

BEAM PUMPING UNIT



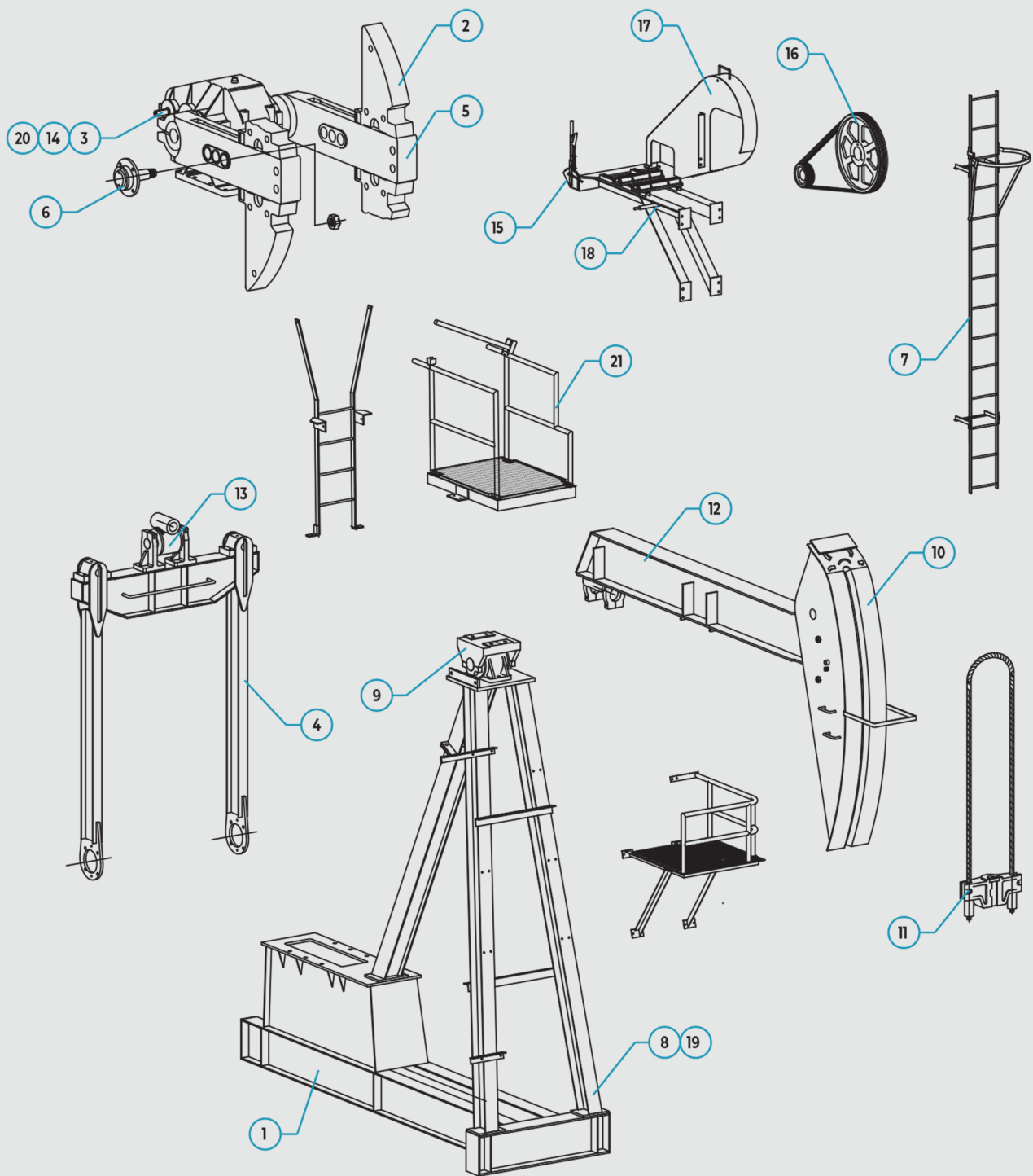
About Us

Starting its operation in 1986 the Company until now was supplied more than 6500 pumps of various model and specifications to fulfill the demand from oil companies in Indonesia. Having production capacity of 60 units per month, for any pump types, Conventional Crank Balance Model, Beam Balance Model and Mark II Model. Bukaka Pumping Unit is the biggest pumping unit fabrication in Indonesia. The design and manufacture are in line with API 11 E Standard.

