



Tube End Forming Machines

Wecotech unlimited

machines developed for extraordinary
precision, maximum **flexibility** and
unlimited forming possibilities



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Tubex IO-S

Tubex IO-S 200

forming range up to diameter 200 mm



Tubex IO-S 400

forming range up to diameter 400 mm



benefits

- cost-efficient
- wide stroke capability of inner and outer tool
- challenging shapes, through intelligent process sequence
- forming of oval, square, non-circular and round tubes
- forming cycle freely programmable
- tools are compatible with:
 - Tubex IO-S
 - Wecomatic IO-S
 - Tube Form Center

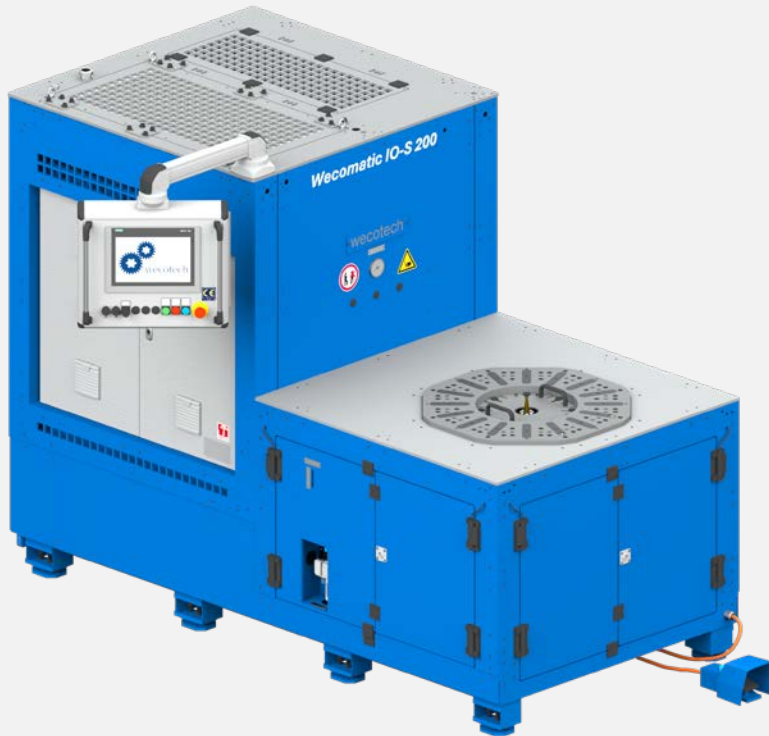
check the video



Wecomatic IO-S

Wecomatic IO-S 200

forming range up to diameter 200 mm



hydraulic performance

standard:

equipped with **11kW** motor
flow rate 65 l/min

speed:

equipped with **2x 11kW** motor
flow rate 130 l/min

cycle time -30% compared to standard

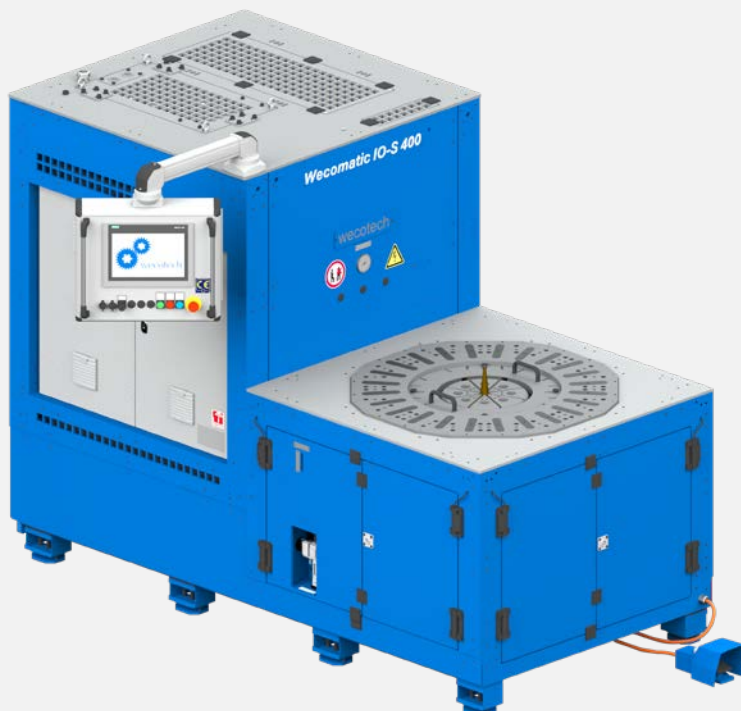
high speed:

equipped with **3x 11kW** motor
flow rate 195 l/min

cycle time -60% compared to standard

Wecomatic IO-S 400

forming range up to diameter 400 mm



benefits

- high productivity
- wide stroke capability of inner and outer tool
- power regulated pump
- challenging shapes, through intelligent process sequence
- forming of oval, square, non-circular and round tubes
- forming cycle freely programmable
- tools are compatible with:
 - Tubex IO-S
 - Wecomatic IO-S
 - Tube Form Center

check the video



process

how it works

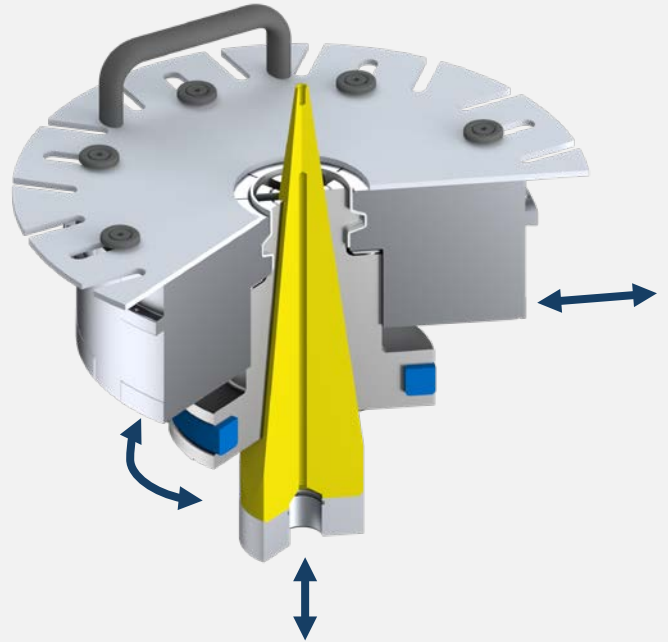
The tube is formed using internal and external tools.

By radial motion of the external tool the tube can be clamped or reduced.

An axial driven cone is spreading the inner tool in radial direction.

During the forming process, the inner tool and the tube are rotated to minimize segment gap marks.

The freely programmable forming software enables a product-specific forming process to set positions and process sequences as required.



limitless configuration



Ø200 mm / high power

more force

The Wecomatic can be configured with increased force capacity for the inner and outer axes.

This capability allows processing of thick-walled tubes and challenging forming geometries with higher force requirements.

The increase in force improves process stability and expands the application range of the machine.

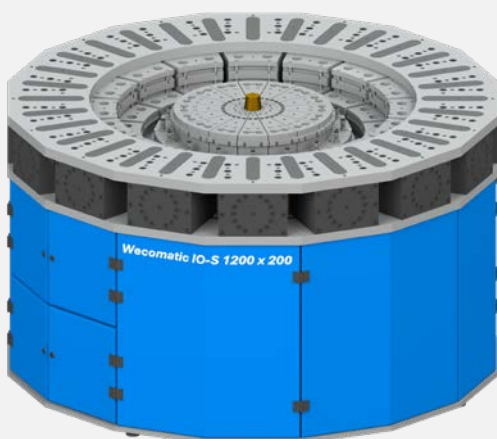


Ø200 mm / length 200 mm

higher length

Our flexible machine concept provides the option of increasing the forming length of the tool holder.

This configuration enables the reliable production of longer geometries and ensures compliance with specific product requirements.



Ø1200 mm / length 200 mm

larger diameter

The technology can be adapted for processing tubes with diameters of up to 1200 mm.

This enables flexible production for a wide range of industries and applications, especially for use in large diameter ranges.

machine options

safety guard with light curtain

The grid fence with safety light curtain ensures operator protection and prevents access to hazardous areas during the forming process.

