -380	150x150	4,0	25	37
Hlo 200 -400	200x200	10	10	37
Hlo 200 -470	200x200	10	22	75
Hlo 250 -470	250x250	12	20	75
Hlo 300 -510	300x300	15	15	95
Hlo 300 -560	300x300	20	20	150



## Materials

Materials



- |    |                 |              |
|----|-----------------|--------------|
| 1  | Casing          | GC200        |
| 2  | Impeller        | SSC13        |
| 6  | Shaft           | SM45C/STS304 |
| 11 | Stuffing Box    | GC200        |
| 13 | Packing         | TEFLON       |
| 14 | Shaft Sleeve    | STS304       |
| 16 | Front Bearing   | STEEL        |
| 17 | Packing Gland   | GC200        |
| 18 | Back Bearing    | STEEL        |
| 19 | Bearing Housing | GC200        |
| 29 | Lantern Ring    | BC6          |
| 35 | F-Bearing Cover | GC200        |
| 37 | B-Bearing Cover | GC200        |
| 40 | Deflector       | RUBBER       |
| 47 | Oil Seal        | RUBBER       |
| 71 | Adapter         | GC200        |

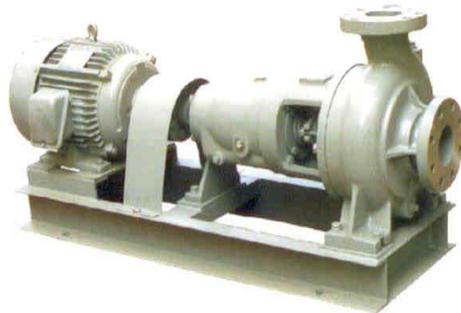
Model

**JNP**

Non-Clog Type Solids Handling Pumps

### Applications

- ◆ 각종 수처리 분야
- ◆ 제지, 피혁, 식품 공업용
- ◆ 섬유, 금속, 제당, 유리, 주정, 전분, 요업, 건설등
- ◆ 축산업, 수산업
- ◆ Water treatment ◆ Paper, leather, food industry ◆ Textile,
- ◆ Metal working, Sugar, Glass industry ◆ Ethyl alcohol, Starch, Ceramic, Construction, Livestock industry, Fisheries,



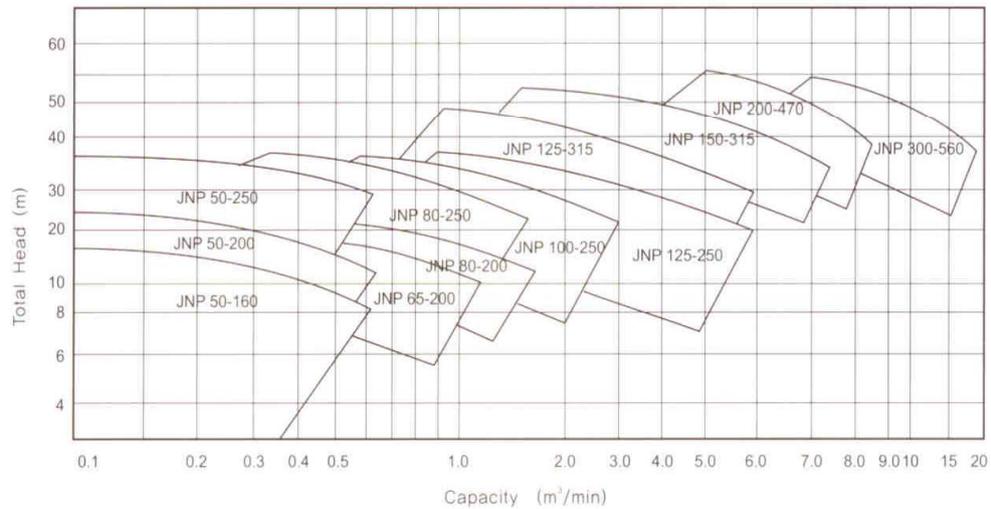
### Features

- ◆ Non clog impeller 고행물의 무손상 이송
- ◆ 임펠러 구조 Open / Closed impeller 적용가능
- ◆ 액체의 종류 및 성질에 따라 Mechanical Seal을 장착할 수 있다.
- ◆ 유지보수의 편리성을 위한 후방 분해구조 (Back pull-out)로 되어있다.
- ◆ 구조가 간단하고, 분해 조립이 쉬운 구조로 되어있다.
- ◆ 접액부의 재질 변경가능
- ◆ Non clog impeller is for solid materials intact transportation,
- ◆ Impeller structure can be varied open or close,
- ◆ Mechanical is applicable according to liquid's properties,
- ◆ Back pull out structure; for easy maintenance
- ◆ Contacted surface material can be changed,

### Design Ratings

- ◆ Size : up to 300 mm
- ◆ Capacity : up to 20 m<sup>3</sup>/min
- ◆ Head : up to 30 m
- ◆ Revolution : 1750, 1180 rpm - 60Hz
- ◆ Temperature : Cast Iron - max 100 °C
- ◆ Flange : Location [ End Suction, Top Discharge ] Standard - KS
- ◆ Sealing : Standard - Packing / Option - Mechanical Seal

### Selections Chart



## Specification

1750 rpm

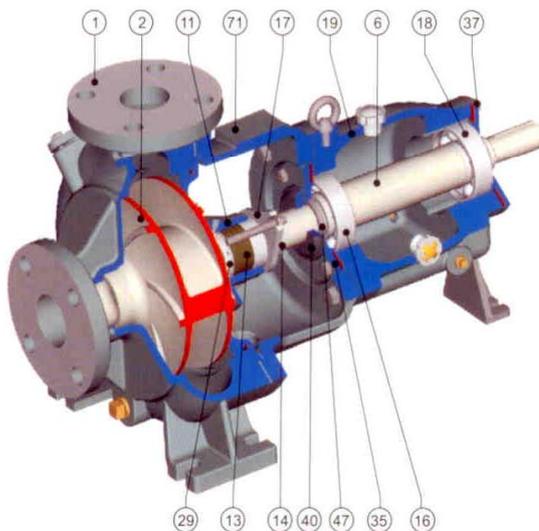
Model Size	Size	Capacity (m <sup>3</sup> /min)	Head(m)	Power (kw)
	Suc. x Disc.			
JNP 40 -150	40x40	0,2	10	1,5
JNP 40 -165	40x40	0,2	13	2,2
JNP 50 -165	50x50	0,4	13	2,2
JNP 50 -190	50x50	0,4	18	3,7
JNP 50 -250	50x50	0,4	30	5,5
JNP 65 -210	65x65	0,6	20	5,5
JNP 80 -190	80x80	0,4	18	3,7
JNP 80 -210	80x80	0,8	20	7,5
JNP 80 -225	80x80	1,0	25	11
JNP 100 -225	100x100	1,0	25	11
JNP 100 -125	100x100	1,5	27	15
JNP 125 -250	125x125	2,0	27	19

1160 rpm

Model Size	Size	Capacity (m <sup>3</sup> /min)	Head(m)	Power (kw)
	Suc. x Disc.			
JNP 125 -290	125x125	2,0	30	22
JNP 150 -290	150x150	4,0	20	30
JNP 150 -380	150x150	4,0	25	37
JNP 200 -400	200x200	10	10	37
JNP 200 -470	200x200	10	22	75
JNP 250 -470	250x250	12	20	75
JNP 300 -510	300x300	15	15	95
JNP 300 -560	300x300	20	20	150

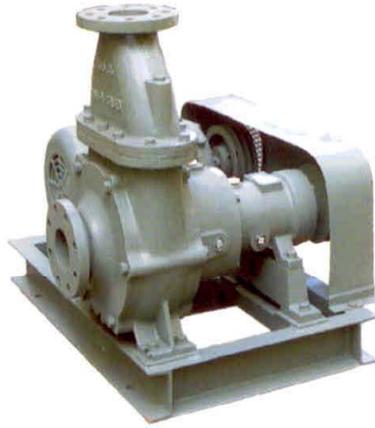
## Materials

Materials



1	Casing	GC200
2	Impeller	GC200/BC6
6	Shaft	SM45C/STS304
11	Stuffing Box	GC200
13	Packing	TEFLON
14	Shaft Sleeve	STS304
16	Front Bearing	STEEL
17	Packing Gland	GC200
18	Back Bearing	STEEL
19	Bearing Housing	GC200
29	Lantern Ring	BC6
35	F-Bearing Cover	GC200
37	B-Bearing Cover	GC200
40	Deflector	RUBBER
47	Oil Seal	RUBBER
71	Adapter	GC200

# Model JSP Spurt Pumps



## Applications

- ◆ 화학공업
- ◆ 제지공업, 폐기물 처리용
- ◆ 골재 플랜트, 토사, 배수용
- ◆ 오니, 분뇨, 하수 슬러지 이송용
- ◆ Chemical industry
- ◆ Paper & waste treatment
- ◆ Aggregate, Earth & sand, Drainage
- ◆ Sludge, Night soil ◆ Sewage sludge transport

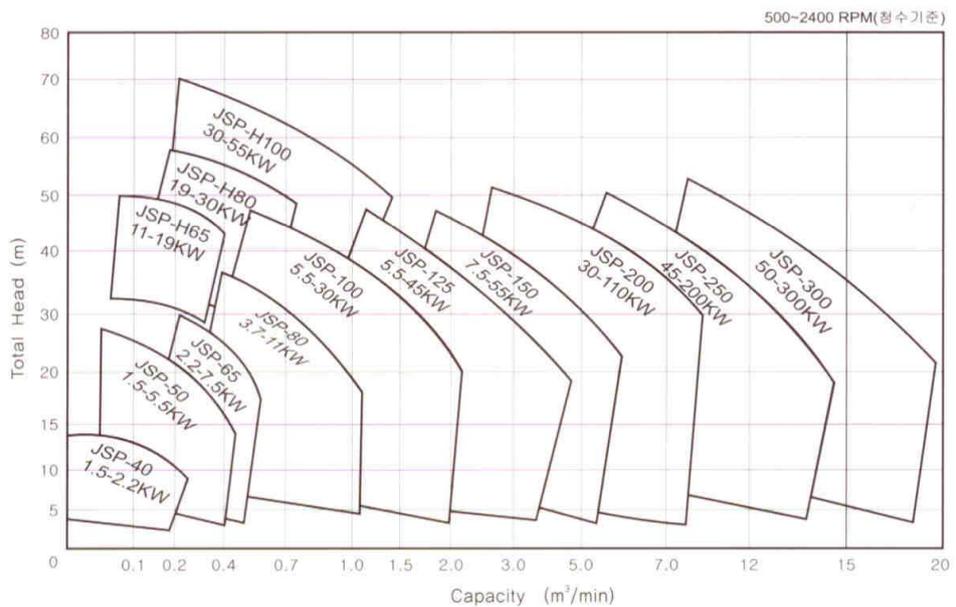
## Features

- ◆ Non-clog impeller
- ◆ V-Belt 형식으로 시방조정이 가능하다.
- ◆ 부품의 표준화로 최대의 호환성 유지
- ◆ 액질의 종류에 따라 특수재질 적용 가능
- ◆ Non-clog impeller
- ◆ V-Belt enables specification adjustment
- ◆ Standardization of part supports maximum interchangeable
- ◆ Special material can be choosed according to liquid type

