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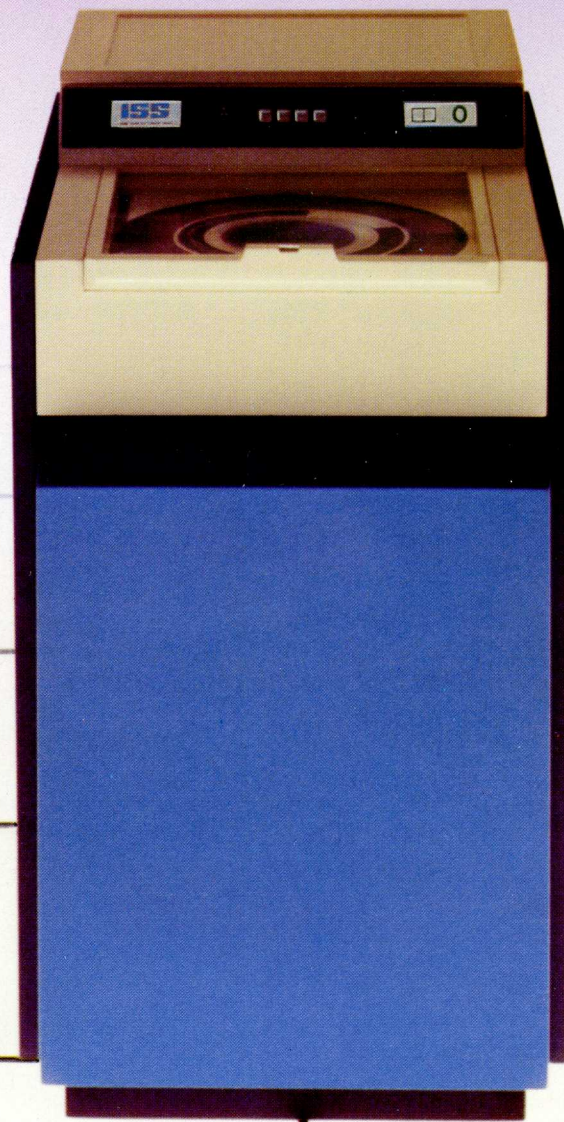
ISS 7330-11
Disk Storage Drive

Another example of technological leadership for the generations ahead

ISS 7330-11

Because data storage requirements go beyond your needs today…so does ISS engineering

ISS is the leader in designing and building innovative, dependable and cost-effective disk mass storage systems. The ISS®7330-11, together with the lower capacity 7330-10, continues this tradition. Both incorporate the technical advances of the ISS 7330 (the world's most widely used independent 100-megabyte disk drive) plus some very important extras.

Doubled Capacity — 200-million 8-bit bytes, contained on 19 recording surfaces (The 7330-10 has a capacity of 100-million bytes).

Exceptional Speeds — fastest positioning available (averaging 27 milliseconds) and rapid start/stop time of 15 seconds.

Compactness — this powerful unit measures a mere 20 x 34 inches plus a 1-inch finishing panel at each exposed side.

Operator Convenience — easy pack loading at waist-high, 36-inch level; no awkward lifting or stooping.

Silent Operation — the quietest disk drive in its class on the market today.

Dependability — this unit is already setting new industry standards for reliability.

The ISS 7330-11...
continuing a tradition in superior disk storage drives

The ISS 7330-11 upholds a tradition established by the recognized independent leader in disk storage technology. ISS has had a long string of industry firsts — first with 30 milliseconds average access in 1968, first with 27 milliseconds average access in 1972, first with non-wear/non-contact optical positioning, first with closed loop servo, first with temperature compensation, first with 15-second start-up, first with interchangeable pack 200-track-per-inch drives, first with 4-channel-switch controller, first with the high-efficiency release after format write (AFC), first with electronic tachometer, and first with electronic "fail-safe" reservoir.

ISS has advanced the disk storage state-of-the-art since 1967. And today, with the added backing of Sperry Rand Corporation, ISS is continuing to build its technological leadership for the generations ahead.

