

 **ISHIGAKI USA LTD.**

SCREW PRESS ISGK-A



ISHIGAKI USA LTD.
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ISHIGAKI has been an innovator in pressure filtration since 1958. The ISHIGAKI ISGK-A Screw Press is our latest and most improved design—the result of our experience successfully operating more than 800 units in industrial and municipal facilities across the globe.

The recently developed and patented mechanical features generate higher dewatering efficiency with comparable feed flow/volume. In municipal sludge, a 10% cake solids increase can be achieved when compared with other screw press performance.

FEATURES OF THE ISHIGAKI ISGK-A SCREW PRESS

Continuous high feed flow dewatering with high cake solids concentration:

- Efficient and differentiated design with adjustable operating parameters for varying feed conditions
- Continuous and adjustable pneumatic cake pressure cone
- Conditioning tank with viewing window and variable speed agitator to optimize floc quality
- High performance screen and seal technology to ensure screen's inner surface remains clean

No operator attention required:

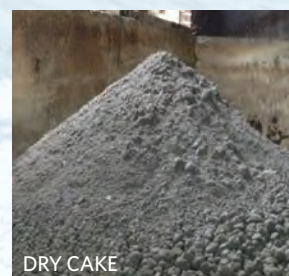
- Fully automated operation
- Low screw speed (adjustable <1 rpm)
- Highly efficient and consistent feed system
- Screen's outer surface is kept clean by the automatic traveling shower, which operates while the screw press continuously dewater solids

Low operating costs when compared with decanter centrifuges and belt presses:

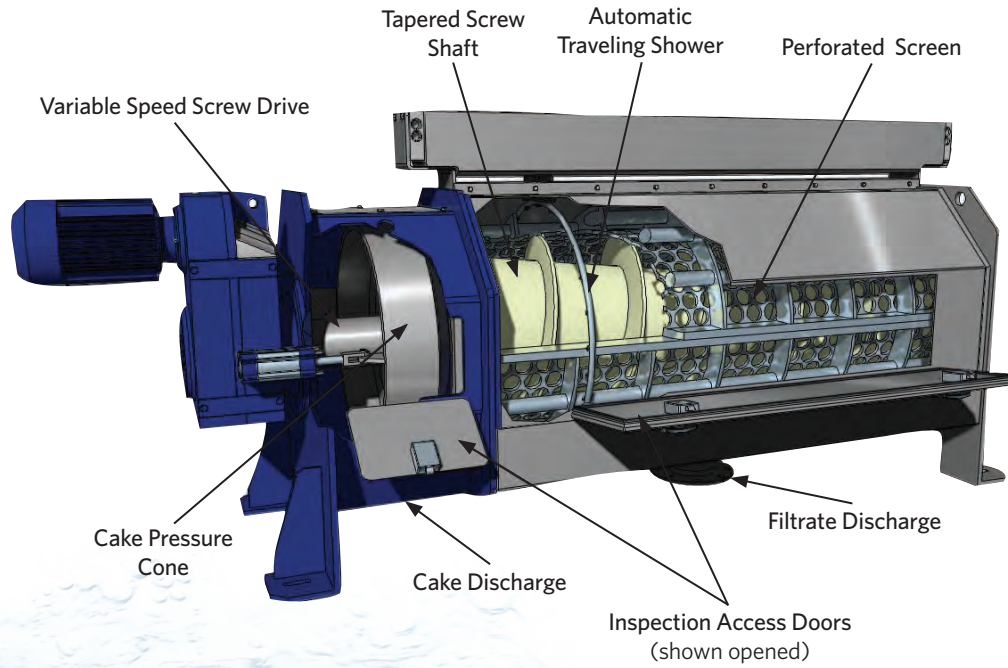
- Robust design and low speed ensures long life with minimum maintenance
- Low dosage polymer feed system
- Low power consumption
- Lower wash water requirement
- Segmented filter screens for easy maintenance
- Flexible screen exchange to accommodate different feed characteristics
- All wetted parts made of stainless steel

Health and safety:

- Low operating noise (<60 dB)
- No vibration
- Totally enclosed system, including conditioning tank, for efficient odor control
- Process fluids remain within the equipment



MECHANICAL FEATURES



ISGK-A SCREW PRESS SIZE CHART

MODEL		0206	0306	0406	0506	0606	0706	0806	0906	1006	1106	1206
Screw Rotation (rpm)		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Empty Weight (Pounds)		1,545	2,645	4,630	6,835	7,720	8,820	11,240	13,670	17,200	20,950	25,800
Overall Dimensions (Inches)	Length	95	121	150	178	214	237	265	291	319	342	366
	Width	39	43	47	51	55	57	61	69	73	79	83
	Height	40	44	51	56	60	63	67	73	77	83	87
Water Volume used per Wash Cycle (GAL)		75	75	150	280	340	475	560	750	1,020	1,250	1,500
Screen Wash Water Pressure (PSI)		40 – 80	40 – 80	40 – 80	40 – 80	40 – 80	40 – 80	40 – 80	40 – 80	40 – 80	40 – 80	40 – 80
Screw Drive Motor (HP)		0.5	0.75	1.0	1.5	3.0	3.0	5.0	5.0	7.5	7.5	10.0

DO NOT USE FOR CONSTRUCTION. Figures are nominal and subject to change.

ADVANTAGES

- Enclosed conditioning tank equipped with viewing window and variable speed agitator is always included for the best control of floc quality
- Segmented screens come standard on all ISGK-A models for convenient and easy maintenance
- High performance screens and seal technology to ensure the internal surface of the screen stays clean
- Automatic traveling shower runs without stopping the dewatering process

**STANDARD APPLICATIONS**

- Municipal sludge: aerobic, anaerobic and mixed
- Food & beverage waste and process: DAF floatings, fruits and vegetables processing, meat and fish processing
- Energy: digester, ethanol and manure
- Pulp & paper
- Chemicals

**ENCLOSED MOBILE UNIT:
PILOT TESTING/RENTALS****ALSO AVAILABLE:
ITA TUMBLING THICKENER****CONTACT**

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