Pumping Unit

API Beam Pumping Unit

Product Features:

The beam pumping unit has features of reliable performance, simple structure, easy to operate and maintain, mature in technology. The technical parameters meet API Spec 11E Standard.

Product Specifications:

Model	Reducer Rating (10^3in–lbs)	Structure Capacity (10^2lbs)	Max.Stroke Length (in)	Unit Weight (t)
C–1280–305–240	1280	305	240	35.5
C–1280–365–192		365	192	34.7
C–912D–365–192	912	365	192	32.6
C–912D–365–168			168	29.8
C–912D–365–144			144	27.8
C–912D–365–240			240	
C–912D–305–192		305	192	30.9
C–912D–305–168			168	28.6
C–640D–365–168	640	365	168	28.2
C–640D–365–144			144	26.8
C–640D–365–120			120	24.4
C–640D–305–168		305	168	27.4
C–640D–305–144			144	25.6
C–640D–305–120			120	23.6
C–640D–305–197			197	
C–640D–305–240			240	
C–640D–256–144		256	144	25
C–640D–256–168			168	
C–640D–256–192			192	
C–640D–256–197			197	
C–640D–256–240			240	

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C–456D–365–120	456	365	120	23.2
C–456D–305–168		305	168	26.3
C–456D–305–144			144	24.2
C–456D–305–120			120	22.5
C–456D–256–144		256	144	23.9
C–456D–256–120			120	21.9
C–456D–256–100			100	20.2
C–456D–213–120		213	120	21.3
C–456D–213–168			168	
C–456D–213–120			120	
C–456D–213–197			197	
C–456D–213–240			240	
C–320D–305–100	320	305	100	19.8
C–320D–256–144		256	144	22.9
C–320D–256–120			120	20.9
C–320D–256–100			100	19.2
C–320D–246–86		246	86	17.4
C–320D–246–74			74	15.9
C–320D–213–86		213	86	16.6
C–320D–213–120		213	120	20.3
C–320D–173–120		173	120	
C–228D–246–86	228	246	86	16.1
C–228D–213–86		213	86	15.4
C–228D–213–120			120	19.1
C–228D–213–100			100	17.2
C–228D–200–74		200	74	14.6
C–228D–173–74		173	74	13.8
C–228D–173–100		173	100	16.1
C–228D–133–120		133	120	
C–160D–200–74	160	200	74	13.7
C–160D–173–86		173	86	14.6
C–160D–173–74			74	13
C–160D–173–64			64	
C–160D–143–64			64	12
C–160D–173–100			100	15.2
C–160D–143–74		143	74	12.2
C–160D–143–64			64	11.4

C–114D–173–64	114	173	64	11.6
C–114D–143–54			54	10.1
C–114D–143–74		143	74	11.5
C–114D–143–64			64	10.5
C–114D–133–54		133	54	9.2
C–114D–119–86		119	86	12.5
C–114D–119–86		119	86	
C–114D–67–59		67	59	
C–114D–67–86		67	86	
C–80D–133–54	80	133	54	8.7
C–80D–133–48			48	8.1
C–80D–119–64		119	64	9.7
C–80D–119–54			54	8.3
C–80D–109–48		109	48	7.5
C–57D–109–48	57		48	7.1
C–57D–95–48		95	48	6.8
C–57D–89–42		89	42	6.4
C–57D–76–54		76	54	7.1
C–57D–76–42			42	6.1
C–40D–89–42	40	89	42	6.1
C–40D–89–36			36	5.3
C–40D–76–48		76	48	6.3
C–40D–76–42			42	5.5
C–25D–67–36	25	67	36	4.5
C–25D–67–30			30	4.1
C–25D–56–36		56	36	4.3
C–25D–53–30		53	30	3.9
B–080–119–064	80	119	64	7.8
B–080–076–064		76	64	7.8
B–080–109–054		109	54	7.6
B–080–076–054		76	54	7.6
B–080–109–048		109	48	7.2
B–080–109–042		109	42	7
B–057–109–054	57	109	54	6.5
B–057–076–054		76	54	6.5
B–057–109–048		109	48	6.3
B–057–109–042		109	42	6.1
B–040–076–048	40	76	48	5.8
B–040–089–042		89	42	5.6
B–040–076–042		76	42	5.6
B–040–089–036		89	36	5.4
B–025–067–036	25	67	36	4.8
B–025–056–036		56	36	4.8
B–025–053–030		53	30	4.2

Dual Horse Head Pumping Unit

Product Features:

This kind of pumping unit is based on the conventional pumping unit. The technique innovation is applied on the four-bar linkage. The back of the walking beam had a special curve shape, and flexible connection method between walking-beam and equalizer is used. So the length of the back of the walking-beam and the pitman arm will be changed according to the variational rotational angle of the crank. This structure affects the changing principle of the torque factor and improves the balancing effect,thus energy is saved (compared with conventional ones, it can save energy about 25%).

