

Westerman Companies
First and Foremost in Oil and Gas Production Equipment

ALTEN D6 PUMPING UNITS

John Fisher Gove



MODEL SHOWN 6-32F-16

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.24:1. Torque rating 6400 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

P/g Parts Todd Cape 740-569-4143 Ext. 224 Todd Ext. 268 Jim

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
 Range of Strokes, in.
 Well Working Center, in.
 Well Clearance with Horsehead Removed, in.
 Walking Beam Section, in. and lbs.
 Height of Walking Beam Above Foundation, in.
 Height of Saddle Above Foundation, in.
 Overall Length of Base, in.
 Width of Base at Samson Post, in.
 Base Beam Section, in. and lbs.
 Section of Pitman, in. (Tee)
 Wrist Pin Bearings
 Saddle and Equalizer Bearings
 Beam Counterweights, lbs.
 Polished Rod Hanger Cable, in.
 Distance from Hanger to Foundation at Bottom Stroke, in.
 Weight of Unit Less Beam Weights
 Counterbalance at Max. Stroke, lbs.

6-32F-16	6-21F-24
3200	2100
14, 16	21, 24
27	36
6½	9
8 @ 13	8 @ 13
58 1/8	58 1/8
48	48
73	73
18	18
4 @ 5.4	4 @ 5.4
2 x 2 x ¼	2 x 2 x ¼
Self Aligning Roller	
Bronze Bushed	
100	100
3/8	3/8
18	14
650	670
2470	1850

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 6,400 in. lbs.
 Reduction Ratio (Double Reduction) 30.262:1
 Weight of Complete Reducer (less oil) 195 lbs.
 Bearings, Tapered Roller 30,000 Hrs. Min. Life
 Sheave Section 1 Groove A-B
 Sheave Pitch Diameter 12"
 Oil Capacity 1 Gal.

740-569-4143



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
 Alten Engineering
 Div. of Westerman Companies

ALTEN D10 PUMPING UNITS



MODEL SHOWN 10-32F-16

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.24:1. Torque rating 10,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
 Range of Strokes, in.
 Well Working Center, in.
 Well Clearance with Horsehead Removed, in.
 Walking Beam Section, in. and lbs.
 Height of Walking Beam above Foundation, in.
 Height of Saddle Above Foundation, in.
 Overall Length of Base, in.
 Width of Base at Samson Post, in.
 Base Beam Section, in. and lbs.
 Section of Pitman, in. (Tee)
 Wrist Pin Bearings
 Saddle and Equalizer Bearings
 Beam Counterweights, lbs.
 Polished Rod Hanger Cable
 Hanger to Foundation at Bottom Stroke, in.
 Weight of Unit Less Beam Weights
 Counterbalance at Max. Stroke, lbs.

<u>10-32F-16</u>	<u>10-21F-24</u>
3200	2100
14, 16	21, 24
27	36
6½	9
8 @ 13	8 @ 13
58-1/8	58-1/8
48	48
73	73
18	18
4 @ 5.4	4 @ 5.4
2 x 2 x ¼	2 x 2 x ¼
Self Aligning Roller Bronze Bushed	
100	100
3/8	3/8
18	14
670	690
2470	1850

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 10,000 in. lbs.
 Reduction Ratio (Double Reduction) 30.262:1
 Weight of Complete Reducer (less oil) 195 lbs.
 Bearings, Tapered Roller 30,000 Hrs. Min. Life
 Sheave Section 2 Groove A-B
 Sheave Pitch Diameter 12"
 Oil Capacity 1 Gal.



