

C&D INGENIERÍA, desde Santa Fe, Argentina, ofrece uno de los mejores equipos para lodos de perforación, drillings muds, que existe en el mundo, de procedencia china. La **LW355*1460**

Este equipo es líder en Decaners en el mercado OIL & GAS en EEUU y Canadá, y es comercializado allí por Republic Centrifuges.

Hace poco tiempo estamos representando éstos equipos en Sudamérica.

Como en éste rubro es usual el uso del inglés, se adjunta un presupuesto reciente para una empresa del Norte de Sudamérica, con una serie de especificaciones.

La relación costo-beneficio de éste equipo es insuperable. El equipo tiene un amplio rango de capacidades, que va desde 50 GPM (Galones por minuto), hasta 250 GPM. Con una gravedad específica (SG) de 1 a 2,2. (SG: Densidad de la muestra/ densidad del agua). Ver imagen en página 2.

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We offer as follows:

A. Commercial Proposal

B.

<u>LW355*1460 decanter centrifuge:</u> Item	Equipments	Model:	Quantity
1	Decanter Centrifuge	LW355 * 1460	1
2	Electric control box includes the PLC, VFD (inverters), switches, and other electrical units.		1

Price for items 1 & 2

U\$S 59.850

For FOB Shanghai, China –(Para CIF agregar unos U\$S 1.000, dependiendo del Puerto a entregar.)

Terms:

- Delivery: 10 - 13 weeks upon receipt of confirm order and deposit
- Payment: 30% deposit, pay 70% balance before shipment
- Packing: Standard with wooden pallet and poly film wrapping

1. Price, scope and delivery:

(a) The above price is for FOB Shanghai, based on Incoterms. "Incoterms" means the international rules for the interpretation of trade terms of the International Chamber of Commerce as in force at the date hereof.

(b) The stipulated price is valid for delivery of the Goods prior to 31st December 2011. If delivery takes place after that date, we reserve the right to increase the price to reflect any increase in the cost to us which is due to the postponement of the delivery date.

(c) The price is exclusive of any applicable duties or taxes, in particular, value added tax or similar tax which you shall be additionally liable to bear. We shall be entitled to receive the price net of all bank charges, taxes, duties and similar expenses.

2. Terms of Payment:

30% Non refundable down payment with placement of order;

70% Full Balance payment before shipment

3. Delivery:

The Goods shall be delivered no later than three (3) months after down payment has been made; provided that full payment is received before delivery.

4. Warranty:

Notwithstanding delivery and the passing of risk in the Goods the property in the Goods shall not pass to you until we have received payment in full of the price of the Goods.

(a) Subject to the conditions below, we warrant that the Goods shall be free from defects at the date of delivery to the following extent:

- Free from material defects;
- Free from defects in workmanship and
- Free from construction faults

(b) We shall be under no liability whatsoever in respect of:

- (i) Any defect in the Goods arising 12 months after commissioning or 15 months after delivery;
- (ii) Any defect arising from fair wear and tear or improper use;
- (iii) Willful damage, negligence, abnormal working conditions, failure to follow our directions and instructions (whether oral or in writing) relating to the use, operation and maintenance of the Goods.

(c) Any defect in the Goods must be notified to us within 7 days after discovery of the defect, failing which we shall have no liability in respect of such defect.

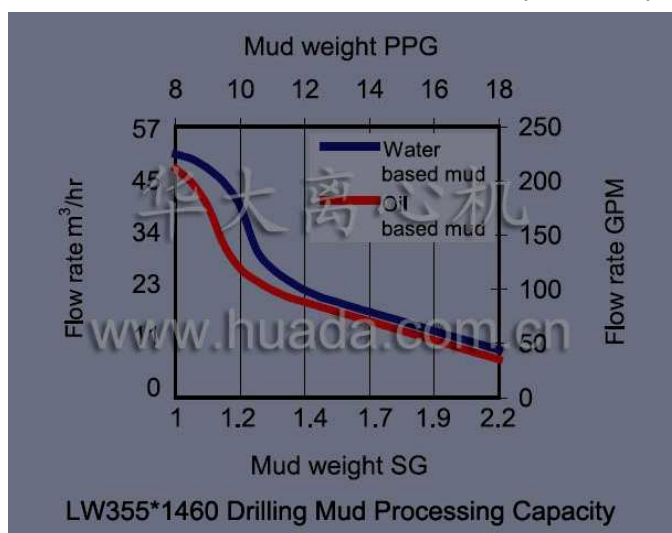
B. Technical Proposal

Huada 2-Phase Decanter type LW355 for drilling fluid control. The separated liquid phase and sludge are discharged by gravity. The separated light phase will be discharged under pressure. The bowl is driven by an electric motor via drive belts. The bowl speed can be adjusted by a frequency inverter. The scroll is driven further by the secondary drive and the differential speed will be controlled via frequency inverter

Foto de equipos destinados a Lodos de perforación



Gráfico Corriente de Lodos vs Gravedad específica ó peso de lodos (pounds per gallon)