This solution improves workplace safety while ensuring efficient production processes.



robot interface

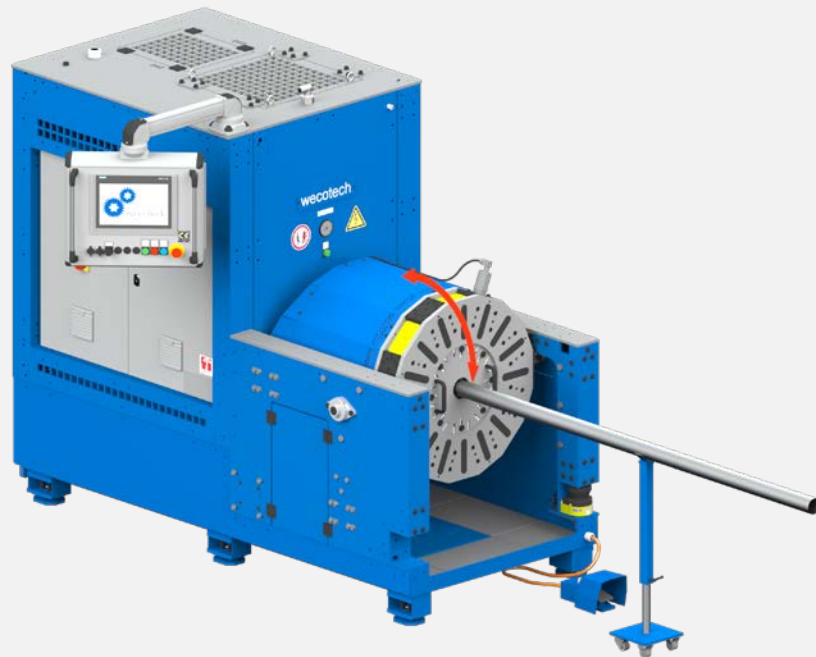
The machine is equipped with an interface for use with robots or handling systems.

The pre-configured interface allows smooth integration into production cells.



HV-head

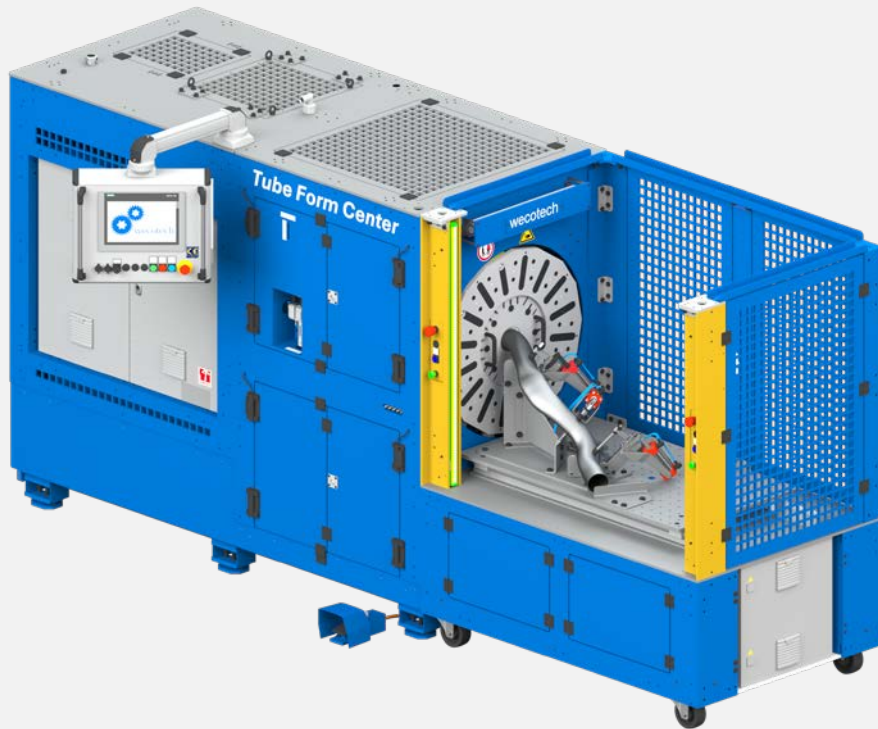
The forming head can be pivoted between horizontal and vertical working position. The horizontal working position is particularly suitable for processing long tubes.