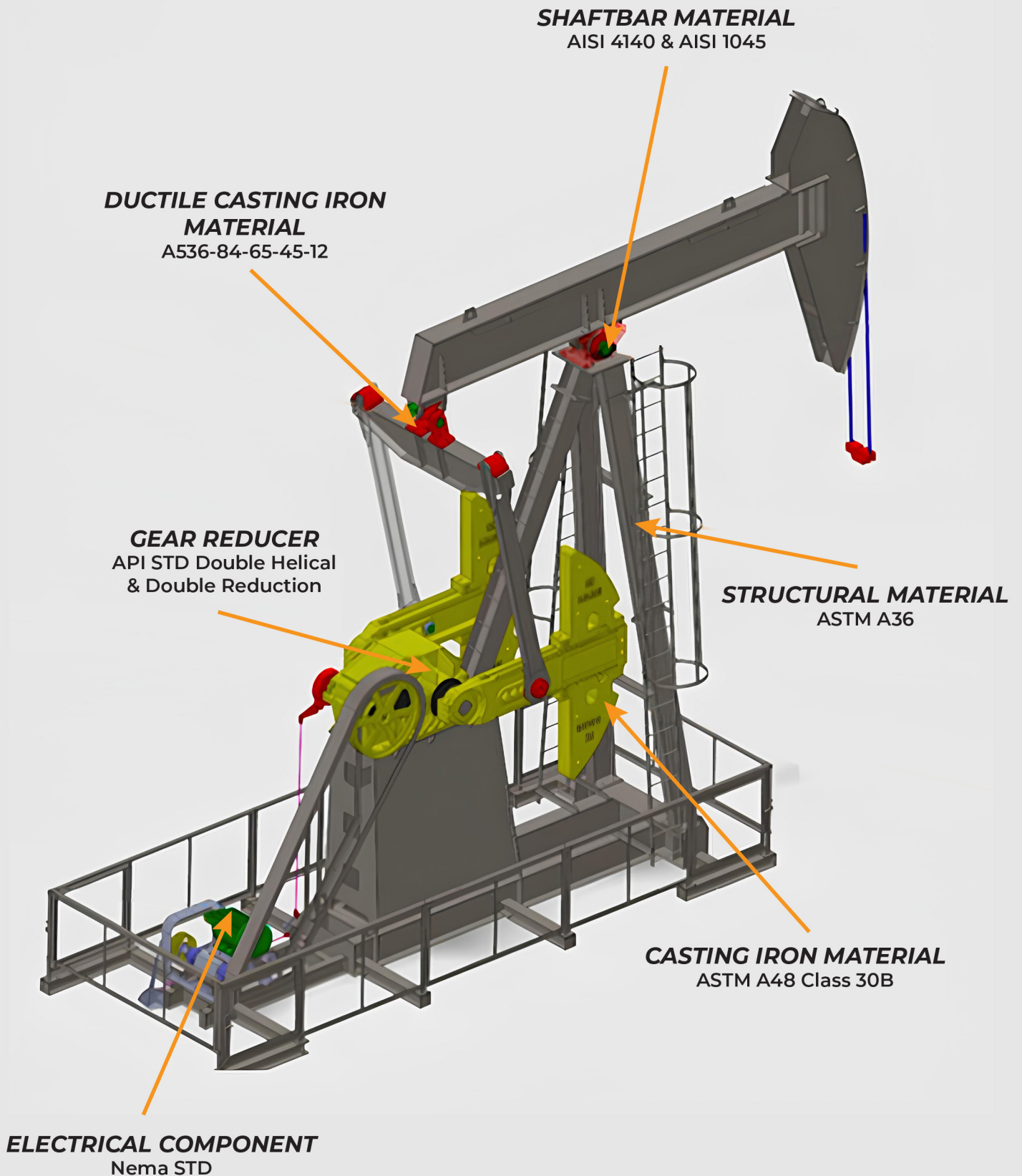
Pumping Unit are still applied at many oil fields worldwide for its simplicity, reliability and low cost. We already delivered to oil local company and overseas.

