KOLM ENGINES



authorised Dealer:

KOLM ENGINES
4 stroke model aircraft engines

FUN-MODELLBAU
Kamann & Partner

Beckhausstrasse 76 - 33611 Bielefeld
Tel. 0521/176987

funmodellbau@kamann-partner.com



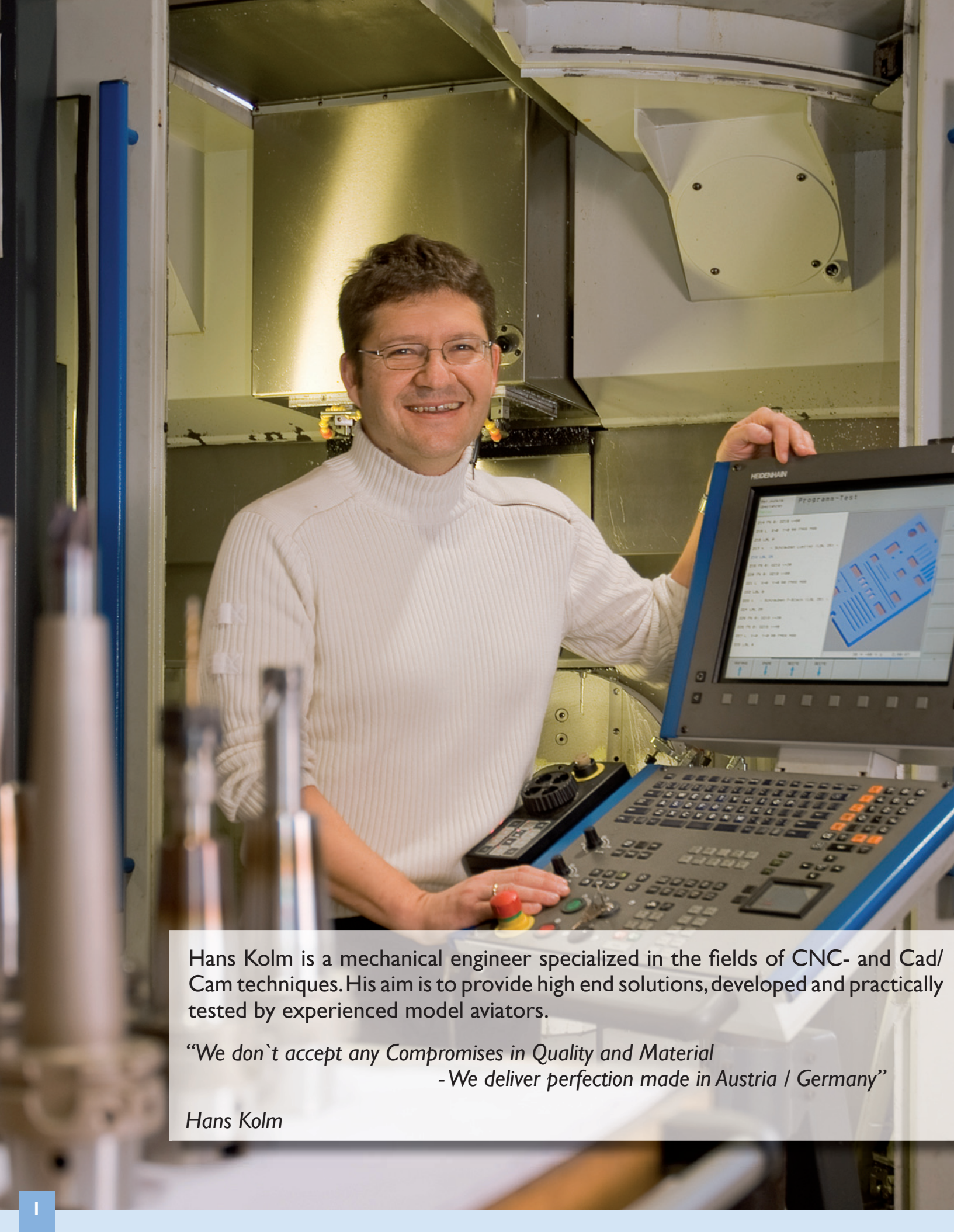
Design by www.kamann-partner.com Germany

KOLM ENGINES

4 stroke model aircraft engines



Dynamic & Perfection



Hans Kolm is a mechanical engineer specialized in the fields of CNC- and Cad/Cam techniques. His aim is to provide high end solutions, developed and practically tested by experienced model aviators.

"We don`t accept any Compromises in Quality and Material
- We deliver perfection made in Austria / Germany"

Hans Kolm

The principles

Constructing and manufacturing four stroke engines for scale models is our passion. Model engines designed and built by model aviators for model aviators is our line of operation. Almost all employees at KOLM ENGINES have a technical background and experience in aviation. Hans Kolm looks back on nearly 40 years flying model aircraft. In combination with the knowhow of his competence centre CNC TECHNIK KOLM this builds an excellent basis for the design, development and production of reliable and long lasting model engines.

Unique solutions instead of cheap mass productions – solely four stroke gasoline engines are manufactured at KOLM ENGINES. The construction is conducted on modern 3D-CAD- systems. All parts are manufactured with cnc-techniques by KOLM ENGINES in Austria under ongoing quality measurements.

An inspection and dimension report and the registration of the serial number are also characteristic for a thorough quality management.

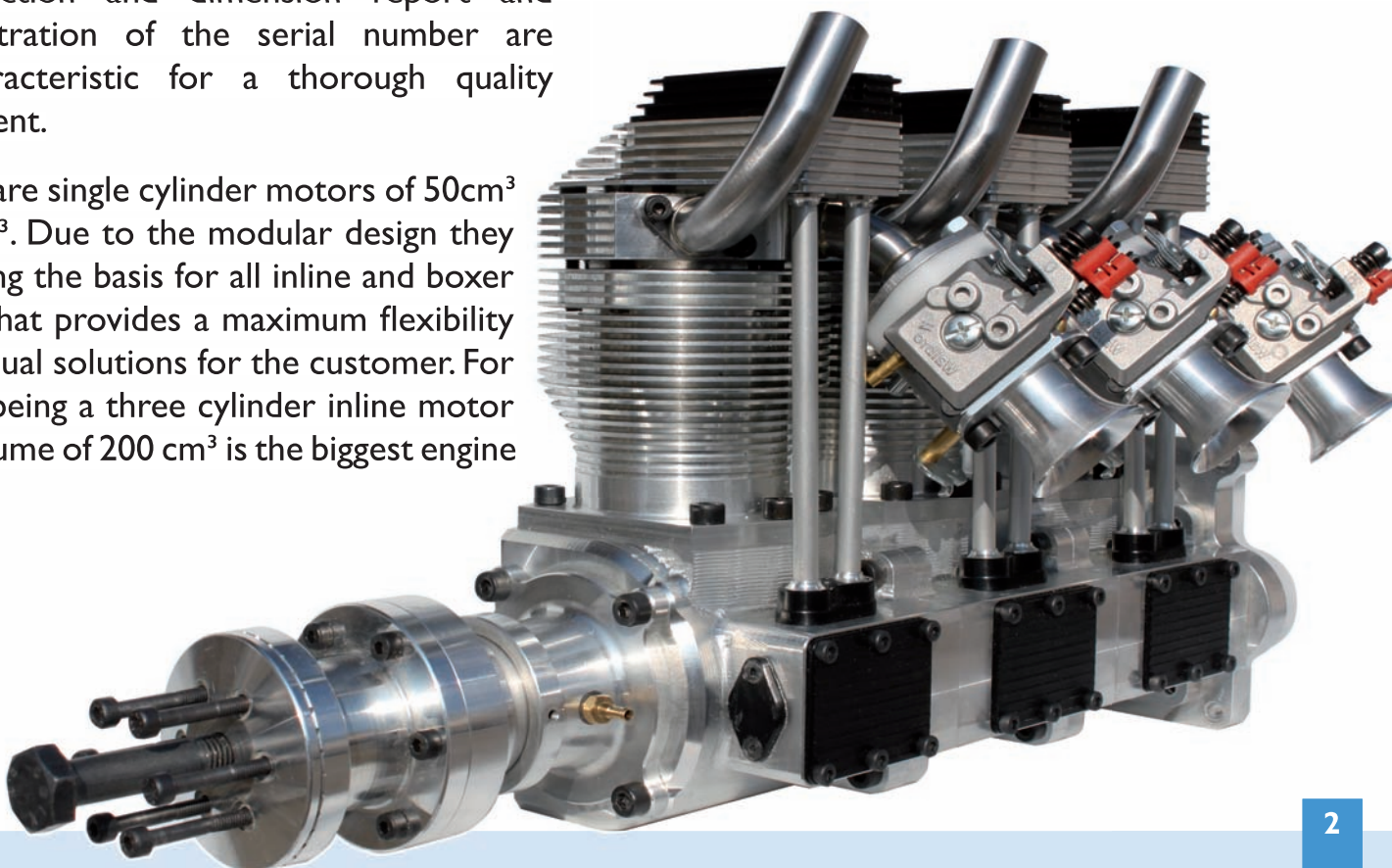
Available are single cylinder motors of 50cm³ and 65cm³. Due to the modular design they are building the basis for all inline and boxer engines. That provides a maximum flexibility for individual solutions for the customer. For the time being a three cylinder inline motor with a volume of 200 cm³ is the biggest engine available.

Price and Quality:

Kolm engines are high end quality products. Design, development, prototyping, production and quality control is lying in one hand – KOLM ENGINES AUSTRIA, as a full system supplier. Highest quality and reliability of raw materials and externally supplied parts is paramount and the basis for customer's satisfaction. We prefer suppliers from Austria and Germany ensuring a continuous high quality level.

