

## 320 Series

# LYCOMING

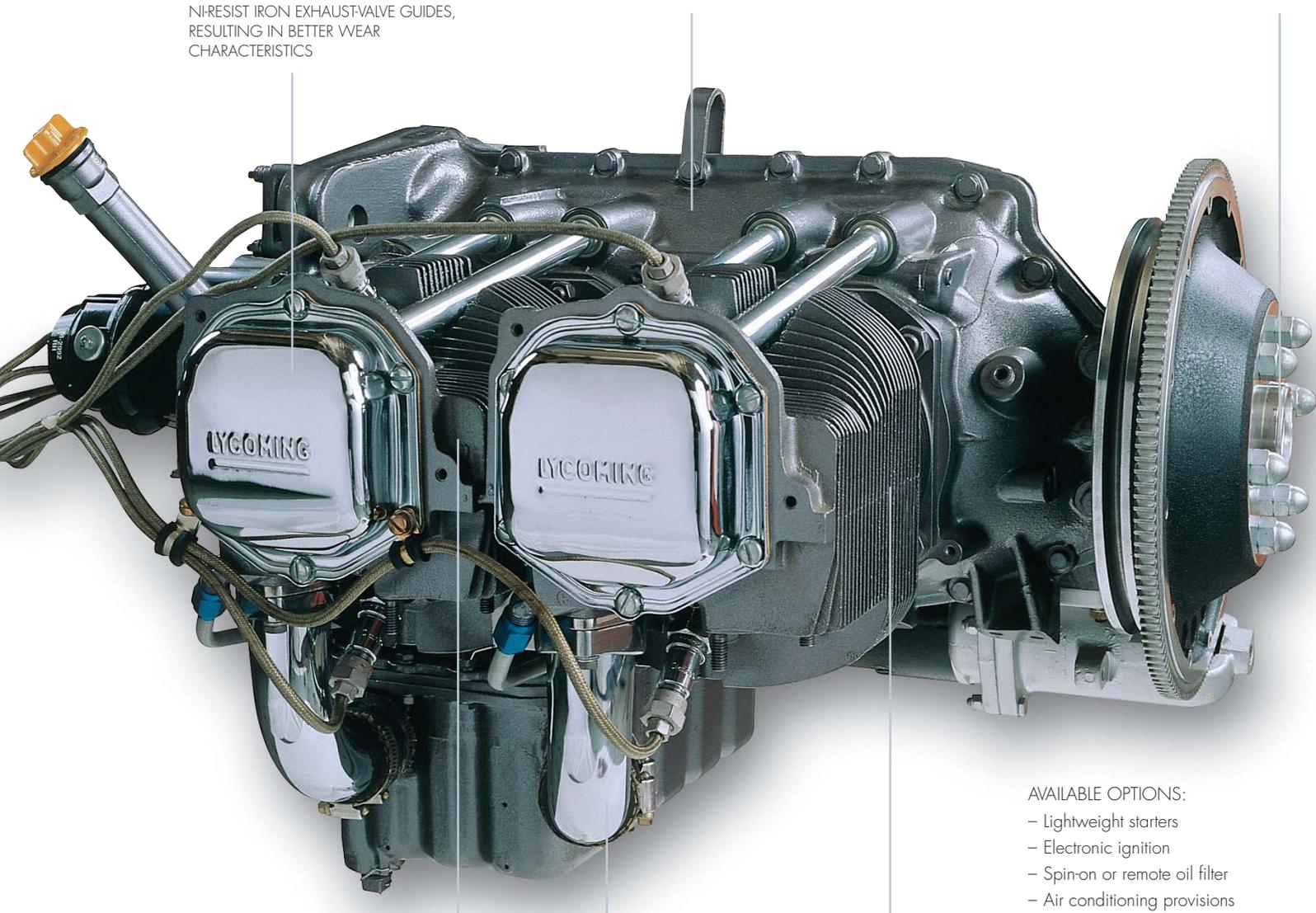
*Its resolve is made of steel, too.*

The Lycoming O-320 series engines are four-cylinder, direct-drive, horizontally opposed, air-cooled models. The cylinders are of conventional air-cooled construction with heads made from an aluminum-alloy casting and a fully machined combustion chamber. The cylinder barrels are machined from chrome nickel molybdenum steel forgings with deep integral cooling fins, ground and honed to a final specified finish. The O-320 series engines are equipped with a float-type carburetor. Particularly good distribution of the fuel-air mixture to each cylinder is obtained through the center-zone induction system, which is integral with the oil sump and is submerged in oil, ensuring a more uniform vaporization of fuel and aiding in cooling the oil in the sump. In addition, the IO-320 has a fuel injector. The fuel-injection system schedules fuel flow in proportion to airflow. Fuel vaporization takes place at the intake ports.