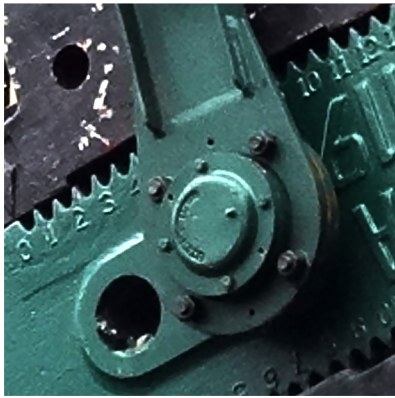


BEAM PUMPING UNIT



1	FRAME BASE ASS'Y	8	F2AMSON POST ASS'Y	15	RACHET BRAKE HANDLE AS3Y
2	COUNTER WEIGHT ASS'Y	9	SADDLE BEARING ASS'Y	16	PULLEY & V-BELT ASS'Y
3	GEAR REDUCER	10	HORSE HEAD A33'Y	17	BELT GUARD ASS'Y
4	EQUALIZER & PITMAN ASS'Y	11	WIRE LINE & CARRIER BAR ASS'Y	18	FRAME EXTENSION ASS'Y
5	CRANK ASS'Y	12	WALKING BEAM	19	LUBRICATION SYSTEM
6	WRIST PIN BEARING ASS'Y	13	TAIL BEARING AS3'Y	20	OIL LEVEL
7	LADDER ASS'Y	14	DRUM BRAKE AS3'Y	21	PLATFORM FRAME EXTENSION

**BEAM PUMPING UNIT
SPECIFICATION**



WRISTPIN BEARING, CRANK AND COUNTERWEIGHT ASSEMBLY

The housing is made of Ductile Iron with Bearing type is Double Row Spherical Roller Bearing, rating fatigue life more than 100.000 hours.

Crank Arm is made of Cast Iron Class 30 with the Tappered for Wristpin holes to give high protection againts loosing.



SADDLE BEARING ASSEMBLY

Bearing type is design with Double Row Spherical Roller Bearing, to comply API Load Ratio 3 (three) times more with rating fatigue life more than 100.000 hours.

The housing is made of Ductile Iron.



TAIL BEARING ASSEMBLY

Bearing type is design with Double Row Spherical Roller Bearing rating fatigue life more than 100.000 hours.

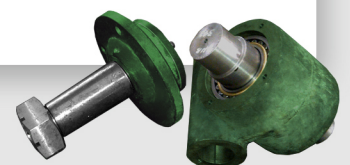
The housing is made of Ductile Iron.



TAIL BEARING ASSEMBLY

We have over 30 year experiences in maintenance and repair pumping unit but not limited to supply spare part pumping unit and recondition gear reducer. We have the expertise to complete the job and parts and equipment to get you pumping again quickly with low cost and competitive price.

We use original spare parts of high quality for all repairs and install them professionally. This increases the service life of the investment and your equipment remains in the best possible condition for many years.



