



International Drilling Fluids & Engineering Services (IDEc) Ltd.

Screen Product Data Sheet

Shale Shaker Screens

IDEC understands that shakers are the first line of defense against solids and the performance of a shaker can greatly affect the operational cost per foot while drilling a well.

IDEC is committed to developing and supplying shaker screens that not only comply with the industry's highest quality and manufacturing standards; but also, offers the same, and in many cases, better performance than the original OEM screen.

Screen performance plays a vital role in how well the shale shakers perform overall. Therefore, IDEC provides a high-quality screen at a reasonable cost. Trials were conducted during Real-time operations, and thus IDEC have concluded that overall IDEC screens gained the best operational cost per foot compared to other well known screen manufacturers in the market. Thanks to our superior longevity and high performance.

IDEC can produce a stiff screen that provides good throughput and conveyance with intellectual property at a reliable cost while still complying with API RP13C. IDEC supplies replacement Shaker Screens to fit all majority of the industry's leading shale shaker manufacturers. The screen size range – From API 20 – API 325, covering all major applications.

IDEC uses high quality pyramid screens for the tension screens and composite, frame for the pretension product lines. Giving customers better service life quality and higher separation. Experience low-cost savings and high performance by using IDEC screens designed to maximize on solids removal; therefore, reducing cost associated.

Composite Flat Screen Range

Extra-fine square mesh provides the best balance between defined cut point, conductivity, conveyance, and anti-blinding ability. IDEC screens are repairable up to a recommended 15% surface area; extending service life and maintaining screen integrity. High material quality, manufacturing technology and attention to product excellence ensures IDEC screens are equipped to offer longevity and performance under the most demanding drilling environments.

Metal Pyramid Screen Range

The Pyramid screen consists of a standard sandwich construction having two fine mesh cloths layered with a coarse backing cloth. These three layers are bonded together, corrugated, and then bonded to a perforated plate. The resulting corrugations are 0.8 inches high on the PMD screen increasing total screening area and maximizing fluid dispersion. Pyramid screens can make separations as fine as 43 microns. The Pyramid screen uses gravity to immediately force the oncoming solids off the peaked areas and down into the trough sections of the panel, not to the outside edges of the discard screen. This preferential solid distribution keeps the peaked areas clear of solids and allows for continuously higher fluid throughput than is possible with any standard flat panel screen.



IDEC Design Features

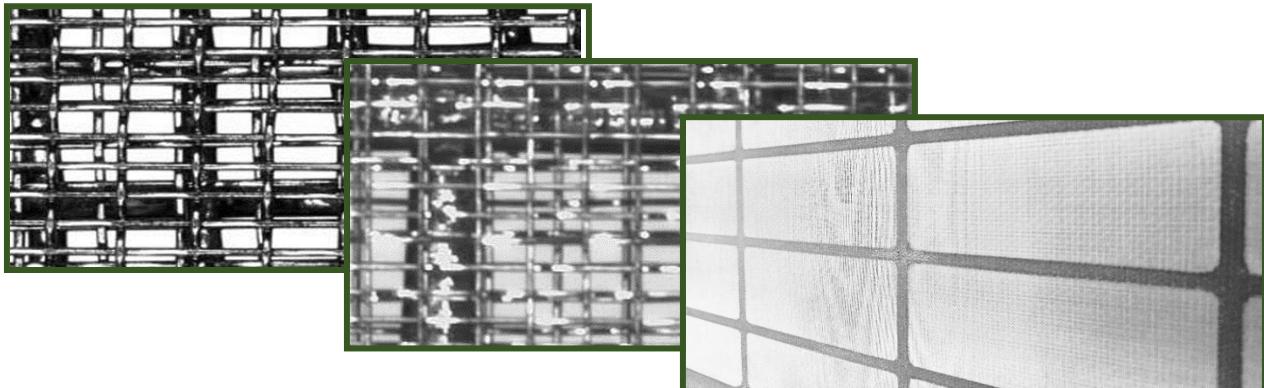
Polypropylene lightweight frame supported by internal steel cage provides best in class platform for even "G" force transfer to the screen surface.

The frame design permits

- High percentage of non-blanked area for fluid – solid separation.
- Lighter weight than steel framed screens.
- Handle Temperatures up to 165°C (329°F).
- Consistent manufacturing process whereby each mesh layer is tensioned individually.
- Bonding of mesh to frame allows stability of cloth openings to offer consistent particle separation.
Multi-layer construction offers better de-blinding characteristics for consistent flow rates.
- Improved reliability due to the lack of a metal perforated plate that always has an opportunity to come off the frame.
- Corrosion resistance.
- High levels of heat resistance, resulting in better performance in OBM and SBM systems.

