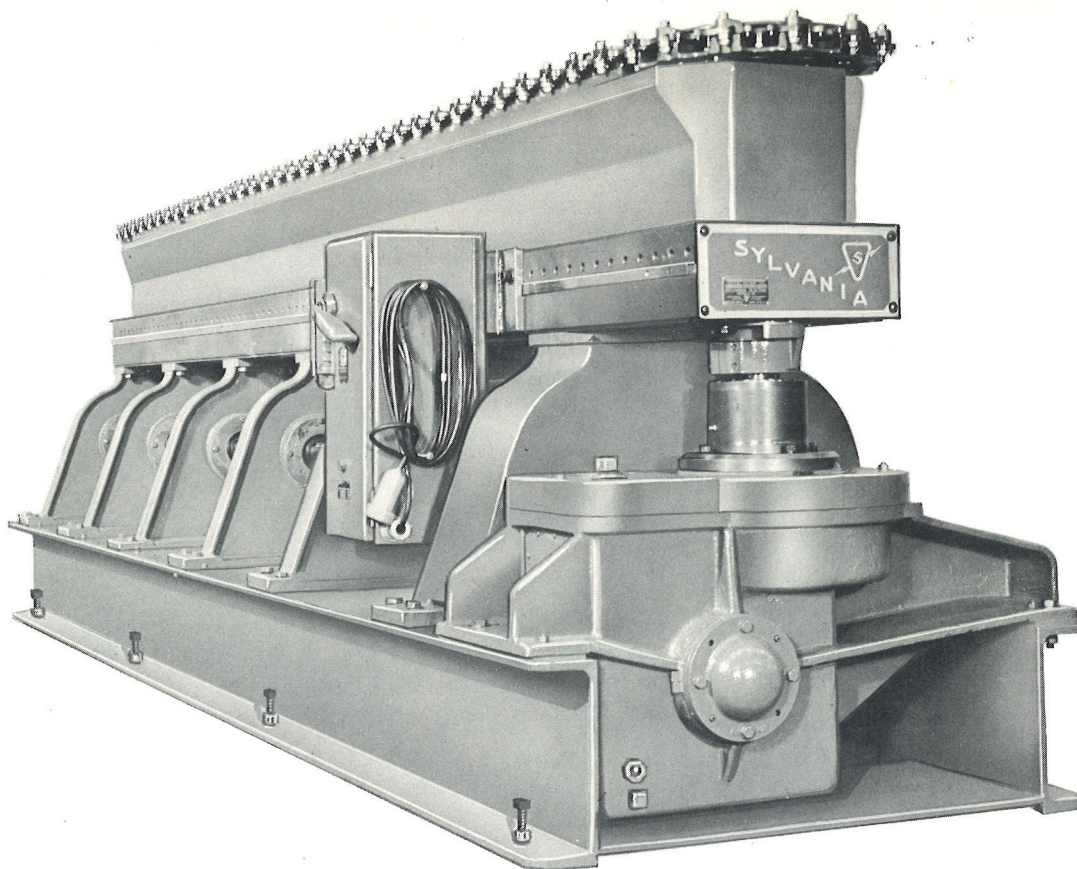


1962



Sylvania *Precision Automation* **Machines**

CONVEYOR INDEXING CHASSIS

Designed • Built • Tested by



Sylvania

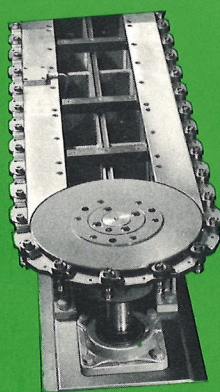