Westerman Companies
 299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
 Alten Engineering
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ALTEN D16 PUMPING UNITS



MODEL SHOWN 16-53F-24 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 33.2:1. Torque rating 16,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Removed, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, in.
Height of Saddle above Foundation, in.
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Sampson Post, ft. - in. (with "T" Base)
Width of Base at Sampson Post, ft. - in. (with "P" Base)
Base Beam Section, in. and lbs.
Section of Pitman, in. (tee)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Beam Counterweights, lbs.
Polished Rod Hanger Cable, in.
Hanger to Foundation at Bottom Stroke, in.
Weight of Unit less Beam Weights
Counterbalance at Max. Stroke, lbs.

STRUCTURE SPECIFICATIONS

BP4F-16-24	16-53F-24	16-43F-30
5300	5300	4300
20, 22, 24	20, 22, 24	25½, 27½, 30
32	32	40
7	7	15
8 @ 21	8 @ 21	8 @ 21
77 1/8	77 1/8	77 1/8
66¼	66¼	66¼
8 - 3 7/8	8 - 3 7/8	8 - 3 7/8
8 - 3 7/8		
	2 - 1 7/8	2 - 1 7/8
3 - 5		
5 @ 6.7	5 @ 6.7	5 @ 6.7
2 x 2 x ¼	2 x 2 x ¼	2 x 2 x ¼
	Self Aligning Roller	
	Bronze Bushed	
100	100	100
1/2	1/2	1/2
26	26	20
1230	1090	1120
4265	4265	3390

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 16,000 in. lbs.
Reduction Ratio (Double Reduction) 33.198:1
Weight of Complete Reducer (less oil) 360 lbs.
Bearings Tapered Roller
Sheave Section 2 Groove B
Sheave Pitch Diameter 12½"
Oil Capacity 2 Gallons
Brake Automotive Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
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ALTEN D25 PUMPING UNITS



MODEL SHOWN 25-67F-30 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 28.4:1. Torque rating 25,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

- Unit Structure Rating, A.P.I., lbs.
- Range of Strokes, in.
- Well Working Center, in.
- Well Clearance with Horsehead Tipped, in.
- Walking Beam Section, in. and lbs.
- Height of Walking Beam above Foundation, in.
- Height of Saddle Above Foundation, in.
- Overall Length of Base, ft. - in. (with "T" Base)
- Overall Length of Base, ft. - in. (with "P" Base)
- Width of Base at Samson Post, ft. - in. (with "T" Base)
- Width of Base at Samson Post, ft. - in. (with "P" Base)
- Base Beam Section, in. and lbs.
- Section of Pitman, in. and lbs. (Channel)
- Wrist Pin Bearings
- Saddle and Equalizer Bearings
- Beam Counterweights, lbs.
- Polished Rod Hanger Cable, in.
- Hanger to Foundation at Bottom Stroke, in.
- Weight of Unit less Beam Weights, lbs.
- Counterbalance at Max. Stroke, lbs.

25-67F-30	25-56F-36 ²⁷⁵⁰
6700	5600
23, 26, 30	27, 31, 36
39	46-3/4
12	19-3/4
10 @ 26	10 @ 26
7 - 6	7 - 6
6 - 5	6 - 5
9 - 10	9 - 10
9 - 10	9 - 10
2 - 9 3/8	2 - 9 3/8
3 - 10	3 - 10
6 @ 8.2	6 @ 8.2
3 @ 4.1	3 @ 4.1
Self Aligning Roller Bronze Bushed	
110	110
5/8	5/8
27	21
1970	2000
5250	4410

GEAR REDUCER SPECIFICATIONS

- Peak Torque Rating, A.P.I. 25,000 in. lbs.
- Reduction Ratio (Double Reduction) 28.378:1
- Weight of Complete Reducer (less oil) 630 lbs.
- Bearings Tapered Roller
- Sheave Section 3 B
- Sheave Pitch Diameter 16.125"
- Oil Capacity 4.5 Gal.
- Brake Automotive Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
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ALTEN D40 PUMPING UNITS



