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#### **RIKUTEC GROUP**

The RIKUTEC Group stands for an innovative and internationally orientated Group of companies in blow molding technology. The core competence lies in the production of technical blow molded articles for industry and trade as well as mechanical and plant engineering.

In more than 30 years, the RIKUTEC Group has developed itself to a leading company within the plastic industry and different market segments: As an innovation leader in the fi eld of machine and blow molding technology, as a sustainable partner in the Production of industrial packaging, storage tanks and technical Blown parts.

The growing RIKUTEC Group currently produces at three European production sites in Germany, France and Spain. In addition, the companyis also active in America and Asia. Technical know-how, many years of experience and innovative strength combine and complement each other in all areas of the company.

#### **ABOUT US**

The Westerwald company RIKUTEC Richter Kunststofftechnik GmbH & Co. KG was founded in 1986 by the German Engineer Günter Richter. With the establishment of the German location, the first corner stone was laid for today's RIKUTEC Group.

Since the foundation of the family business, technical know-how, enthusiasm and experience as well as an above-average quality standard have been the key factors for the success of the company. Over the last 30 years, RIKUTEC has continuously developed in terms of size, internationalization, product areas and strategic initiatives. Below you will find the history of the company and the milestones achieved.

#### Today, the company is divided into three independent business units

#### → INDUSTRIAL PACKAGING

IBC's and Drums for high-purity and sensitive liquids

#### → HABITAT

Tanks for rainwater harvesting, wastewater treatment and liquid energy sources

#### → CUSTOM MOLDING

Containers and tanks for special customer requirements



**RIKUTEC** | EXPORT SERIES RIKUTEC GROUP

#### RIKUTEC WORLDWIDE



#### **RIKUTEC LOCATIONS AND** PARTNERS AROUND THE **WORLD**

With over 250 employees within the RIKUTEC Group and a strong international sales and partner network, we are available to our customers every day.

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Germany **USA** South Korea 000 India UAE Turkey France Spain **Switzerland** 000 0 • • • Slovenia 000 **Australia** 0000000 000000000



SALES, SERVICE & PRODUCTION



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SALES & SERVICE







#### **RIKUTEC Germany**

Production and Sales

- → Founded in 1986
- → Altenkirchen, Germany



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#### **RIKUTEC Iberia**

Production and Sales

- → Facilities operating since 1996
- → RIKUTEC Member since 2016
- → Álava, Spain



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#### **RIKUTEC France**

Production and Sales

- → Facilities operating since 1973
- → RIKUTEC Member since 2016
- → Drulingen, France

Russia Brazil



#### **RIKUTEC America**

Sales and Service

- → Founded in 2004
- → Whitinsville, USA

#### **CORPORATE POLICY**

#### **OUR VISION**

The RIKUTEC Group has set itself the long-term goal of creating special and innovative large-volume plastic solutions for demanding applications. In addition, we are striving to establish further company locations internationally. We want to exceed requirements and redefi ne standards in order to inspire our customers and make them long-term partners.

We have made it our task to focus on our customers, to take every action to exceed customer needs and create the industry's most advanced customer experience.

#### **OUR MISSION**

As an employee-oriented, international family business, we stand for sustainable and continuous growth. For more than 30 years we have been producing high-quality products with our own machines. As an integrated and holistic supplier, from the machine manufacturer to the hollow body, we stand for special and market-oriented solutions for customers with special requirements. Our Group benefi ts from local competence centers that exchange ideas, information, experience and expertise. Through closely interlinked and partnership-based teams, we grow into a powerful and highly motivated group of companies across national borders. As a competent and team-oriented company, we stand for fl exible, uncomplicated and cooperative dealings with customers and suppliers.

#### PHILOSOPHY AND GUIDELINES

The RIKUTEC Group is an innovative and internationally oriented family business in the fi eld of blow molding technology. We stand for technical know-how, experience, quality and family. These four distinguishing features allow us to create a unique customer experience.

We pursue a family and performance-oriented corporate culture and strive to create a trusting environment within our corporate group in which open communication and appreciation play a central role. Passion, individuality, trust and reliability help us daily to spark customer enthusiasm and establish long-term partnerships. Respect, familiar interaction and integrity enable us to create a work environment in which motivation, proactivity and creativity come first.