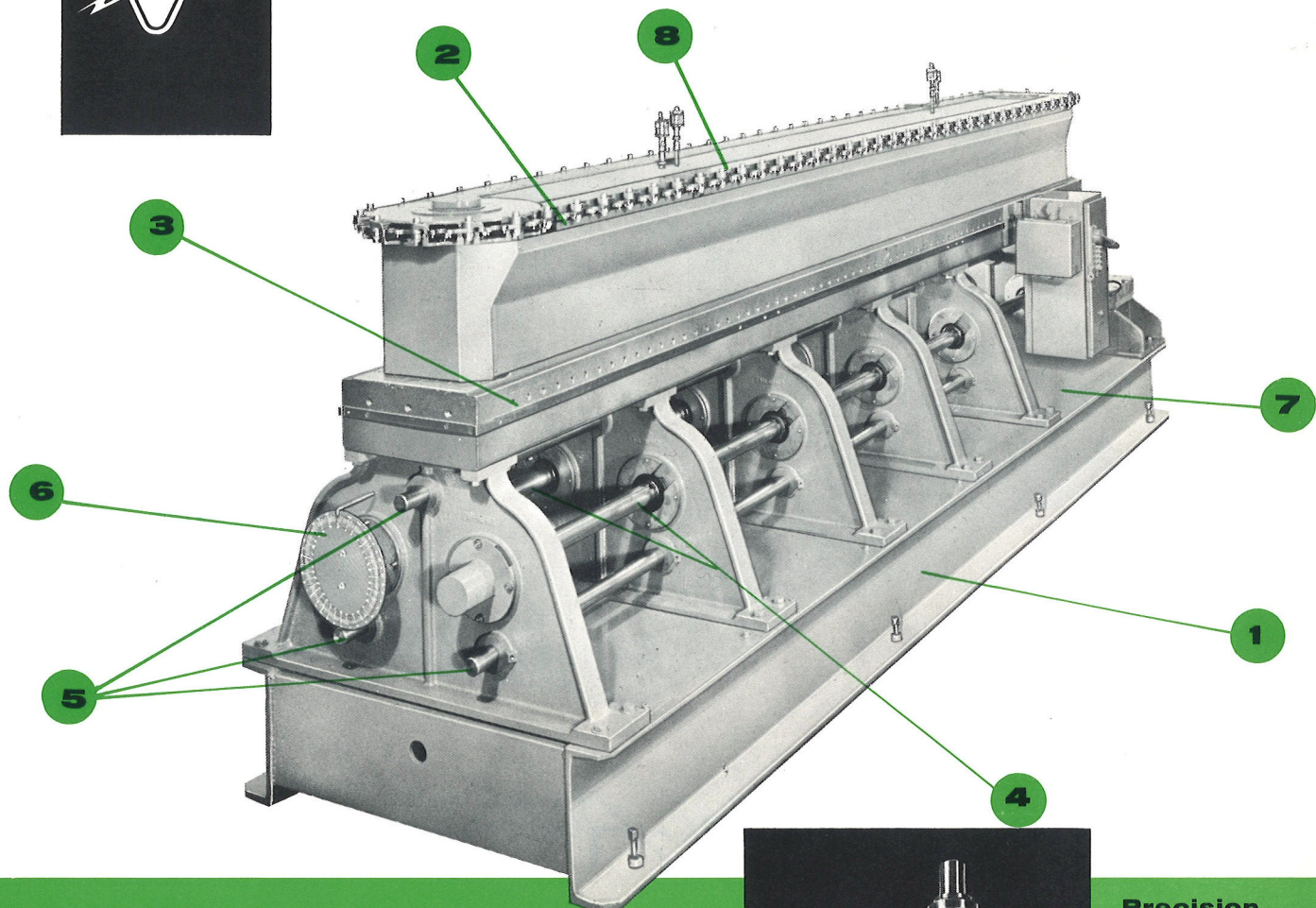
For 20 years, Sylvania has developed and built automatic indexing and special-purpose machines for a wide range of manufacturing processes and assembling operations.