Product Specifications:

Model	tructure Capacity (kN)	Reducer Rating (kN·m)	Stroke Frequency (Min^{-1})	Stroke Length (m)
CYJS6–3–13HB	60	13	4, 5, 6	3, 2.5, 2.0
CYJS6–3–18HB		18	5,7,9	3,2.5.2
CYJS6–3–26HB		26	5,7,9	3,2.5.2
CYJS8–3–26HB	80		5,7,9	3,2.5.2
CYJS8–3–37HB		37	4,6,8	3,2.5.2
CYJS10–3–37HB	100		4,6,8	3,2.5.2
CYJS10–4.2–37HB			4,5,6	4.2,3.6,3
CYJS10–4.2–53HB			4,5,6	4.2,3.6,3
CYJS10–5–37HB			4,5,6	5,4.2,3.6,3
CYJS10–5–48HB		48	4,5,6	5,4.2,3.6,3
CYJS10–5–53HB		53	4,5,6	5,4.2,3.6,3
CYJS10–6–53HB		53	2, 3, 4	6, 4.8, 4.2
CYJS10–5–73HB		73	4,5,6	5,4.2,3.6,3
CYJS12–5–48HB	120	48	4, 5, 6	5, 4, 3
CYJS12–5–53HB		53	4,5,6	5,4.2,3.6,3
CYJS12–5–73HB		73	4,5,6	5,4.2,3.6,3
CYJS12–5.4–53HB		53	4, 5, 6	5.4, 4.6, 3.8
CYJS12–6–73HB		73	2, 3, 4	6, 4.8, 4.2
CYJS14–5–53HB	140	53	4, 5, 6	5, 4, 3
CYJS14–5.4–89HB		89	4, 5, 6	5.4, 4.6, 3.8
CYJS14–6–73HB		73	2, 3, 4	6, 4.8, 4.2
CYJS16–6–89HB	160	89	2, 3, 4	6, 4.8, 4.2

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Low Type Pumping Unit

Product Features:

- The whole unit has a reasonable structure, with the features of compactness, lightweight, simple structure, reliable performance, long working life, low failure rate and easy maintenance etc.
- This pumping unit is characterized by energy-saving and higher system efficiency.
- The gearbox that we manufacture is double reduction herringbone gearbox with the tooth form as double circular arc. With such kind of tooth form, the gearbox features in its high machining precision, high bearing capacity and long working life.
- The walking beam and the horse head is designed as an integrated structure.

Product Specifications:

Model	Structure Capacity (kN)	Reducer Rating (kN·m)	Stroke Frequency (Min^{-1})	Stroke Length (m)	Motor Power (kW)	Unit weight (t)
CYJY6–2.5–26HB	60	26	9,7,5	2.5,2,1,1.7	31	18.5

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Downward Barbell Pumping Units

Product Features:

- The beam pumping unit uses downward barbellis used to balance and lessen down the peak torque.
- The position and weight of the downward barbell can be reasonably set according to different well conditions.
- This type of pumping unit has all advantages of conventional ones, has good balance effect and reliable performance.
- Compared to the conventional beam pumping unit, it can save energy by more than 20%.