MODEL SHOWN 40-89F-36 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 28.4:1. Torque rating 40,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in.
Height of Saddle Above Foundation, ft. - in.
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post, ft. - in. (with "T" Base)
Width of Base at Samson Post, ft. - in. (with "P" Base)
Base Beam Section, in. and lbs. (with "T" Base)
Base Beam Section, in. and lbs. (with "P" Base)
Section of Pitman, in. and lbs. (Channel)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Beam Counterweights, lbs.
Polished Rod Hanger Cable, in.
Hanger to Foundation at Bottom Stroke, ft. - in.
Weight of Unit Less Beam Weights, lbs. (with "T" Base)
Weight of Unit Less Beam Weights, lbs. (with "P" Base)
Counterbalance at Max. Stroke, lbs.

40-89F-36

8900
30, 33, 36
48
10
12 @ 30
8 - 7 3/8
7 - 4
7 - 11 3/8
15 - 2
3 - 2 1/2
5 - 6
8 @ 11.5
8 @ 13 & 8 @ 17
4 @ 5.4

120
3/4
2 - 7
3075
3500
6145

40-76F-42

7600
33, 37, 42
56
18
12 @ 30
8 - 7 3/8
7 - 4
7 - 11 3/8
15 - 2
3 - 2 1/2
5 - 6
8 @ 11.5
8 @ 13 & 8 @ 17
4 @ 5.4

Self Aligning Roller
Bronze Bushed
120
3/4
2 - 1
3105
3530
5245

GEAR REDUCER SPECIFICATIONS

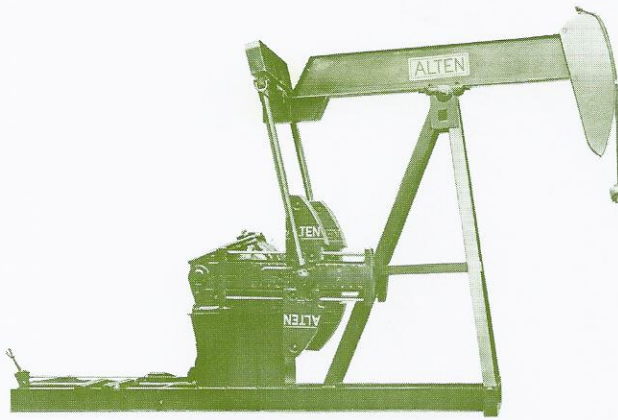
Peak Torque Rating, A.P.I. 40,000 in. lbs.
Reduction Ratio (Double Reduction) 28.235:1
Weight of Complete Reducer (less oil) 820 lbs.
Bearings Tapered and Straight Roller
Sheave Section 4 B
Sheave Pitch Diameter 16.75"
Oil Capacity 7 Gal.
Brake Automotive Type



Westerman Companies
299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
Div. of Westerman Companies

ALTEN D40 PUMPING UNITS



MODEL SHOWN 40-89CF-36 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 28.4:1. Torque rating 40,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in.
Height of Saddle above Foundation, ft. - in.
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post, ft. - in. (with "T" Base)
Width of Base at Samson Post, ft. - in. (with "P" Base)
Base Beam Section, in. and lbs. (with "T" Base)
Base Beam Section, in. and lbs. (with "P" Base)
Section of Pitman, in. (Pipe)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Polished Rod Hanger Cable, in.
Hanger to Foundation at Bottom Stroke, ft. - in.
Approx. Weight of Unit with Standard Weights, lbs. (with "T" Base)
Approx. Weight of Unit with Standard Weights, lbs. (with "P" Base)
Counterbalance at Max. Stroke, lbs.