Ideal for HIGH-SPEED AUTOMATIC ASSEMBLY • TESTING & INSPECTION • FABRICATING OR FINISHING SPECIAL PARTS • INDEXING • PACKAGING

... and thousands of other applications

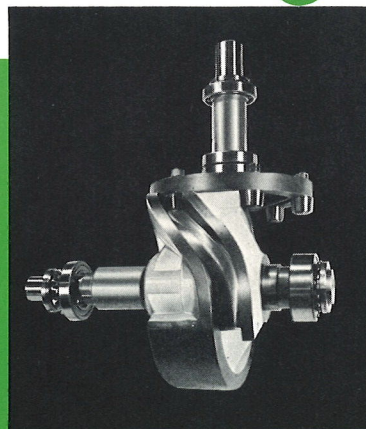


CONVEYOR INDEX



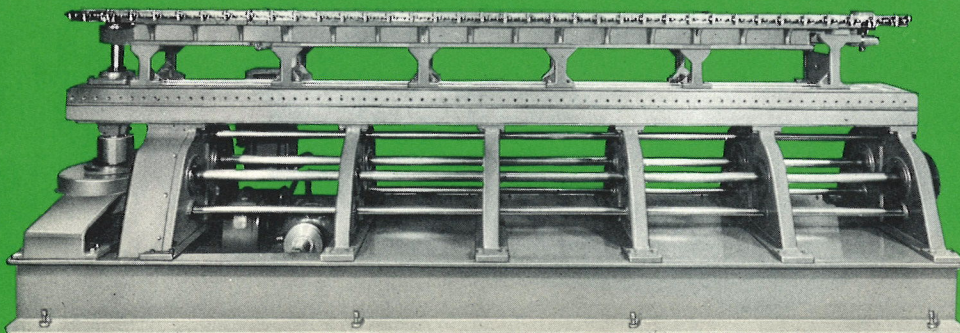
Patented Work Carrier Chain

The special patented chain has links to which work holders can be attached. Far superior to commercial chain with its inherent stretch. Ball bearings attached to each link are guided by hardened and ground races attached to the cast iron chain frame which positively controls the path of the chain.



Precision Index Drive

The indexing transmission is a self-contained unit carrying a barrel type crossover cam, mated with tapered rollers on a spider, all running in a bath of oil to give years of wear-free, quiet operation. A self-locking feature is built into the cam to provide zero lash during dwell and positive control during indexing. The precision built into this unit, together with the chain itself, eliminates the need for floating tooling at the work stations. Index Transmission also available as separate order.



Ruggedized Frame Construction

Sturdiness and rigidity are engineered and built into this strong welded steel base and heavy cast iron frame. Two full-length castings securely keyed and bolted between rugged cast iron samsons form steady bases for chain races, tool mounting, and tool drive members.

INDEXING CHASSIS

Check these Outstanding Advantages!

Hundreds of Sylvania-made machines such as the Conveyor Indexing Chassis are in constant trouble-free operation in plants all over the country — giving years of maximum performance with minimum upkeep. These rugged machines, with strong welded steel bases and heavy cast iron frames, are versatile, too — the perfect chassis for any number of automation processes, both automatic or semi-automatic. Just check these distinctive advantages:

1. Wide Based Chassis — Much heavier construction to maintain the built-in accuracy and stability needed for years of low maintenance, top performance.

2. New Chain that Doesn't Stretch or Sag — Special patented chain links, of $\frac{3}{8}$ " iron-and-steel alloy castings, permit stationary — not floating — tooling — and provide the base to which horizontal or vertical work holders are fastened. Accurately located dowel pins and adjacent tapped holes in each link guarantee repetitive work locations at each station.

3. All-Around Tooling — Complete circumference tooling is afforded by a full-length fixture mounting rail that's keyed and tapped around its vertical faces. A flat steel plate between the chain races on top of the machine gives an additional tool mounting area.

4. Tooling Drive Versatility throughout the machine, thanks to two cam shafts of $1\frac{5}{8}$ -inch diameter and keywayed their entire length. Sealed ball bearings

at each samson make a rigid and maintenance-free mounting for these shafts plus sturdiness for cam, sprocket, or gear mounting.