We work together on our goal to inspire our customers every day and to exceed your expectations. Our corporate values, such as experience, quality, passion, and teamwork play a key role in these efforts. At the heart of our actions is the achievement of our common goal: Serving every customer with high-quality products, inspiring them long-term and partnering with them through a positive and holistic customer experience.

RIKUTEC - WE INSPIRE CUSTOMERS.





#### Curiosity and room for maneuver

We maintain our corporate culture and are constantly guided by trends in the market and our environment. We are future-oriented and open to new ideas and developments. Everyone is obligated to independently ensure continuous improvement in their respective division.



#### Responsibility and trust

For us, responsibility means resource-saving, sustainable and conscientious action. A trusting relationship with colleagues and business partners is part of our self-image. Discipline and orderliness form the basis of efficient work processes. Customers value our fl exible, efficient and partnershiporiented solutions



#### **Appreciation**

We always treat our colleagues and business partners in a friendly and respectful manner. We treat each other like partners and support each other. Because we work on our projects with joy and team spirit, we are perceived positively from the outside.



#### Competence and advancement

Technologically demanding customer requirements are interesting and motivating challenges for us. The process of continuous improvement and readiness for lifelong learning are integral parts of our growth strategy.

## SUSTAINABILITY WITHIN THE RIKUTEC GROUP

**WE** strive for automated and standardized processes within the RIKUTEC Group in order to achieve maximum ecological and economic efficiency.

**WE** produce innovative products that save natural resources such as drinking water. With our expertise and solutions in the field of industrial packaging, we also protect our environment from hazardous substances.

**WE** are constantly optimizing our production processes and developing innovative products and new plastic container solutions. As a result, we were able to produce cargo-optimised tanks, among other things, thereby reducing CO2 emissions in our global logistics concepts.

**WE** reuse process heat (waste heat), which is generated during the manufacturing process. The energy is continuously fed back into the production cycle.

**WE** recycle materials and use special production steps to return recyclables into the material cycle. We use the most innovative energy concepts in our building management, which allows us to reduce our energy requirements.

"By using our tank series specially designed for export, such as our RIKUTEC 115 Series, we can reduce the transport volume by approx. 80%. Through stackable container segments and innovative product design, we can make the worldwide transport of large-volume containers more efficient and thus counteract the Specific CO<sub>2</sub> emissions."





#### Single-walled tank series 115 made of high-molecular polyethylene is suitable for a wide range of applications: Design "Made in Germany".

#### **RIKUTEC 115 SERIES**

#### **ONE TANK - MANY APPLICATIONS**

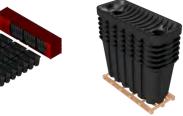
TRANSPORT-OPTIMIZED CONTAINERS FOR INDIVIDUAL APPLICATIONS

#### CHARACTERISTICS

- → For underground installation
- → Transport optimized
- → Stable and stackable container body
- → Plug and play solution
- → Quick assembly and installation
- → Easy maintenance
- → Extensibility through coupling of the containers

#### **POSSIBLE Applications**

- → Small sewage treatment plant
- → Rainwater utilization
- → Septic systems
- → Water retention



#### **Grease Separator**

(Grease separator 115)







exploded drawing **RIKUTEC 115 Series** 



Rainwater **Utilization and** Storage

(Aqua'Terne 115)









SBR Waste Water Treatment Plant (Acticlever 115)

Container*	Volume ltr.	Amount
40'HC	3.400	42
40'HC	2.200	60
40'	3.400	28
40'	2.200	40

Тур	Volume ltr.	Height with dome	Width cm	Length cm	Weight kg
ACTICLEVER 115 incl. partition wall	3.400	208	115	290	190
EPURBLOC 115	2.200 3.400	191 191	115 115	210 290	120 140
AQUA'TERNE 115	3.400	260	115	290	180

 $\star$  Depending on variant and equipment, changes may occur.