Before being ready for the market all engine types run through a two year lasting test phase. Passing at the end the 100 hour "long run test" as well as additional quality checks the motor is released for production ensuring the customer will get a high end product.

Prior to delivery to the customer in a 100% end test all motors will guarantee their reliability in a one hour run on the test bench. Quality control is our obligation



FOUR STROKE

...pure passion for scale

Common Features

All four stroke engine contain a manufactured crankshaft made of heat treated steel, balanced with pressed in "wolfram weights" for extremely smooth running. The crank pins are hardened and pressed in mechanically. The steel connecting rods are made of hardened steel and are optimized with the Finite Element Method (FEM).

The bearing surfaces of the needle bearings are hartgespindelt and the upper connecting rod eyelet is made out of bronze implemented into the surface. The electronic ignition is microprocessor driven and provides automatic timing. Spark plugs with a thread M 10X1 are used. All engines are prepared to be combined with a gear box. As an option Kolm Engines delivers all motors with an electric starter.

The engines will run with a fuel-oil-mixture in a ratio of 1:50 up to 1:100. KOLM ENGINES emphasizes the use of ASPEN or STIHL gasoline. Using mixed gasoline will minimize wear and tear.

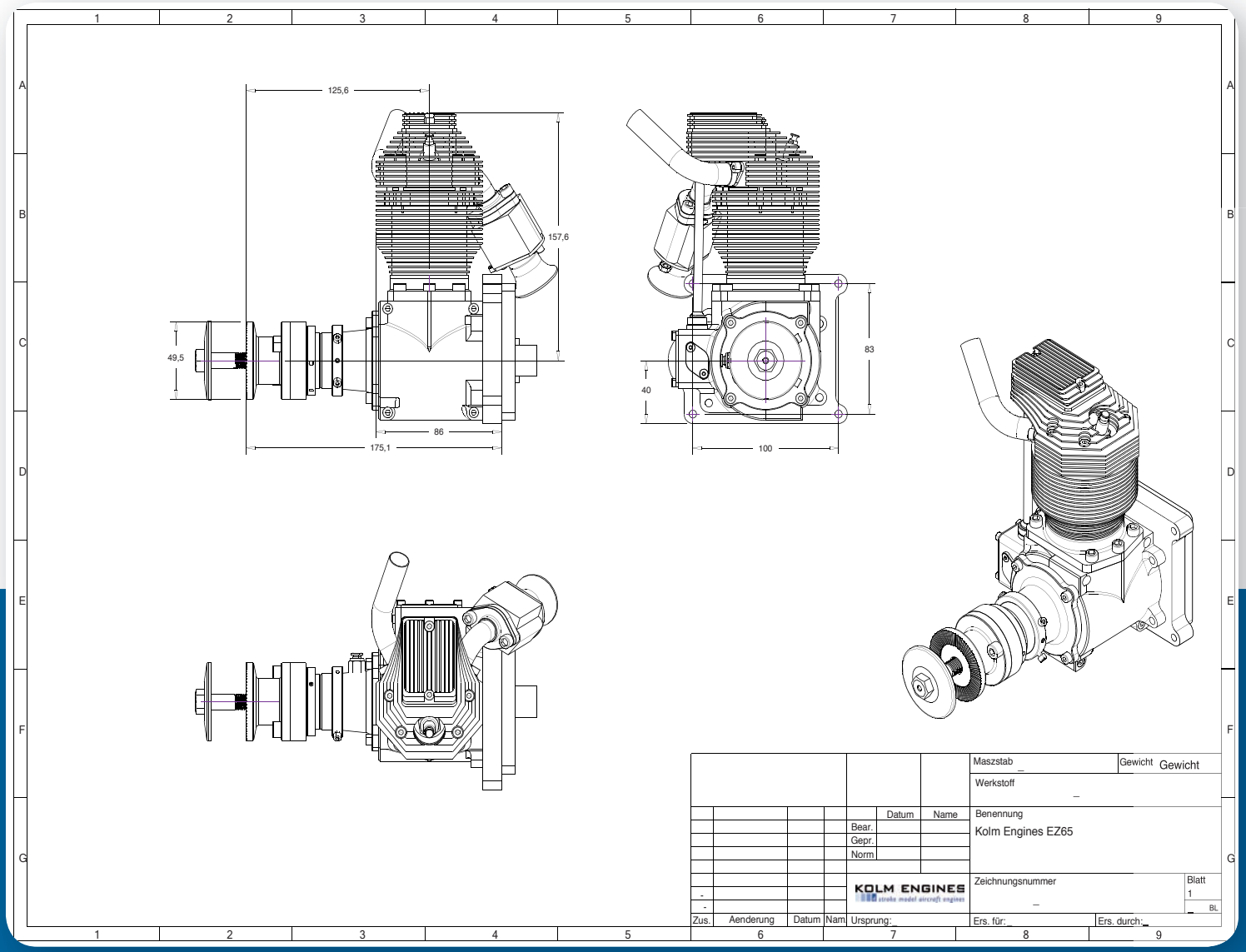
All engines are completely assembled and run in upon delivery to the customer. They come with a quality control certificate. A user's guide and a part list is also part of the package.







SCALE ENGINES



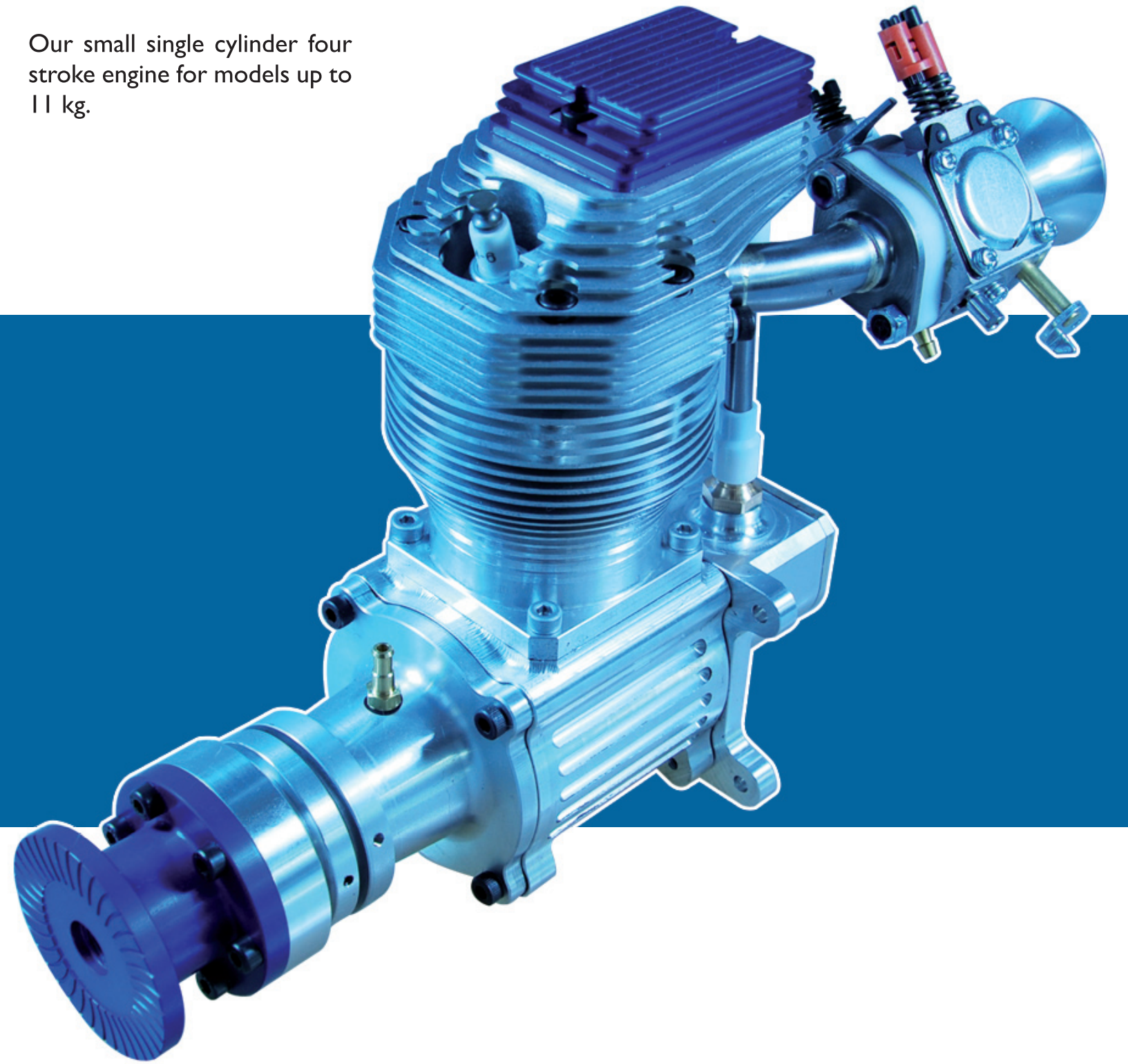
EZ 50

Volume:	**50 ccm**
Power:	**2,9 kW / 4,5 hp**
RPM:	**max 6000 min-1**
Propeller:	**Diameter / Gradient** **2-Blade 19-23" / 8-16"** **3-Blade 18-22" / 10-16"**
Fuel:	**Gasoline Mixture 1:50**
Weight:	**1950g**
Ignition:	**Electronic Ignition microprocessor driven with variable timing**
Carburator:	**WALBRO Wt225**