Product Specifications:

model	Structure Capacity (kN)	Reducer Rating (kN·m)	Stroke Frequency (Min^{-1})	Stroke Length (m)
PCYJ3–1.8–7HY	30	7	5,7,10	1.8,1.5,1.2
PCYJ4–1.8–9HY	40	9	5,7,10	1.8,1.5,1.2
PCYJ4–1.8–13HY	40	13	5,6.5,10	1.8,1.5,1.2
PCYJ5–1.8–18HY	50	18	5,6.5,10	1.8,1.5,1.2
PCYJ6–2.5–26HF	60	26	4,6,8	2.5,2.1,1.8
PCYJ8–3–26HF	80	26	6,8,10	3,2.5,2
PCYJ10–3–37HF	100	37	6,9,12	3,2.5,2
CYJX10–5–48HF	100	48	3, 4, 5	5, 4, 3
CYJX12–5–53HF	120	53	3, 4, 5	5, 4, 3
CYJX10–6–53HF	100	53	1.5, 2.5, 3.5	6,5.2,4.5
CYJX12–6–73HF	120	73	2, 2.5, 3	6,5.2,4.5
CYJX14–6–89HF	140	89	2, 2.5, 3	6,5.2,4.5
CYJX16–6–89HF	160	89	2, 2.5, 3	6,5.2,4.5

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Moment Adjustable Pumping Unit

Product Features:

● Offset balance structure is adopted for the walking beam.

● Adjustment can be carried out simply. The counter balance weight is near the ground when the horse head is at its highest position, thus medium and small balance weights can be added to or removed from it easily.

● Good balance performance. Balance can be accurately adjusted according to peak load position.

● The walking beam and the Sampson post should be locked when adjusting the stroke length, so as to increase operation safety, lowering down labor intensity and crane engagement.

● The medium and small size pumping unit will adopt rear adjusted structure while the large sized ones will adopt front adjusted structure.

Product Specifications:

Model	Structure Capacity (kN)	Reducer Rating (kN·m)	Stroke Frequency (Min^{-1})	Stroke Length (m)	Motor Power (kW)	Unit weight (t)
CYJ3–1.8–7HY	30	7	6,7,8	1.8,1.4,1.0	7.5	4.8
CYJ4–2.1–9HY	40	9	6,7,8	2.1,1.7,1.3	7.5	5.5
CYJ5–2.5–13HY	50	13	5,6,7	2.5,2.0,1.5	11	8.4
CYJ6–2.5–18HY	60	18	5,6,7	2.5,2.0,1.5	11	9.5
CYJ8–3–26HY	80	26	4,5,6	3.0,2.4,1.8	15	13
CYJ8–3–37HY	80	37	4,5,6	3.0,2.4,1.8	18.5	13.5
CYJ10–3–37HY	100	37	4,5,6	3.0,2.4,1.8	18.5	14.5
CYJ10–5–48HY	100	48	4,5,6	5,4.2,3.4	22	23
CYJ12–5–53HY	120	53	4,5,6	5,4.2,3.4	30	24.7
CYJ14–5–53HY	140	53	4,5,6	5,4.2,3.4	30	27.5
CYJ14–5–73HY	140	73	3,4,5	5,4.2,3.4	37	28.8

The Tower-type Digital Control Pumping

UnitProduct Features:

The tower—type digital control pumping unit is characterized as the electromechanical pumping unit with long stroke length and low stroke frequency.It is a combination of modern numerical control with linear pumping method.It reduced tremendously the problems of electricity guzzling and low mechanical efficiency of the beam pumping unit.It is very durable and safe to operate and it has a long life span.The operating cost is 10W and can be used severe environmental conditions.

Product Specifications:

Model	Structure Capacity (kN)	Stroke Frequency (Min^{-1})	Stroke Length (m)	Motor power (kW)
CYJSKZ8–5	80	1–5	5	11
CYJSKZ10–6	120	1–4	6	15
CYJSKZ12–7	140	1–3.5	7	18
CYJSKZ14–7	160	1–3.5	7	22
CYJSKZ16–7	180	1–3.5	7	26
CYJSKZ20–7	200	1–3.5	7	30
CYJSKZ24–7	240	1–3.5	7	37

Balance Pumping Unit

Product Features:

The newly developed balance pumping unit doesn't have the four—bar linkage and the gear reducer.It has features of simple structuresafety、stable operation、long service 1ife.It adopts the way of symmetrical balance and has good balance performance.It takes the way of flexible joint to pump， decreasing the impact load. There is a control board on the control panel.Using the telepilot to adjust the parameter is more convenient and quick.It can save energy by more than 50%.

Bend Walking Beam Pumping Unit

Now we have 7 types of Bend Walking Beam Pumping Unit such as 5, 6, 8, 10, 12, 14 and 16.