## Design Ratings

- Size : up to 300 mm
- Capacity : up to 26 m<sup>3</sup>/min
- Head : up to 60 m
- Revolution : 1000 - 2600 rpm - 60Hz
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Mechanical Seal

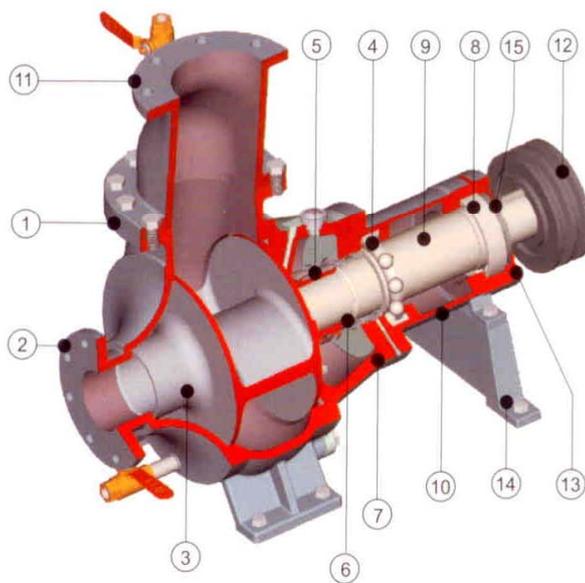
## Selections Chart



## Specification

TYPE	구 경 (mm)		유 량 (m <sup>3</sup> /min)		전 압 정 (m)		축 마 력 (Kw)		회 전 수 (r p m)		흡 입 정 (m)	최 대 자 흡 거 리 (m)		최 대 점 도 (C.P)		최 대 슬 러 리 농 도 (%)		최 대 입 도 경 (mm)						
	흡 입	토 출	최 소	최 대	최 소	최 대	최 소	최 대	최 소	최 대		중 직	수 평	압 입	흡 상	압 입	흡 상							
JSP 40	40	40	0,05	0,3	1,2	15	0,75	2,2	700	2600	8	1,0	2,0	5500	2500	50	22	43						
JSP 50	50	50	0,15	0,8		30	1,5	5,5	730	2400		1,2	2,5						7000	3000	60	25	45	
JSP 65	65	65	0,20	1,2		33	2,2	7,5	700	2300		1,3	3,0											8000
JSP 80	80	80	0,40	1,7	1,4	35	3,7	15	620	2000		1,4		9000	4000	70	30	90						
JSP 100	100	100	0,80	3,0	1,5	40	3,7	30	1800	1,5		12000							5000	70	35	180		
JSP 125	125	125	1,00	5,0	1,6		5,5	40	580	1600			1,6	2,0	4,0	130								
JSP 150	150	150	1,50	7,0	1,7	45	7,5	100	1400	2,5			5,0				180							
JSP 200	200	200	2,00	13,0	2,5		15	150	520	1200		3,0		6,0	225									
JSP 300	300	300	3,00	26,0	3,0	60	50	400	460	1000														

## Materials



- |    |                   |               |
|----|-------------------|---------------|
| 15 | Bearing Nut       | SS 41         |
| 14 | Support           | GC 200        |
| 13 | Bearing Cover     | GC 200        |
| 12 | V-Pulley          | GC 200        |
| 11 | Self Priming Tank | GC 200        |
| 10 | Bearing Frame     | GC 200        |
| 9  | Shaft             | SM 45C        |
| 8  | Thrust Bearing    | BEARING STEEL |
| 7  | Adapter           | GC 200        |
| 6  | Shaft Sleeve      | STS 304       |
| 5  | Mechanical Seal   | TC + TC       |
| 4  | Radial Bearing    | BEARING STEEL |
| 3  | Impeller          | GC200         |
| 2  | Casing Cover      | GC200         |
| 1  | Casing            | GC200         |



METAL & RUBBER

### Applications

- ◆ 광산용
- ◆ 화력발전소
- ◆ 화학, 석탄, 석유, 시멘트공업
- ◆ 제지, 식품, 요업, 제염업
- ◆ 제철소, 제련소
- ◆ General & Chemical industry, Firepower plant
- ◆ Construction, Quarring, Steel refinery mill

### Features

- ◆ Non-clog impeller 사용으로 막힘이 없다
- ◆ V-Belt type으로 설치 면적이 적다
- ◆ 신뢰성이 높고 견고한 구조로 설계되어 있다
- ◆ 최대의 환환성을 보장한다
- ◆ 구조가 간단하여 부해 조립이 쉽다
- ◆ Non-clog impeller is trouble free in operation.
- ◆ V-Belt requires small installation size.
- ◆ Designed for high reliability and firm structure.
- ◆ Guarantee maximum compatibility
- ◆ Simple structure; easy assemble and disassemble.

### Design Ratings

- Size : up to 250 mm
- Capacity : up to 14 m<sup>3</sup>/min
- Head : up to 50 m
- Revolution : 3400, 1140 rpm - 60Hz
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal



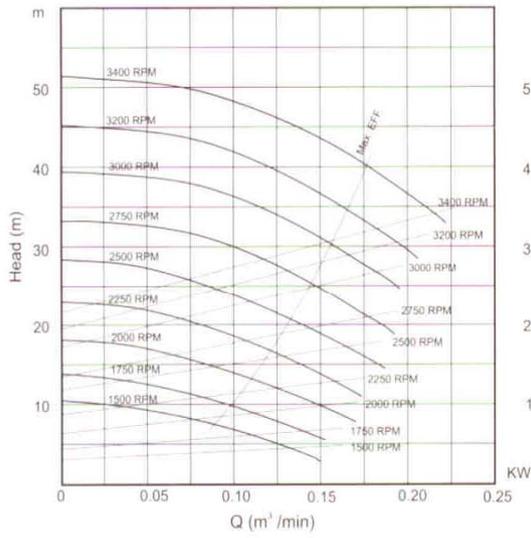
### Standard Spec.

펌프구경 (Pump Size)	적용범위 (Ratings)		최고회전속도 (Max.rpm)		중량 (Weight) Kg
	Capacity(m <sup>3</sup> /min)	Head (m)	Rubber (Impeller)	Metal (Impeller)	
mm					
25 x 20	0.02 ~ 0.22	6 ~ 50	3400	3400	45
80 x 50	0.15 ~ 1.00	6 ~ 45	2600	2760	120
100 x 80	0.50 ~ 2.20	6 ~ 48	2000	2280	215
150 x 100	0.85 ~ 3.50	6 ~ 50	1600	1750	380
200 x 150	2.20 ~ 8.50	6 ~ 50	1300	1400	820
250 x 200	3.80 ~ 14.0	6 ~ 48	1000	1140	1450