<u>40-89CF-36</u>	<u>40-76CF-42</u>	<u>40-89CF-42</u>
8900	7600	8900
21, 28½, 36	24, 33, 42	24, 33, 42
48	56	56
10	18	11
12 @ 30	12 @ 30	12 @ 36
9 - 9 7/8	9 - 9 7/8	9 - 9 7/8
8 - 6 1/2	8 - 6 1/2	8 - 6 1/2
7 - 11 3/8	7 - 11 3/8	7 - 11 3/8
15 - 2	15 - 2	15 - 2
3 - 2 1/2	3 - 2 1/2	3 - 2 1/2
5 - 6	5 - 6	5 - 6
8 @ 11.5	8 @ 11.5	8 @ 11.5
8@13 & 8@17	8@13 & 8@17	8@13 & 8@17
2 - 1/2	2 - 1/2	2 - 1/2
	Self Aligning Roller Bronze Bushed	
3/4	3/4	3/4
2 - 7	2 - 1	2 - 1
7020	7050	7120
7450	7480	7550
8770	7490	6950

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 40,000 in. lbs.
Reduction Ratio (Double Reduction) 28.235:1
Weight of Complete Reducer (less oil) 820 lbs.
Bearings Tapered and Straight Roller
Sheave Section 4 B
Sheave Pitch Diameter 16.75"
Oil Capacity 7 Gal.
Brake Automotive Type

 **Westerman Companies**
299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
Div. of Westerman Companies

ALTEN D57 PUMPING UNITS



MODEL SHOWN 57-109CF-42 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.9:1. Torque rating 57,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)
Height of Saddle above Foundation, ft. - in. (with "T" Base)
Height of Saddle above Foundation, ft. - in. (with "P" Base)
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post, ft. - in. (with "T" Base)
Width of Base at Samson Post, ft. - in. (with "P" Base)
Base Beam Section, in. and lbs. (with "T" Base)
Base Beam Section, in. and lbs. (with "P" Base)
Section of Pitman, in. (Pipe)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Polished Rod Hanger Cable, in.
Distance from Hanger to Foundation at Bottom Stroke, ft. - in. (with "T" Base)
Distance from Hanger to Foundation at Bottom Stroke, ft. - in. (with "P" Base)
Weight of Unit with Standard Crank Weights, lbs. (with "T" Base)
Weight of Unit with Standard Crank Weights, lbs. (with "P" Base)
Counterbalance at Max. Stroke, lbs.

57-109CF-42

10,900
22, 32, 42
57
14 1/2
14 @ 43
10 - 7 5/8
10 - 9 5/8
9 - 2 1/4
9 - 4 1/4
9 - 10
17 - 8
3 - 2 1/2
6 - 6
8 @ 17
10 @ 17 & 10 @ 22
2-1/2

57-95CF-48

9500
28, 38, 48
65
16 1/2
14 @ 43
10 - 7 5/8
10 - 9 5/8
9 - 2 1/4
9 - 4 1/4
9 - 10
17 - 8
3 - 2 1/2
6 - 6
8 @ 17
10 @ 17 & 10 @ 22
2-1/2

Self Aligning Roller
Bronze Bushed

3/4
4 - 5
4 - 5
9965
10,665
9215

3/4
4 - 5
3 - 11
10,120
10,820
8865

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 57,000 in. lbs.
Reduction Ratio (Double Reduction) 30.879:1
Weight of Complete Reducer (less oil) 1470 lbs.
Bearings Tapered and Straight Roller
Sheave Section 4 B
Sheave Pitch Diameter 19"
Oil Capacity 4 Gal.
Brake Automotive Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
Div. of Westerman Companies

ALTEN D57 PUMPING UNITS



MODEL SHOWN 57-95F-48 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.9:1. Torque rating 57,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in.
Height of Saddle Above Foundation, ft. - in.
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post, ft. - in. (with "T" Base)
Width of Base at Samson Post, ft. - in. (with "P" Base)
Base Beam Section, in. and lbs.
Section of Pitman, in. (Pipe)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Beam Counterweights, lbs.
Polished Rod Hanger Cable, in.
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.
Weight of Unit less Crank Weights, lbs.
Counterbalance at Max. Stroke, lbs.