Product Features:

Bend Walking Beam Pumping Unit is designed on the basis of the Conventional Walking Beam Pumping Unit. By changing the shape of the walking beam and shifting the balance position, it becomes a new energy saving type. This type of pumping unit has many advantages such like reliable, durable, simple in structure and easy to operate. It has better balance effect and lower energy consumption as the Special Walking Beam Pumping Unit through the remodification. It is suitable for various well conditions.

Product Specifications:

Designation	Structure Capacity ($lbf \times 10^2$)	Stroke (in)	Strokes per minut	Motor Type	Reducer torque ($10^3 lb.in$)	Total mass (t)	Unit size L×WH×(m)
CYJW5–2.5–13HF	50	2.5, 2.1, 1.7	5,7,9	Y200L–8	13	11.1	7.0×1.9×6.6
CYJW5–2.5–18HF	50	2.5, 2.1, 1.7	5,7,9	Y200L–8	18	12.1	7.0×2.0×6.6
CYJW6–3–18F	60	3,2.5,2.1	5,7,9	YMJ180L–6	18	13.2	7.9×2.0×6.9
CYJW8–3–18F	80	3,2.5,2.1	6,8,10	Y225S–8	18	15.5	8.1×2.0×6.9
CYJW8–2.5–26F	80	2.5,2.1,1.6	6,8,10	Y225S–8	26	14.9	8.1×2.2×6.7
CYJW8–3–26HF	80	3,2.5,2	6,8,10	Y200L1–6	26	14.9	7.6×2.1×6.9

CYJW8–3–26F	80	3,2.5,2.1	6,8,10	Y225S–8	26	16.2	8.1×2.2×6.9
CYJW10–1.8–18F	18	1.88,1.54,1.20	6,9,12	Y225M–8	18	14.7	8.1×2.2×6.7
CYJW10–2.5–26F	100	2.5,2.1,1.6	6,8,10	Y250M–8	26	20.1	8.1×2.1×6.7
CYJW10–4.8–48HF	100	4.8,4.2,3.6	4,6,8	Y250M–8	48	25	10.5×2.52×9.5
CYJW10–4.8–53HF	100	4.8,4.2,3.6	4,6,8	Y250M–8	53	25.8	11×2.52×9.5
CYJW12–2.5–26F	120	2.5,2.1,1.6	6,8,10	Y250M–8	26	20.6	8.1×2.1×6.7
CYJW12–3.6–37F	120	3.6,3,2.4	5,7,9	Y280S–8	37	23.3	8.9×2.3×7.8
CYJW12–3.6–53F	120	3.6,3,2.5	5,7,9	Y280S–8	53	25.5	8.9×2.3×7.8
CYJW12–4.8–53HF	120	4.8,4.2,3.6	4,6,8	Y250M–8	53	26.3	11×2.52×9.5
CYJW12–4.8–73HF	120	4.8,4.2,3.6	4,6,8	Y280M–8	73	29.2	10.9×2.52×9.8
CYJW14–3.0–37F	140	3.0,2.5,2.0	6,8,10	Y280S–8	37	23.6	8.7×2.3×7.5
CYJW14–3.6–53F	140	3.6,3,2.5	6,8,10	Y280M–8	53	26.9	10×2.6×9.1
CYJW14–4.2–53F	140	4.2,3.6,3	5,7,9	Y280M–8	53	29.7	10.5×2.9×9.6
CYJW14–4.2–73F	140	4.2,3.6,3	5,7,9	Y280M–8	73	32.6	10.8×2.9×9.1
CYJW14–4.2–105F	140	4.2,3.6,3	5,7,9	Y315S–8	105	37.2	10.7×2.9×9.1
CYJW14–4.8–73HF	140	4.8,4.2,3.6	5,7,9	Y280M–8	73	34.7	11.8×2.9×9.5
CYJW14–4.8–89HF	140	4.8,4.2,3.6	4,6,8	Y280M–8	89	33.5	10.8×2.9×9.5
CYJW16–4.8–73F	160	4.88,4.2,3.6	4,6,8	Y315S–8	73	34.9	11.3×2.9×9.6
CYJW16–4.8–89HF	160	4.88,4.2,3.6	4,6,8	Y315S–8	89	33.8	11.5×2.9×9.6
CYJW16–4.8–105F	160	4.88,4.2,3.6	4,6,8	Y315S–8	105	39	12.0×2.9×10.4
CYJW16–5.5–105HF	160	5.5,4.7,4	4,6,8	YMJ280S–8	105	39.4	12.0×3.1×10.8

Conventional Walking Beam Pumping Unit

Product Features:

According with the National Standard SY/T5044-2003.
Adopt Double Reduction Gear Reducer with Double Circular Arc Herring Bone Gears, Helical Gearings.
Simple in structure, move smoothly and reliable.
Suit for various kinds of wells.