Screening Features – Combination of Rectangular and Square Mesh Screens

- Computer software designed multi-layer mesh combinations and field testing provides optimized separation potential, conductance, resistance to blinding and screen longevity.
- Incorporates all the latest design, engineering, manufacturing and performance features developed through ongoing R&D and customer feedback.
- Square Mesh to API 50; Rectangular Mesh from API 60 to API 325.
- Proven Combination of Screen Life and Reliability.



The IDEC Benefits

- Screen types to fit ALL Shaker models
- Frame design provides maximum stability for the screen surface
- Screen frame is manufactured using high yield strength structural steel & high-quality Polypropylene
- API RP 13C (ISO 13501) compliant
- Resistant to near size particle blinding
- Light Weight, Easy to handle, No sharp edges
- Technical Support for all Shaker and Screen needs
- Rigid support reduces flexing, increases screen life and maximizes the G-force at the screen surface
- Guaranteed D100 cut point
- Increased volume handling capacity

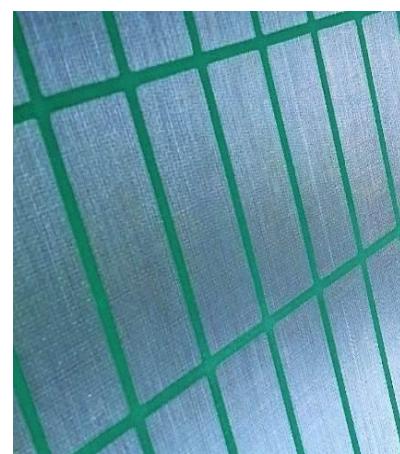
API Certification

IDEC shaker screens are API certified and verified during trials. The trials were conducted by utilizing SS304 and SS316 multi-layered screen cloth and carbon steel frame that are compliant with API RP13C. A screen must be labelled following the guidelines specified in the API RP13C document. The guidelines in the document require that wherever the part number is on the box or screen, it must be in an acceptable format and must contain the following information as a minimum.

API Standard	
API	D100 Cut Point
35	462.5 to 550.0
40	390.0 to 462.5
50	275.0 to 327.5
60	231.0 to 275.0
70	196.0 to 231.0
80	165.0 to 196.0
100	137.5 to 165.0
120	116.5 to 137.5
140	98.0 to 116.5
170	82.5 to 98.0
200	69.0 to 82.5
230	58.0 to 69.0
270	49.0 to 58.0
325	41.5 to 49.0

Non-blanked area

The total non-blanked area is the unblocked area that will permit fluid to pass through the screen IDEC's Manufacturing facilities preform these calculations in- house. These calculations are done typically with a digital caliper and a calculator.



D100 and Conductance

The D100 value is the finest particle diameter at which the screen no longer sends 100% of the particles to the discard stream. API RP13C is a very specific value determined from carefully controlled laboratory procedures so that any laboratory should measure the same value from any given screen cloth.

IDEC Screen API Test Results			
Mesh	API	IDEC Cut Point	Conductance Kd/mm
GLA35H	35	538.61	9.69
GLA35H	40	438.52	8.64
GLA50H	50	284.57	5.17
GLA60H	60	268.12	4.10
GLA70H	70	202.63	3.33
GLA80H	80	193.15	2.76
GLA100H	100	164.81	2.66
GLA120H	120	134.35	1.89
GLA140H	140	101.20	1.34
GLA170H	170	82.80	1.18
GLA200H	200	73.49	1.32
GLA230H	230	68.89	0.71
GLA270H	270	57.70	0.67
GLA325H	325	44.25	0.39

API Number

The API range requires no measurements or calculations and is determined by directly comparing the D100 with the API Standard Table provided in the API RP 13c.

Statement of compliance

A label following the API RP13C should contain a statement that it conforms to API RP13C.

At IDEC manufacturing facilities, we believe that the D100 number determined by testing in accordance with API RP13C is a useful tool and are currently following the recommended practice in both the literal text and its intent.

Screen Designation

IDEC has a complete selection of hook style screens, pretension panels and specialty screens for most shaker models. With the ability to custom design screen panels for just about any application.