57-95F-48P

9500
42, 48
65
16
14 @ 43
10 - 9 5/8
9 - 4 1/4
Not Presently Available
17 - 8
Not Presently Available
6 - 6
10 @ 17; 10 @ 22
5 @ 6.7
Self Aligning Roller
Bronze Bushed
250
3/4
2 - 2
4000
9143

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 57,000 in. lbs.
Reduction Ratio (Double Reduction) 30.879:1
Weight of Complete Reducer (less oil) 1470 lbs.
Bearings Tapered and Straight Roller
Sheave Section 4 B
Sheave Pitch Diameter 19"
Oil Capacity 4 Gal.
Brake Automotive Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
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Div. of Westerman Companies

ALTEN D80 PUMPING UNITS



MODEL SHOWN 80-109CF-42 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.5:1. Torque rating 80,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

	80-109CF-42	80-95CF-48	80-119CF-54	80-133CF-54
Unit Structure Rating, A.P.I., lbs.	10,900	9500	11,900	13,300
Range of Strokes, in.	22, 32, 42	28, 38, 48	34, 44, 54	34, 44, 54
Well Working Center, in.	57	65	72	72
Well Clearance with Horsehead Tipped, in.	14 1/2	16 1/2	18	18
Walking Beam Section, in. and lbs.	14 @ 43	14 @ 43	18 @ 50	18 @ 55
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)	10 - 7 5/8	10 - 7 5/8	13 - 3 7/8	13 - 4
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)	10 - 9 5/8	10 - 9 5/8	13 - 6	13 - 6 1/8
Height of Saddle above Foundation, ft. - in. (with "T" Base)	9 - 2 1/4	9 - 2 1/4	11 - 6 1/8	11 - 6 1/8
Height of Saddle above Foundation, ft. - in. (with "P" Base)	9 - 4 1/4	9 - 4 1/4	11 - 8 1/4	11 - 8 1/4
Overall Length of Base, ft. - in. (with "T" Base)	9 - 10	9 - 10	12 - 3 5/16	12 - 3 5/16
Overall Length of Base, ft. - in. (with "P" Base)	17 - 8	17 - 8	20 - 0 1/2	20 - 0 1/2
Width of Base at Samson Post, ft. - in. (with "T" Base)	3 - 2 1/2	3 - 2 1/2	4 - 8	4 - 8
Width of Base at Samson Post, ft. - in. (with "P" Base)	6 - 6	6 - 6	6 - 6	6 - 6
Base Beam Section, in. and lbs. (with "T" Base)	8 @ 17	8 @ 17	10 @ 22	10 @ 22
Base Beam Section, in. and lbs. (with "P" Base)	10 @ 17 & 10 @ 22	10 @ 17 & 10 @ 22	12 @ 22 & 12 @ 27	12 @ 22 & 12 @ 27
Section of Pitman, in. (pipe)	2-1/2	2-1/2	3	3
Wrist Pin Bearings			Self Aligning Roller Bronze Bushed	
Saddle and Equalizer Bearings				
Polished Rod Hanger Cable, in.	3/4	3/4	7/8	7/8
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.	4 - 5	3 - 11	4 - 4	4 - 4
Weight of Unit with std. Crank Weights, lbs. (with "T" Base)	10,795	10,850	12,500	12,600
Weight of Unit with std. Crank Weights, lbs. (with "P" Base)	10,895	10,950	13,000	13,100
Counterbalance at Max. Stroke, lbs.	9215	8865	11,360	11,360

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I.	80,000 in. lbs.
Reduction Ratio (Double Reduction)	30.515:1
Weight of Complete Reducer (less oil)	2300 lbs.
Bearings	Tapered and Straight Roller
Sheave Section	4 B
Sheave Pitch Diameter	20"
Oil Capacity	17 Gal.
Brake	9" Truck Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Altén Engineering
Div. of Westerman Companies

ALTEN D114 PUMPING UNITS



CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.9:1. Torque rating 114,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