Product Specifications:

Model	Max. polished Rod capacity(10^2lb)	Stroke(in)	Stroke Frequency
CYJ3–1.5–13HF	30	1.5, 1.2, 0.9	9, 12, 15
CYJ3–2.1–13HF	30	2.1, 1.7, 1.4	6, 9, 12
CYJ5–2.1–13HF	50	2.1, 1.8, 1.5	6, 9, 12
CYJ6–3–26HF	60	3.0, 2.1, 1.8	6, 9, 12
CYJ8–3–37HB	80	3.0, 2.1, 1.8	4, 6, 9
CYJ10–3–53HB	100	3.0, 2.5, 2.1	4, 5, 6
CYJ10–4.2–53HB	100	4.2, 3.6, 3.0	4, 6, 9
CYJ12–4.2–73HB	120	4.2, 3.6, 3.0	4, 6, 8
CYJ12–4.8–73HB	120	4.8, 4.2, 3.6	4, 6, 8
CYJ12–5–73HB	120	5, 4.2, 3.6	4, 6, 8
CYJ14–5–73HB	140	5, 4.2, 3.6	4, 6, 8
CYJ14–5.4–89HB	140	5.4, 4.6, 3.8	2.5, 3.5, 4.5
CYJ14–6–73HB	140	6, 5.1, 4.2	2.5, 3.5, 4.5
CYJ16–6–105HB	160	6, 5.1, 4.2	2.5, 3.5, 4.5
CYJ3–1.5–6.5HB	30	1.5 1.2 0.9	6 9
CYJ5–2.1–13HB	50	2.1 1.8 1.5	6 9
CYJ6–2.5–26HB	60	2.5 2.1 1.8	6 9
CYJ10–3–53HB	100	3 2.5 2.1	6 9
CYJ12–5–73HB	120	5 4.2 3.6	3 4.8
CYJ14–5.5–89HB	140	5.5 4.8 4.2	2.5 4

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Complex Balanced Walking Beam Pumping Unit

Product Features:

According with National Standard SY/T5044-2003

According with API SPEC 11E

The structure and characteristics are in common with Conventional Walking Beam Pumping Units

Move smoothly and the peak torque rating of reducer is less.

Suitable for various kinds of wells.

Product Specifications:

Model	Max. polished rod capacity(10^2lb)	Stroke(in)	Stroke Frequency
CYJ10–3–53HF	100	3.0, 2.5, 2.1	4, 5, 6
CYJ10–5–53HF	100	5, 4.2, 3.6	3, 4, 5
CYJ10–6–53HF	100	6, 5.1, 4.2	2, 2.5, 3
CYJ12–5–73HF	120	5, 4.2, 3.6	3, 4, 5
CYJ12–6–73HF	120	6, 5.1, 4.2	2, 2.5, 3
CYJ14–5–73HF	140	5, 4.2, 3.6	3, 4, 5
CYJ14–6–89HF	140	6, 5.1, 4.2	2, 2.5, 3
CYJ16–6–105HF	160	6, 5.1, 4.2	2, 2.5, 3
CYJY10–3–53HF	100	3.0, 2.5, 2.1	4, 5, 6
RM–456D–213–120	213	120, 100, 86	4, 5, 6
CYJY10–5–53HF	100	5, 4.2, 3.6	3, 4, 5
RM–456D–213–197	213	197, 168,144	3, 4, 5
CYJY10–6–53HF	100	6, 5.1, 4.2	2, 2.5, 3
RM–456D–213–240	213	240,201,168	2, 2.5, 3
CYJY12–5–73HF	120	5, 4.2, 3.6, 3	3, 4, 5
RM–640D–256–197	256	197, 168,144	3, 4, 5
CYJY12–6–73HF	120	6, 5.1, 4.2	2, 2.5, 3
RM–640D–256–240	256	240,201,168	2, 2.5, 3
CYJY14–5–73HF	140	5, 4.2, 3.6	3, 4, 5
RM–640D–305–197	305	197, 168,144	3, 4, 5
CYJY14–6–89HF	140	6, 5.1, 4.2	2, 2.5, 3
CYJY16–6–89HF	160	6, 5.1, 4.2	2, 2.5, 3

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Complex Magnetoelectric Motor Pumping Unit

Product Features:

Driving motor is a new patented product.