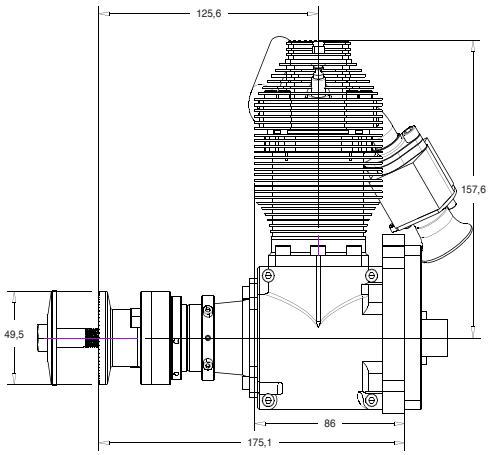
EZ 50

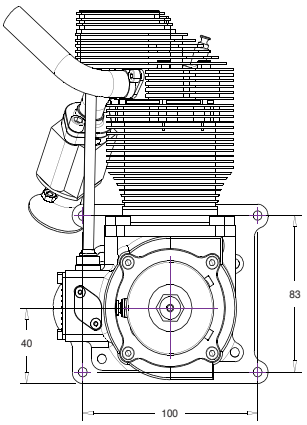
SINGLECYLINDER

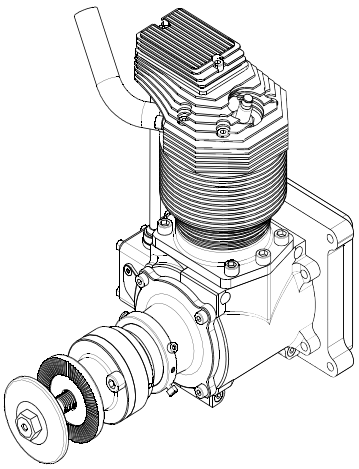
Our small single cylinder four stroke engine for models up to 11 kg.

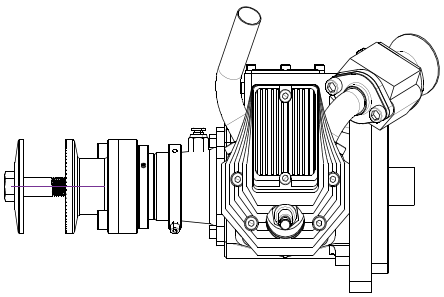


- LIGHTWEIGHT
- SLIM DESIGN
- LOW VIBRATION
- QUALITY CONTROL CERTIFICATE









						Maszstab _	Gewicht Gewicht
						Werkstoff _	
				Datum	Name	Benennung	
				Bear.		Kolm Engines EZ65	
				Gepr.			
				Norm			
				KOLM ENGINES		Zeichnungsnummer _	Blatt 1
-							BL
-							
Zus.	Aenderung	Datum	Nam	Ursprung:		Ers. für: _	Ers. durch: _

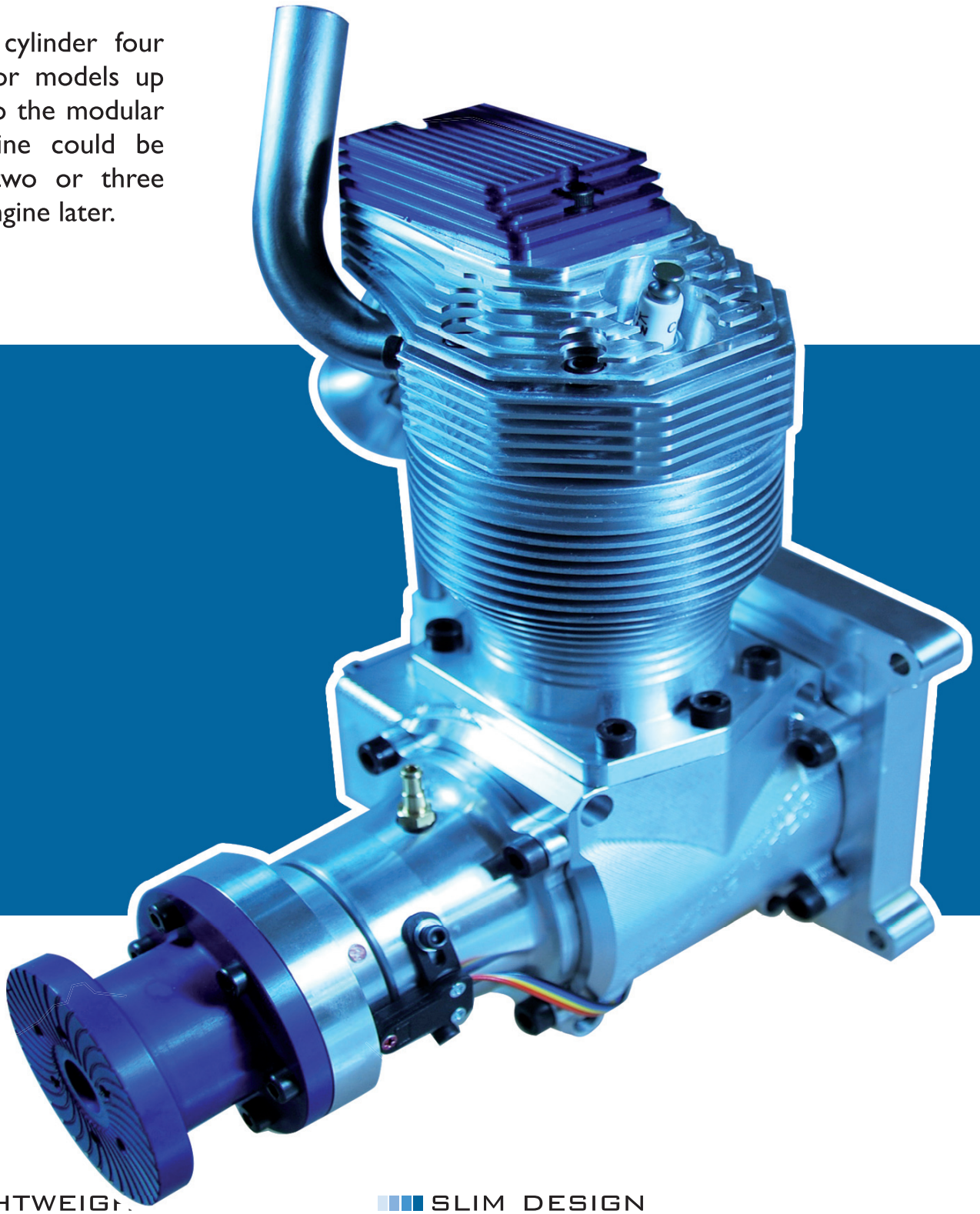
EZ 65

Volume:	**65 ccm**
Power:	**5 kW / 7 hp**
RPM:	**max 6000 min-1**
Propeller:	**Diameter / Gradient** **2-Blade 22-26” / 10-16”** **3-Blade 22-25” / 10-16”**
Fuel:	**Gasoline Mixture 1:50**
Weight:	**3300g**
Ignition:	**Electronic Ignition microprocessor driven with variable timing**
Carburator:	**WALBRO Wt225**

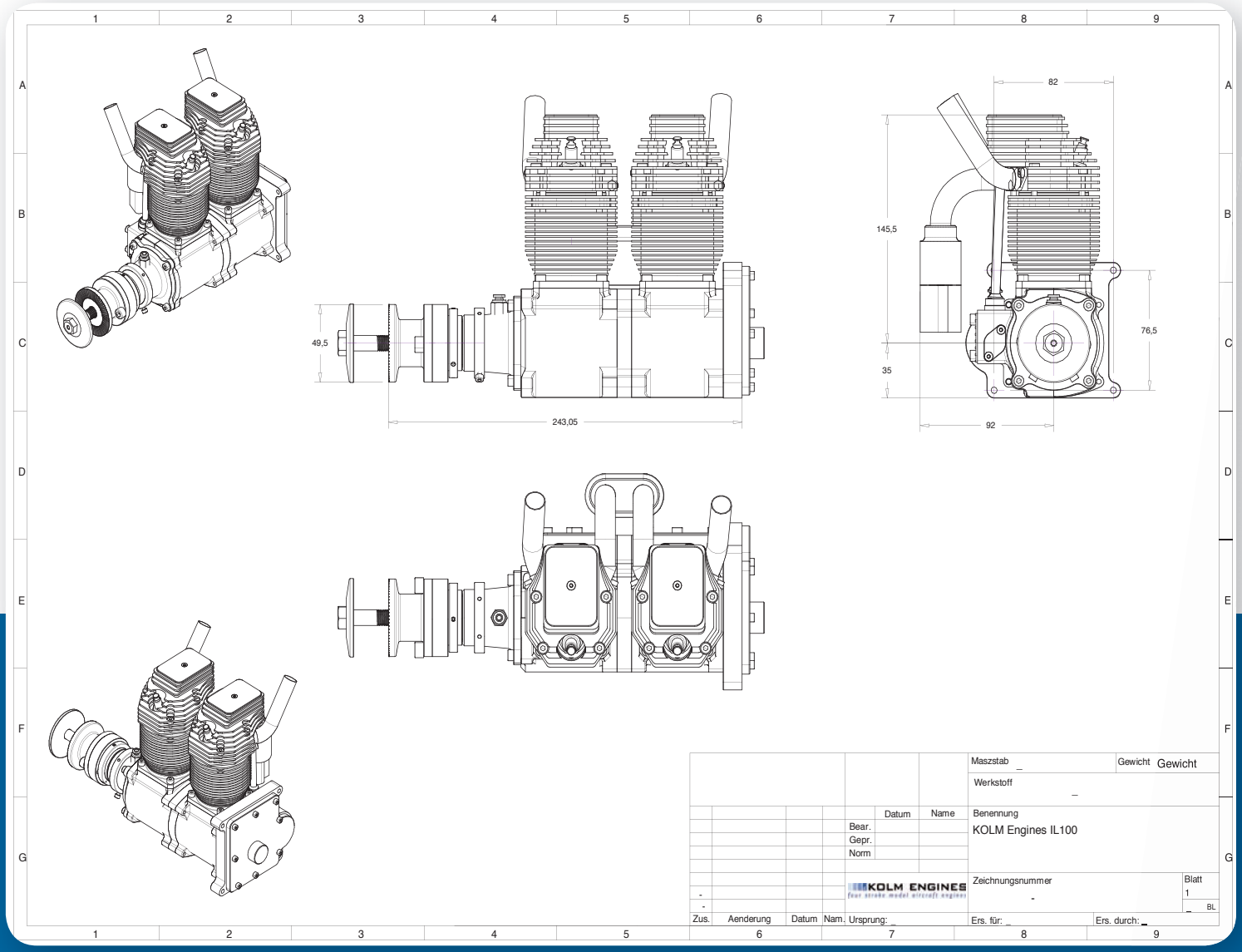
EZ 65

SINGLECYLINDER

Our big single cylinder four stroke engine for models up to 14 kg. Due to the modular design the engine could be updated to a two or three cylinder inline engine later.