RIKUTEC | EXPORT SERIES

#### **AQUA'TERNE 115**

#### Aqua'terne 115

Rainwater harvesting is a sustainable topic of priority. Our resources are finite and water prices are rising continuously. Effective rainwater harvesting protects our environment and moreover saves valuable drinking water and thus also monetary expenses. The RIKUTEC HABITAT Rainwater cisterns offer individual tailored solutions for a wide variety of applications – from watering the garden via flushing the toilet up to the hot water for the washing machine and the house cleaning. With the AQUA'TERNE 115, we offer a wide range of high-quality HDPE produced rain water collection tanks for domestic, municipal and industrial applications.



- → Stable and stackable tank made of HDPE
- → Underground installation
- → Easy to install and to maintain
- → Rainwater harvesting
- → Rainwater storage

#### **EPURBLOC 115**

#### **Epurbloc 115**

Each year, private households and public institutions produce tons of waste water worldwide. Particularly in rural or untapped areas, Waste-water disposal represents a challenge. The RIKUTEC Group offers country-specific waste-water treatment technology and complete systems for the residential and commercial waste water clarification. The Epurbloc 115 is a septic tank for waste water treatment and available in 2,200 – 3,400 liters. They are suitable for collecting all household waste-water.

- → Easy to install and to maintain
- → Underground installation
- → Stable and stackable
- → CE marking EN 12566-1



#### **GREASE SEPARATOR 115**

#### **Grease Separator 115**

Separators are needed wherever water is contaminated with oils and other light liquids. Our grease separators are certificated by DIN EN 1825-1/-2 and are intended for the removal of grease, detergents, and foams from 'grey water' such as the water coming from kitchens, dishwashers and washing machines systems.

The grease separator works by force of gravity. The system reduces the flow rate of the wastewater to allow solids to sink and settle in the sludge trap. Fats, which have a lower density than water, float to the surface.



- → Underground installation
- → Easy to clean
- → Flow up to 10l/s
- → Stable and stackable



#### **ACTICLEVER 115**

#### **Acticlever 115**

The Acticlever 115 functions according to the activated sludge principle in the impounding process (SBR). With this the pollutants are taken out of the wastewater by floating microorganisms (activated sludge) and converted into biomass. With the Acticlever technology, not only aeration takes place in the aeration tank, but also in the pre-treatment stage - this offers several advantages, such as the reduction of the sludge volume or the formation of digester gases and acids through the supplied oxygen.

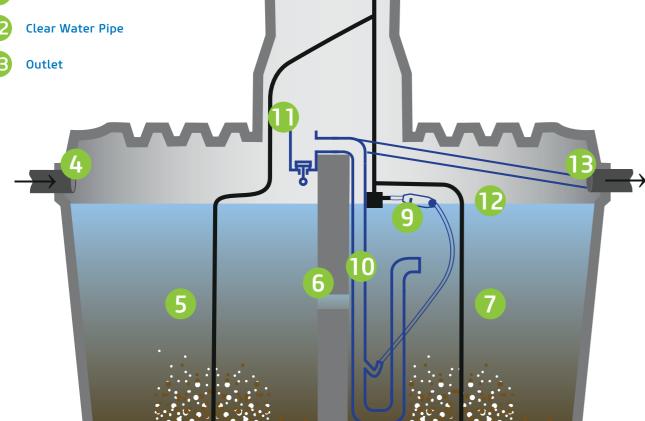
- → Simple handling
- → Plug and play solution
- → Outstanding cleaning performance
- ightarrow Very low power consumption
- → No magnetic valve
- → Only one cover visible
- → No unpleasant smell
- ightarrow Very compact complete sewage
- → treatment plant for up to 12 people
- → Easy maintenance
- → Perfect for 1st residence and for vacation houses



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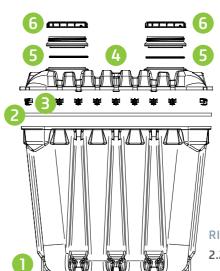
#### **FUNCTIONAL PRINCIPLES ACTICLEVER SBR TECHNOLOGY**

- **Automatic Control**
- Membrane Compressor
- Air Hose
- Inlet
- **Primary Treatment**
- Inlet to Treatment Tank
- **SBR Treatment Tank Tube Aerator**
- Inlet
- **Compressed Air Elevator**
- **Buffer Tank**



