

Episodes of  
**WIDER**  
Since  
1957

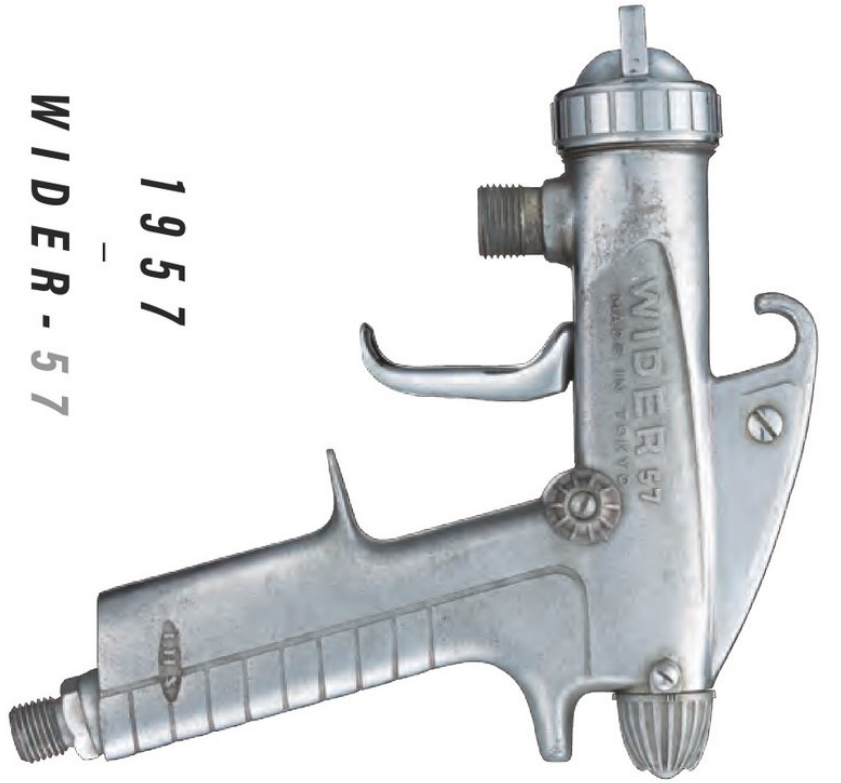












**1957**  
**WIDER-57**



**1959**  
**WIDER-59**



**1960**  
**WIDER-60**



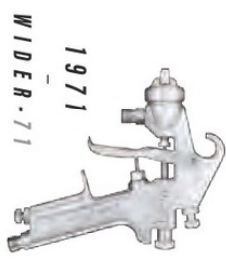
**1961**  
**WIDER-61**



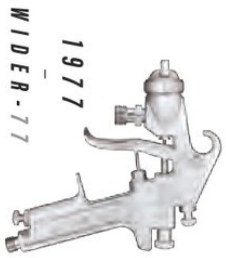
**1965**  
**WIDER-65**



**1970**  
**WIDER-70**



**1971**  
**WIDER-71**



**1977**  
**WIDER-77**



**1985**  
**WIDER-85**



**1987-88**  
**WIDER-87**



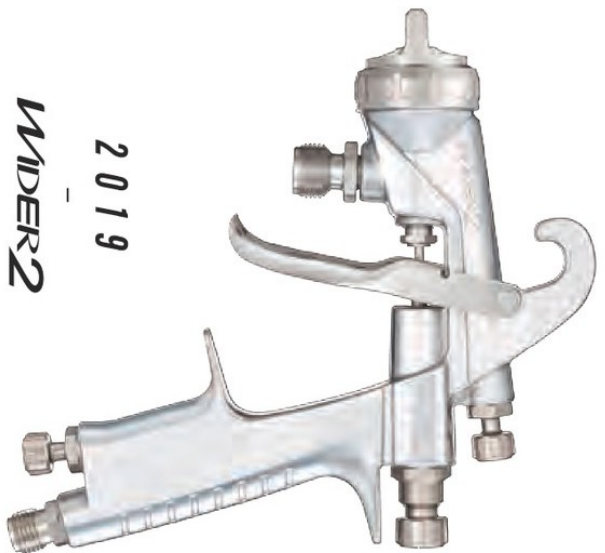
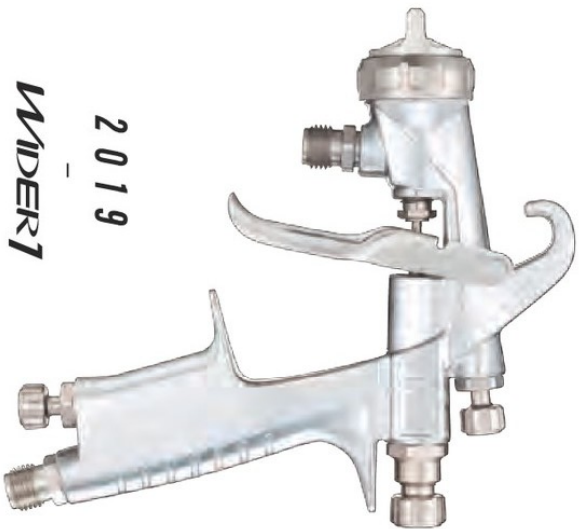
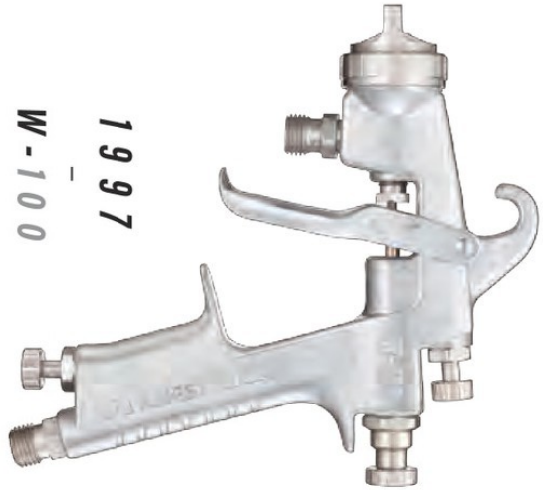
**WIDER-88**



**1990**  
**WIDER-90**







# STORY

“WIDER” spray guns are longtime selling products that have been active in the forefront of the spray gun market since 1957 to today. In the early times our spray guns were named “WIDER” and were evolved to “W series” midterm, now are carrying on the tradition under the name of “WIDER” again.