BEAM PUMPING UNIT SIZE

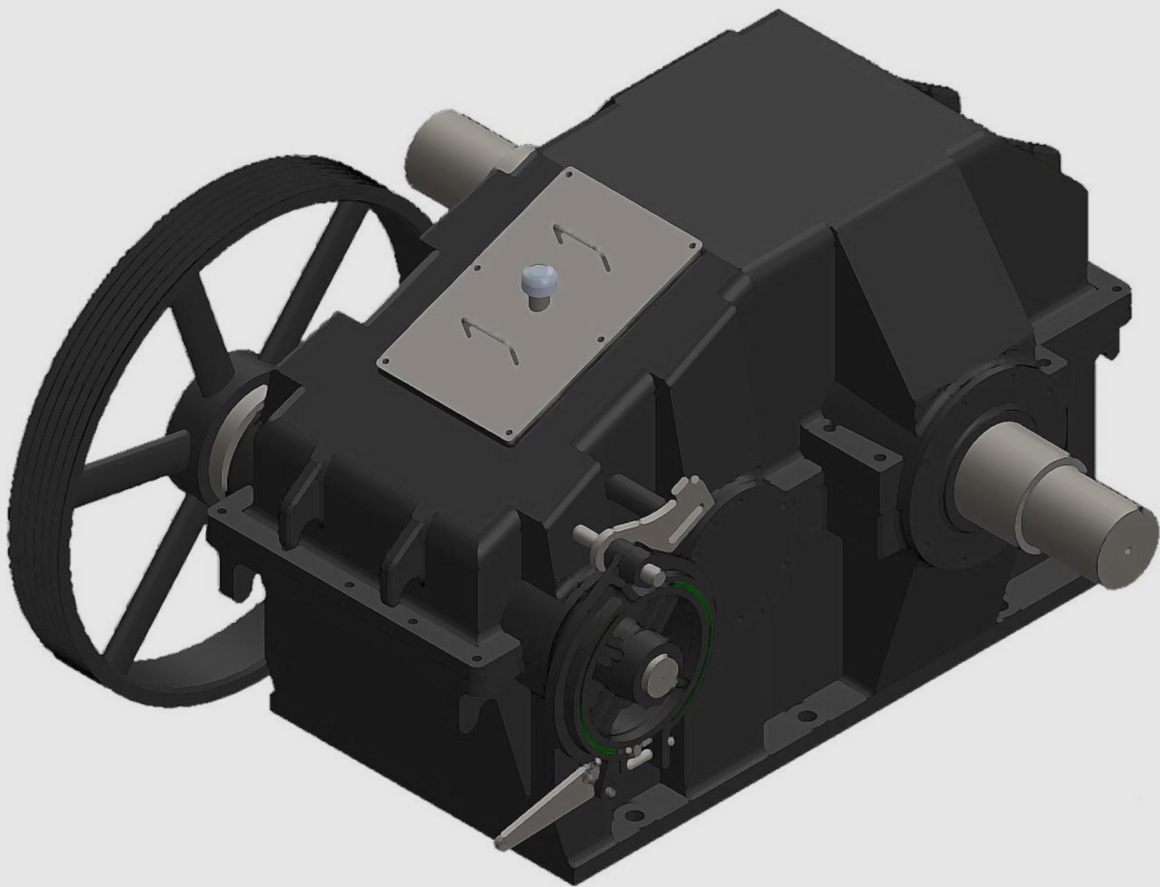
UNIT DESIGNATION	POLISH ROD CAPACITY (LBS)	STROKE OF LENGTH (INCHES)
C25 - 53 - 30	5.300	30 ; 20 ;
C25 - 67 - 30	6.700	30 ; 20 ;
C25 - 56 - 36	5.600	36 ; 28 ; 20
C25 - 67 - 36	6.700	36 ; 28 ; 20
C40 - 89 - 36	8.900	36 ; 28 ; 20
C40 - 76 - 42	7.600	42 ; 33 ; 23
C40 - 89 - 42	8.900	42 ; 33 ; 23
C40 - 76 - 48	7.600	48 ; 37 ; 26
C57 - 76 - 42	7.600	42 ; 33 ; 23
C57 - 89 - 42	8.900	42 ; 33 ; 23
C57 - 95 - 48	9.500	48 ; 37 ; 26
C57 - 109 - 48	10.900	48 ; 37 ; 26
C57 - 76 - 54	7.600	54 ; 40 ; 27
C57 - 95 - 54	9.500	54 ; 40 ; 27
C57 - 109 - 54	10.900	54 ; 40 ; 27
C80 - 109 - 48	10.900	48 ; 37 ; 25
C80 - 133 - 48	13.300	48 ; 37 ; 25
C80 - 119 - 54	11.900	54 ; 41 ; 28
C80 - 133 - 54	13.300	54 ; 41 ; 28
C80 - 119 - 64	11.900	64 ; 52 ; 40
C114 - 133 - 54	13.300	54 ; 40 ; 27
C114 - 143 - 64	14.300	64 ; 52 ; 40
C114 - 173 - 64	17.300	64 ; 54 ; 43
C114 - 143 - 74	14.300	74 ; 62 ; 50
C114 - 119 - 86	11.900	86 ; 72 ; 58
C114 - 125 - 100	12.500	100 ; 85 ; 70
C160 - 143 - 64	14.300	64 ; 52 ; 40
C160 - 173 - 64	17.300	64 ; 54 ; 43
C160 - 143 - 74	14.300	74 ; 62 ; 50
C160 - 173 - 74	17.300	74 ; 62 ; 50
C160 - 200 - 74	20.000	74 ; 62 ; 50
C160 - 173 - 86	17.300	86 ; 72 ; 58
C160 - 173 - 100	17.300	100 ; 85 ; 70
C228 - 173 - 74	17.300	74 ; 62 ; 50

