

AX Screening System



A shale shaker is only as good as the quality of its screens. The Axiom Process AX Screening System focuses on uncompromised technical excellence giving unrivaled performance. Three product offerings are provided to give choice and flexibility to meet a wide range of drilling challenges.

The full range of screens are of a pre-tensioned sandwich construction, comprising a number of sub-panel elements. Axiom primary screens also have the capability to be blanked with the Axiom Snap-Fast repair plug to prolong life.

AX Screening System Features:

- Axiom screens are manufactured from stainless steel wire mesh.
- Screens are of a pre-tensioned, multi panel construction.
- Each screen weighs 4.5kg. This is achieved by having the structural support for the screen remain in the machine continuously; only the pre-tensioned screen plate is consumable unlike other screen offerings.
- Screens are loaded from the front of the machine and pneumatically clamped. The screens hook together and are held in place inside the machine by the use of a patented locking wedge system.



Primary TF Triple Fine Screen

Triple Fine Screens were developed to help alleviate the problem of near size particle blinding. This screen is made up of two layers of ultra-fine mesh supported by a coarser mesh backing cloth. Triple Fine Screens are highly versatile, providing excellent screening properties with plugging resistance and long life.

Advantages

- Layered screens are less susceptible to near sized plugging. This is due to the interaction of all three layers of mesh which reduces the likelihood of particles remaining lodged in the apertures.
- Because of the use of ultra-fine cloths, adding a third layer of cloth has a negligible impact upon flow capacity (conductance).
- Screen life is increased over a two mesh configuration through improved transportation which is effected by the interaction between the top and intermediate layers of mesh.

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SL Single Layer Screen

The SL Single Layer Screen is generally used for the Scalping (top) deck of the shaker. Unlike other shakers in the marketplace, the top deck of Axiom Shakers allows for the use of the same small, lightweight, user-friendly screens as the Primary decks. The SL screen is therefore designed to be the same size and have the same operability as the other AX Screening System screens, underlining our commitment to the continuous improvement of our equipment.

Primary TC Triple Coarse Screens

Axiom have pioneered the use of our Triple Coarse Screen format. This is a three-layer screen very similar to the Triple Fine Screen, but employing a thicker wire diameter.

Advantages

- The benefits of three-layered construction (less susceptible to blinding) are delivered.
- The heavier wire cloth delivers increased life for the very fine meshes. Axiom can deploy these screens on the AX-1 more readily than competitors due to the increased unit capacity of the AX-1.

SUMMARY OF BENEFITS

API RP13C: Fully compliant.

Weight: Promotes ease of handling and reduced costs of transportation and inter rig moves. Screen weighs 4.5kg and can be carried by one man without compromising safety.

Size: Screen is universal to all AX-1 decks and is reversible to offer extended life.

Repairable: Uses proprietary locking plugs (no more losing them down the flowline or epoxy resin/sealant).

Access: Reduced screen length allows for installation in restricted space areas.

Hook system: Each screen extracts the next. No more poking around with long tools to extract the rear screens.

This provides: Improved HSE considerations and greater life. Full repairability and lower screening costs per meter. Improved solids control means significantly lower drilling fluids cost per meter.

SL, TF and TC Series Screens for BRANDT AX Shale Shakers

Part Number	Name	API Number	D100 in microns	Conductance kD/mm	NBOA ft ²
AX10SL-2015	AX SL API-10	API 10	2015	60.72	2.91
AX20SL-853	AX SL API-20	API 20	852.5	20.51	2.91
AX30SL-603	AX SL API-30	API 30	602.5	9.95	2.91
AX40SL-426	AX SL API-40	API 40	426.3	5.81	2.91
AX60SL-258	AX SL API-60	API 60	258.2	3.73	2.91
AX70TF-228	AX TF API-70	API 70	228	3.00	2.84
AX80TF-190	AX TF API-80	API 80	190	2.30	2.84
AX100TF-143	AX TF API-100	API 100	143	1.90	2.84
AX120TF-120	AX TF API-120	API 120	120	1.40	2.84
AX140TF-116	AX TF API-140	API 140	116	1.60	2.84
AX140TF-114	AX TF API-140	API 140	114	1.30	2.84
AX170TF-94	AX TF API-170	API 170	94	1.00	2.84
AX200TF-80	AX TF API-200	API 200	80	1.00	2.84
AX230TF-60	AX TF API-230	API 230	60	0.50	2.84
AX270TF-50	AX TF API-270	API 270	50	0.50	2.84
AX325TF-44	AX TF API-325	API 325	44	0.50	2.84
AX400TF-40	AX TF API-400	API 400	40	0.30	2.84
AX450TF-34	AX TF API-425	API 450	34	0.20	2.84
AX100TC-145	AX TC API-100	API 100	145	1.60	2.84
AX120TC-120	AX TC API-120	API 120	120	1.10	2.84
AX140TC-111	AX TC API-140	API 140	111	0.80	2.84
AX200TC-79	AX TC API-200	API 200	79	0.60	2.84