MISwaco Mongoose/Meerkat Replacement

Manufacture	Description	Dimensions	Weight	Type
MISwaco	Mongoose/Meerkat	585 x 1165mm	12 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
Composite	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECMON-020CF	20		809.12	10.88
IDECMON-035CF	35		538.61	9.69
IDECMON-040CF	40		438.52	8.64
IDECMON-050CF	50		284.57	5.17
IDECMON-060CF	60		268.12	4.10
IDECMON-070CF	70		202.63	3.33
IDECMON-080CF	80		193.15	2.76
IDECMON-100CF	100		164.81	2.66
IDECMON-120CF	120		134.35	1.89
IDECMON-140CF	140		101.20	1.34
IDECMON-170CF	170		82.80	1.18
IDECMON-200CF	200		73.49	1.32
IDECMON-230CF	230		68.89	0.71
IDECMON-270CF	270		57.70	0.67
IDECMON-325CF	325		44.25	0.39

MISwaco MD Series Replacement

Manufacture	Description	Dimensions	Weight	Type
MISwaco	MD Series	610 x 660mm	7 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
	Composite	SS304 / SS316 stainless steel	Triple Layer	Flat
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECMD-010CF	10		1957	40.92
IDECMD-020CF	20		809.12	10.88
IDECMD-035CF	35		538.61	9.69
IDECMD-040CF	40		438.52	8.64
IDECMD-050CF	50		284.57	5.17
IDECMD-060CF	60		268.12	4.10
IDECMD-070CF	70		202.63	3.33
IDECMD-080CF	80		193.15	2.76
IDECMD-100CF	100		164.81	2.66
IDECMD-120CF	120		134.35	1.89
IDECMD-140CF	140		101.20	1.34
IDECMD-170CF	170		82.80	1.18
IDECMD-200CF	200		73.49	1.32
IDECMD-230CF	230		68.89	0.71
IDECMD-270CF	270		57.70	0.67
IDECMD-325CF	325		44.25	0.39

MISwaco ALS Replacement

Manufacture	Description	Dimensions	Weight	Type
MISwaco	ALS	1212 x 1141mm	7 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Metal	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECALS-020MF	20		809.12	10.88
IDECALS-035MF	35		538.61	9.69
IDECALS-040MF	40		438.52	8.64
IDECALS-050MF	50		284.57	5.17
IDECALS-060MF	60		268.12	4.10
IDECALS-070MF	70		202.63	3.33
IDECALS-080MF	80		193.15	2.76
IDECALS-100MF	100		164.81	2.66
IDECALS-120MF	120		134.35	1.89
IDECALS-140MF	140		101.20	1.34
IDECALS-170MF	170		82.80	1.18
IDECALS-200MF	200		73.49	1.32
IDECALS-230MF	230		68.89	0.71
IDECALS-270MF	270		57.70	0.67
IDECALS-325MF	325		44.25	0.39

Derrick FLC 2000 Replacement

Manufacture	Description	Dimensions	Weight	Type
Derrick	FLC2000	1053 x697mm	5.5 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Metal	SS304 / SS316 stainless steel		Triple Layer	Pyramid
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECLC2-020MP	20		809.12	10.88
IDECLC2-035MP	35		538.61	9.69
IDECLC2-040MP	40		438.52	8.64
IDECLC2-050MP	50		284.57	5.17
IDECLC2-060MP	60		268.12	4.10
IDECLC2-070MP	70		202.63	3.33
IDECLC2-080MP	80		193.15	2.76
IDECLC2-100MP	100		164.81	2.66
IDECLC2-120MP	120		134.35	1.89
IDECLC2-140MP	140		101.20	1.34
IDECLC2-170MP	170		82.80	1.18
IDECLC2-200MP	200		73.49	1.32
IDECLC2-230MP	230		68.89	0.71
IDECLC2-270MP	270		57.70	0.67
IDECLC2-325MP	325		44.25	0.39

Derrick FLC 2000 Replacement

Manufacture	Description	Dimensions	Weight	Type
Derrick	FLC2000	1053 x697mm	5.5 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Composite	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECLC2-020CF	20		809.12	10.88
IDECLC2-035CF	35		538.61	9.69
IDECLC2-040CF	40		438.52	8.64
IDECLC2-050CF	50		284.57	5.17
IDECLC2-060CF	60		268.12	4.10
IDECLC2-070CF	70		202.63	3.33
IDECLC2-080CF	80		193.15	2.76
IDECLC2-100CF	100		164.81	2.66
IDECLC2-120CF	120		134.35	1.89
IDECLC2-140CF	140		101.20	1.34
IDECLC2-170CF	170		82.80	1.18
IDECLC2-200CF	200		73.49	1.32
IDECLC2-230CF	230		68.89	0.71
IDECLC2-270CF	270		57.70	0.67
IDECLC2-325CF	325		44.25	0.39