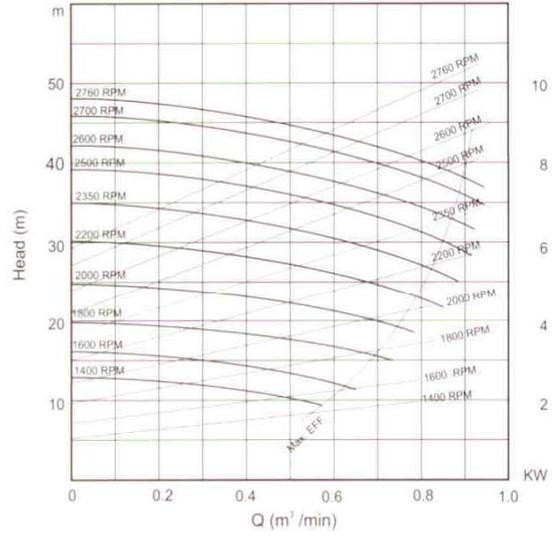
# Selections Chart

Selections Chart

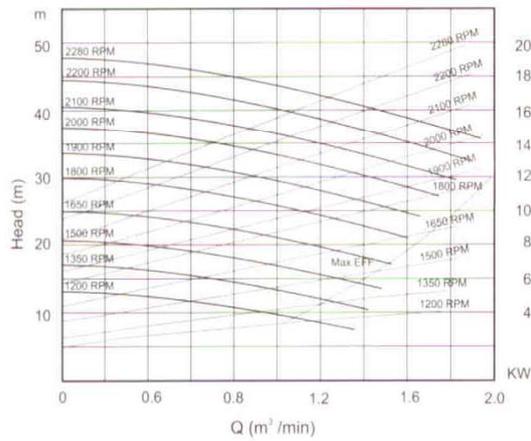
### JWS 2520



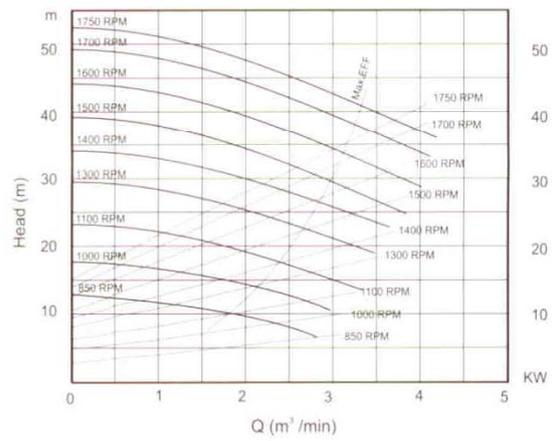
### JWS 8050



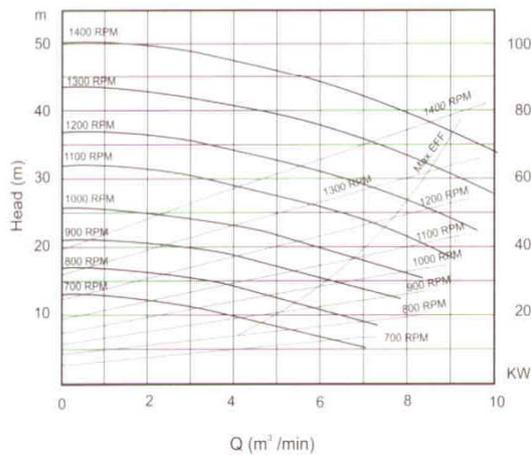
### JWS 10080



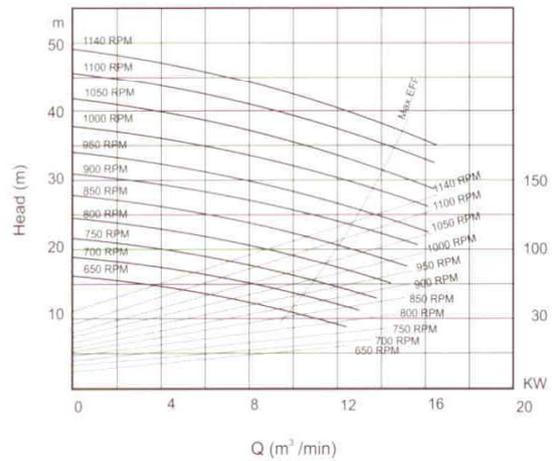
### JWS 150100



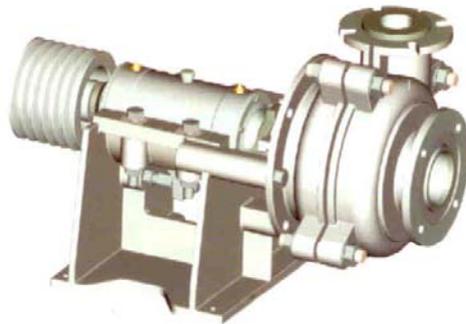
### JWS 200150



### JWS 250200



**Model JWH Slurry Pumps : WARMAN PUMP (HIGH HEAD TYPE)**



**Applications**

- ◆ 광산용
- ◆ 화력발전소
- ◆ 화학, 석탄, 석유, 시멘트공업
- ◆ 제지, 식품, 요업, 제염업
- ◆ 제철소, 제련소
- ◆ General & Chemical industry, Firepower plant
- ◆ Construction, Quarring, Steel refinery mill

**Features**

- ◆ 케이싱은 이중 구조로 설계되어 있어 부품 교환으로 반 영구적으로 사용할 수 있다.
- ◆ 접액부의 재질은 각종 내산, 내마모고무, 금속등 액질에따라 임의로 선정할 수 있다.
- ◆ 구조가 간단하여 분해 조립이 쉽다.
- ◆ Dual structure casing is for easy parts exchange and semi permanently.
- ◆ Contacted surface material can be choosed according to anti-acid, anti-friction rubber or metal.
- ◆ Simple structure easy assemble and disassemble.

**Design Ratings**

- Size : up to 450 mm
- Capacity : up to 68 m<sup>3</sup>/min
- Head : up to 78 m
- Revolution : 350~3500 rpm - 60Hz
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal



METAL & RUBBER



EXPELLER

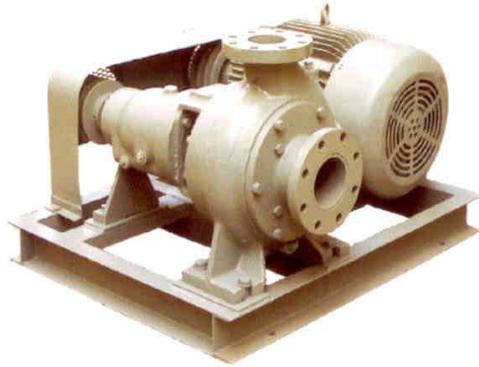
**Standard Spec.**

Pump Size mm	Capacity m <sup>3</sup> /min	Head m	최고회전속도 (Max.rpm)		중량 (Weight) ~ Kg
			Rubber (Impeller)	Metal (Impeller)	
40 x 25	0.05 ~ 0.50	6 ~ 60	3000	3500	100
80 x 50	0.35 ~ 1.50	6 ~ 66	2200	2600	200
100 x 80	0.70 ~ 2.70	6 ~ 55	2080	2300	390
150 x 100	1.50 ~ 5.80	6 ~ 60	1250	1555	770
200 x 150	3.00 ~ 12.0	6 ~ 75	950	1140	1920
250 x 200	7.50 ~ 16.0	6 ~ 48	-	1100	2100



# Model JWP

## Slurry Pumps : WARMAN TYPE PUMP IMPELLER, LINER



### Applications

- ◆ 일반 산업용
- ◆ 화학 산업용
- ◆ 화력 발전소용
- ◆ 일반 공업용
- ◆ 건설업, 채석업
- ◆ 제철소, 제련소
- ◆ General & Chemical industry
- ◆ Firepower plant
- ◆ Construction, Quarring, Steel refinery mill

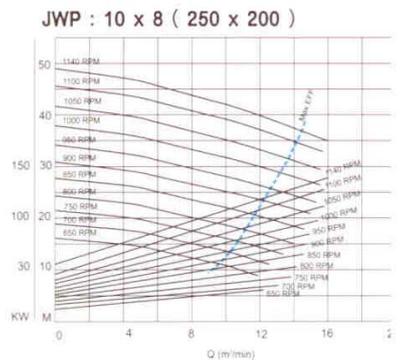
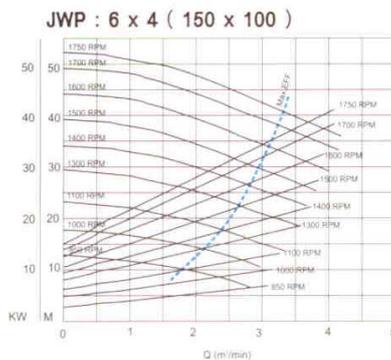
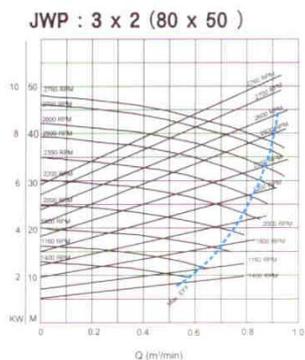
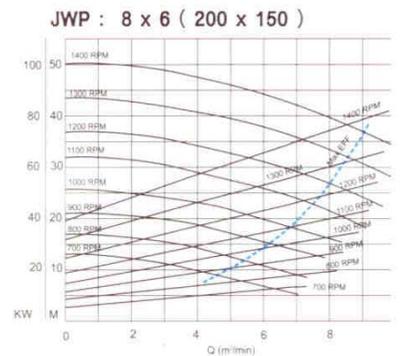
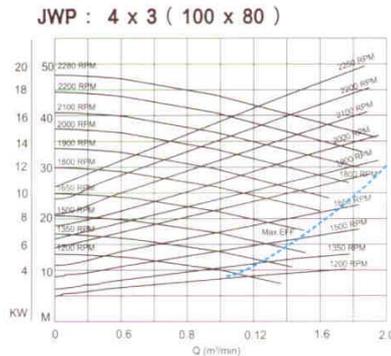
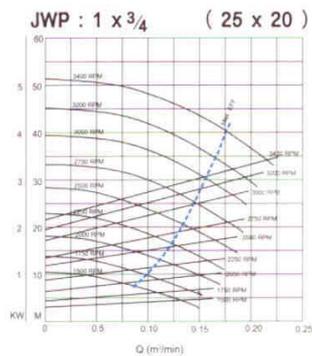
### Features

- ◆ Non-clog impeller
- ◆ V-Belt 형식으로 설치면적이 적다.
- ◆ 구조가 간단하고, 분해 조립이 쉬운 구조로 되어있다.
- ◆ 접액부의 재질 변경가능
- ◆ WARMAN PUMP IMPELLER, LINER 채택
- ◆ Non-clog impeller
- ◆ V-Belt requires small installation size,
- ◆ Simple structure makes it easy to assemble and disassemble,
- ◆ Contacted surface material can be changed,
- ◆ Adopt warman Type Impeller

### Design Ratings

- Size : up to 250 mm
- Capacity : up to 16 m<sup>3</sup>/min
- Head : up to 50 m
- Revolution : V-Belt
- Temperature : Cast Iron - max 150 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

### Selections Chart



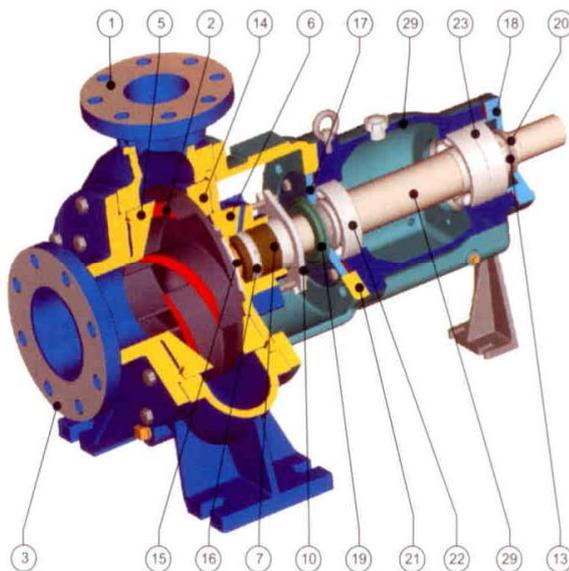
## Specification

Specification

Pump Size (mm)	Ratings		Max. Rpm
	Capacity (m <sup>3</sup> /min)	Head (m)	
JWP 25 x 20	0.02 ~ 0.22	6 ~ 50	3400
JWP 80 x 50	0.15 ~ 1.00	6 ~ 45	2760
JWP 100 x 80	0.50 ~ 2.20	6 ~ 48	2280
JWP 150 x 100	0.85 ~ 3.50	6 ~ 50	1750
JWP 200 x 150	2.20 ~ 8.50	6 ~ 50	1400
JWP 250 x 200	3.80 ~ 14.0	6 ~ 48	1140