Back in the 1950s, our main models were S series (small) spray guns and B series (large) spray guns and then we established our WIDER brand, aiming to further strengthen our product development.

The name “WIDER” reflects “wide pattern” and “wide applicability to diverse fields and markets”, which are among the most important points for spray guns, and our wish for these products to expand and promote sales to the world.

From  
Zero



# to **WIDER**









# *Background*

**This legendary product has been loved ever since the early days after we produced it.**

The era of high-speed economic growth began in 1954, not even a decade after the end of the War. The boom in Japan's revitalizing domestic industries led to more advanced industrial structures in various fields, and its powerful ripple effects extended to the coating industry. With Japan producing vehicles, train rolling stock, ships, buildings, and more, the volumes of paint used continued to rise, year after year. That growth in paint use brought further demand for spray guns.

To tackle the development of new products in earnest, we established our first R&D department in our new Tsunashima factory of the day, which was equipped to allow integrated production.

Back when we established that the R&D department, there wasn't even a scientific method to measure the sizes of mist

particles, and even companies in America and Europe relied on experience. We thought we might be able to develop a spray gun with even higher performance if we could theoretically elucidate the mechanism. So, we began our research from the starting point of "why does paint atomized?", which is the foundation of spray guns. Over a period of four years, we thoroughly worked through the problem until we were able to discover the theoretical basis for matters such as the shape and dimensions of the spray gun tip (the central paint opening of the nozzle, the central air hole of the cap, the air openings of the horns, etc.) That was the beginning of a legendary model that has been an outstanding best seller from its launch until today, advancing with the needs of the times.



10

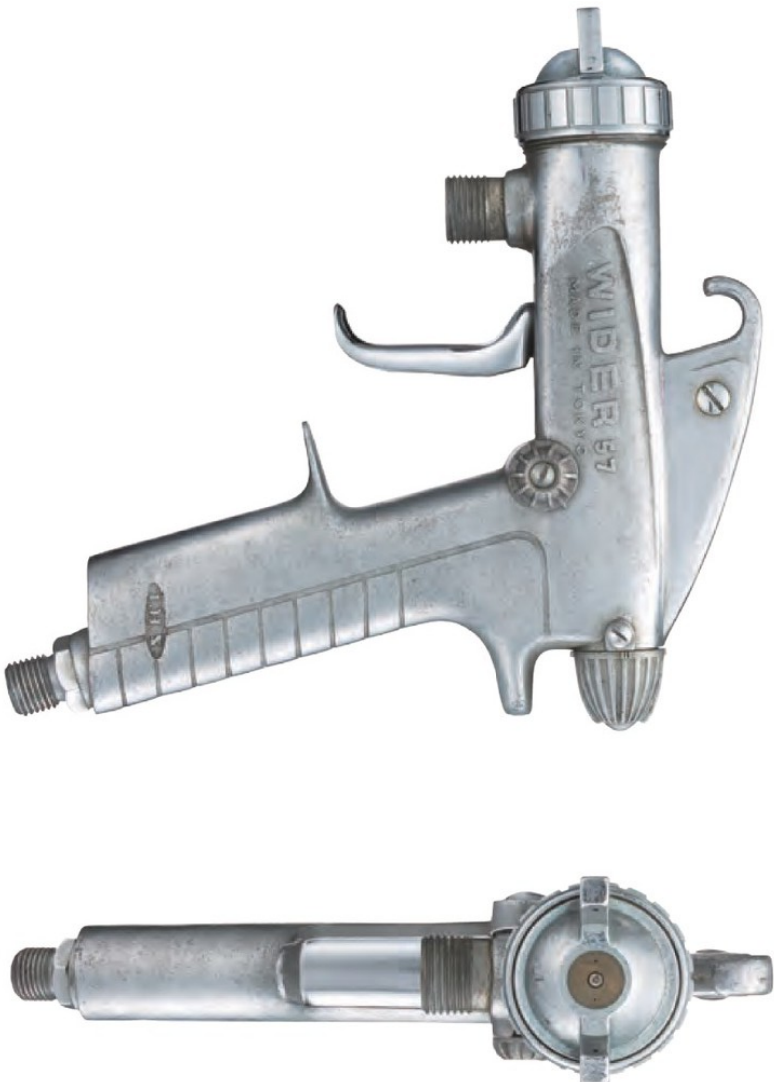
1957





# WIDER - 57 The Beginning of "WIDER"

Large spray gun



The history of WIDER began here. In 1957, we developed this large, high-performance spray gun on the basis of our engineering team's basic research, with an applied research governmental subsidy from the Ministry of International Trade and Industry (now the Ministry of Economy, Trade and Industry). It embodied unique mechanisms, such as internalized components and one-touch pattern width

adjustment set, and innovative design. It was the first time we designed a product on the basis of ergonomics, and it dominated the market as a highly-functional spray gun. We analyzed the relationship between the sizes and positions of the central hole of the fluid nozzle and air cap, and derived a unique calculation method. That theory is still in use.