#### **PRODUCT DESIGN RIKUTEC 115 SERIES**

- Water tank
- Tank seal
- Closing clip
- Container lid
- Manhole seal
- Shaft and cover



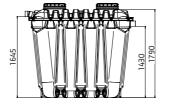


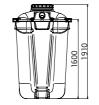
#### Closing clip

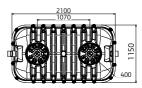
- → Easy to install
- → Quick assembly
- → 100% tight



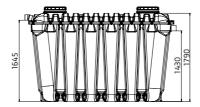




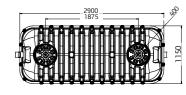




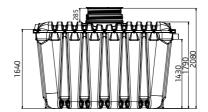
**RIKUTEC 115** 3.400 Series D400 × 2



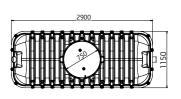












Тур	Volume litres	Manhole	Height with dome cm	Width cm	Length cm	Weight kg	Closing Clips
RIKUTEC 115 2.200	2.200	D400 × 2	191	115	210	110	22
RIKUTEC 115 3.400	3.400	D400 × 2	191	115	290	140	30
RIKUTEC 115 3.400	3.400	D600 × 1	208	115	290	165	30

#### PICK & MIX - THE 115 ORDER SYSTEM



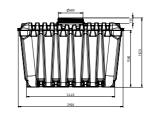
#### OPTION 3 **ACCESSORIES**

#### PICK YOUR REQUIRED

- → Shaft Typ 3
- → Shaft Quick Easy
- → Shaft mini
- → Cover D400
- → Cover D600
- → Different filter types

#### **EQUIPMENT KITS**

#### **Basic Set 1 Components** 3.400 with 1 manhole 600







Тур	Volume litres	Manhole	Height with dome cm	Width cm	Length cm	Weight kg	Closing Clips
RIKUTEC 115 3.400	3.400	D600 × 1	208	115	290	165	30

TANK / MANHOLE 600



SEAL-SET

**BRACKETS** 





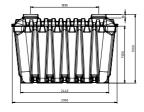
**ADAPTER** 





**Basic Set 2 Components** 

3.400 with 2 manhole 400







**Basic Set 3 Components** 

2.200 with 2 manhole 400







Тур	Volume (li- tres)	Manhole	Height with dome (cm)	Width (cm)	Length (cm)	Weight (kg)	Closing Clips
RIKUTEC 115 2.200	2.200	D400 × 2	191	115	210	110	22
RIKUTEC 115 3.400	3.400	D400 × 2	191	115	290	140	30

TANK / MANHOLE 600 2 × ADAPTER

SEAL-SET

**BRACKETS** 









**RIKUTEC** | EXPORT SERIES **RIKUTEC ACCESSORIES** 

#### **EQUIPMENT KITS**

#### **Aqua'Terne-Kit Components**



#### **Acticlever-Kit Components**



#### **Epurbloc-Kit Components**



#### **GreasE Separator-Kit Components**



#### **ACCESSORIES**

#### **Cover and shafts**



#### Shaft Typ 3

- → With 4 connection options DN 100  $(2 \times \text{spigot and } 2 \times \text{socket})$
- → Height: 855 mm (can be shortened by 155 mm), Ø min: 626 mm, Ø max: 725 mm
- → Complete with seal
- → Not suitable for integrated filter solutions



#### Shaft quick easy

- → With 2 integrally moulded filter connections DN 100 as well as 4 further connection surfaces DN 100
- → Incl. integrally moulded
- → filter holders Height: 810 mm (can be shortened by 112 mm or 224 mm), Ø min: 682 mm, Ø max: 744 mm
- → Complete with seal



#### Shaft mini 600

- → With 4 connection options DN 100  $(2 \times \text{spigot and } 2 \times \text{socket})$
- → Height: 855 mm (can be shortened by 155 mm), Ø min: 626 mm, Ø max: 725 mm
- → Complete with seal
- → Not suitable for integrated filter



#### Cover 400

- → For direct screwing onto the tank
- → Height: 250 mm, Ø min: 626 mm, Ø max: 725 mm
- → Complete with seal