UNIT DESIGNATION	POLISH ROD CAPACITY (LBS)	STROKE OF LENGTH (INCHES)
C228 - 200 - 74	20.000	74 ; 62 ; 50
C228 - 213 - 86	21.300	86 ; 74 ; 62
C228 - 246 - 86	24.600	86 ; 74 ; 62
C228 - 173 - 100	17.300	100 ; 86 ; 73
C228 - 213 - 120	21.300	120 ; 102 ; 85
C228 - 185 - 144	18.500	144 ; 124 ; 104
C320 - 246 - 74	24.600	74 ; 62 ; 50
C320 - 213 - 86	21.300	86 ; 74 ; 62
C320 - 246 - 86	24.600	86 ; 74 ; 62
C320 - 256 - 100	25.600	100 ; 85 ; 70
C320 - 305 - 100	30.500	100 ; 85 ; 70
C320 - 213 - 120	21.300	120 ; 102 ; 85
C320 - 256 - 120	25.600	120 ; 102 ; 85
C320 - 256 - 144	25.600	144 ; 125 ; 106
C456 - 256 - 100	25.600	100 ; 85 ; 70
C456 - 213 - 120	21.300	120 ; 102 ; 85
C456 - 256 - 120	25.600	120 ; 102 ; 85
C456 - 305 - 120	30.500	120 ; 102 ; 85
C456 - 365 - 120	36.500	120 ; 102 ; 85
C456 - 256 - 120	25.600	120 ; 102 ; 85
C456 - 256 - 144	25.600	144 ; 125 ; 106
C456 - 305 - 144	30.500	144 ; 125 ; 106
C640 - 305 - 168	30.500	168 ; 146 ; 124
C640 - 305 - 120	30.500	120 ; 102 ; 85
C640 - 365 - 120	36.500	120 ; 102 ; 85
C640 - 256 - 144	25.600	144 ; 125 ; 106
C640 - 305 - 144	30.500	144 ; 125 ; 106
C640 - 365 - 144	36.500	144 ; 125 ; 106
C640 - 305 - 168	30.500	168 ; 146 ; 124
C912 - 365 - 144	36.500	144 ; 125 ; 106
C912 - 305 - 168	30.500	168 ; 146 ; 124
C912 - 365 - 168	36.500	168 ; 146 ; 124
C1280 - 365 - 192	36.500	192 ; 146 ; 124



GEAR REDUCER PRODUCT

For Beam Pumping Unit

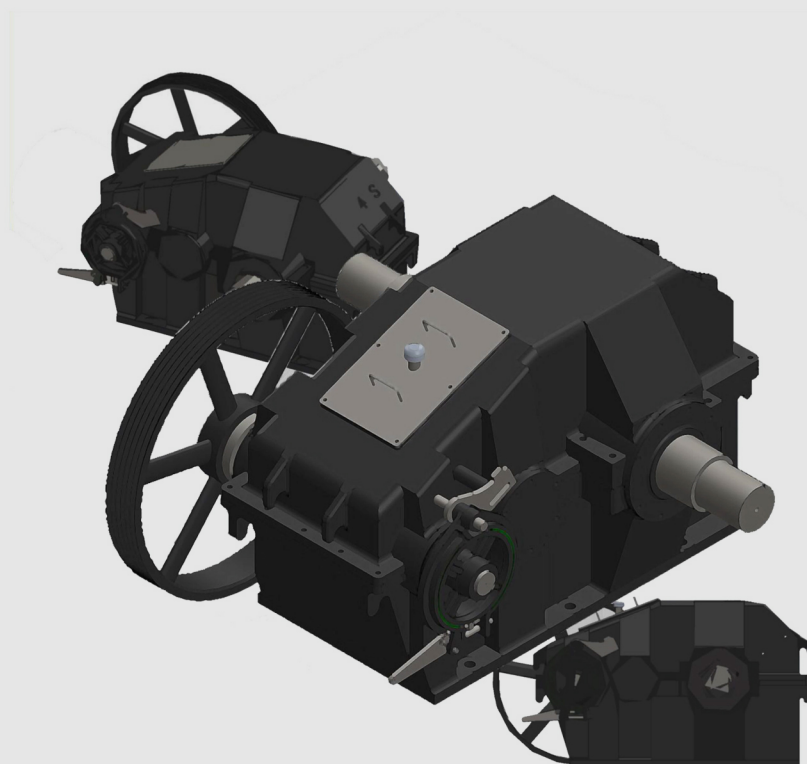




Bukaka Gear Reducer is one of the products produced by PT. Bukaka Teknik Utama, Oil & Gas Equipment Business Unit. The only one manufacturer Gear Reducer Pumping Unit in Indonesia. Located in Cileungsi Bogor, West Java, it has a factory equipped with CNC machinery, assembly and inspection and testing facilities for gear reducer. Has obtained the product license and Quality Management System from the API.

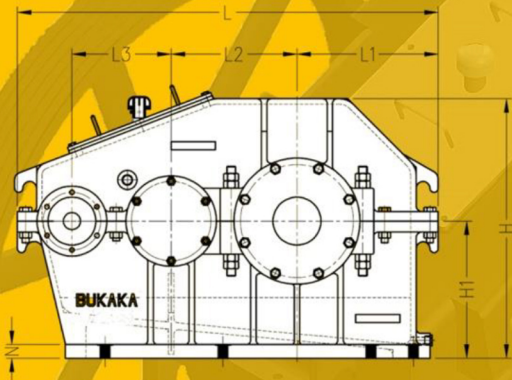
Engineering designed according to API and AGMA specifications. Bukaka is authorized to display the API Monogram and has licensed the IIE specification. The process manufacture and machining precision gears using a CNC machine with good supervision to prioritize quality. The materials used have excellent strength and resistance, nodular cast-iron helical gears, steel alloy pinions and cast-iron housing gears comply with API and AGMA standards.