12

1959



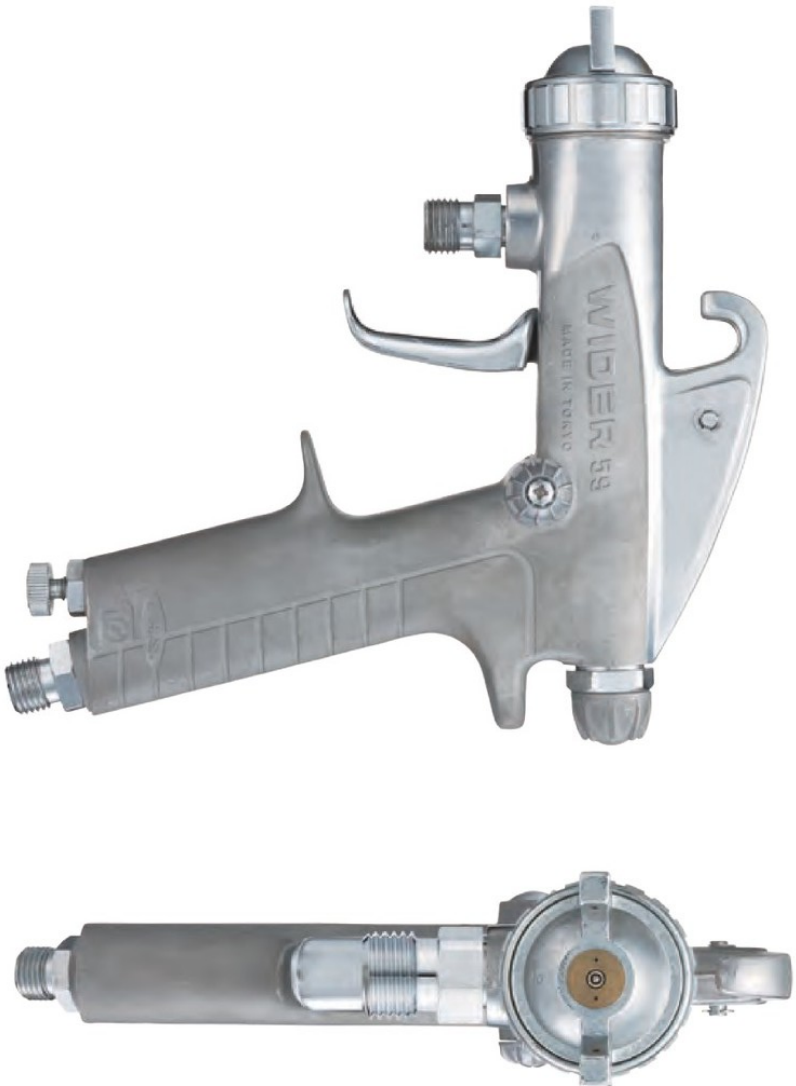




# WIDER - 59

Medium spray gun

## The Pursuit of Working Efficiency

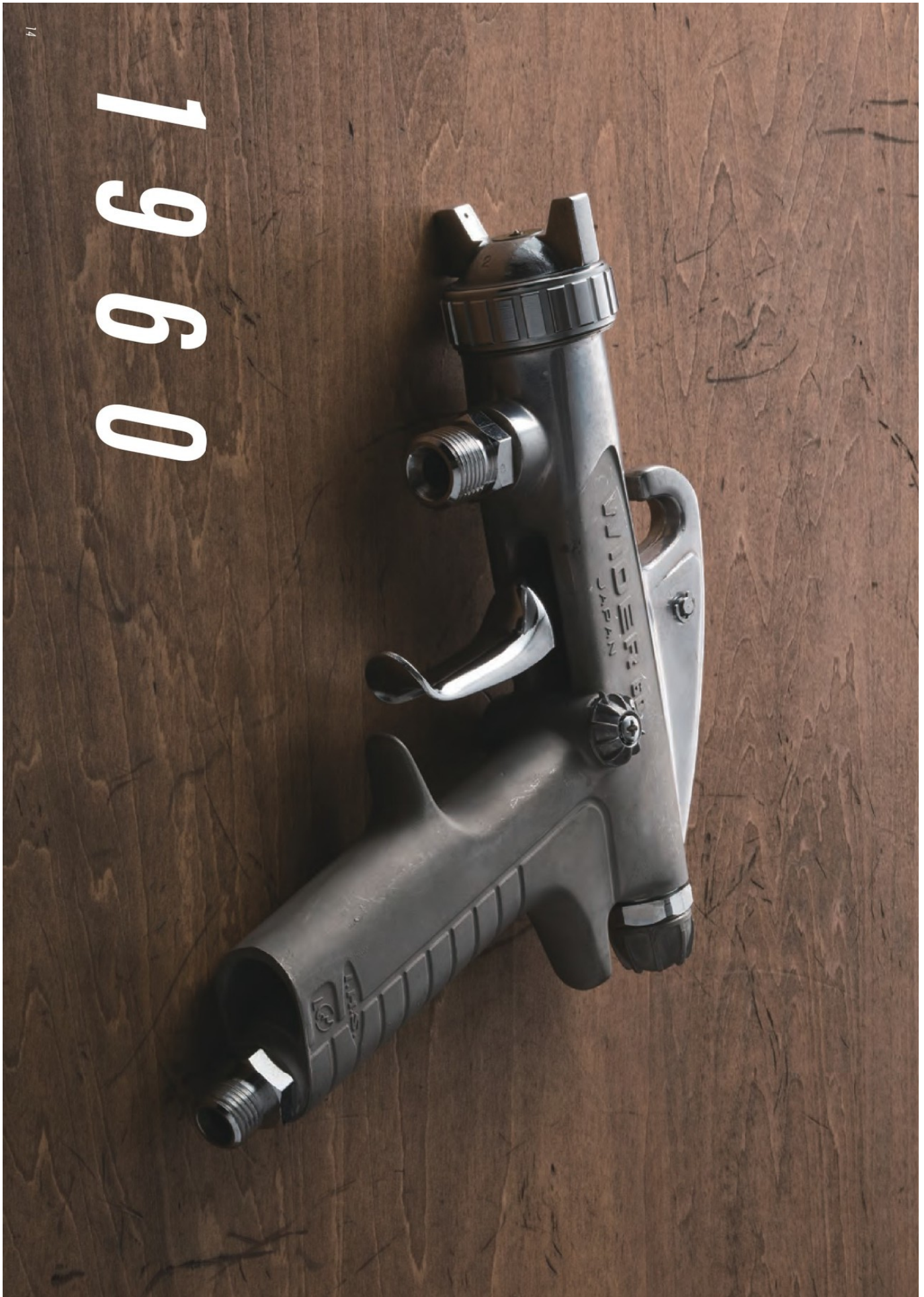


In 1959, we improved the atomization of the S-3 small spray gun that we had been producing, reducing its air consumption, to develop this medium spray gun in our pursuit of working efficiency. Its basic structure was based on the WIDER-57 large

model. Retaining design elements of the latter such as simple appearance and one-touch operation for pattern adjustment set and fluid adjustment set, we built the air volume adjustment set into the grip area.