- LIGHTWEIGHT
- SLIM DESIGN
- LOW VIBRATION
- QUALITY CONTROL CERTIFICATE



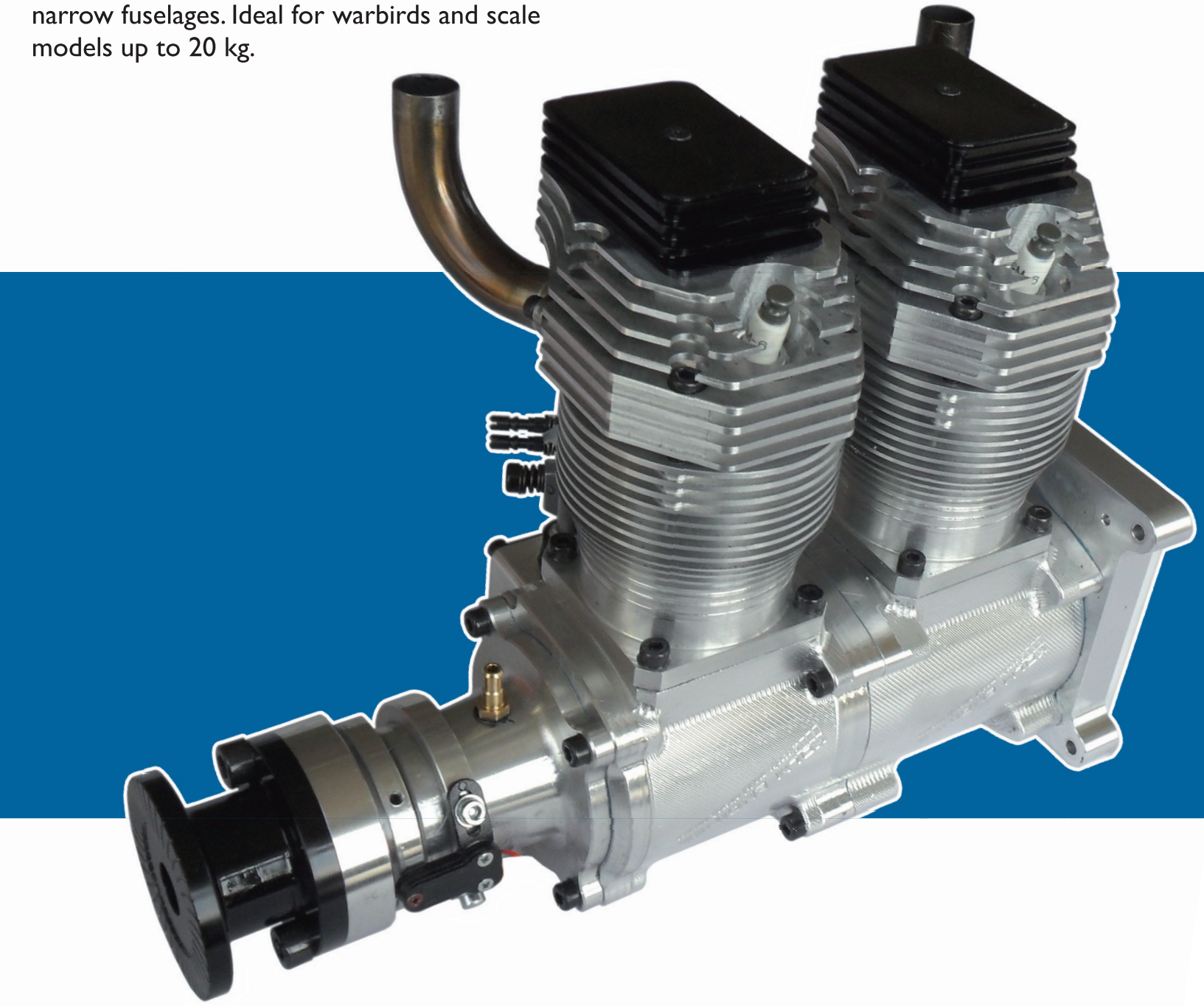
IL 100

Volume:	**100 ccm**
Power:	**6,6 kW / 9 hp**
RPM:	**max 6000 min-1**
Propeller:	**Diameter / Gradient** **2-Blade 27-30" / 10-16"** **3-Blade 26-29" / 10-16"**
Fuel:	**Gasoline Mixture 1:50**
Weight:	**4.800g**
Ignition:	**Electronic Ignition microprocessor driven with variable timing**
Carburator:	**WALBRO Wt225**

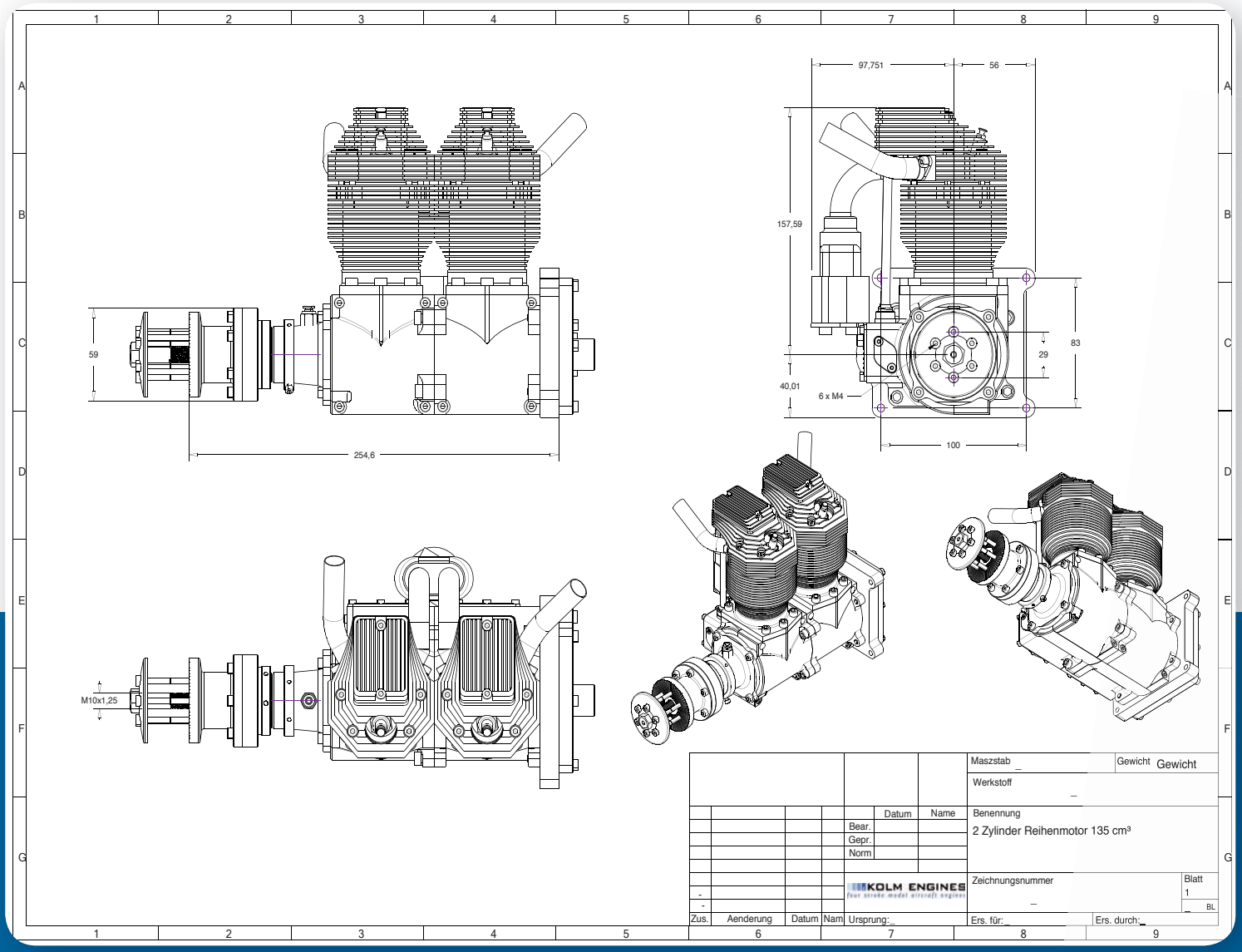
IL100

INLINEENGINE

A two cylinder four stroke inline motor for narrow fuselages. Ideal for warbirds and scale models up to 20 kg.