Derrick FLC500 Replacement

Manufacture	Description	Dimensions	Weight	Type
Derrick	FLC500	1050x695mm	7.5 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Metal	SS304 / SS316 stainless steel		Triple Layer	Pyramid
Ref Number		API Number	D100 (Cut Point)	Conductance (kD/mm)
IDECLC5-020MP		20	809.12	10.88
IDECLC5-035MP		35	500	9.97
IDECLC5-040MP		40	445	8.5
IDECLC5-050MP		50	300	5.6
IDECLC5-060MP		60	250	4.11
IDECLC5-070MP		70	214	3.06
IDECLC5-080MP		80	187.5	2.54
IDECLC5-100MP		100	150	2.17
IDECLC5-120MP		120	125	1.64
IDECLC5-140MP		140	108	1.49
IDECLC5-170MP		170	94	1.18
IDECLC5-200MP		200	82	1.13
IDECLC5-230MP		230	68	0.55
IDECLC5-270MP		270	58	0.44
IDECLC5-325MP		325	44.25	0.39

Derrick FLC500 Replacement

Manufacture	Description	Dimensions	Weight	Type
Derrick	FLC500	1050x695mm	7.5 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Composite	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number		API Number	D100 (Cut Point)	Conductance (kD/mm)
IDECLC5-020CF		20	809.12	10.88
IDECLC5-035CF		35	500	9.97
IDECLC5-040CF		40	445	8.5
IDECLC5-050CF		50	300	5.6
IDECLC5-060CF		60	250	4.11
IDECLC5-070CF		70	214	3.06
IDECLC5-080CF		80	187.5	2.54
IDECLC5-100CF		100	150	2.17
IDECLC5-120CF		120	125	1.64
IDECLC5-140CF		140	108	1.49
IDECLC5-170CF		170	94	1.18
IDECLC5-200CF		200	82	1.13
IDECLC5-230CF		230	68	0.55
IDECLC5-270CF		270	58	0.44
IDECLC5-325CF		325	44.25	0.39

Derrick D600 Replacement

Manufacture	Description	Dimensions	Weight	Type
Derrick	D600	570x1070mm	11 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Metal	SS304 / SS316 stainless steel		Triple Layer	Pyramid
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECD600-020MP	20	809.12	10.88	
IDECD600-035MP	35	538.61	9.69	
IDECD600-040MP	40	438.52	8.64	
IDECD600-050MP	45	284.57	5.17	
IDECD600-060MP	50	268.12	4.10	
IDECD600-070MP	60	202.63	3.33	
IDECD600-080MP	70	193.15	2.76	
IDECD600-100MP	80	164.81	2.66	
IDECD600-120MP	100	134.35	1.89	
IDECD600-140MP	120	101.20	1.34	
IDECD600-170MP	140	82.80	1.18	
IDECD600-200MP	170	73.49	1.32	
IDECD600-230MP	200	68.89	0.71	
IDECD600-270MP	230	57.70	0.67	
IDECD600-325MP	325	44.25	0.39	

Derrick Hyperpool Replacement

Manufacture	Description	Dimensions	Weight	Type
Derrick	Hyperpool	570x1070mm	11 kg	Hook Strip
Frame Type	Mesh Type		Layer Count	Screen Type
Metal	SS304 / SS316 stainless steel		Triple Layer	Pyramid
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECHYP-020MP	20	809.12	10.88	
IDECHYP-035MP	35	538.61	9.69	
IDECHYP-040MP	40	438.52	8.64	
IDECHYP-050MP	45	284.57	5.17	
IDECHYP-060MP	50	268.12	4.10	
IDECHYP-070MP	60	202.63	3.33	
IDECHYP-080MP	70	193.15	2.76	
IDECHYP-100MP	80	164.81	2.66	
IDECHYP-120MP	100	134.35	1.89	
IDECHYP-140MP	120	101.20	1.34	
IDECHYP-170MP	140	82.80	1.18	
IDECHYP-200MP	170	73.49	1.32	
IDECHYP-230MP	200	68.89	0.71	
IDECHYP-270MP	230	57.70	0.67	
IDECHYP-325MP	270	44.25	0.39	

Fluid System 29x42 Replacement

Manufacture	Description	Dimensions	Weight	Type
Fluid System	29x42	737x1067mm	14 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
Composite	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number	API Number	D100 (Cut Point)	Conductance (kD/mm)	
IDECF2942-020CF	20	809.12	10.88	
IDECF2942-035CF	35	538.61	9.69	
IDECF2942-040CF	40	438.52	8.64	
IDECF2942-050CF	50	284.57	5.17	
IDECF2942-060CF	60	268.12	4.10	
IDECF2942-070CF	70	202.63	3.33	
IDECF2942-080CF	80	193.15	2.76	
IDECF2942-100CF	100	164.81	2.66	
IDECF2942120CF	120	134.35	1.89	
IDECF2942-140CF	140	101.20	1.34	
IDECF2942-170CF	170	82.80	1.18	
IDECF2942-200CF	200	73.49	1.32	
IDECF2942-230CF	230	68.89	0.71	
IDECF2942-270CF	270	57.70	0.67	
IDECF2942-325CF	325	44.25	0.39	