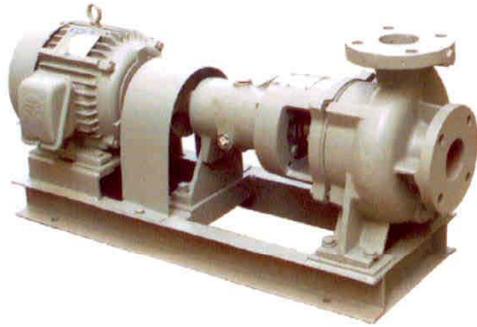
## Materials

Materials



- |    |                     |         |
|----|---------------------|---------|
| 1  | Casing              | 24Cr-Fc |
| 2  | Impeller            | 24Cr-Fc |
| 3  | Suction Cover       | 24Cr-Fc |
| 4  | Shaft               | SM45C   |
| 5  | Suction Liner       | 24Cr-Fc |
| 6  | Stuffing Box        | 24Cr-Fc |
| 7  | Packing             | TEFLON  |
| 9  | Shaft Sleeve        | STS304  |
| 10 | Packing Gland       | GC200   |
| 11 | Thrust Bearing      | STEEL   |
| 12 | Bearing Housing     | GC200   |
| 13 | Bearing Nut         | SS41    |
| 14 | Expeller Ring       | 24Cr-Fc |
| 15 | Expeller            | 24Cr-Fc |
| 16 | Lantern Ring        | BC6     |
| 17 | Front Bearing Cover | GC200   |
| 18 | Back Bearing Cover  | GC200   |
| 19 | Deflector           | RUBBER  |
| 20 | Oil Seal            | RUBBER  |
| 21 | Adapter             | GC200   |

**Model JV Vortex Pumps**



**Applications**

- ◆ 빌딩의 정화조용
  - ◆ 오수, 오물, 배수용
  - ◆ 식품 폐기물 처리용
  - ◆ 화학 플랜트, 공장 폐수 처리용
  - ◆ 하수 처리용
- ◆ Water purification tank for building
  - ◆ Sludge, Night soil
  - ◆ Sewage sludge transport
  - ◆ Food waste disposal
  - ◆ Chemical plant, Factory waste treatment/Sewage treati

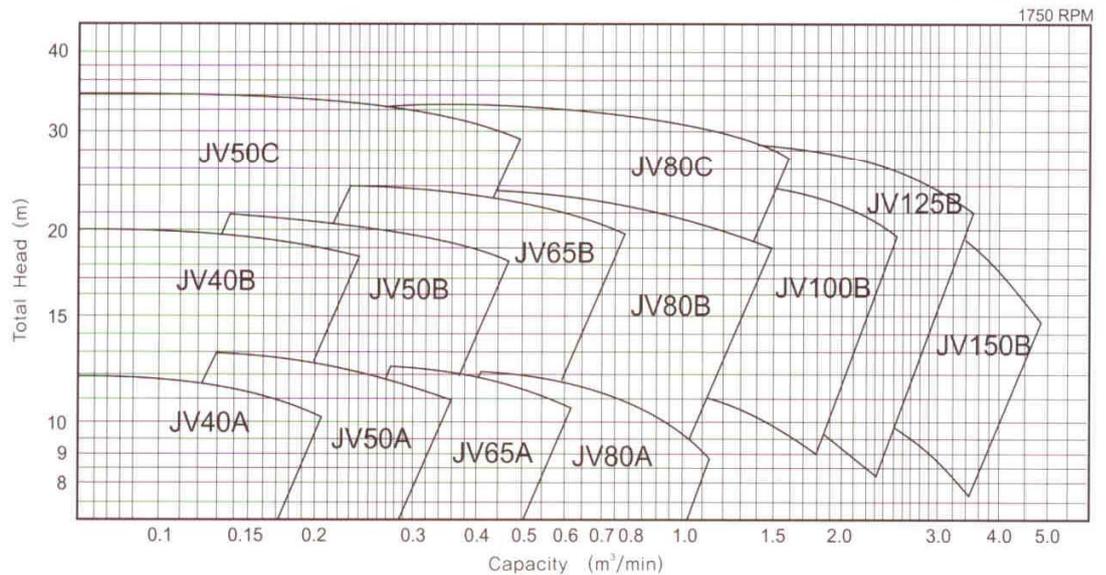
**Features**

- ◆ 배관 해체없이 임펠러 분해 가능
- ◆ 케이싱내의 이상적인 유체의 흐름을 유도한 임펠러 설계 적용
- ◆ Impeller disassemble is enable to without pipe disman
- ◆ Induct ideal liquid stream inside of casing. Apply to impeller design

**Design Ratings**

- Size : up to 150 mm
- Capacity : up to 5 m<sup>3</sup>/min
- Revolution : 1750 rpm - 60Hz
- Temperature : Cast Iron - max 135 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

**Selections Chart**

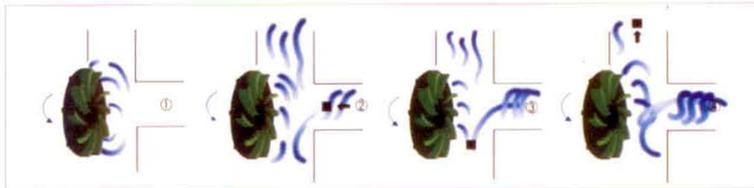


# Specification

Specification

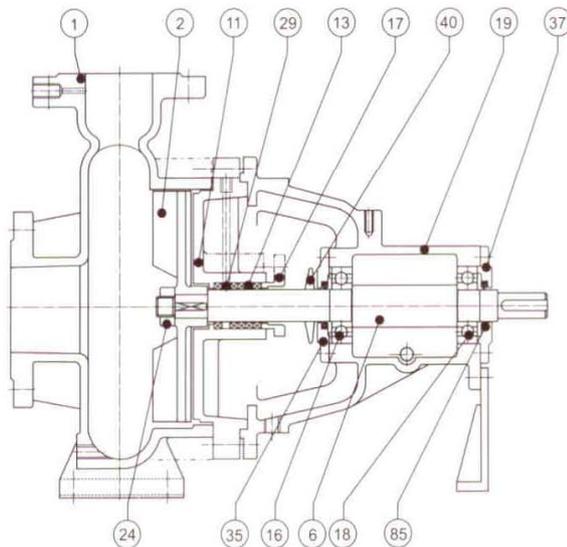
Model Size	Size	Capacity (m <sup>3</sup> /min)	Head (m)	Power (kw)
	Suc. x Disc.			
JV-40A	40x32	0.15	10	1.5
JV-50A	50x40	0.25	10	2.2
JV-65A	65x50	0.5	10	3.7
JV-80A	80x65	0.9	10	5.5
JV-40B	40x32	0.15	17	2.2
JV-50B	50x40	0.25	17	3.7
JV-65B	65x50	0.6	17	5.5
JV-80B	80x65	1.0	17	7.5
JV-100B	100x80	1.5	22	15
JV-125B	125x100	2.0	22	19
JV-150B	150x125	3.0	22	22

### ■ 볼텍스 펌프의 원리



볼텍스 펌프는 볼텍스의 원리에 따라 운전 된다. 볼류우트 뒤쪽에 물러나 있는 동바란스 된 임펠러에 의해 유체가 소용돌이 치게되고 이 소용돌이가 입구까지 연속되면서 입자를 유동속으로 끌어들이는다. 입자는 케이싱 내에서 고속 소용돌이속에 함유된다. 형성된 볼텍스 작용은 유체와 유체에 포함되어 펌프 케이싱 볼류우트 영역으로 들어오는 고형물질의 흐름을 안내한다. 대부분의 액체는 임펠러와 접촉되지 않는 상태로 케이싱내의 주류에 포착되어 이내원심력에 의해 밀려나 토출이 되게 된다.

Vortex pump operates as vortex principal, Liquids swirled by the bronze balanced impeller which was located backward. The swirls continued up to the influx and it draws particles in swirls. The particles are joined with high speed swirls inside of casing. The vortex effet guides solid particles flow which is entering pump casing's volute sphere. Most of liquid (caugheted by the mainstream inside of casing) are discharged without contact with impeller.

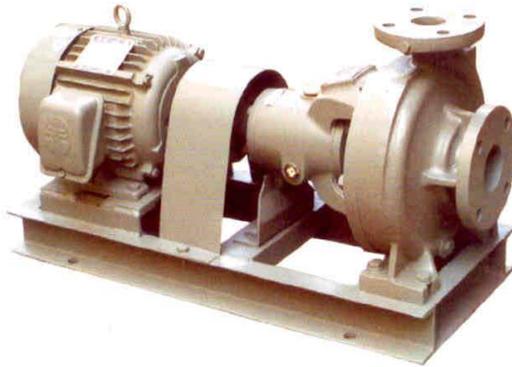


## Materials

Materials

1	Casing	GC200
2	Impeller	GC200/BC6
6	Shaft	SM45C/STS304
11	Stuffing Box	GC200
13	Packing	TEFLON
16	Front Bearing	STEEL
17	Packing Gland	GC200
18	Back Bearing	STEEL
19	Bearing Housing	GC200
24	Impeller Nut	STS304
29	Lantern Ring	BC6
35	F-Bearing Cover	GC200
37	B-Bearing Cover	GC200
40	Deflector	RUBBER
85	Oil Seal	RUBBER

# Model **JHC** Single Suction Centrifugal Pumps



## Applications

- ◆ 일반 산업용
  - ◆ 공업용수 공급용
  - ◆ 급수 시설용
  - ◆ 농업 관개용
  - ◆ 냉난방 순환용
  - ◆ 산, 알카리, 유기 및 무기화학용
- ◆ General industry ◆ industrial water ◆ Water supply  
 ◆ Agriculture Irrigation ◆ Air conditioning & Heating  
 ◆ Acid, Alkali, Organic & Inorganic Chemical use,