CHROMIUM-MODIFIED  
NI-RESIST IRON EXHAUSTVALVE GUIDES,  
RESULTING IN BETTER WEAR  
CHARACTERISTICS

FORGED-STEEL CAMSHAFTS

FORGED-STEEL CRANKSHAFTS



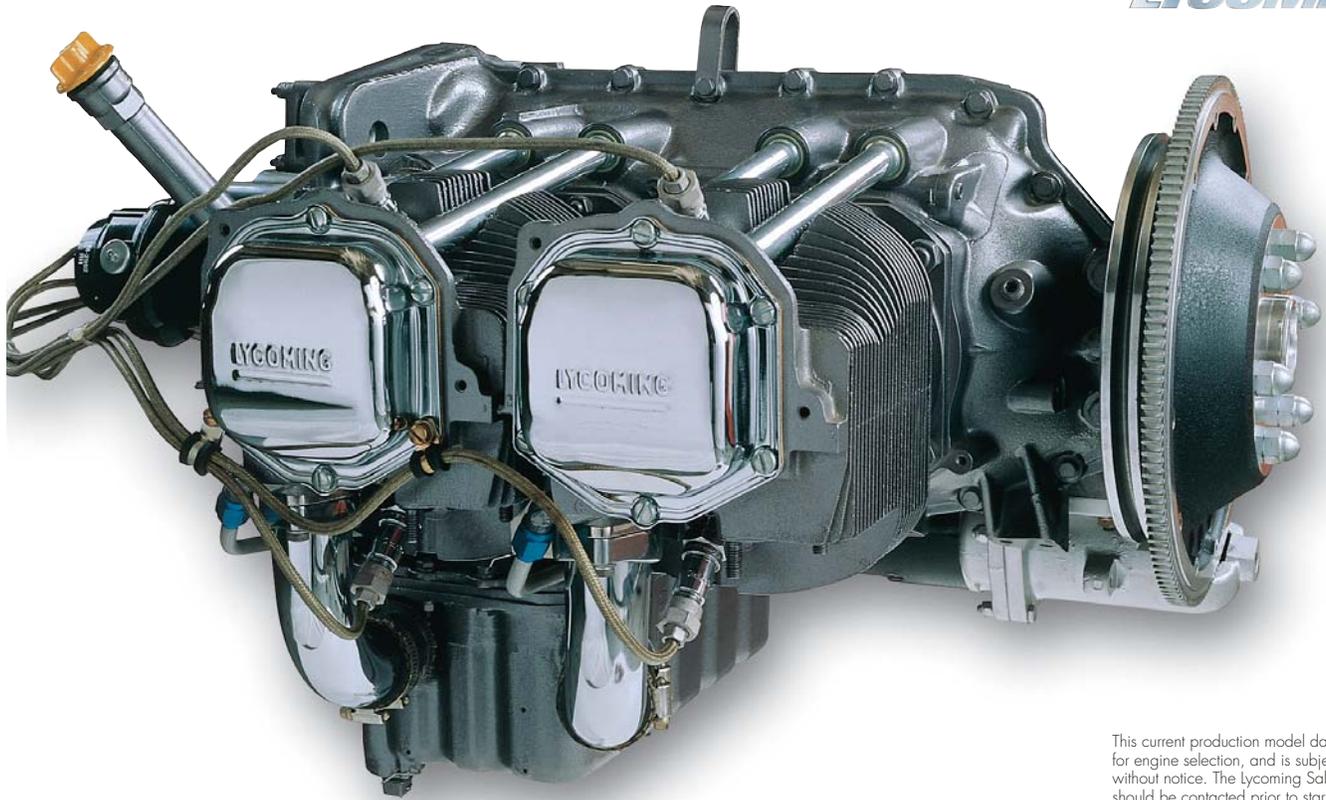
FORGED-STEEL  
CONNECTING RODS

OPTIONAL CHROME KIT

NITRIDE HARDENED STEEL  
ALLOY CYLINDER BARRELS

#### AVAILABLE OPTIONS:

- Lightweight starters
- Electronic ignition
- Spin-on or remote oil filter
- Air conditioning provisions
- Factory chrome kits:
  - Triple-plated rocker-box covers, intake pipes and shroud tubes
- Optional magnetos
- Fixed-pitch or constant-speed propeller applications



This current production model data is provided for engine selection, and is subject to change without notice. The Lycoming Sales Department should be contacted prior to starting detailed installation layouts. Engine weights may vary according to specific engine model configuration.

**320 CUBIC INCH ENGINE SERIES**

MODEL	COMPRESSION RATIO	HP	RPM	TBO	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	DRY WT (LBS)	REMARKS
O-320-A	7.00:1	150	2,700	2,000	22.99	32.24	29.05-29.81	271-279	Conical Mounts
O-320-B	8.50:1	160	2,700	2,000	19.22-22.99	32.24	29.56-31.28	277-283	Conical Mounts