Simple in structure, the motor can work clockwise and anti-clockwise.

Low energy cost, easy to operate and maintain.

With intelligent control system, the stroke and stroke frequency can be adjusted steplessly.

It can recognize the failure in the operation, send the alarm signal and brake automatically in time.

It is suitable for middle and deep wells.

Product Specifications:

Model	Max. polished Rod Load(KN)	Max. Stroke (m)	Stroke Frequency (rpm)	Motor Rated torque (kN·m)
WCYJW10–8–7.6Z	100	8	3	7.6
WCYJW12–8–9.6Z	120	8	3	9.6
WCYJW14–8–11.5Z	140	8	3	11.5
WCYJW16–8–13.5Z	160	8	3	13.5
WCYJW18–8–15.5Z	180	8	3	15.5
WCYJW20–8–17.5Z	200	8	3	17.5

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Vertical Intelligent Pumping Units

Product Explanation:

The vertical intelligent pumping unit is a new type pumping unit specially developed to meet the requirements of oilfields for high capacity and high load. The pumping unit is featured by stepless change of stroke and speed; rod break and power off protection; regular self checking, self diagnosis and trouble shooting. Suitable for heavy oil production.

Product Features:

Name	Model	Input shaft power of reducer (kW)	Rated load (10kN)	Max stroke (m)
Vertical intelligent pumping unit	CYJ20–8–235	235	20	8

Lower Deviated Compound Balanced Pumping Units

Product Explanation:

The pumping unit is based on the conventional pumping unit with a Lower deviated compound balancing device added to the end of the beam to realize balance accurately without hoisting. It has inherited all features conventional pumping units and has overcome their defects as difficult balancing and high energy consumption. Serial products cover a wide range, Model 3 to Model 14, and all sell well in domestic oilfields.

Product Specifications:

Name	Model	Rated torque of reducer(kN·m)	10kN Rated load (10kN)	Max stroke (m)
Downward deviated compound balanced pumping unit	CYJP6–2.5–26HF	26	6	2.5
Downward deviated compound balanced pumping unit	CYJP8–3–37HF	37	8	3.0
Downward deviated compound balanced pumping unit	CYJP10–3–53HF	53	10	3.0

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FRONT MOUNTED PUMPING UNITS

Product Features:

• Perfect counterbalance effect;

•To decrease Max. polished rod load and reducer torque Peak;

•Good energy saving result.

Product Specifications:

Model	CYJQ12–3.6–37 (H)B	CYJQ12–3.6–53 (H)B	CYJQ14–3.6–53 (H)B	CYJQ14–4.2–53 (H)B
API Unit Designation	C320D–256–144	C456D–256–144	C456D–305–144	C456D–305–168
Max. Polished Rod Capacity kN(lbs)	120(25600)	120(25600)	140(30500)	140(30500)
Max. Torque of GearReducer kN • m(inlbs)	37(320000)	53(456000)	53(456000)	53(456000)
Ratio of Reducer	30.68	30.8	30.8	30.8
Max.Strokes per Minute	12	12	12	10
Stroke Length mm/in	3658/144	3658/144	3658/144	4267/168
	3251/128	3251/128	3251/128	3785/149
	2845/112	2845/112	2845/112	3302/130

Model	CYJQ14–3.6–73 (H)B	CYJQ16–3.6–73 (H)B	CYJQ14–4.2–73 (H)B	CYJQ14–4.8–73 (H)B
API Unit Designation	C640D–305–144	C640D–365–144	C640D–305–168	C640D–305–192
Max. Polished Rod Capacity kN(lbs)	140(30500)	160(36500)	140(30500)	140(30500)
Max. Torque of Gear Reducer kN • m(in–lbs)	73(640000)	73(640000)	73(640000)	73(640000)
Ratio of Reducer	31.73	31.73	31.73	31.73
Max. Strokes per Minute	12	12	10	8
Stroke Length mm/in	3658/144	3658/144	4267/168	4877/192
	3251/128	3251/128	3785/149	4267/168
	2845/112	2845/112	3302/130	3658/144