## Features

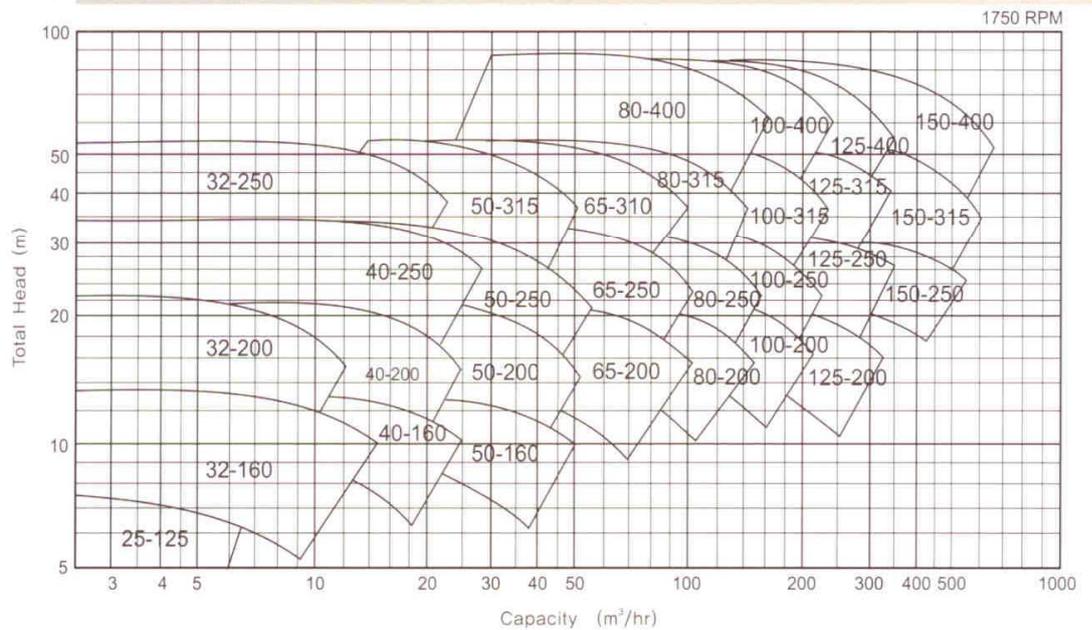
- ◆ KS B 7501 표준
- ◆ 유량 양정의 표준화로 넓은 사용 범위
- ◆ 외형치수의 호환성
- ◆ Back pull-out Design
- ◆ 소형 경량으로 운전시 고장이 적고 유지보수가 쉽다

- ◆ KS B7501 standard
- ◆ Wide rang of use due to standardization of Capacity & Head.
- ◆ Outer dimensional compatibility.
- ◆ Small and lght weight is for trouble free and easy of maintenance

## Design Ratings

- Size : up to 200 mm
- Capacity : up to 10 m<sup>3</sup>/min
- Head : up to 90 m
- Revolution : 1750 rpm - 60Hz
- Temperature : Cast Iron - max 150 °C / Stainless Steel - max 170 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

## Selections Chart



## Single Suction Centrifugal Pumps

### Specification

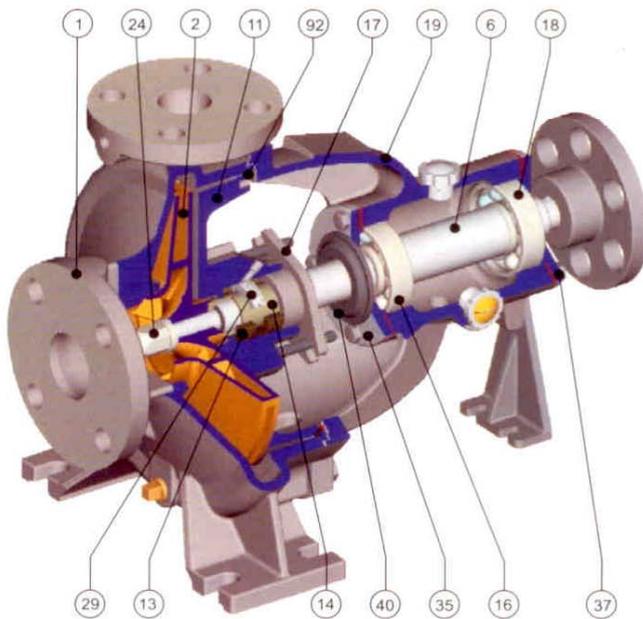
Specification

1750 RPM

Model JHC	Size (Suc.xDis)	Capacity (m <sup>3</sup> /min)	Head (m)	Power (Kw)	Seal (mm)	Model JHC	Size (Suc.xDis)	Capacity (m <sup>3</sup> /min)	Head (m)	Power (Kw)	Seal (mm)
25-125	25x25	0.07	7	0.75	25	80-200	100x80	1.67	20	11	40
32-160	40x32	0.12	11	1.5	30	80-250			30	15	
32-200			20	2.2		80-315			48	30	
32-250			30	3.7		80-400			72	45	
40-160	50x40	0.25	11	1.5	30	100-200	125x100	2.5	20	15	40
40-200			20	2.2		100-250			30	22	
40-250			30	5.5		100-315			48	37	
40-315			48	7.5		100-400			72	55	
50-160	65x50	0.5	11	2.2	30	125-200	150x125	4.0	20	22	40
50-200			20	3.7		125-250			30	30	
50-250			30	5.5		125-315			48	45	
50-315			48	11		125-400			72	95	
65-200	50x65	1.0	20	7.5	30	150-250	200x150	7.6	30	55	55
65-250			30	11		150-315			48	95	
65-315			48	19		150-400			72	150	

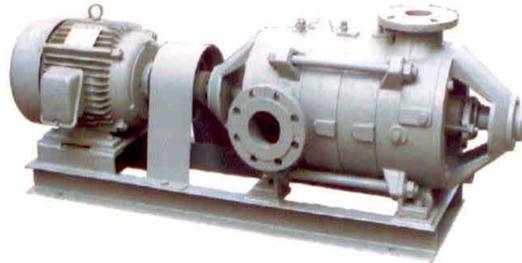
### Materials

Materials



1	Casing	GC200
2	Impeller	Gc200
6	Shaft	SM45C
11	Stuffing Box	GC200
13	Packing	TEFLON
14	Shaft Sleeve	STS304
16	Front Bearing	STEEL
17	Packing Gland	GC200
18	Back Bearing	STEEL
19	Bearing Housing	GC200
24	Impeller Nut	STS304
29	Lantern Ring	BC6
35	F-Bearing Cover	GC200
37	B-Bearing Cover	GC200
40	Deflector	RUBBER
92	Casing O-Ring	RUBBER

**Model JMT Multi Stage Turbine Pumps**



**Applications**

- ◆ 일반 산업용
- ◆ 급수시설 및 빌딩 소화전용
- ◆ 스프링 쿨러, 냉난방 순환용
- ◆ 화학 공업용
- ◆ 고층 건물 급수용
- ◆ 고압 이송용

- ◆ General industry
- ◆ Water supply & Building Fire hydrant
- ◆ Spring cooler (water curtain)
- ◆ Air conditioning & Heating
- ◆ Chemical industry
- ◆ High rising water supply
- ◆ High pressure transfer.

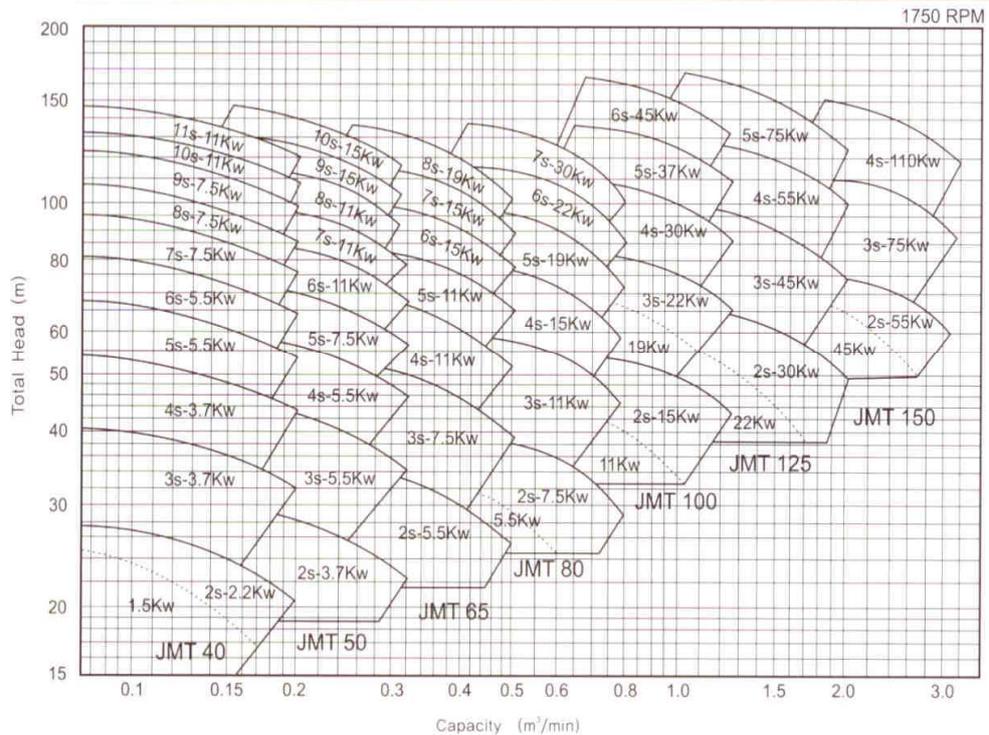
**Features**

- ◆ KS B 7505 표준
- ◆ 유량 양정의 표준화로 넓은 사용 범위
- ◆ 부품의 표준화로 최대의호환성 유지
- ◆ 액질의 종류에 따라 특수재질 적용 가능
- ◆ KS B7505 standard
- ◆ Wide rang of use due to standardization of Capacity & Head.
- ◆ Standardization of part supports maximum interchangeable
- ◆ Special material can be choosed according to liquid type

**Design Ratings**

- Size : up to 150 mm
- Capacity : up to 3 m<sup>3</sup>/min
- Head : up to 170 m
- Revolution : 1750 rpm - 60Hz
- Temperature : Cast Iron - max 150 °C
- Flange : Location [ Side Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