Brandt VSM300 Scalping Replacement

Manufacture	Description	Dimensions	Weight	Type
Brandt	VSM300 Scalping	940 x685mm	15 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
Composite	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number	API Number	D100 (Cut Point)	Conductance (kD/mm)	
IDECVSMS-010CF	10	1957	40.92	
IDECVSMS-020CF	20	809.12	10.88	
IDECVSMS-035CF	35	538.61	9.69	
IDECVSMS-040CF	40	438.52	8.64	
IDECVSMS-050CF	50	284.57	5.17	
IDECVSMS-060CF	60	268.12	4.10	
IDECVSMS-070CF	70	202.63	3.33	
IDECVSMS-080CF	80	193.15	2.76	
IDECVSMS-100CF	100	164.81	2.66	

Brandt VSM300 Primary Replacement

Manufacture	Description	Dimensions	Weight	Type
Brandt	VSM300 Primary	890 x 685mm	12 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
	Composite	SS304 / SS316 stainless steel	Triple Layer	Flat
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECSV SMP-020CF	20		809.12	10.88
IDECSV SMP-035CF	35		538.61	9.69
IDECSV SMP-040CF	40		438.52	8.64
IDECSV SMP-050CF	50		284.57	5.17
IDECSV SMP-060CF	60		268.12	4.10
IDECSV SMP-070CF	70		202.63	3.33
IDECSV SMP-080CF	80		193.15	2.76
IDECSV SMP-100CF	100		164.81	2.66
IDECSV SMP-120CF	120		134.35	1.89
IDECSV SMP-140CF	140		101.20	1.34
IDECSV SMP-170CF	170		82.80	1.18
IDECSV SMP-200CF	200		73.49	1.32
IDECSV SMP-230CF	230		68.89	0.71
IDECSV SMP-270CF	270		57.70	0.67
IDECSV SMP-325CF	325		44.25	0.39

Brandt Cobra/LCM Replacement

Manufacture	Description	Dimensions	Weight	Type
Brandt	Cobra/LCM	635 x1250mm	15 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
	Composite	SS304 / SS316 stainless steel	Triple Layer	Flat
Ref Number	API Number		D100 (Cut Point)	Conductance (kD/mm)
IDECCOB-020CF	20		809.12	10.88
IDECCOB-035CF	35		538.61	9.69
IDECCOB-040CF	40		438.52	8.64
IDECCOB-050CF	50		284.57	5.17
IDECCOB-060CF	60		268.12	4.10
IDECCOB-070CF	70		202.63	3.33
IDECCOB-080CF	80		193.15	2.76
IDECCOB-100CF	100		164.81	2.66
IDECCOB-120CF	120		134.35	1.89
IDECCOB-140CF	140		101.20	1.34
IDECCOB-170CF	170		82.80	1.18
IDECCOB-200CF	200		73.49	1.32
IDECCOB-230CF	230		68.89	0.71
IDECCOB-270CF	270		57.70	0.67
IDECCOB-325CF	325		44.25	0.39

Brandt D380/D285 Replacement

Manufacture	Description	Dimensions	Weight	Type
Brandt	D380/D285	712x1180mm	14 kg	Pretension
Frame Type	Mesh Type		Layer Count	Screen Type
Composite	SS304 / SS316 stainless steel		Triple Layer	Flat
Ref Number		API Number	D100 (Cut Point)	Conductance (kD/mm)
IDECD380-020CF		20	809.12	10.88
IDECD380-035CF		35	538.61	9.69
IDECD380-040CF		40	438.52	8.64
IDECD380-050CF		50	284.57	5.17
IDECD380-060CF		60	268.12	4.10
IDECD380-070CF		70	202.63	3.33
IDECD380-080CF		80	193.15	2.76
IDECD380-100CF		100	164.81	2.66
IDECD380-120CF		120	134.35	1.89
IDECD380-140CF		140	101.20	1.34
IDECD380-170CF		170	82.80	1.18
IDECD380-200CF		200	73.49	1.32
IDECD380-230CF		230	68.89	0.71
IDECD380-270CF		270	57.70	0.67
IDECD380-325CF		325	44.25	0.39