Bukaka designs and manufactures Gear Reducer, Double Reduction - Double Helical Gears, which are familiar, standardized and have advantages for Pumping Unit Gear Reducer. Helical Gears have the advantage of durability and better performance. Able to withstand torque reversal better than other types of gear. A pair of Roller Bearings are attached to each output shaft, high speed shaft and intermediate shaft. Gears made from Nodular Cast Iron combined with High Strength Alloy Pinion which are used by most Pumping Unit manufacturers. Housing Gears are robustly designed with two parts, Upper and Lower, specifically for Pumping Unit applications in the oilfield. Usually oil wells are very heavy and deep, the use of this Gear Reducer is more dominant.



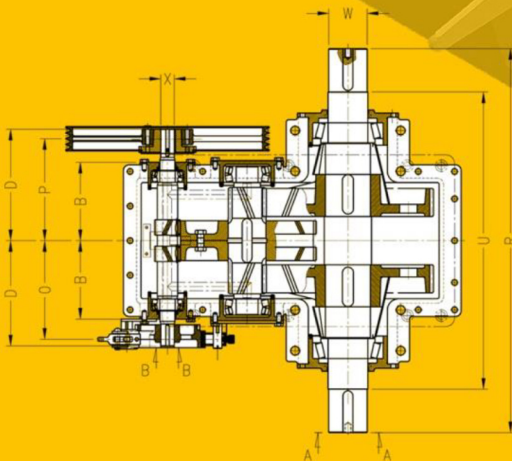
Engineering Design

Design based on API and AGMA standards as an input design. Design calculations and drawings become output designs which are reviewed, validated and verified by the Engineering Team and the Quality Control Team.



Quality Control

Controlling product quality, in accordance with the Quality Plan. Have a controlled measuring instrument and periodically calibrated as well as a final gear reducer testing facility and record the results of its test performance.



CNC Machinery

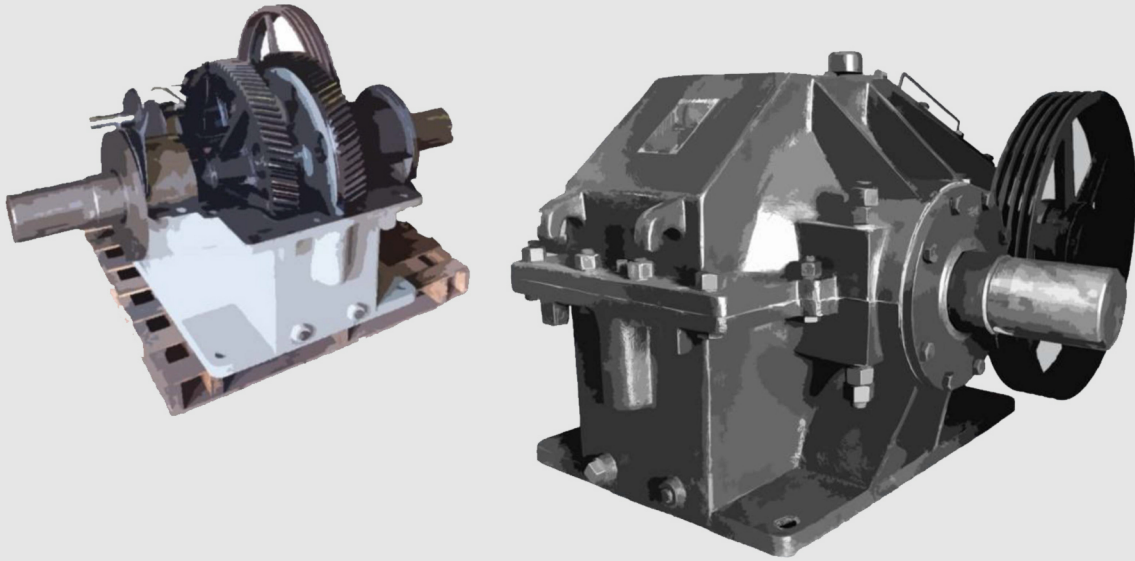
It takes precision and accuracy in the machining process, with experienced personnel and competent operators always prioritizing quality and CNC Machines are always routinely maintained.