**Selections Chart**



Specification

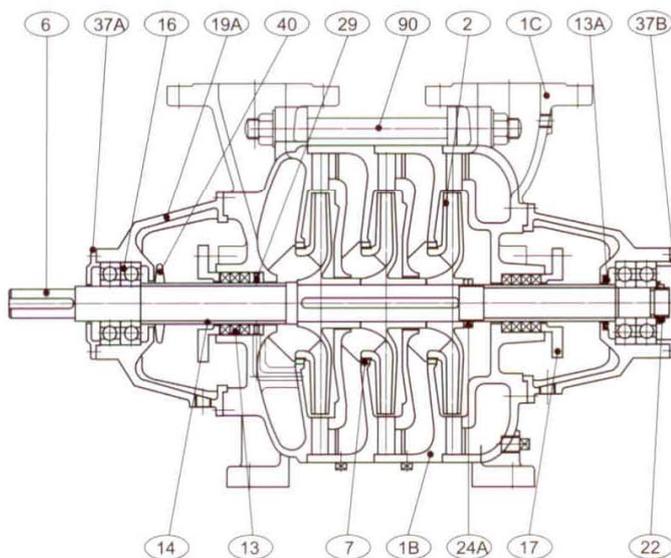
Specification

JMT40	m <sup>3</sup> /min x m x kw	JMT50	m <sup>3</sup> /min x m x kw	JMT65	m <sup>3</sup> /min x m x kw	JMT80	m <sup>3</sup> /min x m x kw
50x40	2s 0.15 x 24 x 2.2	50x40	2s 0.25 x 26 x 3.7	65x50	2s 0.4 x 30 x 5.5	80x65	2s 0.6 x 36 x 7.5
	3s 0.15 x 36 x 3.7		3s 0.25 x 39 x 5.5		3s 0.4 x 45 x 7.5		3s 0.6 x 54 x 11
	4s 0.15 x 48 x 3.7		4s 0.25 x 52 x 5.5		4s 0.4 x 60 x 11		4s 0.6 x 72 x 15
	5s 0.15 x 60 x 5.5		5s 0.25 x 65 x 7.5		5s 0.4 x 75 x 11		5s 0.6 x 90 x 19
	6s 0.15 x 72 x 5.5		6s 0.25 x 78 x 11		6s 0.4 x 90 x 15		6s 0.6 x 108 x 22
	7s 0.15 x 84 x 7.5		7s 0.25 x 91 x 11		7s 0.4 x 105 x 15		7s 0.6 x 126 x 30
	8s 0.15 x 96 x 7.5		8s 0.25 x 104 x 11		8s 0.4 x 120 x 19		
	9s 0.15 x 108 x 7.5		9s 0.25 x 117 x 15				
	10s 0.15 x 120 x 11		10s 0.25 x 130 x 15				

JMT100	m <sup>3</sup> /min x m x kw	JMT125	m <sup>3</sup> /min x m x kw	JMT150	m <sup>3</sup> /min x m x kw
100x80	2s 1.0 x 24 x 2.2	125x100	2s 1.5 x 24 x 2.2	150x125	2s 2.5 x 24 x 2.2
	3s 1.0 x 36 x 3.7		3s 1.5 x 36 x 3.7		3s 2.5 x 36 x 3.7
	4s 1.0 x 48 x 3.7		4s 1.5 x 48 x 3.7		4s 2.5 x 48 x 3.7
	5s 1.0 x 60 x 5.5		5s 1.5 x 60 x 5.5		
	6s 1.0 x 72 x 5.5				

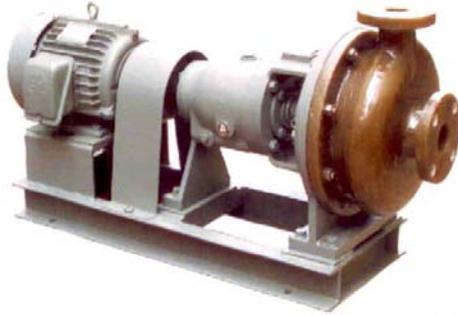
Materials

Materials



- 1A Suction Casing GC200
- 1B Stage Casing GC200
- 1C Discharge Casing GC200
- 2 Impeller GC200
- 6 Shaft SM45C
- 7 Casing Ring BC6
- 13 Packing TEFLON
- 13A Packing ASBESTOS
- 16 Inboard Bearing GC200
- 17 Packing Gland GC200
- 19A Frame GC200
- 22 Bearing Lock Nut SS400
- 24A Impeller Nut STS304
- 29 Lantern Ring BC6
- 37A In Bearing Cover GC200
- 37B Out Bearing Cover GC200
- 40 Deflector RUBBER
- 90 Tie Nut SM45C

**Model JFR Non-Metalic F.R.P Pumps**



**Applications**

- ◆ 화학 공업용
- ◆ 도금 공장용
- ◆ 염색 공장용
- ◆ 약품 폐수 처리용
- ◆ Chemical Industrial
- ◆ Plating mill
- ◆ Dye works
- ◆ Medial waste water treatment

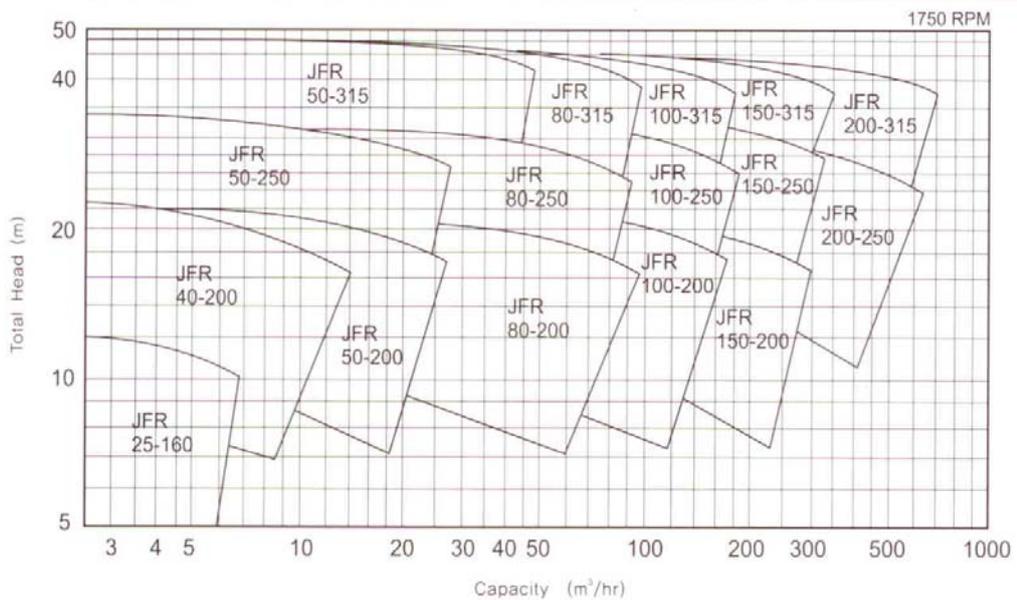
**Features**

- ◆ 각종산류, 알카리, 내약품성
- ◆ 유기 화합물등의 부식성 액체에 저항력이 강하다.
- ◆ 강도 및 내충격성, 내구성이 우수하다.
- ◆ 재질 : FRP (Derakance, Artrac)
- ◆ 케이싱은 볼류트로 되어있어 효율이 높다.
- ◆ Endurance against various acid, alkali and medicines.
- ◆ High endurance for corrosive liquids such as orgainc compounds.
- ◆ High strenght, crashworthy and durability.
- ◆ Materal : FRP (Derakance, Artrac)
- ◆ High efficiency; volute casing.

**Design Ratings**

- Size : up to 100 mm
- Capacity : up to 1.2 m<sup>3</sup>/min
- Head : up to 22 m
- Revolution : 1750 rpm - 60Hz
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ End Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

**Selections Chart**



## Specification

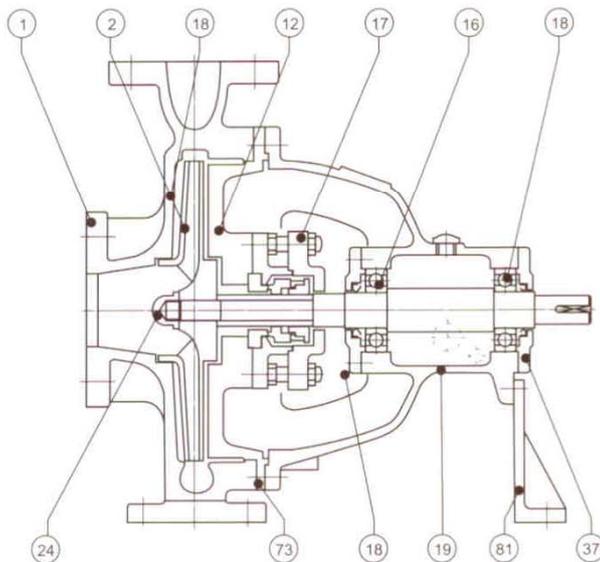
Specification

1750 RPM

Model Size	Size	Capacity (m <sup>3</sup> /min)	Head (m)	Power (kw)
	Suc. x Disc.			
JFR -25	25x25	0,05	9	0,75
JFR -40	40x40	0,1	10	1,5
JFR -50	50x50	0,3	15	3,7
JFR -65	65x65	0,4	12	3,7
JFR -80	80x80	0,6	15	5,5
	80x80	0,6	20	7,5
JFR -100	100x100	0,8	20	7,5
	100x100	1,2	22	11
JFR -150	150x150	4,0	18	22
	150x150	4,5	30	37
	150x150	5,0	44	55
JFR -200	200x200	8,0	26	55
	200x200	10	42	110

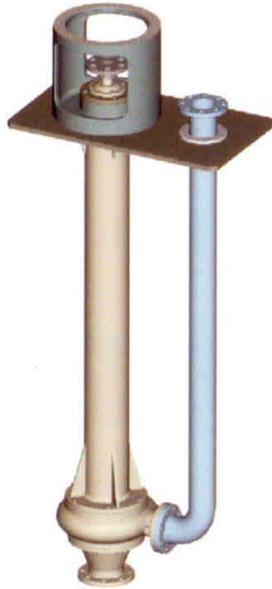
## Materials

Materials



- |                    |             |
|--------------------|-------------|
| 1 Casing           | FRP         |
| 2 Impeller         | FRP         |
| 6 Shaft            | SM45C       |
| 11 Casing Cover    | FRP         |
| 12 Stuffing Box    | SSC14       |
| 14 Shaft Sleeve    | FRP or Hast |
| 16 Front Bearing   | STEEL       |
| 17 Seal Gland      | SSC14       |
| 18 Back Bearing    | STEEL       |
| 19 Bearing Housing | GC200       |
| 24 Impeller Nut    | FRP         |
| 37 Bearing Cover   | Gc200       |
| 73 Casing Gasket   | RUBBER      |
| 81 Support         | GC200       |

# Model **JVT** Vertical Sump Pumps



## Applications

- ◆ 각종 수처리분야(폐수)
- ◆ 오, 폐수 배수용
- ◆ 일반 수처리용
- ◆ Various water treatment
- ◆ Sewage, waster water treatment
- ◆ General water treatment