#### Cover 600

→ Access cover suitable for all tanks with a Ø 400 manhole



#### Wall

- → Plastic HDPE screw cap with chequer plate pattern, green
- → Load capacity up to 150 kg
- Ø: 756 mm
- → Complete with seal

#### **Different filter types**



#### Fine filter

- · Up to 200 m² roof surface
- Mesh size 1,00 mm
- · Connection: all DN 100

#### Volume filter

- Up to 390 m² roof surface
- Mesh size 0,65mm
- Connection DN 100

#### Filter with leaf collection basket

- Up to 200 m² roof surface Mesh size 1,00 mm
- Connection: all DN 100

# **RIKUTEC** RIKUTEC 204 SERIES

The double-walled tank series 204 made of high-molecular

polyethylene meets the highest requirements for a wide

variety of applications.

#### RIKUTEC 204 SERIES

#### **FOR HEAVY USERS**

THE CONTAINER SERIES FOR INDUSTRIAL AND MUNICIPAL PROJECTS

#### **CHARACTERISTICS**

- → For underground installation
- → Double-walled smooth inner wall/outer ribbing
- → Available in the volumes 5.000 52.500 ltr.
- → Made of HDPE lower weight than concrete and steel
- → Material: food safe HDPE
- → Container body truck passable (SLW 30 11.5 t axle load); accessible cover must be provided by the customer
- → Groundwater stable up to the center of the container body
- → Available from 8.500 ltr. with additional manhole shafts
- $\rightarrow$  Intermediate sizes & inlets and overflows in DN 150 to DN 300 on request
- → Tanks also available side by side on request and connectable one behind the other
- → On request also as retention cistern available
- → 20 years warranty on the container and
- → 2 years warranty on accessories

#### **POSSIBLE Applications**

- → Car and truck washes
- → Firefighting water tanks
- → Sports ground irrigation
- → Industrial laundries
- → Irrigation of green areas and parks
- → Rain retention
- → Greenhouses
- → Toilet flushing in public buildings



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### THE TANK SERIES FOR LARGE INDUSTRIAL AND MUNICIPAL PROJECTS

#### **CHARACTERISTICS**

- → Transport optimized
- → Easy to install
- → Expandable
- → More resistant due to
- → blow molding process

#### **APPLICATIONS**

- → Small sewage treatment plant
- → Rainwater utilization
- → Septic systems
- → Water retention
- → Firefighting water tank
- → Washing facilities
- → Outside irrigation

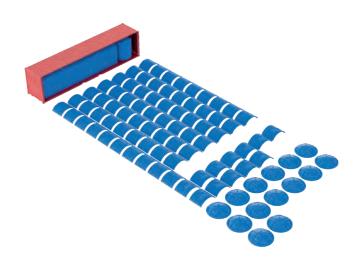


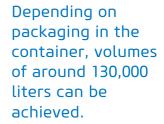


#### **DOUBLE-WALLED TANK SERIES**

#### MADE OF HIGH-MOLECULAR POLYETHYLE-NE FOR HIGHEST REQUIREMENTS

The 204-container series from RIKUTEC is specially designed for individual solutions and requirements. Due to the immense volume variety, which we represent with our tank solution, small and large projects can be designed safely and flexibly. Our double-walled tank series covers the complete tank range from 5,000 to 52,500 liters. For more complex projects and construction projects with a higher volume requirement, several tanks can be combined to form one system. In this way, even the most difficult large-scale projects can be implemented with our container series.

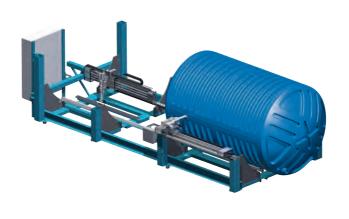








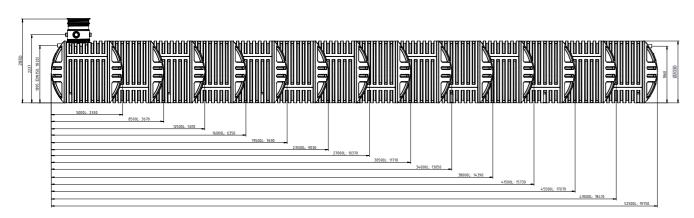
All 204-tanks are made of double-walled, environmentally friendly, high-molecular polyethylene (HDPE) and are therefore significantly lighter than concrete cisterns. Our tanks with a capacity of 52,500 liters have a length of 20 meters and have a weight less than 3.1 tones. The groundwater-resistant tanks have a double-walled structure with outer ribbing and a smooth inner wall. The tank is particularly stable and can be driven on with an axle load of 11.5 tones. A truck-accessible cover is available as a separate accessory.