O-320-D	8.50:1	160	2,700	2,000	22.99	32.24	29.05-31.82	278-286	Dynafocal Mounts
O-320-E	7.00:1	150	2,700	2,000	22.99	32.24	29.05-30.70	268-278	Dynafocal Mounts
O-320-H	9.00:1	160	2,700	2,000	24.46	32.66	32.26	283	Dynafocal Mounts
IO-320-A	7.00:1	150	2,700	2,000	19.22	32.24	33.59	280	Dynafocal Mounts
L/IO-320-B	8.50:1	160	2,700	2,000	19.22	32.24	33.59	285-287	Dynafocal Mounts
L/IO-320-C	8.50:1	160	2,700	1,800	19.22	32.24	33.59	294	Dynafocal Mounts
IO-320-D	8.50:1	160	2,700	2,000	23.18	32.24	30.70	291	Dynafocal Mounts
IO-320-E	7.00:1	150	2,700	2,000	23.18	32.24	29.56	285	Conical Mounts
IO-320-F	8.50:1	160	2,700	2,000	19.22	32.24	33.59	299	Dynafocal Mounts

**LIO-320**

**ENGINE LABELING LEGEND:**



**1 PREFIXES:**

- AE - Aerobatic (wet sump)
- H - Horizontal Helicopter
- I - Fuel Injected
- L - Left Hand Rotation Crankshaft
- O - Opposed Cylinders
- T - Turbocharged

**2 CYLINDER CUBIC INCH DISPLACEMENT:**

Number of Cylinders	Cubic Inch Displacement
4	235, 320, 360
6	540, 580
8	720

**ENGINE MOUNT CONFIGURATIONS:**

- Conical -**  
Straight mounts parallel to crankshaft.
- Dynafocal -**  
Mounts set at a specified angle to the crankshaft with Type 1 (30°) and Type 2 (18°).
- Bed -**  
Bed mounting available on select engine models.