MODEL SHOWN 114-119CF-54 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

STRUCTURE SPECIFICATIONS

UNIT MODEL

	<u>114-119CF-54</u>	<u>114-133CF-54</u>	<u>114-143CF-64</u>	<u>114-169CF-64</u>
Unit Structure Rating, A.P.I., lbs.	11,900	13,300	14,300	16,900
Range of Strokes, in.	34, 44, 54	34, 44, 54	44, 54, 64	44, 54, 64
Well Working Center, in.	72	72	81	81
Well Clearance with Horsehead Tipped, in.	18	18	17	17
Walking Beam Section, in. and lbs.	18 @ 50	18 @ 55	21 @ 62	21 @ 73
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)	13 - 3 7/8	13 - 4	13 - 7	15 - 7 1/2
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)	13 - 6 1/8	13 - 6 1/8	13 - 9 1/8	15 - 9 1/2
Height of Saddle above Foundation, ft. - in. (with "T" Base)	11 - 6 1/8	11 - 6 1/8	11 - 6 1/4	13 - 6
Height of Saddle above Foundation, ft. - in. (with "P" Base)	11 - 8 1/4	11 - 8 1/4	11 - 8 1/4	13 - 8
Overall Length of Base, ft. - in. (with "T" Base)	12 - 3 5/16	12 - 3 5/16	12 - 3 5/16	20 - 4 1/2
Overall Length of Base, ft. - in. (with "P" Base)	20 - 0 1/2	20 - 0 1/2	20 - 0 1/2	22 - 4 1/2
Width of Base at Samson Post, ft. - in. (with "T" Base)	4 - 8	4 - 8	4 - 8	5 - 9
Width of Base at Samson Post, ft. - in. (with "P" Base)	6 - 6	6 - 6	6 - 6	7 - 4
Base Beam Section, in. and lbs. (with "T" Base)	10 @ 22	10 @ 22	10 @ 22	12 @ 27
Base Beam Section, in. and lbs. (with "P" Base)	12@22 & 12@27	12@22 & 12@27	12@22 & 12@27	14@30 & 14@22
Section of Pitman, in. (pipe)	3	3	3	3
Wrist Pin Bearings			Self Aligning Roller	
Saddle and Equalizer Bearings			Bronze Bushed	
Polished Rod Hanger Cable, in.	7/8	7/8	1	1
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.	4 - 4	4 - 4	3 - 10	4 - 6
Weight of Unit with std. Crank Weights, lbs. (with "T" Base)	12,600	12,700	13,100	16,200
Weight of Unit with std. Crank Weights, lbs. (with "P" Base)	13,800	13,900	14,300	18,000
Counterbalance at Max. Stroke, lbs.	11,360	11,360	11,335	15,300

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I.	114,000 in. lbs.
Reduction Ratio (Double Reduction)	30.879:1
Weight of Complete Reducer (less oil)	2400 lbs.
Bearings	Tapered and Straight Roller
Sheave Section	4 C
Sheave Pitch Diameter	20"
Oil Capacity	20 Gal.
Brake	9 in. Truck Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
Div. of Westerman Companies

ALTEN D160 PUMPING UNITS



MODEL SHOWN 160-169CF-64 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.2:1. Torque rating 160,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)
Height of Saddle above Foundation, ft. - in. (with "T" Base)
Height of Saddle above Foundation, ft. - in. (with "P" Base)
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post, ft. - in. (with "T" Base)
Width of Base at Samson Post, ft. - in. (with "P" Base)
Base Beam Section, in. and lbs. (with "T" Base)
Base Beam Section, in. and lbs. (with "P" Base)
Section of Pitman, in. (Pipe)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Polished Rod Hanger Cable, in.
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.
Weight of Unit with std. Crank Weights, lbs. (with "T" Base)
Weight of Unit with std. Crank Weights, lbs. (with "P" Base)
Counterbalance at Max. Stroke, lbs.