Tube Form Center

Tube Form Center 200

forming range up to diameter 200 mm



hydraulic performance

standard:

equipped with **11kW** motor
flow rate 65 l/min

speed:

equipped with **2x 11kW** motor
flow rate 130 l/min

cycle time -30% compared to standard

high speed:

equipped with **3x 11kW** motor
flow rate 195 l/min

cycle time -60% compared to standard

how it works

The tube is formed using internal and external tools.

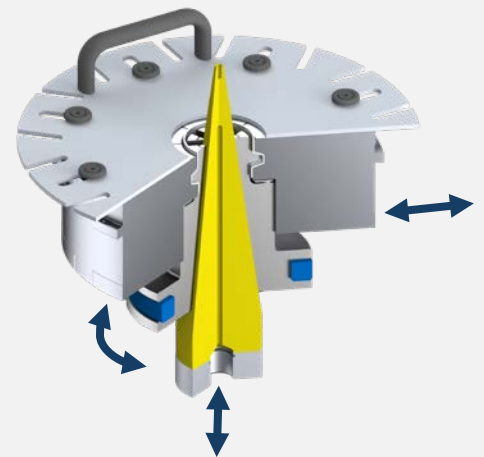
By radial motion of the external tool the tube can be clamped or reduced.

An axial driven cone is spreading the inner tool in radial direction.

During the forming process, the inner and outer tool are rotated to minimize segment gap marks.

A positioning device secures the tube in position while the forming head operates around the workpiece.

The freely programmable forming software enables a product-specific forming process to set positions and process sequences as required.

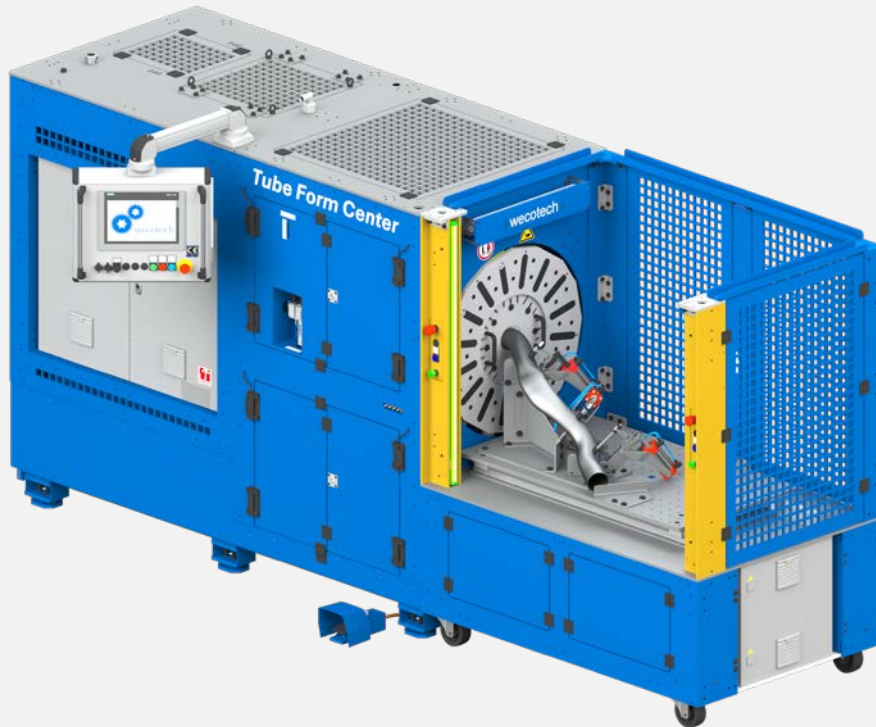


check the video



machine configuration

manual operation



The tube is positioned on a product-specific fixture.

Pneumatic clamps secure the tube in position. A servo-electric slide moves the tube in the forming unit.

After forming, the tube can be easily removed.

The forming process is operator-independent and ensures a reliable workflow, which is especially beneficial when processing long bent tubes.

production cell



The tube is positioned by the robot during the forming process.

By rotating the inner and outer tools, the robot holds the tube in a fixed position during the forming process.

This concept provides stable processing conditions for long bent tubes and simplifies integration into automated manufacturing lines.