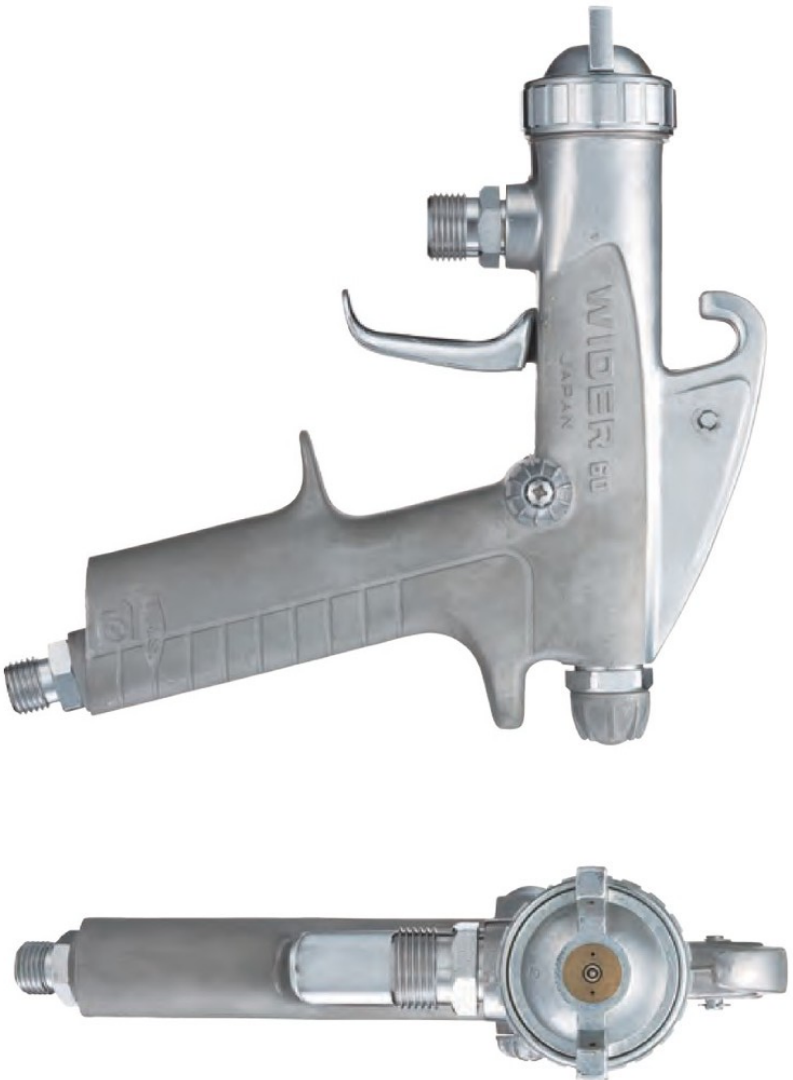




# WIDER - 60

Large spray gun

## Further Evolution to Larger Models

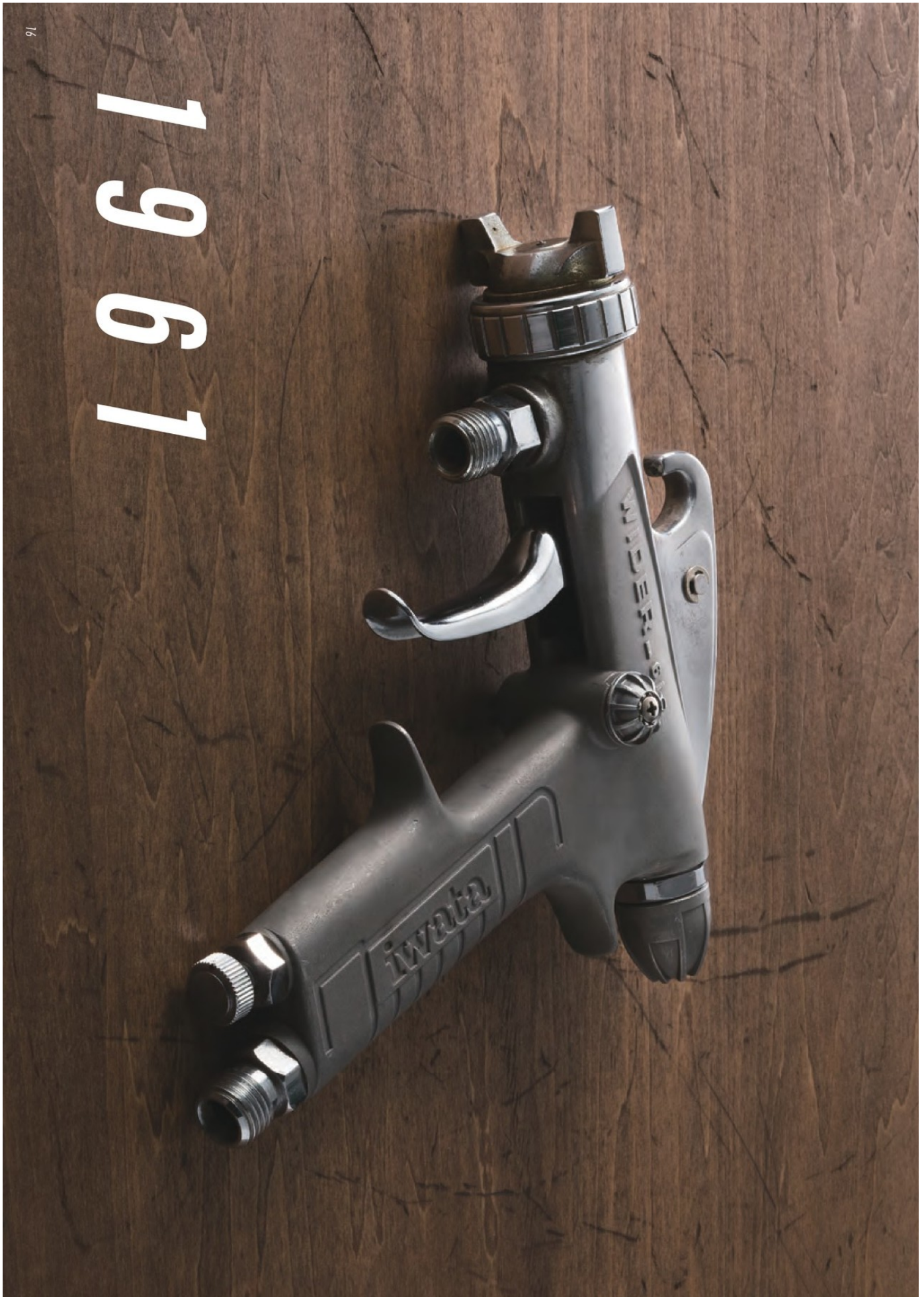


The WIDER-57 large spray gun was earning praise from all sides, but in 1960 we developed it to apply further improvements. The WIDER-57 only supported pressure feed and suction feed as types of feed, but with the WIDER-60, we extended our lineup with

a body specifically for use with a gravity feed cup. As one of the general-purpose large models at that time, it was well regarded in Japan and overseas for its economic and operational performance.