The amazingly compact, super-quiet 7330-11 offers near-instant access to 200-million bytes of capacity. Information is contained on 19 different recording surfaces; each surface has 815 addressable tracks. Recording density is 370 tracks per inch, and the bit density is 4040 bits per inch. Our drive uses the industry standard IBM 3336-11 disk pack, or equivalent packs from other established manufacturers.
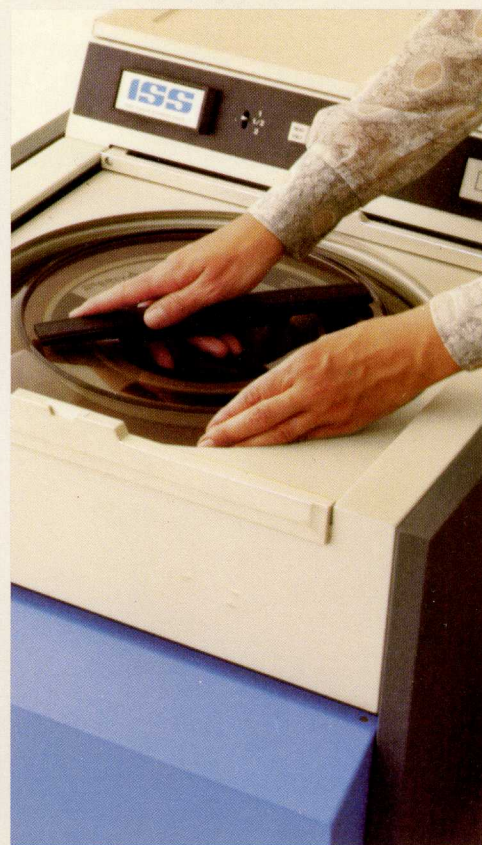
Additional ISS 7330-11 leadership features:

- fastest positioning in the industry
- precision track-following system
- cleanest head-disk environment
- dual port operation
- rotational position sensing
- interchangeable logical address plugs
- key positioning functions self-verified during every head load
- compact single spindle cabinet
- waist-high disk-pack loading
- 15-second start/stop time
- easy access for simple checkout and servicing

The 7330-10:
Our 100-megabyte version

The 7330-10 has all of the superior features found on the 200-megabyte drive. Fastest access time in the industry, quiet operation, cleanest air, compactness, and all the others. Plus, as your needs increase, the 7330-10 is quickly upgradable to 200-megabyte capacity at your user's site.

ISS support —
24 hours a day / 7 days a week

ISS maintains a complete support facility for all customers. Spare parts and technical assistance are available on a round-the-clock emergency basis. And we maintain facilities at our plant to train your field engineering people in both diagnostic and repair procedures. Our highly qualified technical support group is ready at all times to respond to unusual problems, provide on-site assistance, or conduct field technical seminars.

Specifications

	7330-11	7330-10
Storage capacity	200 million bytes	100 million bytes
Bit density	4040 BPI	same
Track density	370 TPI	192 TPI
Disk pack	IBM 3336-11 or equivalent	IBM 3336 or equivalent
Cylinders per pack	815 addressable	411 addressable
Recording surfaces	19 data, plus 1 servo surface	same
Access time (nominal)	5 milliseconds to adjacent cylinder	7 milliseconds to adjacent cylinder
	27 milliseconds, average	same
	50 milliseconds, maximum	same
Operation (nominal)	15 seconds start/stop	same
Disk rotational speed	3600 RPM ±2%	same
Number of heads	19 data, 1 servo	same
Data transfer rate	806 kilobytes per second	same
Power requirements	200/208/230 VAC ±10% 60 Hz ±1% 3 phase delta 6 amps running	same
	200/220/230/240 VAC ±10% 50 Hz ±1% 3 phase delta 6 amps running	same
	345/380/400/415 VAC ±10% 50 Hz ±1% 3 phase wye 4.5 amps running	same
Operating environment	Temperature 60°F to 90°F	same
	Relative humidity 20% to 80%	
	Heat dissipation 5500 BTU/hour (nominal)	
	Air flow 140 CFM	
Physical dimensions	Height 40 inches (101.6 cm)	same
	Width 20 inches (50.8 cm)*	
	Depth 34 inches (86.4 cm)	
	Pack-loading height 36 inches (91.4 cm)	
	Weight 490 lbs. (222.3 kg)	
	*plus a 1-inch (2.5 cm) finishing panel at each exposed side	

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10435 N. Tantau Avenue
Cupertino, CA 95014
(408) 257-6220
TWX 910-338-0280

40 William Street
Wellesley, MA 02181
(617) 237-6450
TWX 710-383-0603

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