



■ One of five MAOC Gemini packages for Mid-Con Gas Compression is shown completed and ready for delivery.

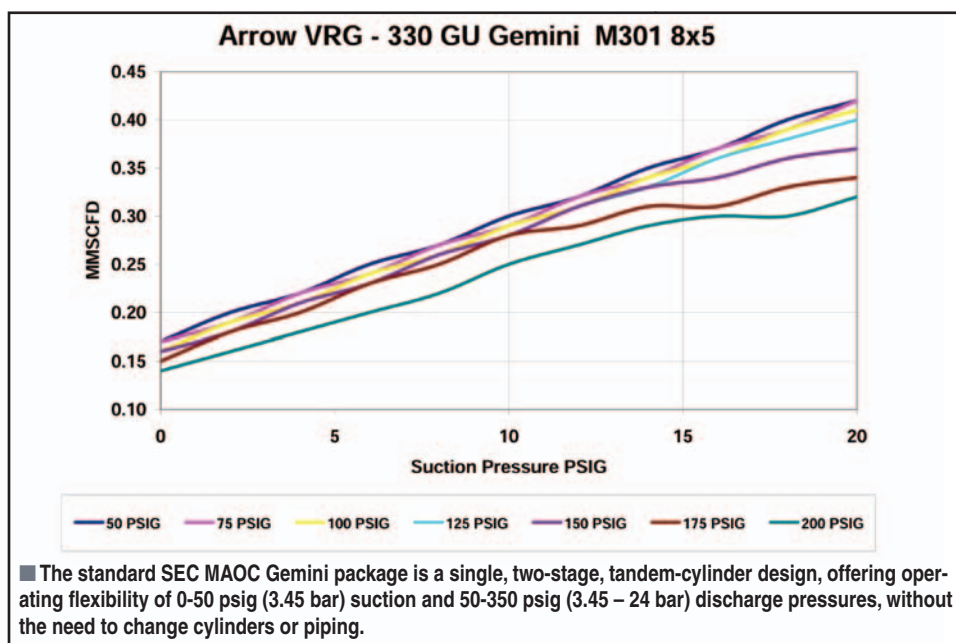
COMPRESSOR PACKAGE FOR LOW PRESSURE GAS APPLICATIONS

Standard Equipment Company Offers “Old Reliable” — Arrow Engine, Gemini Frame-Compressor Package Designed for Wide Range of Operating Conditions

By Jake Elliott

When the late Mike O’Conner of Corpus Christi, Texas, U.S.A., introduced his industry-famous Gemini gas compressor to the oil and gas fields many years ago, it’s unlikely he ever envisioned the day when his creation would succeed him in a newer and revised form. Mike called his Gemini compressor the “MOC,” the initials of his name. Today, the owners of SEC, which is packaging a standardized version of the Gemini, call their product the “MAOC.” The added “A” has duplicate meaning: it represents the Arrow gas engine used in their package, and not coincidentally, also stands for Mike’s middle name, Albert.

The original Gemini gas compressor, which O’Connor
continued on page 26





■ One of 5 MAOC Gemini packages is nearing completion in SEC's 80,000 sq.ft. shop in Northwest Houston, Texas, U.S.A., in June 2004. The shop, which sits on 16 acres of stabilized land, has four bays, each equipped with two 7.5 ton cranes.

called the "Gemini Twins" (Gemini engine and compressor), was a small, single-stage unit driven by a Gemini Model G40 engine and compressor frame. It was designed specifically to increase gas production in low volume fields. SEC's MAOC is a single, two-stage, tandem-cylinder compressor package offering the operating flexibility of suction pressures from 0-50 psig (0-3.45 bar) and discharge pressures of 50-350 psig (3.45-24.14 bar).