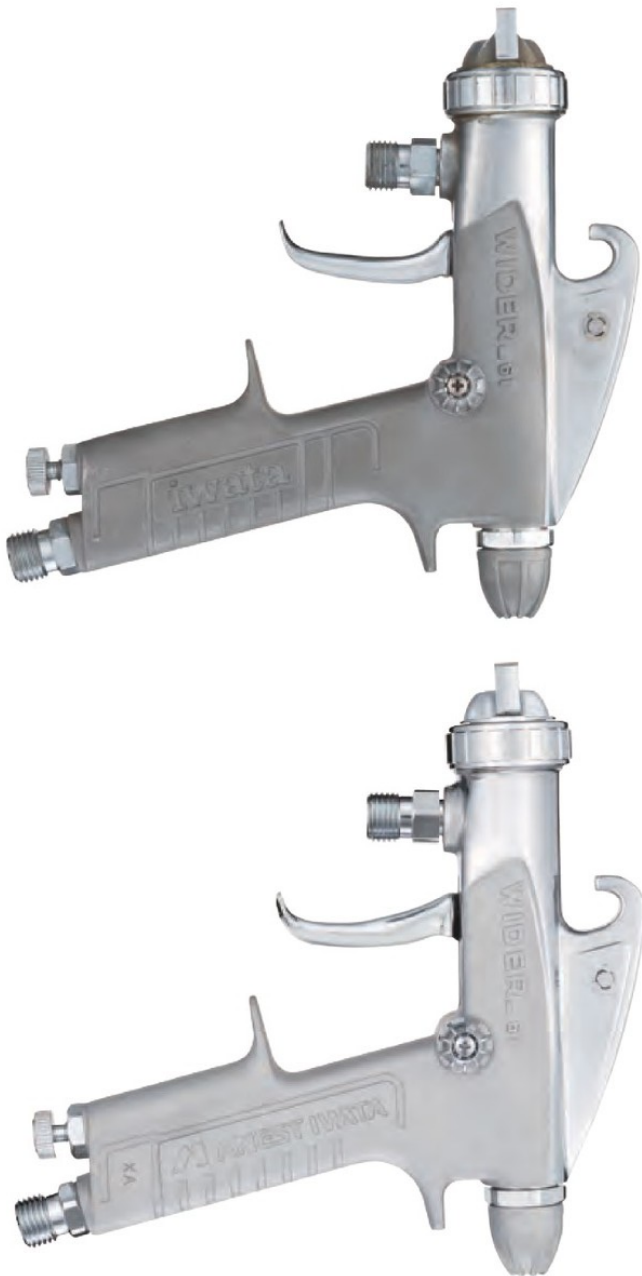




# WIDER - 61

Small spray gun

## A Famed and Refined Model



After we developed and launched the WIDER-59 medium spray gun, it was slow to penetrate the market. The main reasons were that the horns of the air cap were not strong enough, and that people were used to using the S-3 small spray gun, which we were marketing at the same time. In the WIDER-61,

we thoroughly improved these issues, and applied the “correlation formula between fluid nozzle and air cap” which our research had obtained as results. This approach succeeded in improving paint atomization.  
\* This is a super longtime selling product that we still manufacture at our Taiwan factory.





18

1965

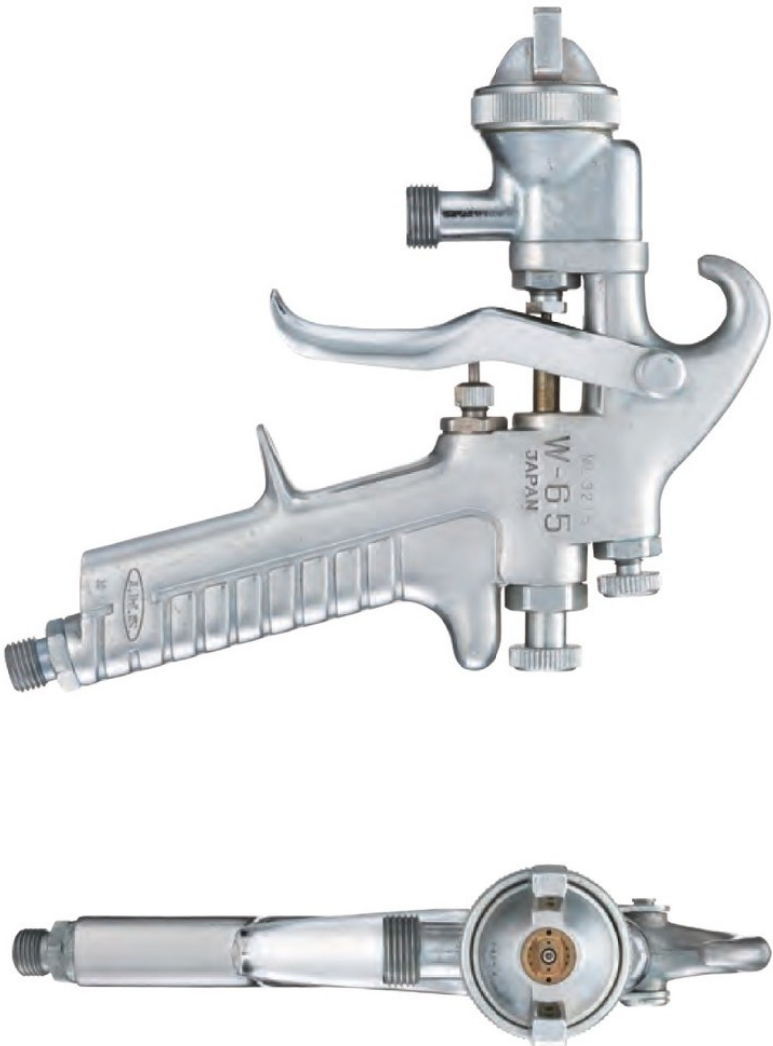




# WIDER - 65

Large spray gun

## A Spray Gun Dedicated for High-Grade Finishing on Mass-Production Lines



In 1965, this model was the first large spray gun in Japan developed for the niche market of high-grade finishing paints in mass production. We developed it to address applications which demand high quality and efficiency, particularly in the automotive industry, with stable atomization and high output volume. The body weighed 600g (one of the lightest