160-169CF-64	160-173CF-74	160-200CF-74
16,900	17,300	20,000
44, 54, 64	54, 64, 74	54, 64, 74
81	96	96
20	24	24
21 @ 68	24 @ 84	24 @ 94
15 - 7 3/8	15 - 10 1/2	17 - 11
15 - 9 3/8	16 - 0 1/2	
13 - 6 1/4	13 - 6 1/4	15 - 6
13 - 8 1/4	13 - 8 1/4	
13 - 2 1/4	13 - 2 1/4	14 - 10 3/4
22 - 6 3/4	22 - 4 1/2	
5 - 9 1/8	5 - 9 1/8	6 - 0
7 - 8	7 - 8	
12 @ 26	12 @ 26	14 @ 30
14@22 & 14@30	14@22 & 14@30	
3	3	3
	Self Aligning Roller	
	Bronze Bushed	
1	1	1
4 - 5	3 - 9 1/2	5 - 10
19,050	19,900	21,350
20,250	21,100	
14,610	11,780	16,865

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 160,000 in. lbs.
Reduction Ratio (Double Reduction) 30.331:1
Weight of Complete Reducer (less oil) 3300 lbs.
Bearings Tapered and Straight Roller
Sheave Section 5 C
Sheave Pitch Diameter 24"
Oil Capacity 30 Gal.
Brake 14 in. Truck Type



Westerman Companies

299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
Div. of Westerman Companies

ALTEN D228 PUMPING UNITS



MODEL SHOWN 228-200CF-74 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30.1:1. Torque rating 228,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)
Height of Saddle above Foundation, ft. - in. (with "T" Base)
Height of Saddle above Foundation, ft. - in. (with "P" Base)
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post, ft. - in. (with "T" Base)
Width of Base at Samson Post, ft. - in. (with "P" Base)
Section of Pitman, in. (Pipe)
Base Beam Section, in. and lbs. (with "T" Base)
Base Beam Section, in. and lbs. (with "P" Base)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Polished Rod Hanger Cable, in.
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.
Weight of Unit with std. Crank Weights, lbs. (with "T" Base)
Weight of Unit with std. Crank Weights, lbs. (with "P" Base)
Counterbalance at Max. Stroke, lbs.

	228-200CF-74	228-212CF-86	228-246CF-86
Unit Structure Rating, A.P.I., lbs.	20,000	21,200	24,600
Range of Strokes, in.	54, 64, 74	66, 76, 86	66, 76, 86
Well Working Center, in.	96	111	111
Well Clearance with Horsehead Tipped, in.	24	26	26
Walking Beam Section, in. and lbs.	24 @ 94	24 @ 104	24 @ 104
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)	17 - 10 3/4	17 - 10 3/4	20 - 4 5/8
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)			20 - 6 5/8
Height of Saddle above Foundation, ft. - in. (with "T" Base)	15 - 6	15 - 6	18 - 0
Height of Saddle above Foundation, ft. - in. (with "P" Base)			18 - 2
Overall Length of Base, ft. - in. (with "T" Base)	14 - 10 3/4	14 - 10 3/4	18 - 10 7/8
Overall Length of Base, ft. - in. (with "P" Base)			33 - 0 1/2
Width of Base at Samson Post, ft. - in. (with "T" Base)	6 - 0	6 - 0	6 - 0
Width of Base at Samson Post, ft. - in. (with "P" Base)			7 - 11
Section of Pitman, in. (Pipe)	3	3	4
Base Beam Section, in. and lbs. (with "T" Base)	14 @ 30	14 @ 30	14 @ 30
Base Beam Section, in. and lbs. (with "P" Base)			16 @ 36
Wrist Pin Bearings		Self Aligning Roller	
Saddle and Equalizer Bearings		Bronze Bushed	
Polished Rod Hanger Cable, in.	1	1 1/8	1 1/8
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.	5 - 10	5 - 9 1/8	8 - 3
Weight of Unit with std. Crank Weights, lbs. (with "T" Base)	22,300	22,700	28,100
Weight of Unit with std. Crank Weights, lbs. (with "P" Base)			29,650
Counterbalance at Max. Stroke, lbs.	16,865	16,170	21,470