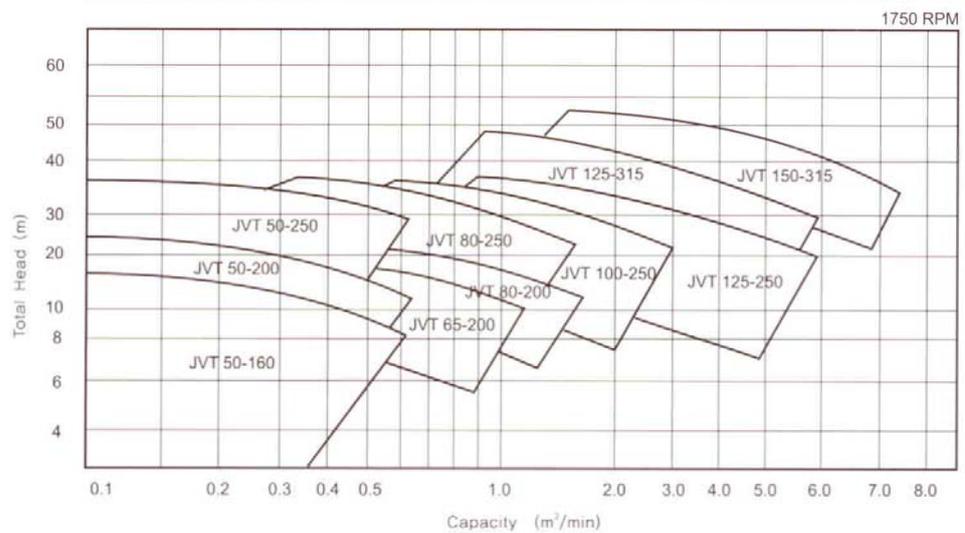
## Features

- ◆ Non-clogging impeller 형식으로 고형물 이송에적합 하도록 설계
- ◆ 수직 설치형으로 설치면적이 적다.
- ◆ Non clogging impeller is designed for solid material transportation
- ◆ vertical installation type requires small size,

## Design Ratings

- Size : up to 200 mm
- Capacity : up to 7 m<sup>3</sup>/min
- Head : up to 25 m
- Revolution : 1750, 1180 rpm - 60Hz
- Temperature : Cast Iron - max 60 °C
- Flange : Location [ Bottom Suction, Top Discharge ] Standard - KS

## Selections Chart

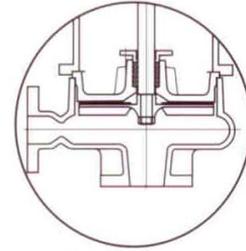


## Vertical Sump Pumps

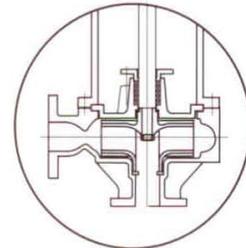
### Specification

Specification

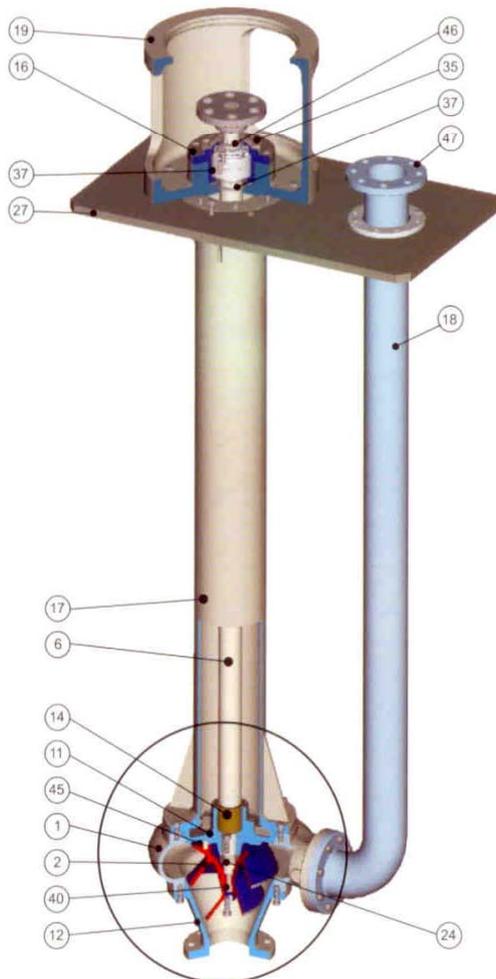
Model Size	Size	Capacity(m <sup>3</sup> /min)	Head(m)	Power (kw)	R P M
	Suc. x Disc.				
JVT-40	40x40	0,3	13	3,7	1750
JVT-50	50x50	0,4	20	11	1750
JVT-65	65x65	0,6	20	22	1750
JVT-80	80x80	1,0	20	45	1750
JVT-100	100x100	1,5	25	90	1750
JVT-125	125x125	2,0	25	132	1750
JVT-150	150x150	4,0	20	132	1150
JVT-200	200x200	7,0	20	132	1150



Vortex Impeller



Solid Impeller

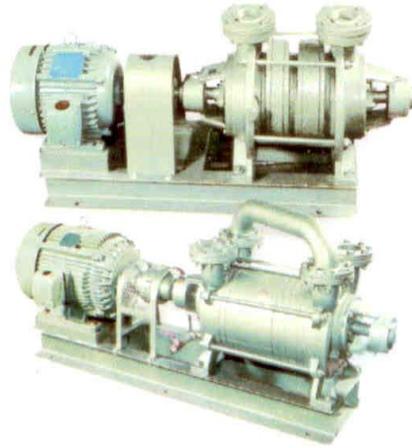


### Materials

Materials

1	Casing	GC200
2	Impeller	GC200/BC6
6	Shaft	SM45C/STS304
11	Stuffing Box	GC200
12	Casing Cover	GC200
14	Metal Bearing	CARBON / THORDON
16	Bearing Housing	GC200
17	Column Pipe	SPP
18	Discharge Column	SPP
19	Motor Base	SS41
24	Impeller Nut	STS304
27	Baseplate	SS41
35	Bearing Cover	GC200
37	Oil-Seal	RUBBER
40	Impeller Set Bolt	STS304
45	Impeller Plate	STS304
46	Bering Nut	SS41
47	Discharge Flange	SS41

# Model JVP Vacuum Pumps



## Applications

- ◆ 탈수 건조용
- ◆ 대형펌프 플라이밍용
- ◆ 피혁공장 탈수용
- ◆ 진공 여과기용
- ◆ 응축 배기용
- ◇ Dehydration, drying/Big pump's priming
- ◇ Dehydration in leather plant
- ◇ Vacuum strainer
- ◇ Condensation ventilation

## Features

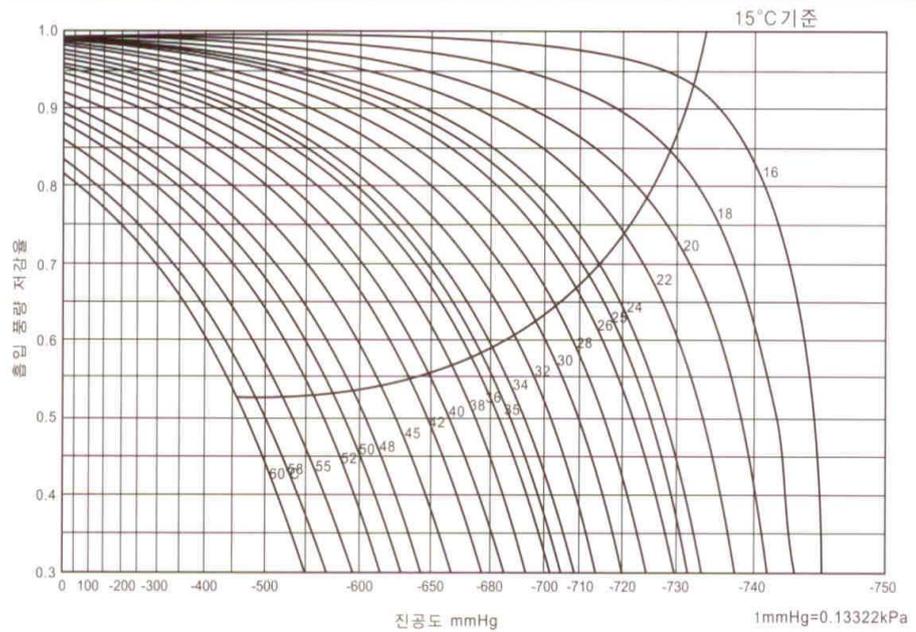
- ◆ 고진공, 높은효율.
- ◆ 안전된 운전
- ◆ 구조가 간단하여 유지보수가 쉽다.
- ◆ 저소음, 저진동
- ◇ High vacuum and high efficiency
- ◇ Safe operation
- ◇ Simple structure, easy maintenance
- ◇ Low noise and vibration

## Design Ratings

- Size : up to 200 mm
- Capacity : up to 30 m<sup>3</sup>/min
- Vacuum : up to 720 mmHg
- Revolution : 650 ~ 1800 rpm
- Temperature : Cast Iron - max 100 °C
- Flange : Location [ Top Suction, Top Discharge ] Standard - KS
- Sealing : Standard - Packing / Option - Mechanical Seal

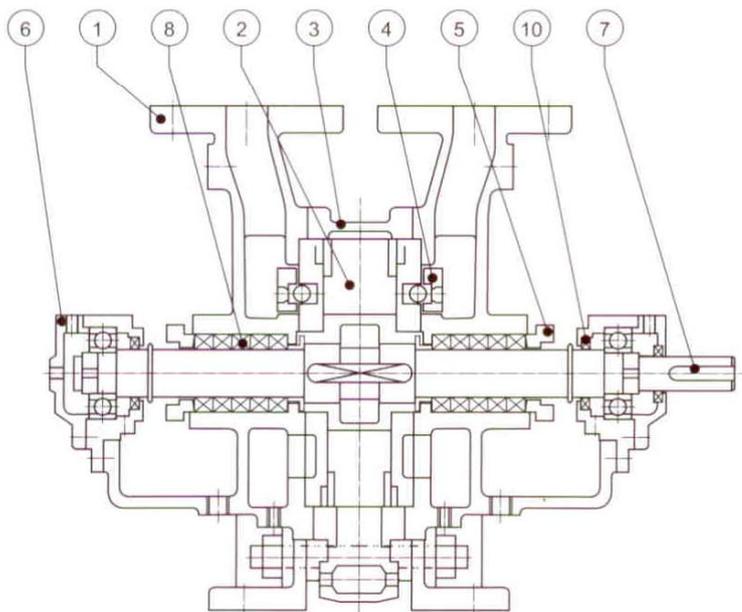
## Selections Chart

### 온도별 성능변화 곡선도



## Specification

Size	Model	최고흡입공량	최대 진공도	출 력	회 전 수	보급수량
		m <sup>3</sup> /min	mmhg	Kw	rpm	Liter/min
32 x 32	JVP-S	0.9	650	2.2	1800	5
40 x 40	JVP-S	1.6	700	3.7	1800	8
40 x 40	JVPx2s	3.3	720	7.5	1800	15
50 x 50	JVP-S	2.5	700	5.5	1800	11
50 x 50	JVPx2s	5.5	720	15	1800	20
65 x 65	JVP-D	3.5	700	7.5	1200	15
80 x 80	JVP-D	5.6	700	15	1200	21
100 x 100	JVP-D	8.0	700	19	1200	28
100 x 100	JVP-D	10.5	700	22	1200	34
125 x 100	JVP-C	14.0	700	30	900	39
150 x 150	JVP-S	23.5	700	37	650	60
200 x 200	JVP-S	30.0	700	55	650	80