The RIKUTEC 204 Series is available in different sizes and for different applications as a tank series. As a specialist and with high know-how in the field of mechanical engineering, we also offer a welding machine with which you can assemble the 204 segments individually.

#### **TECHNICAL DATA**

Volume	Length	Width	Height	Weight	Number of segments	
ltr.	mm	mm	with dome mm	kg		
5.000	2.330	2.024	2.850	365	2	3
8.500	3.670	2.024	2.850	560	2	6
12.500	5.010	2.024	2.850	755	2	9
16.000	6.350	2.024	2.850	955	2	12
19.500	7.690	2.024	2.850	1.145	2	15
23.500	9.030	2.024	2.850	1.340	2	18
27.000	10.370	2.024	2.850	1.550	2	21
30.500	11.710	2.024	2.850	1.750	2	24
34.000	13.050	2.024	2.850	1.950	2	27
38.000	14.390	2.024	2.850	2.150	2	30
41.500	15.730	2.024	2.850	2.350	2	33
45.500	17.070	2.024	2.850	2.670	2	36
49.000	18.410	2.024	2.850	2.880	2	39
52.500	19.750	2.024	2.850	3.080	2	42









Custom molding

#### **CUSTOM MOLDING**

#### The Specialist for customized large-scale plastic blow-molded articles

#### WE ACCOMPANY YOU FROM PRODUCT DEVELOPMENT RIGHT THROUGH TO SERIES PRODUCTION

Many users and manufacturers invest in a complete and integrated system from RIKUTEC and benefit from various advantages. It gives them the possibility of being able to produce the required product - in accordance with their own design - quickly, cost-efficiently, in high quality and independently. We are pleased to accompany you in this project.

As a manufacturer of large-volume COEXTRUSION BLOW-MOLDING SYSTEMS with more than 50 years of experience, we are in a position to develop your product optimally and to the best possible standard for the manufacturing process and to lead it to series production. Innovative large-scale series of hollow bodies from 100 up to 10,000 liters "in one shot".

#### OUR PROJECT TEAM DEVELOPS THE FOLLOWING IN A SCOPE WHICH IS DEFINED JOINTLY:

- → Feasibility studies
- → Adaptations from other manufacturing processes and raw materials
- → Layout production
- → Drawing and construction of the product
- → Product simulation and FEM computation
- → Mold construction and mold building
- → Technical documentation
- → Mold validation methods
- → Series production
- → Internal and external logistics
- → After-Sales

# Material Development & Projecting & Production & Sales Engineering

#### **Project Management & Engineering**

We provide extensive and customer-orientated projecting work as well as the matching engineering which are connected with the development and the manufacture of your product. In the projecting of your concept, we base our work on our decades of experience in blow-molding technology and our patented manufacturing process. The objective of our projecting is the highest possible quality of technical implementation of your requirements with a simultaneous optimization of the investment and manufacturing costs. A close, partner-like and trusting cooperation in the project not only has the

highest priority, but is also lived in practice by us. A difference which you will notice above all in joint work.

#### **CASES**

During recent years, we have implemented challenging projects with customers from all over the world from various branches such as automotive, transport and logistics, marine & solar industry or water & environment.

Our service does not end with the supply of the finished product. We look after customers and users across the entire product lifecycle. Thanks to this close cooperation in the development and manufacture of products individual to the customers, strategic partnerships have developed in recent years.

In our cooperations, the trust of our customers and a partner-like coexistence is above all in the foreground. We assure you that your technical idea is in safe hands with us and guarantee the highest possible quality to you, from the feasibility study via the product simulation right down to series production.





**Automotive Solutions** 



**Water Solutions** 



Marine & Solar Industry



Event and Outdoor Solutions



**Road Construction** 



#### Service - we are here to help you!

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