



# Introducing the **Baroid IDP SYSTEM 360™ Unit**

## **SUMPLESS & SIMPLE**

The Baroid IDP SYSTEM 360™ unit is a Total Fluids Management™ system that combines mechanical and chemical separation technology. This two part separation process is very effective in removing non-beneficial solids associated with wire line coring operations. These solids are typically difficult to remove and often manifest as mud rings, stuck inner tubes or even broken wire lines. Circulating a drill fluid containing excessive solids (high mud density) often requires replacing, thus increasing drilling costs. The SYSTEM 360 unit solves these challenges with its two part separation process; the mechanical separation function uses centrifugal force to remove suspended solids in a circulating drill fluid. Additionally, the chemical separation is achieved by flocculation of the suspended solids to release clear water effluent that can be reused as makeup water for new drilling fluid.



### **KEY FEATURES**

- ▶ Eliminates sumps or reduces sump size
- ▶ Up to 75% water recovery
- ▶ Targets solids created by coring operation
- ▶ Effective shear system
- ▶ Compact design

### **BENEFITS**

- ▶ Reduced slurry disposal costs
- ▶ Reclaimed water can be used for making additional drilling fluid
- ▶ Reduction in overall water usage and haulage
- ▶ Maintains low density fluid for wire line coring
- ▶ Fast, efficient mixing and full product utilization
- ▶ Easy transportation and use for remote job sites



# SYSTEM 360™ UNIT

## 2, 4, AND 6-CONE MANIFOLD OPTIONS



**2-cone manifold:**  
Standard with SYSTEM  
360 Unit  
2 x 2 ½" hydrocyclones



**4-cone manifold:**  
4 x 2 ½" hydrocyclones  
400 lbs  
33"L x 30"W x 52"H



**6-cone manifold:**  
6 x 2 ½" hydrocyclones  
350 lbs  
50"L x 28"W x 48"H

### Specifications

<b>Pallet Dimensions</b>	Pallet A: 50" L x 44" W x 56" H Pallet B: 54" L x 40" W x 48" H
<b>Approximate Weight</b>	Pallet A: 800 LBS Pallet B: 290 LBS
<b>Hopper</b>	26" high - holds half of a sack
<b>Flow Valves</b>	Brass and steel construction
<b>Skid Frame</b>	1 1/2" steel tube with lifting bale
<b>Engine</b>	Four power options available, air cooled
<b>Pump Coupling</b>	Direct coupled engine and pump
<b>Pipe Couplers</b>	Bolt & snap-groove type
<b>Pressure Wand</b>	Hopper maintenance wand
<b>Internal Jet Guns</b>	Eductor nozzles (5-1 fluid output)
<b>Mechanical Seal</b>	Self-pressurizing grease seal
<b>Wear Plate</b>	Hardened plate ahead of impeller

### Benefits

- Compact to suit any job site
- Decreases environmental footprint
- Easy transportation from site to site
- Low impact on physical demands
- Durable design for a long product life
- Built to withstand the drilling trade
- Industrial rated for reliable performance
- Minimal maintenance required
- Quick system draining even in cold weather
- Convenient and fast cleanup
- Fast and effective rolling and mixing action
- High sealing power for optimized performance
- Lasting and replaceable internal pump parts



# SYSTEM 360™ UNIT IN 6 STEPS:



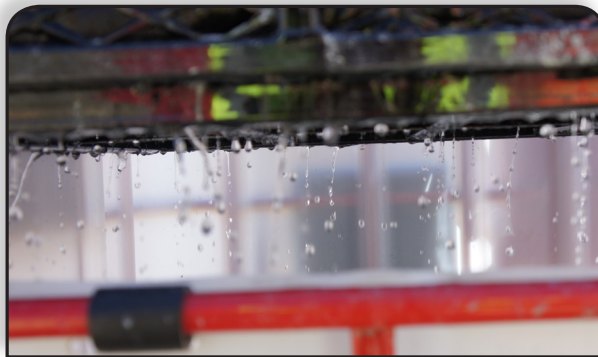
**1** Return drilling fluid transferred to desilter cone manifold for cleaning



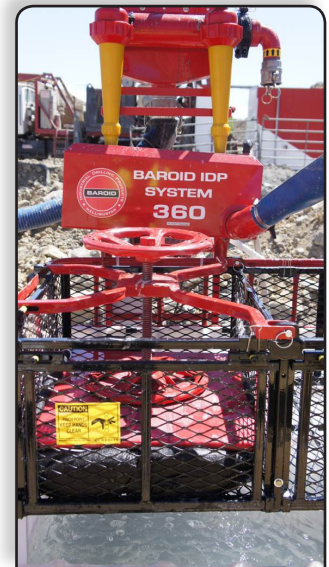
**2** Flocculant applied to cone underflow



**3** Water separates from flocculated solids



**4** Free phase water allowed to drain from dewatering bag



**5** Dewatering bag pressed to collect maximum water volume for reuse



**6** Bagged solids removed and set aside for proper disposal



## SYSTEM 360™ UNIT CONTENTS

### Mixing Component

2" mixing system (diesel, gasoline, or hydraulic powered)  
250-gallon aluminum caged mix tank

### Solids Separation Component

Flocculation manifold  
Flocculant injection pump (electric or hydraulic\*)  
Filter basket  
180-gallon effluent catch tank  
Six 2" x 10' flexible camlock hoses  
50-gallon flocculant mix barrel  
Wheel press and board

### DIESEL PACKAGE



Dimensions: 38" L x 33" W x 26" H  
Dry Weight: 400 Lbs.  
Engine: 8.5 hp Yanmar, electric start  
Mixing System: 2" modified Gorman Rupp centrifugal pump

### GASOLINE PACKAGE



Dimensions: 38" L x 33" W x 26" H  
Dry Weight: 375 Lbs.  
Engine: 9 hp Honda or 9 hp Robin Subaru, pull start  
Mixing System: 2" modified Gorman Rupp centrifugal pump

### HYDRAULIC PACKAGE



Dimensions: 39" L x 33" W x 26" H  
Dry Weight: 350 Lbs.  
Hydraulic Valve: Variable speed  
Flow Valves: Brass  
Mixing System: 2" modified Gorman Rupp centrifugal pump

Hydraulic Gorman Rupp Requirements: 10.5 gpm at 1800 psi  
Hydraulic Injection/Floc Pump Requirements: 1.5 gpm at 1000 psi



The Baroid IDP SYSTEM 360™ unit can be purchased through any Baroid IDP authorized retailer. To locate the Baroid IDP retailer nearest you, contact customer service or your area Baroid IDP sales representative.

### Baroid Industrial Drilling Products

Product Service Line, Halliburton  
P.O. Box 1675  
Houston, TX 77251  
Customer Service: 281.871.4612  
Toll Free: 800.735.6075