- LIGHTWEIGHT
- SLIM DESIGN
- LOW VIBRATION
- QUALITY CONTROL CERTIFICATE
- CHOICE OF ONE OR TWO CARBURATORS



IL 135

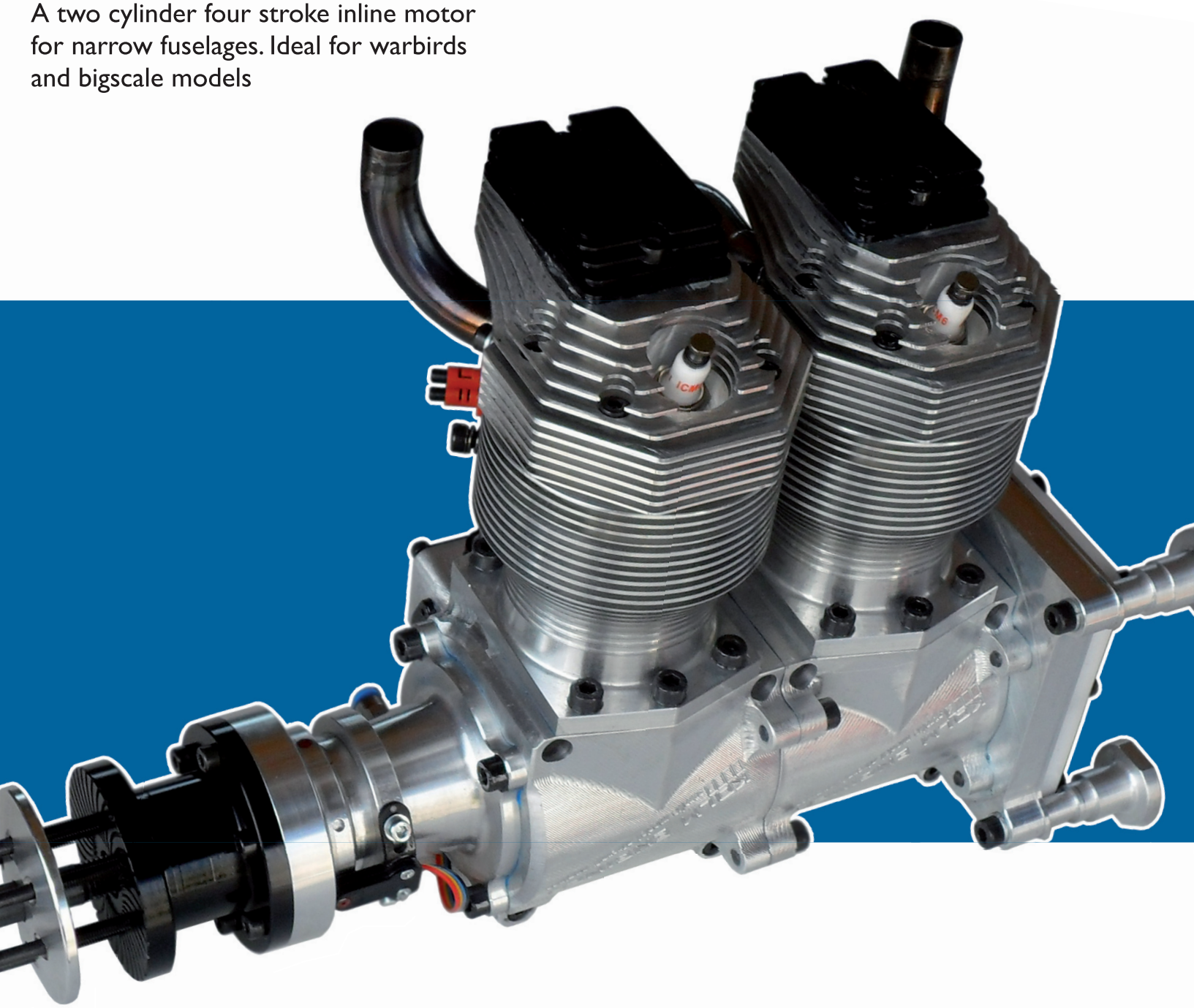
Volume:	135 ccm
Power:	8,8 kW / 12 hp
RPM:	max 6000 min-1
Propeller:	Diameter / Gradient 2-Blade 28-32" / 10-16" 3-Blade 26-30" / 10-16"
Fuel:	Gasoline Mixture 1:50
Weight:	5.590g
Ignition:	Electronic Ignition microprocessor driven with variable timing
Carburator:	WALBRO Wt225



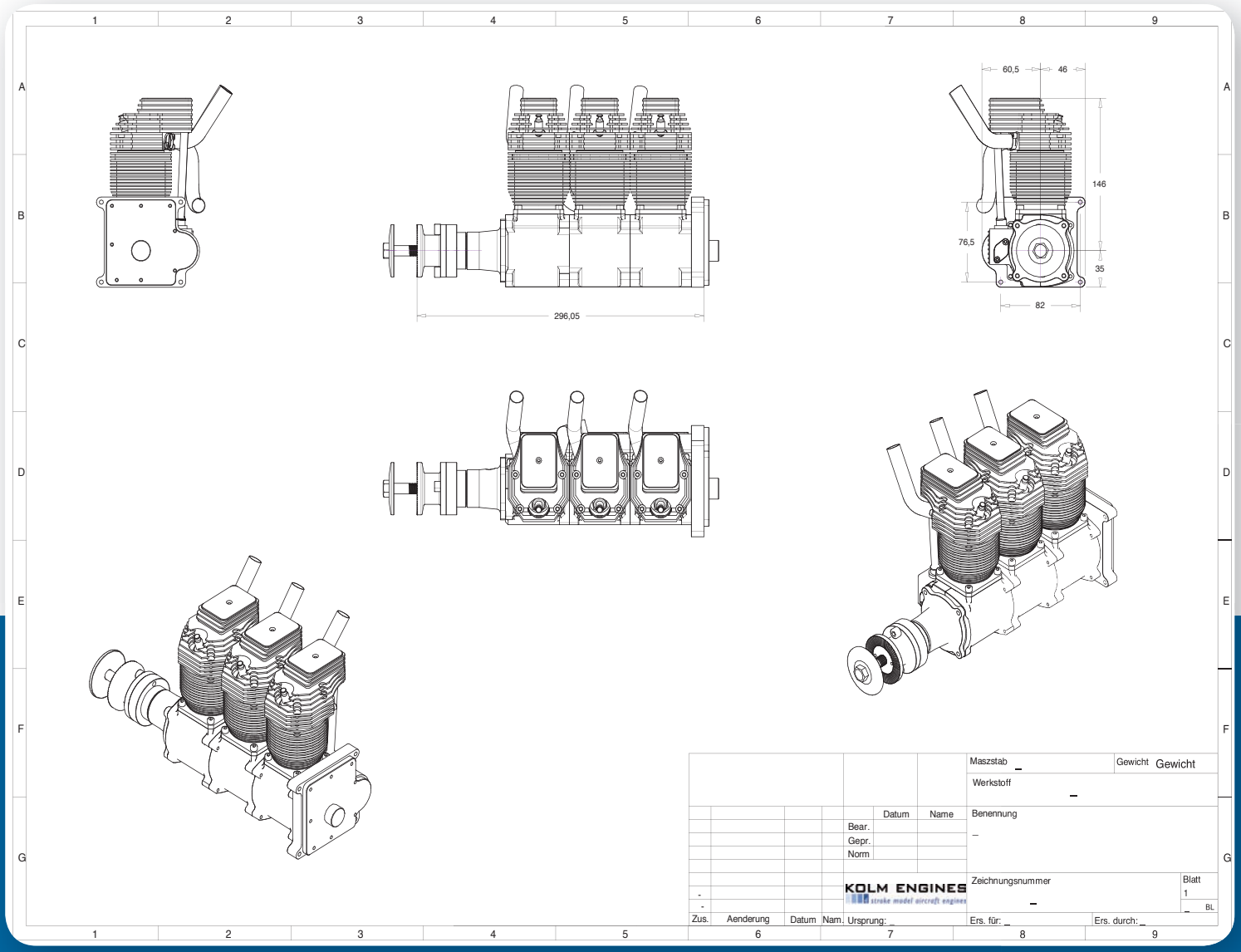
IL135

INLINEENGINE

A two cylinder four stroke inline motor for narrow fuselages. Ideal for warbirds and bigscale models



- LIGHTWEIGHT
- SLIM DESIGN
- LOW VIBRATION
- QUALITY CONTROL CERTIFICATE
- CHOICE OF ONE OR TWO CARBURATORS



IL 150

Volume:	150 ccm
Power:	9 kW / 12 hp
RPM:	max 6000 min-1
Propeller:	Diameter / Gradient 2-Blade 28-32" / 10-16" 3-Blade 26-30" / 10-16"
Fuel:	Gasoline Mixture 1:50
Weight:	6750g
Ignition:	Electronic Ignition microprocessor driven with variable timing
Carburator:	3x WALBRO Wt225