High Performance

Produce products with excellent performance and pass the running test process. Making the Bukaka Gear Reducer highly recommended and reliable for Pumping Unit applications in oilfield fields.





Special features for use with a pumping unit in the field, including:

- Upper and Lower separate gears housing, designed for easy maintenance.
- Excellent circulation system for lubricating gears and pinions and bearings.
- Equipped with an Air Breather, so that hot air from the rotation of the gears and pinions can escape.
- All shafts are made of alloy steel which has the strength, durability and precision of tight tolerances.
- Use of roller bearings which are quite a lot in the market. Spare parts in stock and easy to supply.

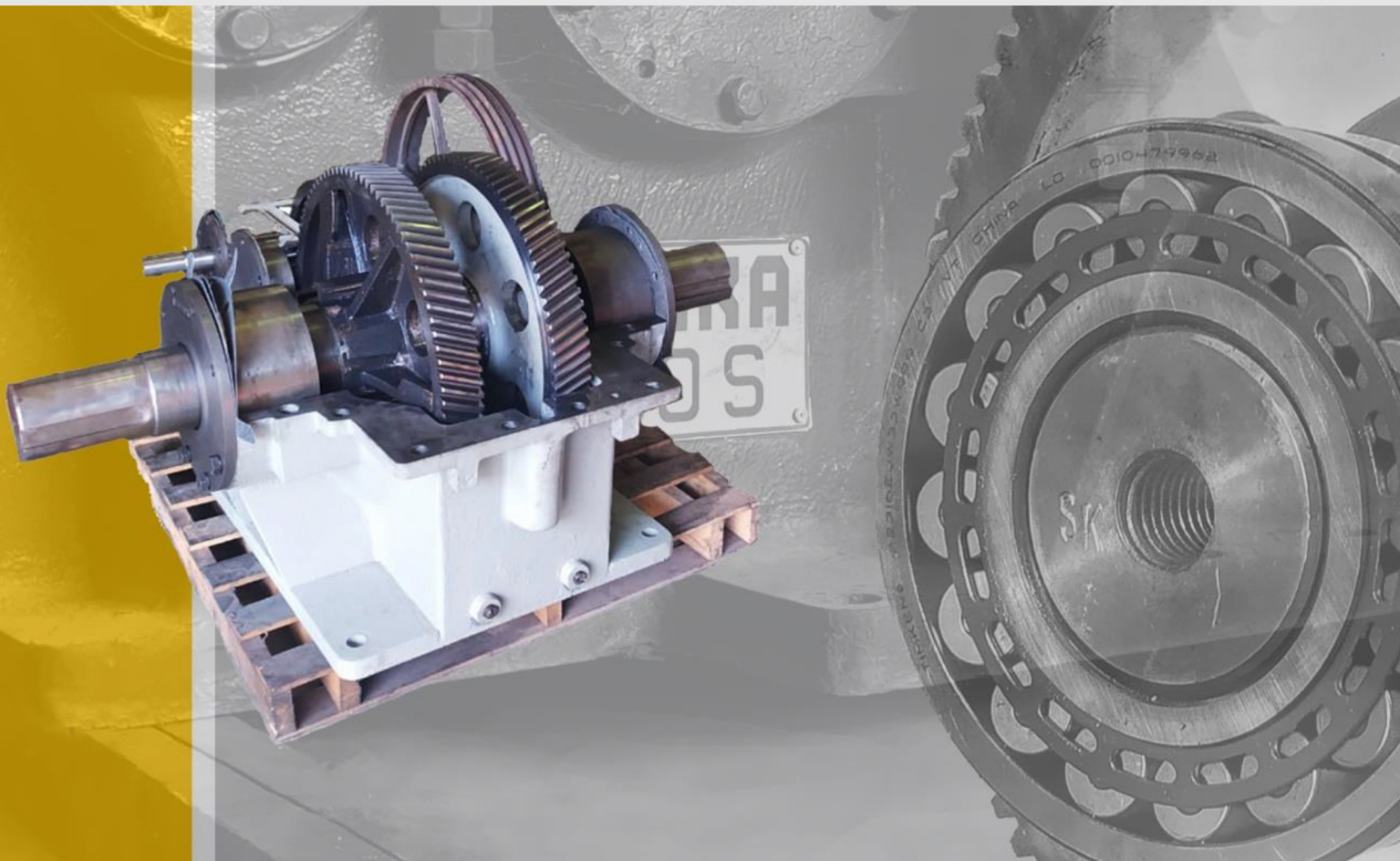
Data Sheet

Gear Reducer Size	Peak Torque Rating (in. lbs.)	Gear Ratio	Output Shaft Diameter (mm)	Sheave Bore Diameter (mm)	Sheave Pulley		Oil Capacity (gallons)
					Dia. (inch)	Groove	
D114	114,000	29.37 : 1	140	49.19	30	4C	25
D160	160,000	28.61 : 1	150	55.70	34	4C	37
D228	228,000	29.15 : 1	175	62.00	36	4C	43
D320	320,000	28.81 : 1	175	85.00	44	4C	75
D456	456,000	28.70 : 1	200	100.00	50	6C	88
D640	640,000	28.36 : 1	200	101.60	50	6C	106
D912	912,000	28.79 : 1	200	111.12	50 : 55	6C : 8C	180
D1280	1,280,000	28.85 : 1	220	120.00	50 : 55	6C : 8C	243

Heavy Duty | High Strength Durability | Easy Maintenance

Housing & Bearing

Gear Reducer Size	Housing Gear Design	Output Shaft Bearing Type	Intermediate & High Speed Bearing Type
D114	Split Housing	Tapper Roller Bearing	DR.SPHR.Roller Bearing
D160	Split Housing	Tapper Roller Bearing	DR.SPHR.Roller Bearing
D228	Split Housing	Tapper Roller Bearing	DR.SPHR.Roller Bearing
D320	Split Housing	DR.SPHR.Roller Bearing	DR.SPHR.Roller Bearing
D456	Split Housing	DR.SPHR.Roller Bearing	DR.SPHR.Roller Bearing