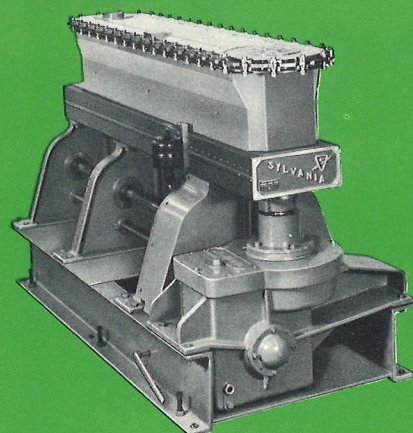
5. Full-Length Rocker Shafts — Three lever shafts of $1\frac{1}{4}$ -inch diameter run parallel to the cam shafts to provide a pivot for cam levers at any desired position.

6. Large Timing Disc is marked around its edge in both directions for mounting on either cam shaft or end of the machine.

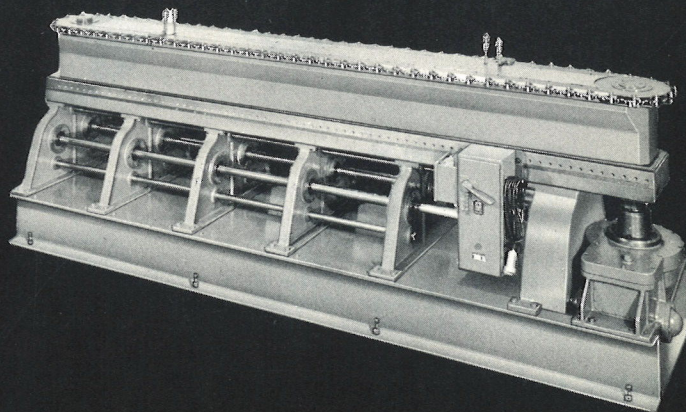
7. Wide Range of Speeds is provided by independent drive nested in base. Drive gives protection to each member of machine, too. Electrical controls can be mounted close to the drive to form a self-contained basic chassis.

8. Extras That Keep Upkeep Down — Maintenance is reduced to a minimum by application of special heat and oil-resistant paint to lower members, and plating to the top plates with built-in and constant lubrication of all moving parts.

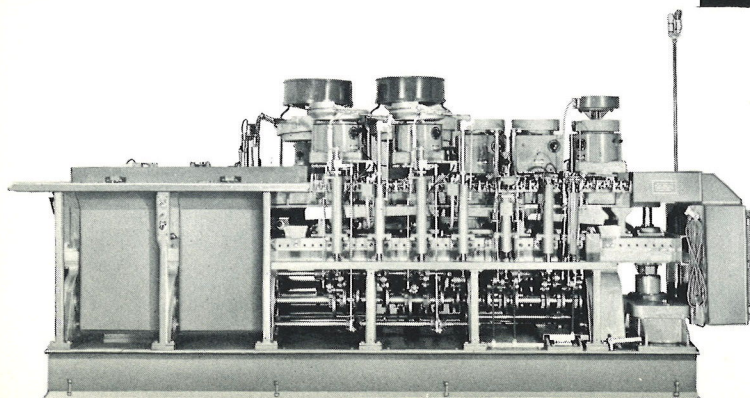
44 Link Conveyor



80 Link Conveyor



Here's How the Conveyor Indexing Chassis looks, ready to be applied to your processing and assembling operations . . .