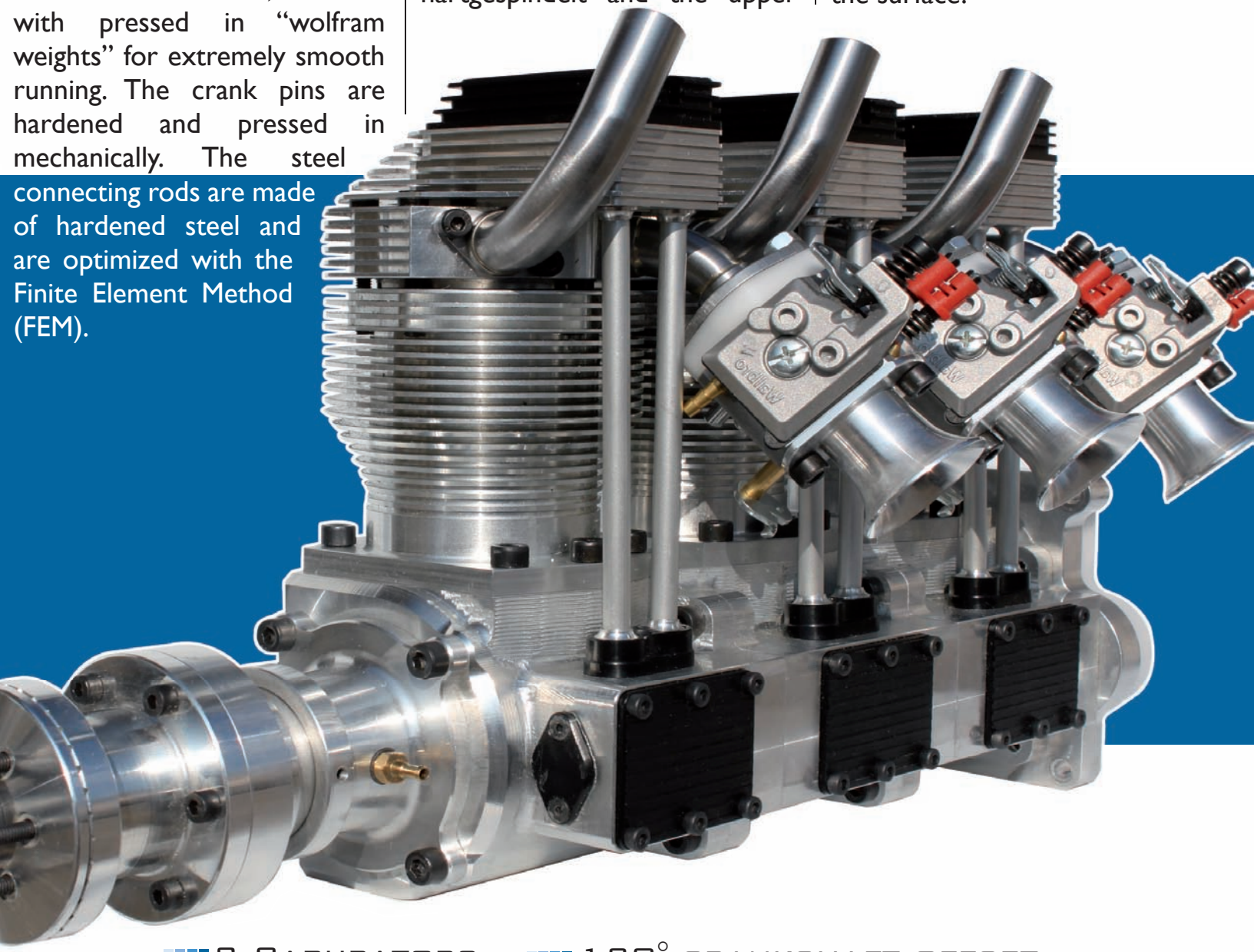
IL150

INLINEENGINE

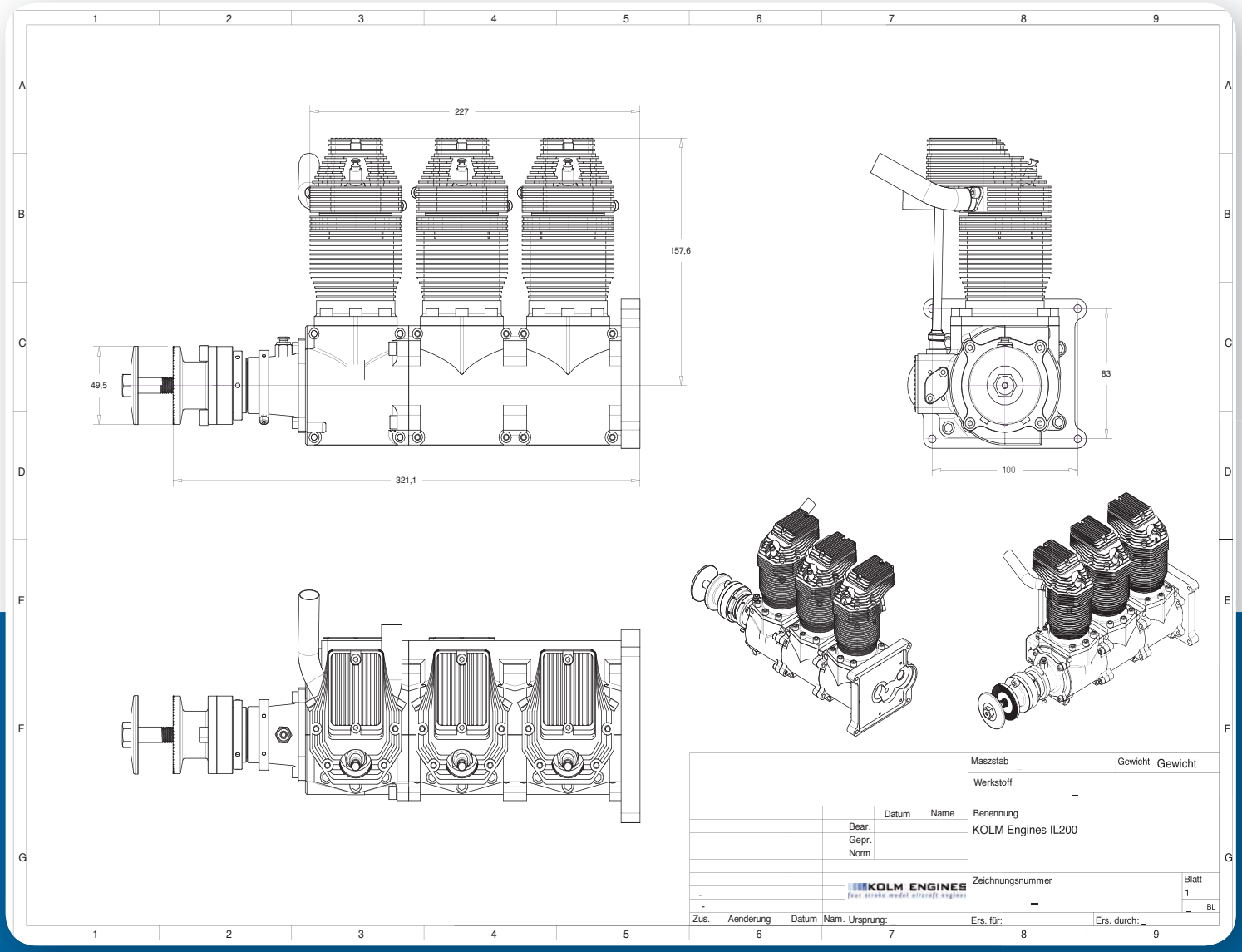
Our small power pack. A three cylinder four stroke inline motor for narrow fuselages. Ideal for warbirds and scale models up to 20 kg.

This four stroke engine contains a manufactured crankshaft made of heat treated steel, balanced with pressed in "wolfram weights" for extremely smooth running. The crank pins are hardened and pressed in mechanically. The steel connecting rods are made of hardened steel and are optimized with the Finite Element Method (FEM).

The bearing surfaces of the needle bearings are hartgespindelt and the upper connecting rod eyelet is made out of bronze implemented into the surface.



- 3 Caburators
- 120° crankshaft offset
- Low vibration
- Quality control certificate
- High Torque
- Incredible smooth runing / Sound



IL 200

Volume:	**200 ccm**
Power:	**13,25 kW / 18 hp**
RPM:	**max 7000 min-1**
Propeller:	**Diameter / Gradient** **2-Blade 28-34" / 10-18"** **3-Blade 28-32" / 10-18"**
Fuel:	**Gasoline Mixture 1:50**
Weight:	**7950g**
Ignition:	**Electronic Ignition microprocessor driven with variable timing**
Carburator:	**3x WALBRO Wt225**