Model	CYJQ14-4.2-105(H)B	CYJQ16-4.2-105(H)B	CYJQ14-4.8-105(H)B	CYJQ16-6-105(H)B
API Unit Designation	C912D-305-168	C912D-365-168	C912D-305-192	C912D-365-240
Max. Polished Rod Capacity kN(lbs)	140(30500)	160(36500)	140(30500)	160(36500)
Max. Torque of Gear Reducer kN.m(in–lbs)	105(912000)	105(912000)	105(912000)	105(912000)
Ratio of Reducer	35.43 (hree axes); 79.43(our axes)			
Max. Strokes per Minute	10	10	8	8
Stroke Length mm/in	4267/168	4267/168	4877/192	6000/240
	3785/149	3785/149	4267/168	5000/196
	3302/130	3302/130	3658/144	4000/157

CJT SERIES ECONOMICAL PACKAGE OF PUMPING UNIT

CJT economical package of pumping unit which according with the SY/T5226 standard, use for driving the conventional Walking Beam Pumping Unit.

Product Features:

NEMA Design: D 5–8% or 14–26% Slip
Enclosure: Totally Enclosed Fan Cooled (TEFC) or IP23
Insulation class: F
Voltage: 380 V, 660V,1140V/ 50 Hz or 460V / 60Hz; 3 Phase
Duty S1
Thermal protect with thermostats in winding

Product Specifications:

Synchronization speed: 1000 RPM 380 V 50 Hz

CJT–2	286T	15 (11kW)	24.1	918	8.18	81.3	0.853	313	117
CJT–3	326T	20 (15kW)	31.7	933	7.95	83.9	0.856	419	170
CJT–3L	326T	25 (18.5kW)	40.0	927	7.29	84.0	0.837	666	227
CJT–3.5	365T	35 (25kW)	49.3	921	7.90	84.1	0.924	799	280
CJT–4	405T	45 (33kW)	63.8	927	7.31	84.7	0.927	1013	373
CJT–5	445T	60 (45kW)	89.8	928	7.17	85.2	0.894	1818	580
CJT–6	445T	75 (55kW)	109.9	921	7.87	85.3	0.892	2805	756

Synchronization speed: 750 RPM 380 V 50 Hz

CJT–2	286T	10 (7.5kW)	19.0	685	8.64	79.4	0.755	284	79
CJT–3	326T	15 (11kW)	27.1	692	7.71	81.7	0.754	426	121
CJT–3L	326T	20 (15kW)	36.4	688	8.23	81.6	0.767	545	155
CJT–3.5	365T	25 (18.5kW)	38.8	695	7.37	84.4	0.858	932	231
CJT–4	405T	35 (25kW)	51.1	693	7.58	84.3	0.882	1095	288
CJT–5	445T	45 (33kW)	72.7	689	8.08	83.7	0.824	1762	405
CJT–6	445T	60 (45kW)	95.1	688	8.33	84.1	0.855	1987	494

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Synchronization speed: 1200 RPM 460 V 60 Hz

Model	Frame	Nameplate Horsepower (kW)	Full Load Amp. (A)	Full load RPM (r/min)	Slip (%)	Efficiency (%)	Power Factor	L.R. Torque (N.m)	Locked Rotor Amp. (A)
CJT–2	286T	15	26.3	1111	7.41	83.00	0.861	326	130
CJT–3	326T	22	37.9	1104	7.98	83.39	0.873	438	175
CJT–3L	326T	25	43.3	1121	6.57	85.47	0.843	690	252
CJT–3.5	365T	37	60.9	1105	7.88	84.32	0.904	863	318
CJT–4	405T	45	73.0	1119	6.68	85.75	0.903	1102	425
CJT–5	445T	63	101.4	1119	6.76	86.29	0.904	1898	647
CJT–6	445T	75	120.7	1114	7.19	86.49	0.902	3041	858