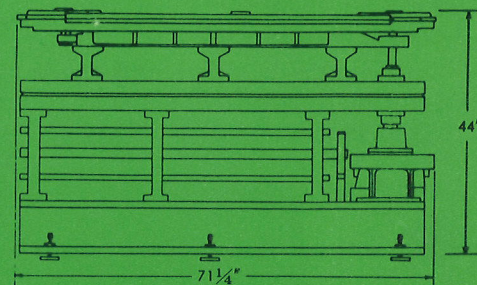
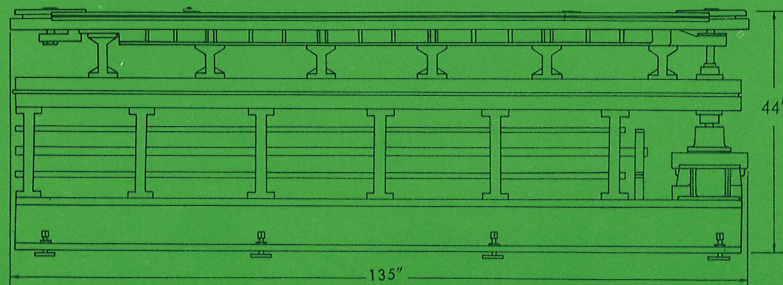


. . . And Here is an example of a complete application of the Conveyor Indexing Chassis, showing manual stations coupled with automatic stations.

CONVEYOR INDEXING CHASSIS

80 Links 3½" pitch

44 Links 3½" pitch

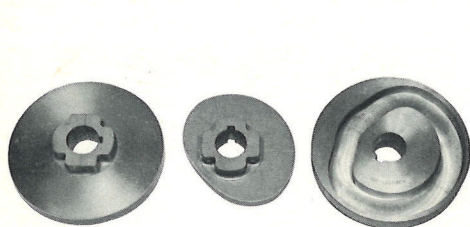
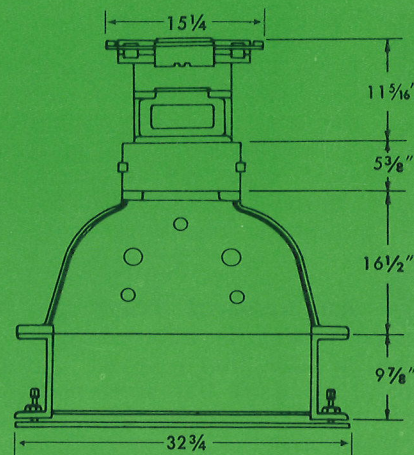


Standard Drive Components Normally Furnished With Chassis

MOTOR	1 h.p. (44 Link) 1½ h.p. (80 Link) totally enclosed
PULLEYS	Adjustable "V" with Belt
REDUCER	Heavy Duty Worm Wheel
COUPLING	Friction Plate Manual Reset
LONG CAM SHAFTS	1 to 1 ratio with 80 tooth Herringbone Gears

Production

INDEX:	1, 2, or 3 links (3½", 7", 10½") per Index Motion
TIMING:	Variable Dwell period to 260° with crossover cam or greater with electrical clutch
PRODUCTION:	To 8,000 Assemblies Per Hour



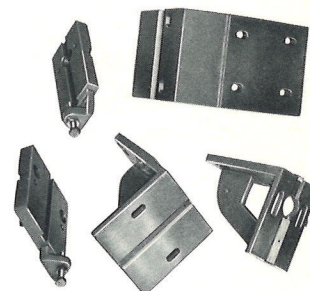
CAMS AND BLANKS

Tool driving is easy with these standard parts — they fit all Sylvania chassis and save you time and money. From our large stock of cam blanks, your specific needs can be quickly and economically filled. Cams are split for ease in application. We specialize in cam cutting and welcome the opportunity to serve you.



LEVERS

Choose a matching cam lever from one of our many cast iron split-hub levers equipped with an oil wick and oil hole for lasting lubrication. Square-faced split collars for sure locking and quick repositioning are also available.



RAIL PLATES AND BRACKETS

With ready-made rail plates keyed in both directions and rugged adjustable tool brackets bolted to them, a versatile mounting is ready for your every need. Plain tool bracket knees with mounting holes and key slots also provide a steady pedestal for any tooling device.

THERE ARE ROTARIES, TOO! A full line of individual transmissions and complete rotary or turret-type index chassis are also available.

If you have special requirements or need help on your automation problems, write to:

SYLVANIA

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EQUIPMENT DEVELOPMENT PLANT

121 Loring Avenue, Salem, Massachusetts