SEC has broadened the target market for the MAOC to include applications in declining pressure gas fields, plunger lift situations for enhanced oil recovery, low pressure gathering systems, and coal seam production. The company believes

the MAOC offers the oil and gas industry a "low cost, dependable and flexible alternative to rotary screw and integral V-8 compressors, air compressor conversions, and the historical success of a basic product that has served the industry well for over 30 years," according to company officials. "It's a real compressor package that meets the oil field industry's expectations — past, present and future."

When we met recently with Gary Hyde, one of three owners of SEC, at its new facility in Northwest Houston, he told us, "We are committed to a program of building a series of standard compressor packages in a stocking program that we can offer to lease fleet



■ Veterans of the oil patch compressor business will likely remember Mike O'Connor's famous "Gemini Twins" advertisement. O'Connor was the creator of the small Gemini gas engines and compressors, scores of which were produced and continue to operate today.

operators, distributors and users. We're also rather unique in that we are prepared to offer 100% financing on all of our standard packages."

Hyde said the MAOC package being produced by SEC has a number of new features that appeal to field operators. Among them are "the proven Arrow VRG 330 engine and Gemini compressor (now produced by GE Oil & Gas) and the flexibility and range of operating conditions that are available without the need to change cylinders or piping. The scrubbers and coolers are designed for operating conditions up to 1000 psi (69 bar) discharge. The package has a radiator for jacket water cooling, and the compressor drives the process cooler. Gemini has also built in additional safety features, the main one being a distance piece between the compressor cylinders and the frame crankcase that includes a piston rod high-pressure packing case to prevent gas from leaking into the crankcase. It is a design that addresses the needs of oil and gas field operators now, and for the future."

At the time of our visit to the SEC facilities, the shop was in the process of completing one of five MAOC packages ordered by MidCon Gas Compression, a leasing company. In addition to the MAOC standard single, two-stage Gemini package, SEC also is producing a series of four other standard packages designed for two- and three-

stage operation and operating conditions from 20-200 psig (1.38-13.8 bar) suction pressures, and discharge pressures up to 1000 psig.

SEC's facilities, which the company moved into in early 2004, has a total of 80,000 sq.ft. (7440 m²) of shop space on 16 acres (6.4 hectare) of stabilized yard, which can be used for equipment storage. The shop has four bays with two 7.5 ton (6.8 tonnes) cranes in each bay. An 8500 sq.ft. (791 m²) of office building is adjacent to the shop.

In addition to Hyde, the other owners are Bo Pierce and Ralph Gates. All three owners have extensive experience in the oil and gas compression equipment industry. Hyde serves as the sales and marketing manager, with Pierce responsible for fabrication operations and Gates for purchasing and financial functions.

SEC is an operating company under SEC Energy Products and Services L.P. In addition to its standardized packages, the company will offer packaged compressors using equipment produced by Cooper Compression (including Ajax slow-speed compressors), Caterpillar, Waukesha, Cummins and Ariel. While SEC is not a lease/rental company, it does offer rental contracts on new packages through distributors and agents. ■

STANDARD PACKAGES TO BE STOCKED		
Engines	Frames	Standard 2- or 3-stage Cylinders
Bore Diameter in Inches		
Arrow		
VRG 330GU	M302	6.5 DA / 4.0 HE/2.5 C 5.5 DA / 4.0 HE/2.5 CE 4.5 DA / 4.0 HE/2.5 CE
Caterpillar		
3304 NA	H302	6.5 DA / 4.0 HE/2.5 CE 5.5 DA / 4.0 HE/2.5 CE 4.5 DA / 4.0 HE/2.5 CE
Caterpillar		
3306TA	H302	7.5 DA / 5.0 HE/3.0 CE 6.5 DA / 5.0 HE/3.0 CE 4.5 DA / 4.0 HE/2.5 CE
Caterpillar		
3516 TALE	D504	Cylinder Bore Range (2) 14-16.5/ 10-11.75/5.5-7.0
Waukesha		
5794 LT	D604	Cylinder Bore Range (2) 14-16.5/ 10-11.75/5.5-7.0