Synchronization speed: 900 RPM 460 V 60 Hz

CJT–2	286T	11	21.9	824	8.36	80.70	0.781	296	88.5
CJT–3	326T	15	29.6	833	7.42	83.01	0.767	437	130
CJT–3L	326T	18.5	36.8	832	7.55	83.26	0.759	618	170
CJT–3.5	365T	25	46.0	839	6.74	85.04	0.802	1010	263
CJT–4	405T	33	59.6	840	6.71	85.33	0.829	1193	328
CJT–5	445T	45	79.1	834	7.35	85.18	0.839	1865	454
CJT–6	445T	55	93.9	840	6.69	86.40	0.851	2051	546

Synchronization speed: 1000 RPM 380 V 50 Hz

CJT–2	286T	11	24.1	918	8.18	81.3	0.853	313	117
CJT–3	326T	15	31.7	933	7.95	83.9	0.856	419	170
CJT–3L	326T	18.5	40.0	927	7.29	84.0	0.837	666	227
CJT–3.5	365T	25	49.3	921	7.90	84.1	0.924	799	280
CJT–4	405T	33	63.8	927	7.31	84.7	0.927	1013	373
CJT–5	445T	45	89.8	928	7.17	85.2	0.894	1818	580
CJT–6	445T	55	109.9	921	7.87	85.3	0.892	2805	756

Synchronization speed: 750 RPM 380 V 50 Hz

CJT–2	286T	7.5	19.0	685	8.64	79.4	0.755	284	79
CJT–3	326T	11	27.1	692	7.71	81.7	0.754	426	121
CJT–3L	326T	15	36.4	688	8.23	81.6	0.767	545	155
CJT–3.5	365T	18.5	38.8	695	7.37	84.4	0.858	932	231
CJT–4	405T	25	51.1	693	7.58	84.3	0.882	1095	288
CJT–5	445T	33	72.7	689	8.08	83.7	0.824	1762	405
CJT–6	445T	45	95.1	688	8.33	84.1	0.855	1987	494

DIMENSIONS OF CJT SERIES ECONOMICAL PACKAGE OF PUMPING UNIT

YCH180	YCH180	YCH200	YCH225	YCH250	YCH280	YCH280L
H	$180_{-0.5}^{0}$	$200_{-0.5}^{0}$	$225_{-0.5}^{0}$	$250_{-0.5}^{0}$	$280_{-1.0}^{0}$	$280_{-1.0}^{0}$
A	279±0.65	318±0.7	356±0.7	406±0.775	457±1.4	457±1.4
B	241±0.575	267±0.65	311±0.65	349±0.7	368±1.4	419±1.4
K	$4\text{-}\Phi15_{0}^{+0.43}$	$4\text{-}\Phi19_{0}^{+0.52}$	$4\text{-}\Phi19_{0}^{+0.52}$	$4\text{-}\Phi24_{0}^{+0.52}$	$4\text{-}\Phi24_{0}^{+0.52}$	$4\text{-}\Phi24_{0}^{+0.52}$
D	$\Phi48_{-0.1}^{0}$	$\Phi55_{-0.12}^{0}$	$\Phi65_{-0.12}^{0}$	$\Phi75_{-0.12}^{0}$	$\Phi85_{-0.14}^{0}$	$\Phi85_{-0.12}^{0}$
D1	M30X2-6g	M36x3-6g	M42x3-6g	M48x3-6g	M56x4-6g	M56x4-6g
E	110	110	140	140	170	170
E1	82	82	105	105	130	130
G	$38.85_{-0.2}^{0}$	$45.4_{-0.2}^{0}$	$53.75_{-0.2}^{0}$	$62.75_{-0.2}^{0}$	$70.95_{-0.2}^{0}$	$70.95_{-0.2}^{0}$
F	12 N9/h9	14 N9/h9	16 N9h9	18 N9h9	20 N9/h9	20 N9/h9
GD	8 h11	9 h11	10 h11	11 h11	12 h11	12 h11
L	728	809	910	958.5	1080	1156
WZ	614	675	720	755	825	840
HC	744	764	785	814	990	990
C	140.5	156	160	176.5	204	201.5
CC	125	130	160	158	193	190
HA	22	25	28	34	35	38
AB	327	366	425	490	545	545
BB	308	350	385	430	464	554
AD	440	470	485	505	535	566
Weight	123kg	180kg	260kg	320kg	440kg	600kg