among the large spray guns at the time), and the triggering was also light and exceedingly easy to use. In performance and quality, our spray guns are favorably compared well with foreign-made spray guns that had previously been used for high-grade finishing, but we achieved that at around one third the price of those foreign products.





20

1970



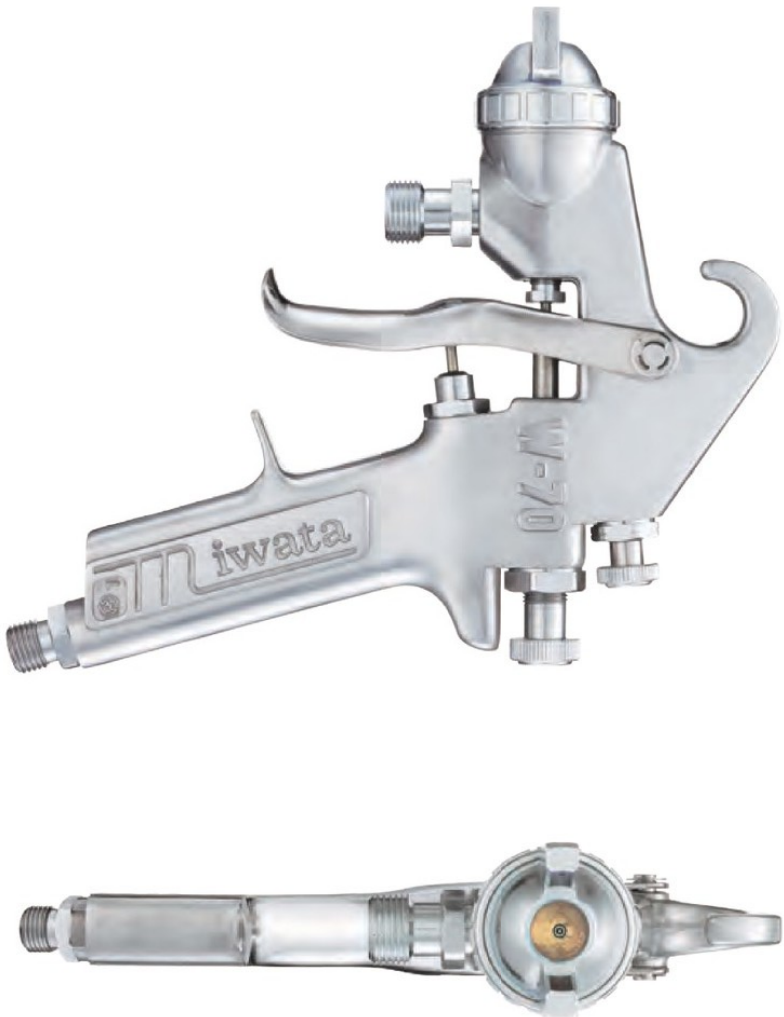




# WIDER - 70

Large spray gun

## A Highly Durable All-round Spray Gun



Coating technology was advancing in the 1970s, while forms of production were being pushed to modernize, and demand for spray guns expanded still further. On the other hand, there was a shortage of technical workers, so we urgently needed to develop the spray gun that would be easy for

inexperienced workers to handle and maintenance free. From those design conditions, we developed a highly durable spray gun with the primary structural design requirement that no parts would break or fall off even if they were treated with heavy duty use.



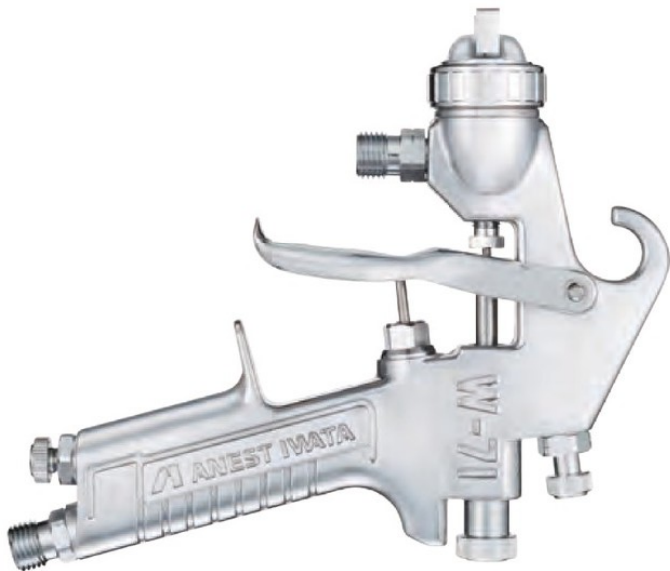
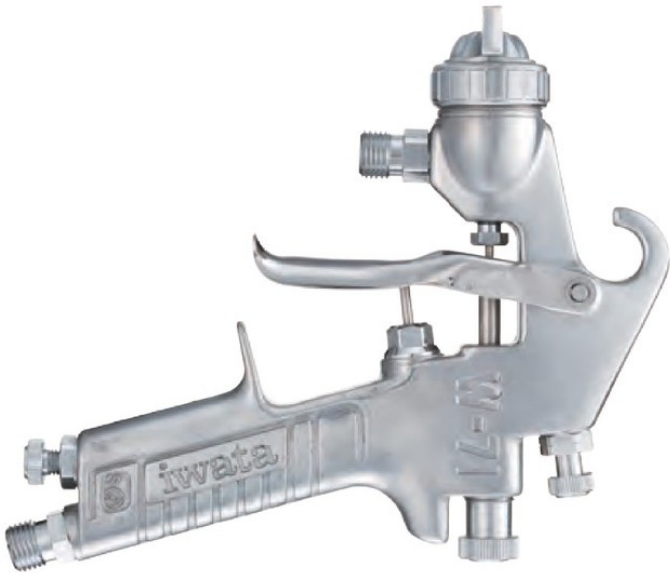