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 228,000 in. lbs.
Reduction Ratio (Double Reduction) 30.126:1
Weight of Complete Reducer (less oil) 4250 lbs.
Bearings Tapered and Straight Roller
Sheave Section 6 C
Sheave Pitch Diameter 24"
Oil Capacity 30 Gal.
Brake 14 in. Truck Type



Westerman Companies
299 North Broad St., Bremen, Ohio 43107 614/569-4148

Manufactured by:
Alten Engineering
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ALTEN D320 PUMPING UNITS



MODEL SHOWN 320-246CF-86 (with Narrow or "T" Base)
(Also supplied with Wide Base as "P" Model)

CONSTRUCTION FEATURES

Rigid, all-welded steel Samson Post, Frame and Walking Beam.

Quality Gear Reducer. Hardened alloy gears and pinions. Roller bearing equipped. Double reduction ratio: 30:1. Torque rating 320,000 in. lbs.

Adjustable stroke length.

Wrist Pins equipped with double row, spherical, self-aligning roller bearings.

Note: All engineering data is subject to change without notice.

STRUCTURE SPECIFICATIONS

UNIT MODEL

Unit Structure Rating, A.P.I., lbs.
Range of Strokes, in.
Well Working Center, in.
Well Clearance with Horsehead Tipped, in.
Walking Beam Section, in. and lbs.
Height of Walking Beam above Foundation, ft. - in. (with "T" Base)
Height of Walking Beam above Foundation, ft. - in. (with "P" Base)
Height of Saddle above Foundation, ft. - in. (with "T" Base)
Height of Saddle above Foundation, ft. - in. (with "P" Base)
Overall Length of Base, ft. - in. (with "T" Base)
Overall Length of Base, ft. - in. (with "P" Base)
Width of Base at Samson Post (with "T" Base)
Width of Base at Samson Post (with "P" Base)
Base Beam Section, in. and lbs. (with "T" Base)
Base Beam Section, in. and lbs. (with "P" Base)
Section of Pitman, in. (Pipe)
Wrist Pin Bearings
Saddle and Equalizer Bearings
Polished Rod Hanger Cable, in.
Distance from Hanger to Foundation at Bottom Stroke, ft. - in.
Weight of Unit with std. Crank Weights, lbs. (with "T" Base)
Weight of Unit with std. Crank Weights, lbs. (with "P" Base)
Counterbalance at Max. Stroke, lbs.

320-246CF-86	320-256CF-100
24,600	25,600
66, 76, 86	76, 88, 100
111	129
26	33
24 @ 104	27 @ 146
20 - 4 5/8	20 - 8
20 - 6 5/8	20 - 10
18 - 0	18 - 0
18 - 2	18 - 2
18 - 10 7/8	18 - 10 7/8
33 - 0 1/2	33 - 0 1/2
6 - 0	6 - 0
7 - 11	7 - 11
14 @ 30	14 @ 30
16 @ 36	16 @ 36
4	4
Self Aligning Roller Bronze Bushed	
1 1/8	1 1/8
8 - 3	7 - 1
30,750	31,950
32,300	33,500
21,470	21,700

GEAR REDUCER SPECIFICATIONS

Peak Torque Rating, A.P.I. 320,000 in. lbs.
Reduction Ratio (Double Reduction) 29.975:1
Weight of Complete Reducer (less oil) 6900 lbs.
Bearings Tapered and Straight Roller
Sheave Section 6 C
Sheave Pitch Diameter 32"
Oil Capacity 52 Gal.
Brake 14 in. Truck Type



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