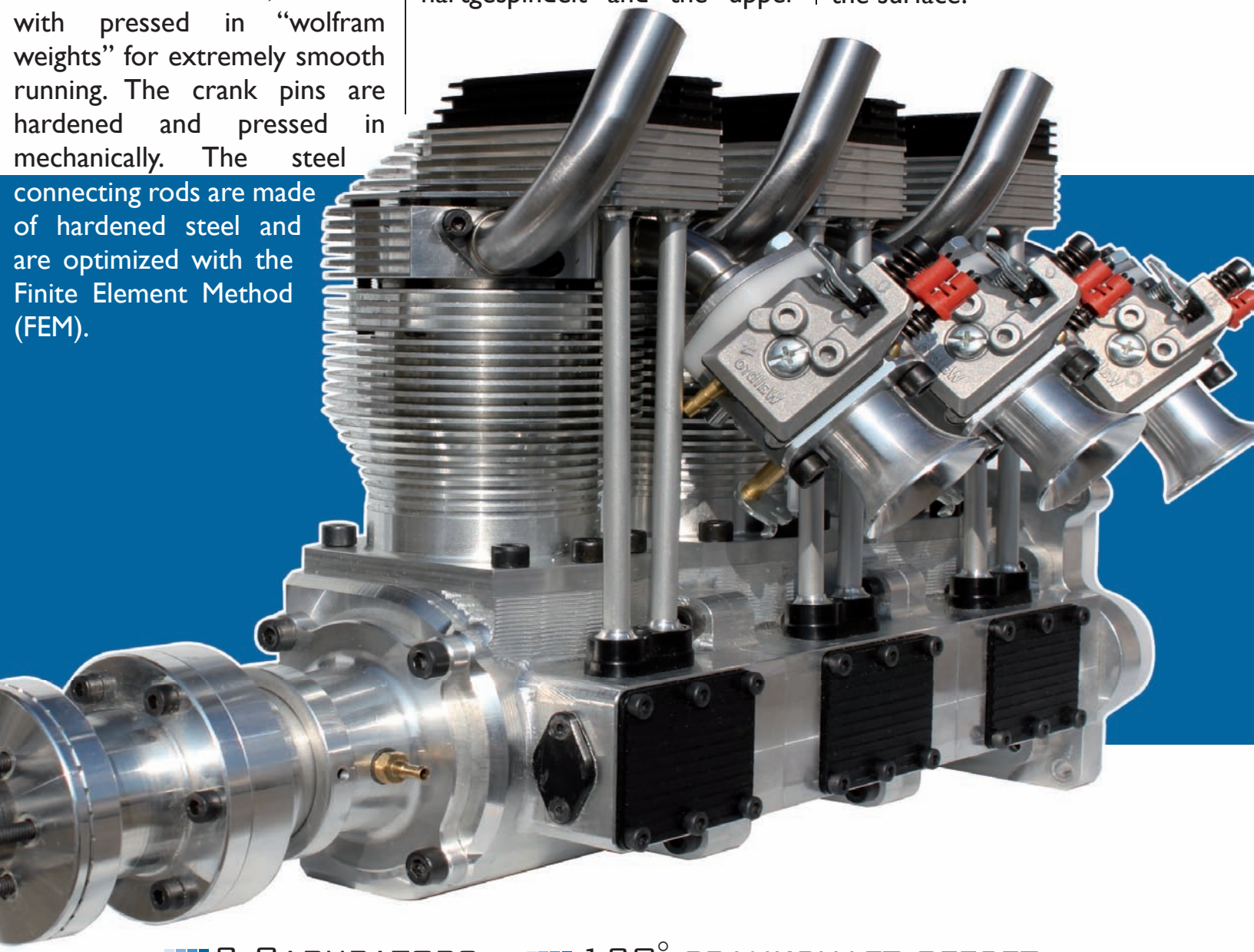
IL200

INLINEENGINE

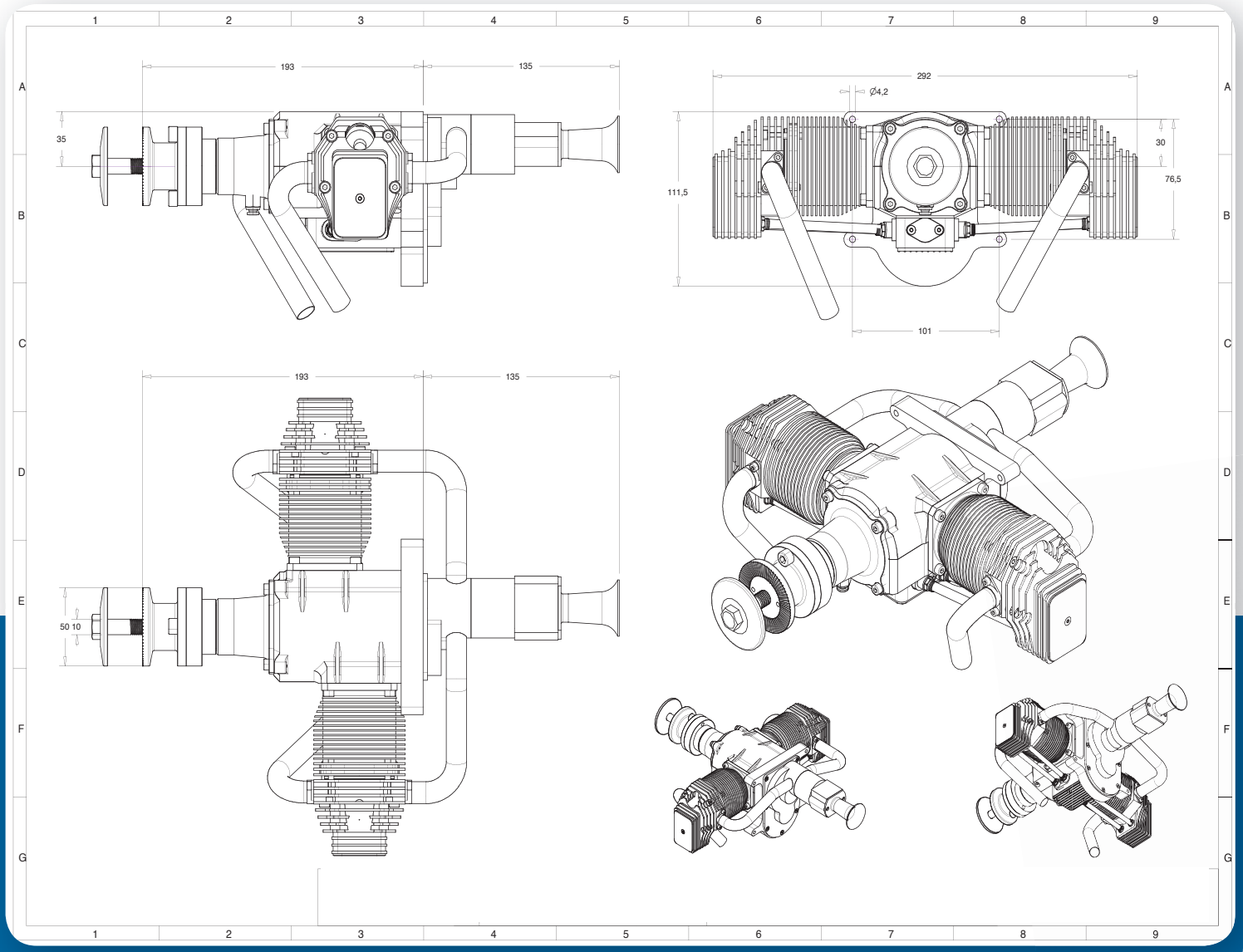
Our big power pack. A three cylinder four stroke inline motor for narrow fuselages. Ideal for big warbirds and scale models up to 30 kg.

This four stroke engine contains a manufactured crankshaft made of heat treated steel, balanced with pressed in "wolfram weights" for extremely smooth running. The crank pins are hardened and pressed in mechanically. The steel connecting rods are made of hardened steel and are optimized with the Finite Element Method (FEM).

The bearing surfaces of the needle bearings are hartgespindelt and the upper connecting rod eyelet is made out of bronze implemented into the surface.



- 3 Caburators
- 120° crankshaft offset
- Low vibration
- Quality control certificate
- High Torque
- Incredible smooth runing / Sound



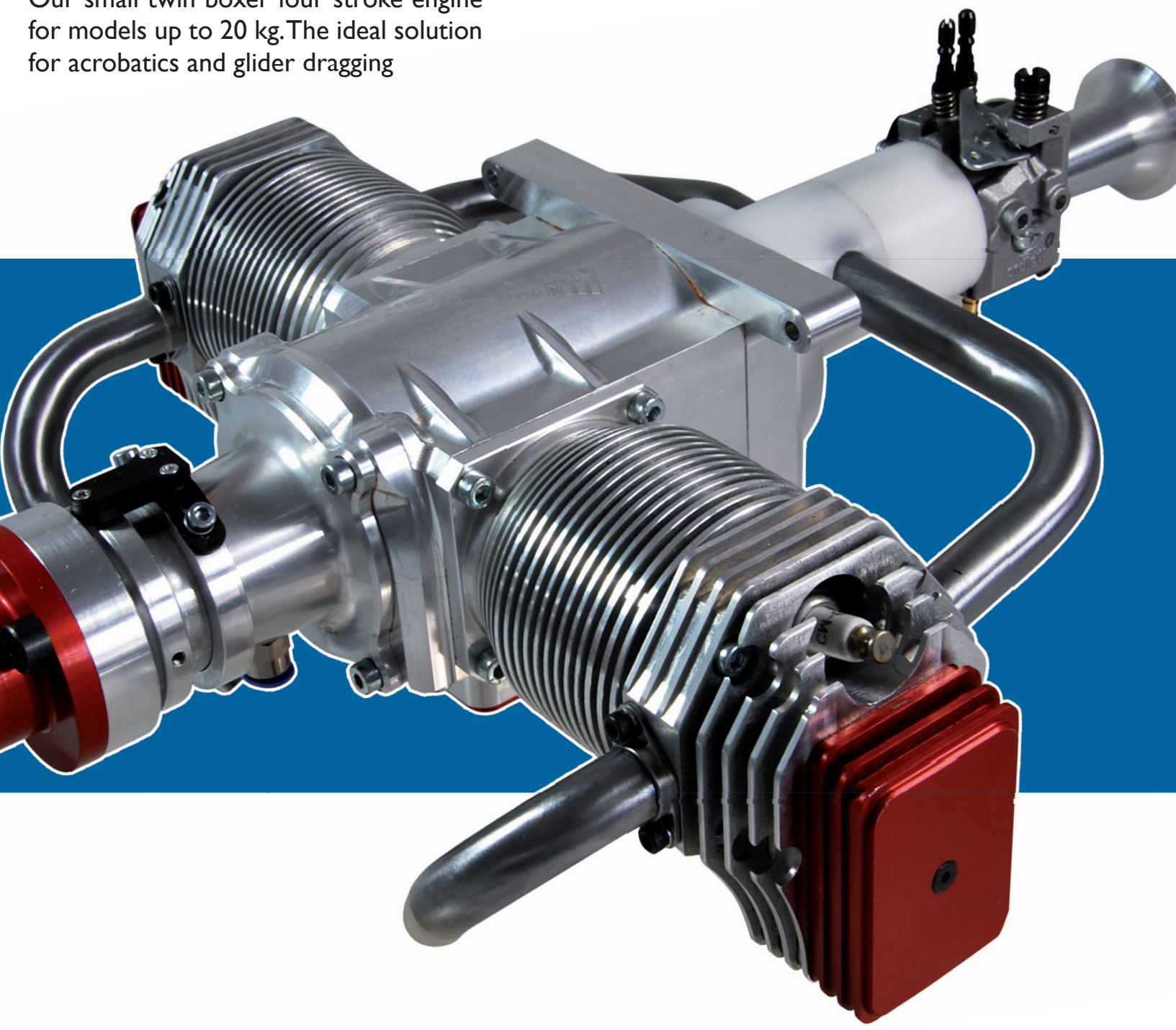
BX 100

Volume:	**100 ccm**
Power:	**6,6 kW / 9 hp**
RPM:	**max 6000 min-1**
Propeller:	**Diameter / Gradient** **2-Blade 26-29" / 8-16"** **3-Blade 26-27" / 8-16"**
Fuel:	**Gasoline Mixture 1:50**
Weight:	**3670g**
Ignition:	**Electronic Ignition microprocessor driven with variable timing**
Carburator:	**WALBRO Wt225**