1971





**WIDER - 71**      **Developing the Products the Times Demanded**  
 Small spray gun



In 1971, as a result of improved productivity, there was demand for a spray gun adapted to mass production, with an appropriate structure, high durability and easy maintenance. Based on the proven performance of the WIDER-65 and WIDER-70 large spray guns, we aimed to develop a small spray gun by maintaining the durability of those

models while further refining their ergonomics. With outstanding durability and excellent atomization, it can be used for high-grade painting application. Easy to service and inspect, it was also highly economical. \* This is a super longtime selling product that we still manufacture at our Taiwan factory.





24

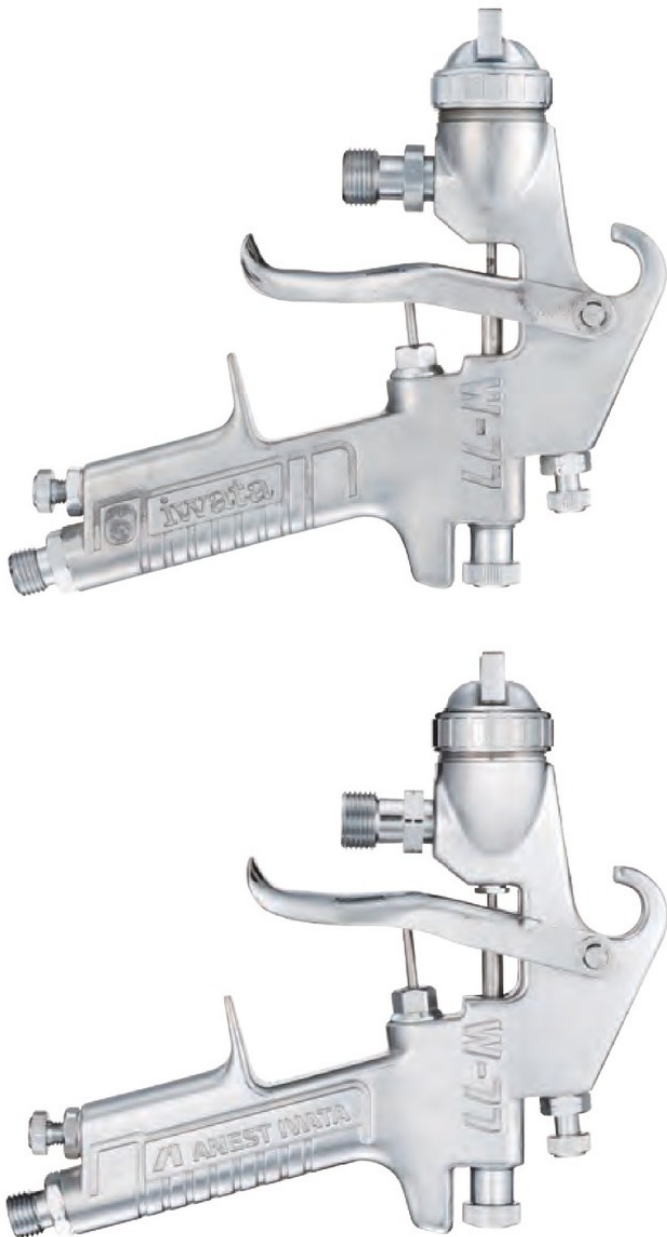
1977







**WIDER-77** Challenge for a World First in its Class  
 Medium spray gun



In 1977, we redesigned the WIDER-77 from the perspective of ergonomics. Our development goal was to make a spray gun that would have the performance of a large model, but be so light and easy to hold that it would handle like a small model. Using a simple and robust structure and carefully

selected materials, we developed a high-grade spray gun that boasts extraordinary durability and was the first in its class, anywhere in the world, to be equipped with an air volume adjustment set.  
 \* This is a super longtime selling product that we still manufacture at our Taiwan factory.





1985





# WIDER - 85

Predecessor Model of Current Spray Guns

Large spray gun



We developed this model in 1985 as the ideal spray gun for high-grade use, able to spray more diverse paints and apply to changes of painting conditions. This was our first spray gun in the large class to be equipped with an air volume adjustment set. We could develop a spray gun with less fatigue for the operator

because of drastically reduced weight, improved ease of gripping, and designing of a light trigger load. We also revised the fluid needle packing structure to a specification with durability for one million strokes. This model also had a newly developed air cap with a conical shaped tip, for reduced paint adhesion.