D640	Split Housing	DR.SPHR.Roller Bearing	DR.SPHR.Roller Bearing
D912	Split Housing	DR.SPHR.Roller Bearing	DR.SPHR.Roller Bearing
D1280	Split Housing	DR.SPHR.Roller Bearing	DR.SPHR.Roller Bearing





Lubricant Instructions for Gear Reducer

Lubricant Instructions for Gear Reducer:

- At temperatures up to 0 ° F, use AGMA No. 5EP (ISO VG 220) premium light extreme pressure lubricant (preferably the sulfur-phosphorus type) with rust and oxidation inhibitors and anti-foaming agent. The oil pour point must be 5 ° F or lower.
- For temperatures down to -30 ° F, use AGMA No. 4 EP (ISO VG 150) premium light extreme pressure lubricant (preferably the sulfur-phosphorus type) with rust and oxidation inhibitors and anti-foaming agent. The oil pour point should be -15 ° F or less.
- Do not use multi-viscosity oil.

In order to obtain the long life of the gear reducer pumping unit, the lubricant must have a suitable viscosity and be free from foreign materials, sludge and water.

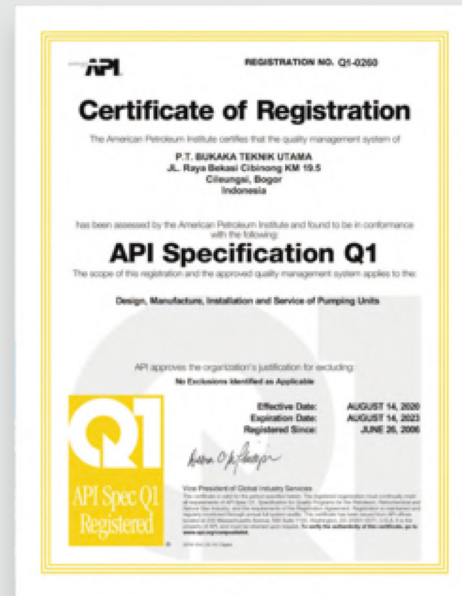
Lubrication system continuously to bearing parts and circulate well. Has oil gauge Dip stick, allows checking the oil level of the gear reducer housing.





In addition to Gear Reducer unit, Bukaka provides spare parts that are ready stock for gear reducer components, such as gears, roller bearings, oil-seals and others. With adequate workshop facilities, Bukaka also provide repair service for the Bukaka Gear Reducer and other brand.





**BUKAKA
LICENSED**





Here are some of our clients



Field Rantau, Field Pendopo, Field Lirik, Field Limau, Field Prabumulih, Field Tanjung, Field Sangatta, Field Sangasanga, Field Tarakan, Field Papua

Other Customers:
PT. Pertamina RP KSO
TAC Pertamina EP
etc





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