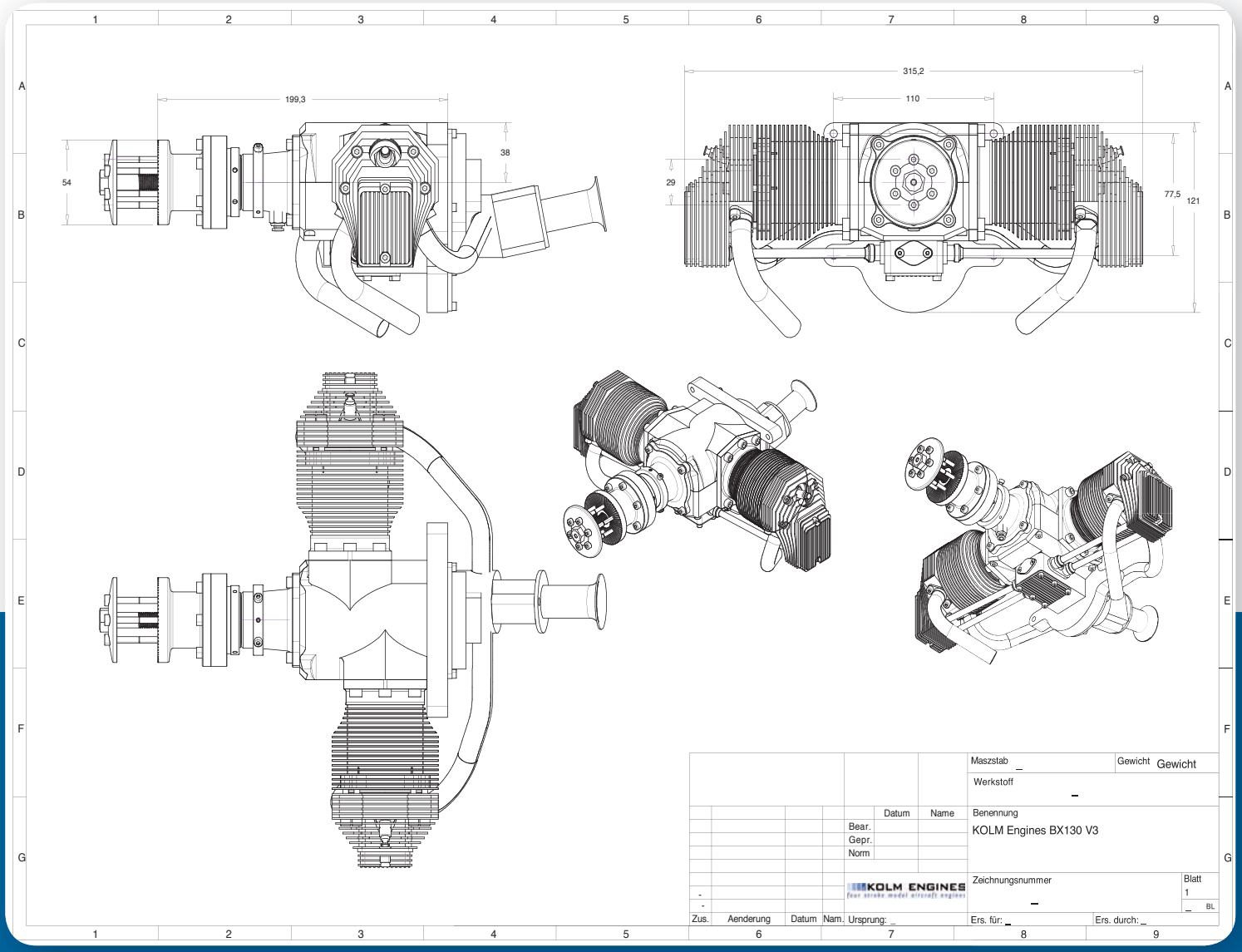


BX100 TWINBOXER

Our small twin boxer four stroke engine for models up to 20 kg. The ideal solution for acrobatics and glider dragging



- LIGHTWEIGHT
- OVERHEAD VALVES
- LOW VIBRATION
- QUALITY CONTROL CERTIFICATE

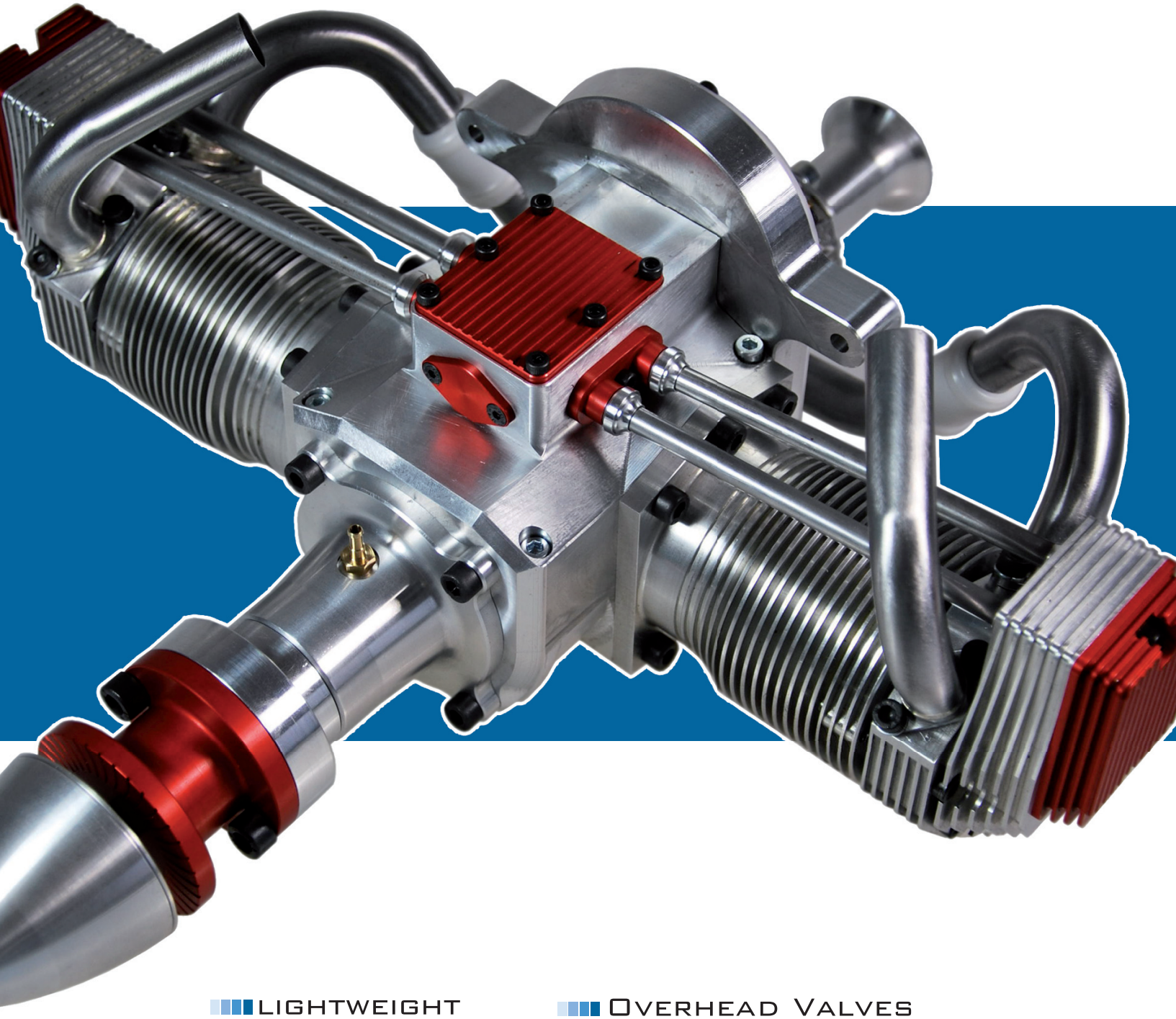


BX 135

Volume:	**135 ccm**
Power:	**8,8 kW / 12 hp**
RPM:	**max 6000 min-1**
Propeller:	**Diameter / Gradient** **2-Blade 28-32” / 10-16”** **3-Blade 26-29” / 10-16”**
Fuel:	**Gasoline Mixture 1:50**
Weight:	**4490g**
Ignition:	**Electronic Ignition microprocessor driven with variable timing**
Carburator:	**WALBRO Wt225**

BX135 TWINBOXER

Our big twin boxer four stroke engine for models up to 25 kg. The ideal solution for acrobatics and glider dragging



- LIGHTWEIGHT
- OVERHEAD VALVES
- LOW VIBRATION
- QUALITY CONTROL CERTIFICATE

The Gallop

258,73 kmh

160,76 m





Hans Kolm • Otto Widlroither (Pilot and Owner of the Ghost)

ING GHOST



PH



POWERED BY KOLM ENGINES

Engine:	Kolm IL 200 3 Cylinder 4 Stroke
Model:	The Galloping Ghost
Basicmodel:	CARF Mustang P51
Wingspan:	2350 mm
Length:	2250 mm
Weight:	21 kg