LW355 * 1460 Decanter Centrifuge Specifications: No.		Item	Specification	Remark
1		Bowl Diameter(mm)	350	
2		Bowl Length(mm)	1460	
3		Bowl Shape	Cylinder□Cone	Hard alloy solid discharge ports
4		Bowl Semi-coning angle°	8.5°	
5		Rotation Rate of Bowl(r/min)	4000	
6		Relative Centrifugal Force	3100	
7		Scroll Conveyor	Screw conical inlaid with hard alloy Screw cylinder part sprayed with hard alloy Hard alloy solid discharge ports	Single end, Left cycle rotating
8		Pitch(mm)	112	
9		Gearbox	Planetary Gearbox	Output torque 3500Nm
10		Differential Speed(r/min)	8□50	Stepless speed regulate according to the material property and specification
11		Main Motor(kW)	30	VFD
		Back drive motor(kW)	11	VFD
12		Pond Depth mm	60□62□64□66□68	Adjustable
13		Overall Dimension(L*W*H□mm	3900×920×1160	
14		Overall Weight(kg)	3200	

Configurations:

1. Bowl Parts:

- 1.1 Bowl is made of stainless steel. It has excellent corrosion resistance. Stabilizing treatment is applied after welding, which ensures smallest deformation. High geometric accuracy, High Maximum rotation speed;
- 1.2 Longer Length-diameter ratio design, ratio reaches 4.1, optimize the balance between liquid clarity and solids dryness
- 1.3 Inside bowl ribs effectively prevent the wear between material cake and the bowl wall;
- 1.4 Solid discharge ports are inlaid with resistant to wear, longer use life hard alloy (Tungsten carbide).
- 1.5 Replaceable liquid discharge adjustment panel, optimize the clarity of the liquid phase.

2. Scroll Conveyor Parts:

- 2.1 Scroll conveyor is made of stainless steel. Precision in screw vane shape, good in dynamic balancing;
- 2.2 Axial liquid flow path opened at the base of screw vane, which make the clarified liquid flows out of the discharge port without the disturb of screw vane;
- 2.3 The scroll conveyor conical part is inlaid with replaceable hard alloy plate (Tungsten Carbide), resistant to wear and longer use life;
- 2.4 Unique feed material accelerate chamber, which make the material enters to the bowl with high rotating speed. Substantial increases the separation results;
- 2.5 The material inlet is inlaid with replaceable hard alloy plate (Tungsten Carbide), resistant to wear and longer use life;

3. Machine base parts:

- 3.1 Vertical base design, minimize the land coverage;
- 3.2 Compact welding structure, stress-eliminating treatment;
- 3.3 Machine base equipped with special designed rubber vibration damping system, which ensures excellent vibration reduction effect;
- 3.4 Basement free installation, which ensures easy and fast installation;

4. Transmission Parts:

- 4.1 Imported bearing from **SKF** and **NSK**, which has higher bearing capacity and longer life time;
- 4.2 The bearing seat plays a very important role. It not only carries its own weight but also the rotating and dynamic load, which makes the bearing temperature control very essential. High strength and air-cooling bearing seat is applied to our LW model, which fully guarantee the hardware strength and accelerate cooling processing of the bearing. It increases the life time of the parts;
- 4.3 Imported seal components, which has better sealing effect and longer life time. Seal components in direct contact with the processing material are applied with fluoroelastomer or swelling PTFE material;
- 4.4 Imported High speed V belt, which ensures bigger transmission power;

5. Gearbox:

- 5.1 Planetary gearbox has been applied, which is small in size and compact in structure;
- 5.2 Higher output torque, Maximum torque reaches 2500Nm;

6. Machine Shell Parts:

- 6.1 Full-enclosed shell, which apply to any material separation circumstance;
- 6.2 Parts in contact with the process material are made of stainless steel;

7. Drive Parts:

- 7.1 AC squirrel-cage induction main motor. Class F insulated, IP55 Outer shell protection grade.
- 7.2 VFD back-drive motor. Class F insulated, IP55 Outer shell protection grade.
- 7.3 Dual VFD drive has been applied, smooth startup; Stepless speed regulate between 0 and maximum speed;
- 7.4 Variable Frequency back drive motor, controlled by direct current mother-cable indirect variable frequency speed regulation system. Back drive motor energy recycle system, save the electricity consumption;
- 7.5 Independent back drive motor, stepless speed regulation for differential in accordance with the material requirement;
- 7.6 Maximum Relative Centrifugal Force reaches 3100;
- 7.7 Independent control box can be remote controlled;
- 7.8 Main motor and shaft are covered by shield.

8. Electric control system

- 8.1 Safety protection equipment: Motor and scroll conveyor overload alarm, shaft over-heat alarm, over-vibration alarm, emergency automatic shut down device, etc.
- 8.2 High quality frequency inverters for main motor and back drive motor and PLC (optional SIEMENS brand), Made in Taiwan brand touch screen, etc.

9. High-precision dynamic balancing technology and process

- 9.1 In order to protect the machine's smooth, efficient operation, Huada has developed strict balancing technology and process. Our required degree of accuracy for the balancing process is much high than Chinese national standard. Huada balancing technology reduces the noise level in machine operation, reduces machine vibration, and substantially increases the bearing life time.

Balancing process includes: Bowl parts Balancing Correction	2.5 degree
Scroll conveyor parts Balancing Correction	2.5 degree
Whole machine Balancing Correction	6.3 degree
Whole machine with water processing balancing test	6.3 degree

C & D Ingenieria

C&D- CENTRIFUGAS & DECANTERS-"Ingeniería en Separación"

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