IO-specials

limitless shapes

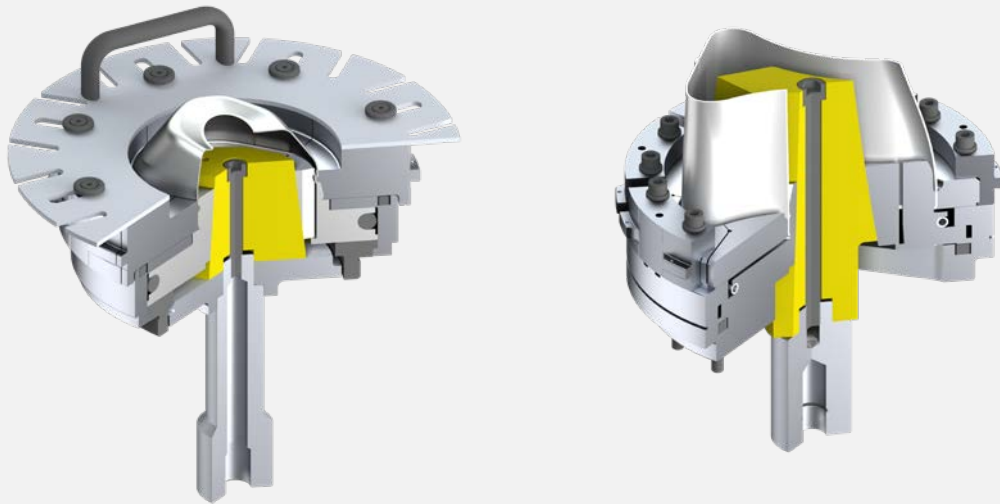
Wecotech forming technologies are known for their high level of customisation and wide range of possible applications. Our machines and tools can be used to form round, oval, square tubes or any other tube with complex geometries.

With 3D-milled tools, short tubes can be bent on a standard Wecotech machine.

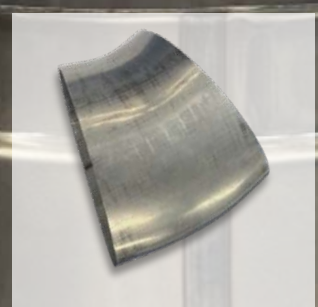
Compared to standard bending operations, this bending process can reduce manufacturing costs and ensure minimal waste of material.

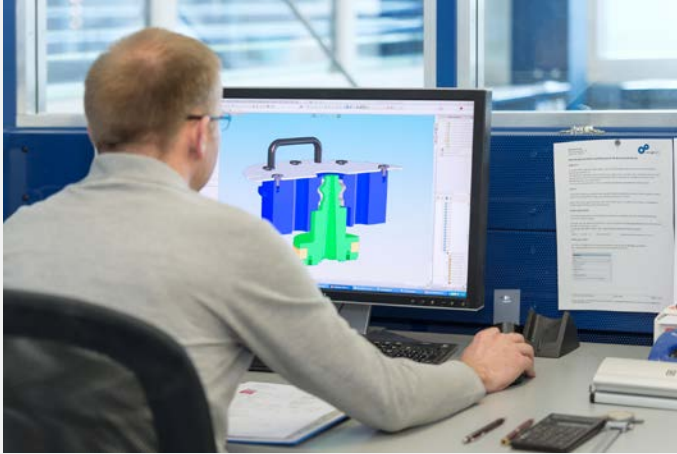
Thanks to a intelligent tool holder system and broad working range, IO tools can also be used to process specially adapted geometries on a Wecotech machine.

Technical expertise and practice-oriented product development ensure that challenging technical requirements can be met with Wecotech machines and tools.



driven by
challenge
powered by
passion

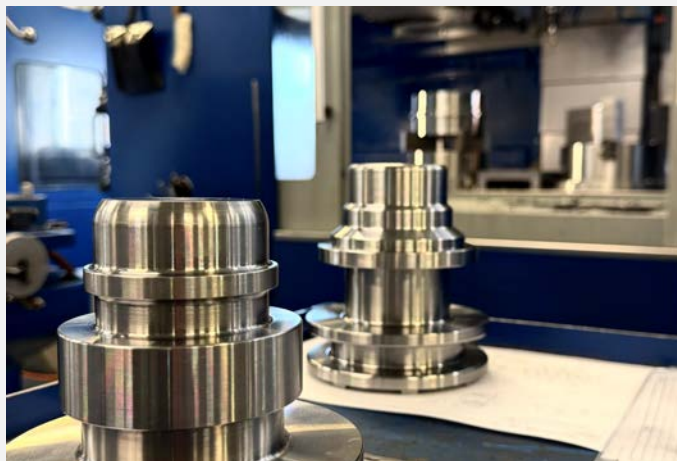




Wecotech AG is your partner in the field of tube end forming.