## Materials

Materials		
1	Side Casing	GC200
2	Rotor	BC6
3	Casing	GC200
4	Side Plate	GC200
5	Gland	GC200
6	Bearing Cover	GC200
7	Shaft	SM45C
8	Packing	TEFLON
10	Oil Seal	RUBBER

# Model JSB Submersible Motor Pumps



## Applications

- ◆ 공장, 대형건물 오수 배수용
- ◆ 지하철역, PIT 내 오수 배수용
- ◆ 합병 처리장, 상수도 압송용
- ◆ 기타 고양정 오수 배수용
- ◆ 폐수처리 및, 분뇨처리장의 원수 처리용
- ◆ Slaughter's drainage
- ◆ Septic tank's raw water transportation
- ◆ Night soil, sewage & solid materials treatment.

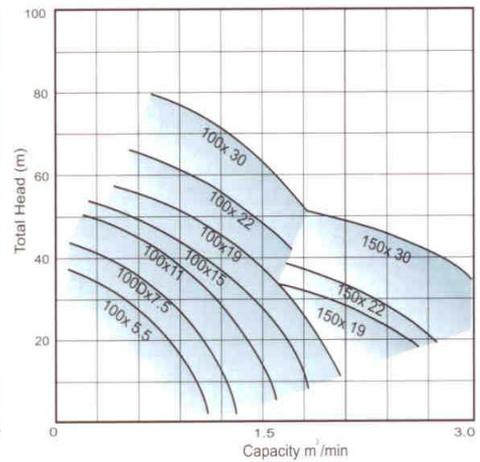
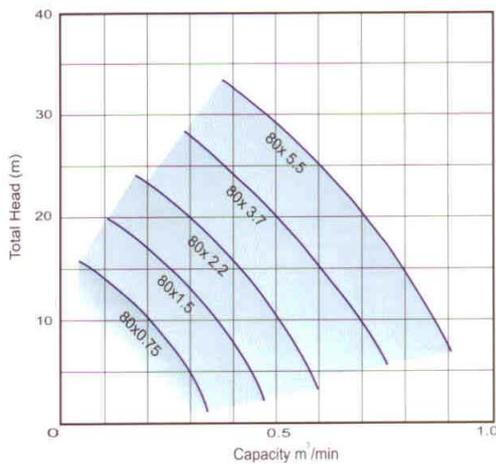
## Features

- ◆ SEMI-OPEN IMPELLER 의 구조
- ◆ 고효율로 전력비 절감
- ◆ 고양정에서 펌프의 최고 성능 발휘
- ◆ QDC-SYSTEM 을 이용한 신속하고 간단한 설치방식
- ◆ SEMI-OPEN impeller structure
- ◆ High efficiency can save electricity cost
- ◆ High performance operate High Head
- ◆ Quick and simple installation by use of QDC system.

## Design Ratings

- Size : up to 150 mm
- Capacity : up to 3 m<sup>3</sup>/min
- Head : up to 70 m
- Revolution : 1750 rpm - 60Hz
- Flange : Location [ Bottom Suction, Top Discharge ] Standard - KS
- Sealing : Mechanical Seal

## Selections Chart



## Specification

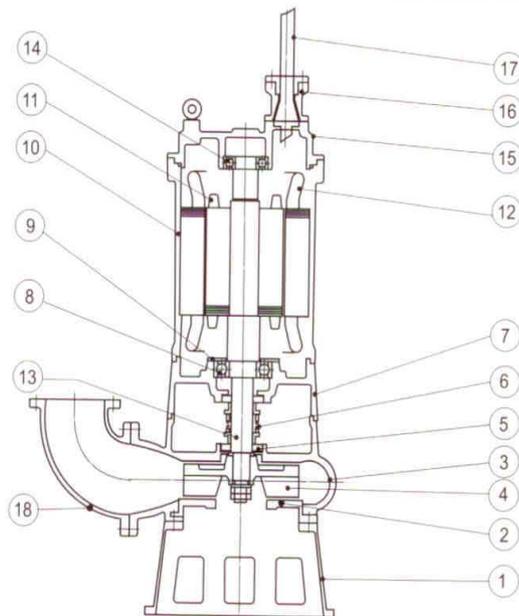
Specification

형 식 MODEL	구경 Ø (mm)	동 력		유량 m <sup>3</sup> /min	양정 Head (m)	회전수 R.P.M	중량 Weight(kg)
		HP	KW				
JSB 0.75	50	1	0.75	0.16	12	3600	38
JSB 1.5	50	2	1.5	0.25	15	3600	40
JSB 2.2	80	3	2.2	0.30	20	3600	59
JSB 3.7	80	5	3.7	0.50	20	3600	82
JSB 5.5	80	7.5	5.5	0.60	25	3600	92
JSB 7.5	100	10	7.5	0.80	30	3600	158
JSB 11	100	15	11	1.00	35	3600	173

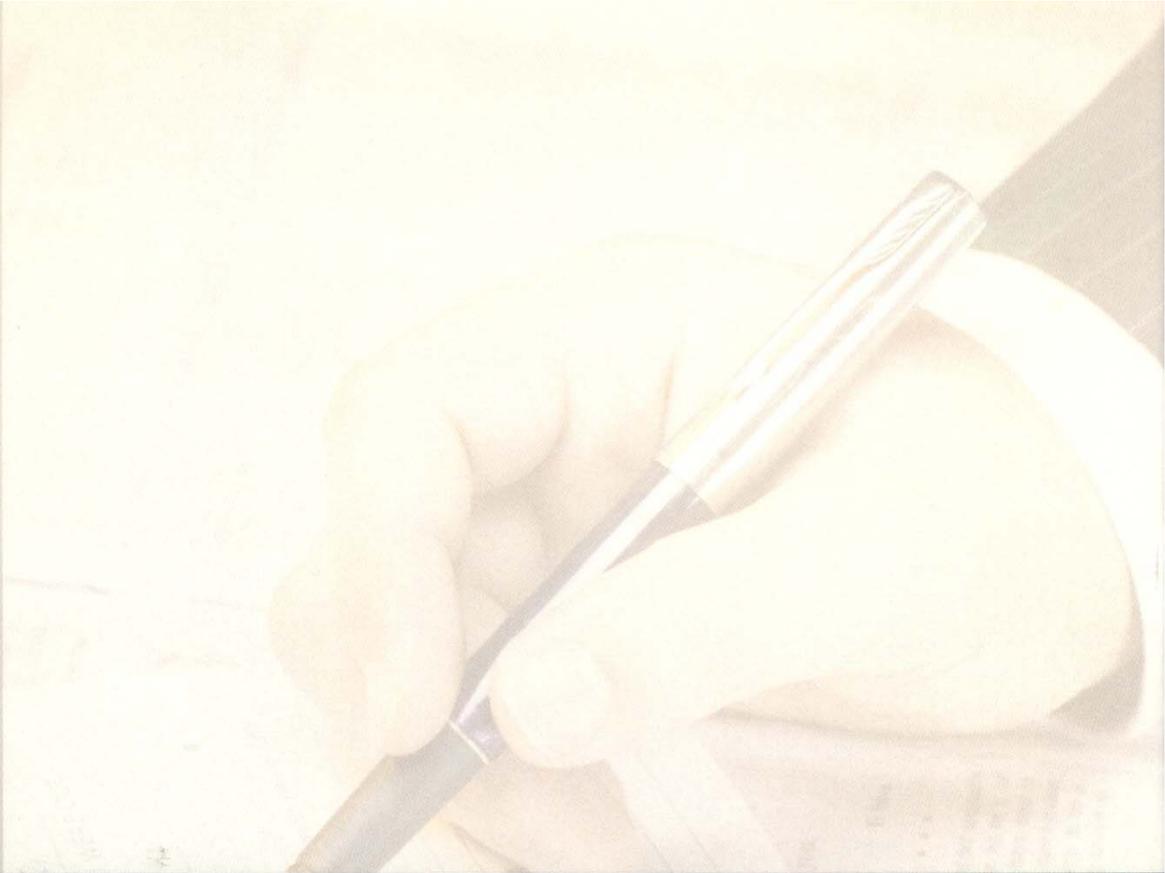
형 식 MODEL	구경 Ø (mm)	동 력		유량 m <sup>3</sup> /min	양정 Head (m)	회전수 R.P.M	중량 Weight(kg)
		HP	KW				
JSB 15	100	20	15	1.00	42	3600	195
JSB 19	100	25	19	1.00	50	3600	278
JSB 22	100	30	22	1.00	60	3600	282
JSB 30	100	40	30	1.00	75	3600	305
JSB 19	150	25	19	2.00	30	3600	303
JSB 22	150	30	22	2.00	35	3600	308
JSB 30	150	40	30	2.50	45	3600	325

## Materials

Materials



1	Stand	GC 200
2	Suction Cover	GCD 500
3	Pump Casing	GC 200
4	Impeller	GCD 500
5	Oil Seal	N,B,R
6	Mechanical	SIC/SIC
7	Bearing Housing	GC 200
8	Lower Bearing	STEEL
9	B/R Housing Cover	GC 200
10	Motor Frame	GC 200
11	Stator	-
12	Rotor	-
13	Motor Shaft	STS 410
14	Upper Bearing	STEEL
15	Motor Bracket	GC 200
16	Stuffing Box	GC 200
17	Cabtyre Cable	3RNCT
18	Discharge Bend	GC 200



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