With technical **expertise**, **experience** and **passion**, we develop solutions where standard concepts reach their limits.

Our goal is to face and solve the toughest challenges.



We design and manufacture our tools and machines entirely in-house **precisely**, **individually**, and **perfectly customized** to your requirements.

From engineering to production, every step is handled in-house ensuring highest quality and maximum process reliability.



Our tools are tested under production conditions and precisely fine-tuned. Through optimisations and exact process alignment, we ensure that your tube is formed within the specified tolerances, delivering stable processes and reliable series production quality.

technical data

up to diameter 200 mm

	Tubex IO-S 200	Wecomatic IO-S 200	Wecomatic IO-S 200 Speed	Wecomatic IO-S 200 High Speed	Tube Form Center
diameter	Ø20-200 mm	Ø20-200 mm	Ø20-200 mm	Ø20-200 mm	Ø20-200 mm
forming length	100 mm	100 mm	100 mm	100 mm	100 mm
wall thickness	up to 4 mm	up to 4 mm	up to 4 mm	up to 4 mm	up to 4 mm
range of forming length, diameter and wall thickness can vary product specific					
HYDRAULIC UNIT					
motor	11 kW	11 kW	2x 11 kW	3x 11 kW	11 kW
tank volume	100 l	275 l	365 l	530 l	275 l
flow rate	25 l/min	65 l/min	130 l/min	195 l/min	65 l/min
pressure	300 bar	300 bar	300 bar	300 bar	300 bar
ELECTRIC UNIT					
connection 400V / 50Hz 3L + PE	32A	32A	63A	80A	32A
PLC Siemens (fail safe)	✓	✓	✓	✓	✓
Touchscreen 12"	✓	✓	✓	✓	✓
MACHINE FEATURES					
working position	vertical	vertical	vertical	vertical	horizontal
turning function	inner tool	inner tool	inner tool	inner tool	inner tool outer tool
dimension	170x100x95 cm	220x100x170 cm	240x120x170 cm	240x120x170 cm	370x110x170 cm

up to diameter 400 mm

	Tubex IO-S 400	Wecomatic IO-S 400	Wecomatic IO-S 400 Speed	Wecomatic IO-S 400 High Speed
diameter	Ø80-400 mm	Ø80-400 mm	Ø80-400 mm	Ø80-400 mm
forming length	100 mm	100 mm	100 mm	100 mm
wall thickness	up to 4 mm	up to 4 mm	up to 4 mm	up to 4 mm
range of forming length, diameter and wall thickness can vary product specific				
HYDRAULIC UNIT				
motor	11 kW	11 kW	2x 11 kW	3x 11 kW
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MACHINE FEATURES				
working position	vertical	vertical	vertical	vertical
turning function	inner tool	inner tool	inner tool	inner tool
dimension	170x120x95 cm	220x120x170 cm	240x120x170 cm	290x120x170 cm

Tube-End-Forming For World's Leading Industries





Wecotech AG

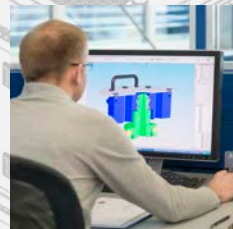
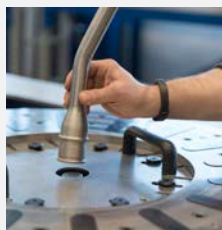
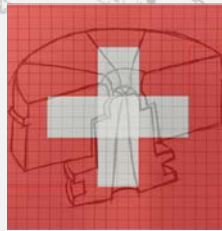
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Your trust inspires us to develop and provide solutions that meets the highest requirements.

At Wecotech, we are more than a company – a partner which focus on forming your ideas.

Together we realize challenges efficiently by simplicity and clarity, the customer benefit in sight.

Your goals guide our work, and your success measures ours.



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