1987-88



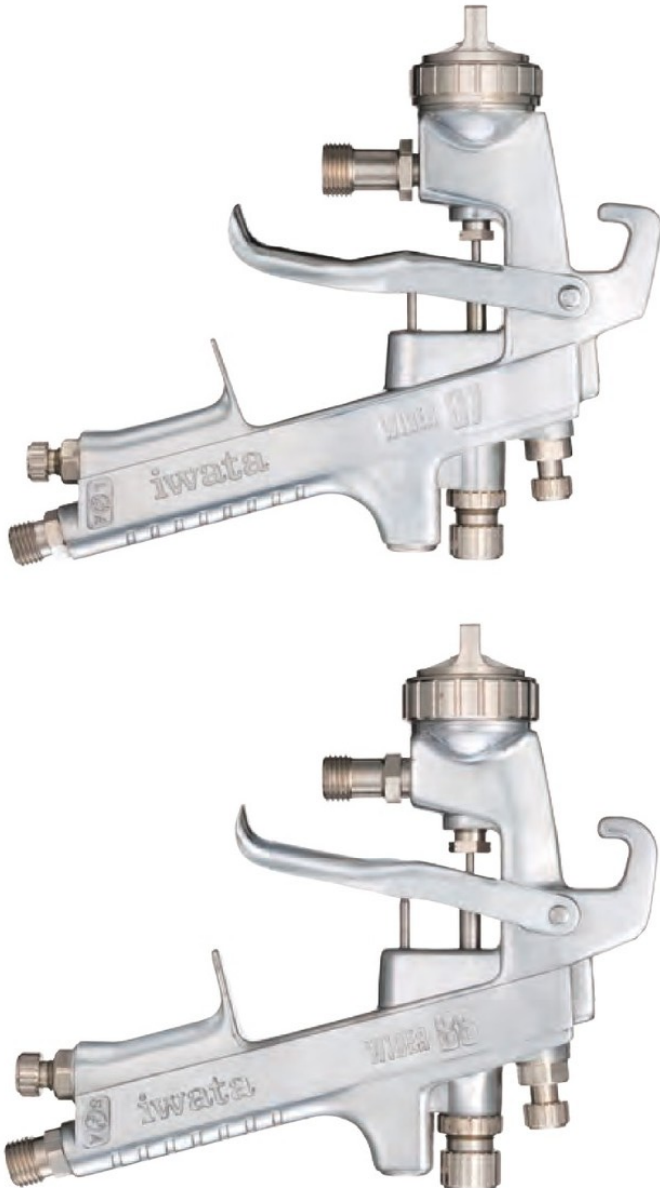




# WIDER - 87 / 88

Medium/small spray guns

## The Birth of the High-grade Spray Guns



Through a major project to modernize our production equipment, we switched from the self-made specialized waterwheel-shape machining equipment for air caps, fluid nozzles and bodies that we had used until then, to the latest NC and MC equipment at that time, which had just started coming onto the market. That was when we first

adopted the stainless steel fluid nozzles and needles that are now seen as standard. We also transitioned to a mass-production system with equipment that can run 24 hours a day, to raise productivity. We also adopted two different types of pattern for air caps, tulip-shaped and straight, so that our products would also be used in the automotive refinishing market.



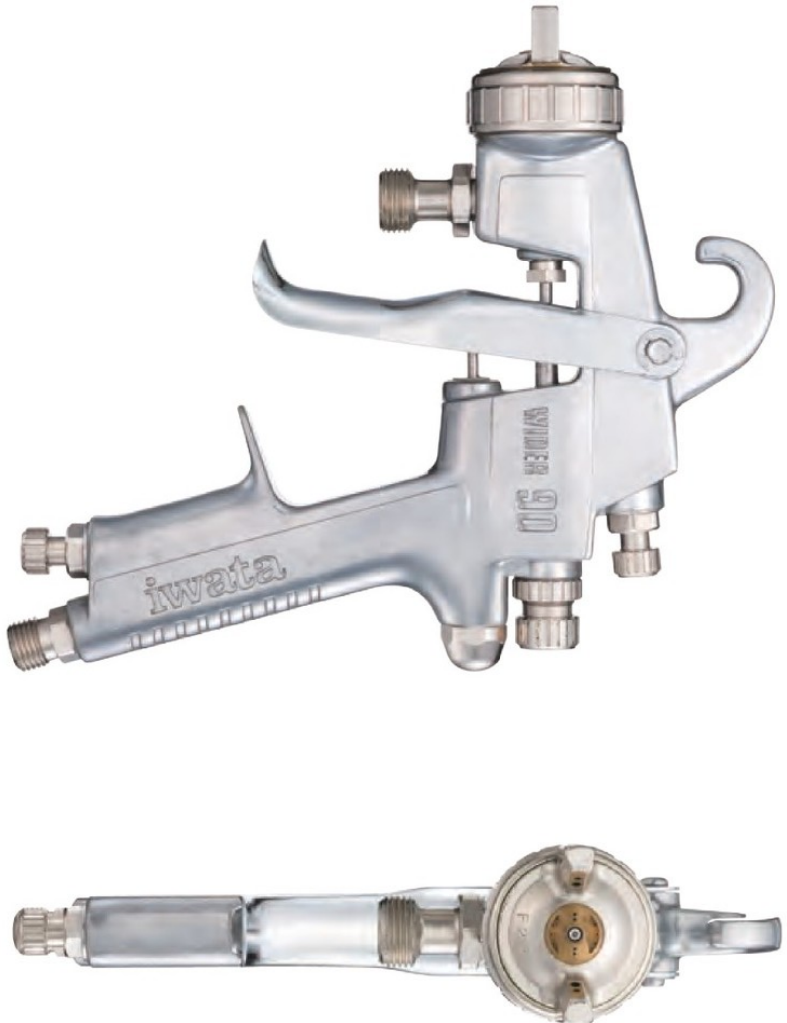


1990





**WIDER - 90** Making the Leap to the Global Market  
 Large spray gun



In 1990, we developed the WIDER-90 as a large spray gun of the highest grade. Ahead of its time, it was ideal to spray products such as vehicles, electric appliances, and furniture, of which people

were inclined to demand more and more high-grade quality. From that year, we moved entirely to stainless steel for all wet parts, enabling our spray guns to work with all types of paint.





From  
“WIDER”





“**W**”  
to .

We initiated a new project to develop environment-friendly products for the 21st century. We reconsidered structural designs from their heart parts, aiming to make further progress around the world. We concentrated the various ideas associated with the “WIDER” name into the single letter “W”, reflecting our intention to take pride in providing coating professionals with spray guns equipped with numerous new functions.







# *Developer's Comments*

## **Developing Longtime selling Products Which Reflect Comments From Customers in the Field**

—— Masaru Kaneko, former employee, Coating Technology Group of the Coating Equipment Division

Since 1990s, when I was working on developing new spray gun models, there have been such as environmental issues and shrinking workforce. To establish our position as the top brand, it was essential for us to continuously develop and deliver spray guns equipped with the latest functions that the times demanded. To do that, we visited the workplaces of customers in fields like construction, automotive refinishing, and industrial coating to listen to what they had to say. But the performance needed was different in each market, and sometimes we struggled to know what points to

create products for. In our work developing the W-100 at that time, our principle was “to develop a product to embody the comments of customers in the field”. In particular, we emphasized ergonomics, and incorporated the design considering weight reduction, easier handling and weight balance. That was a tough time, visiting workplaces and going through a process of trial and error, but I am confident that that is what led to about 22 years of manufacturing and sales of the W-100 and 101, which are our company's representative longtime selling products.



36

1997

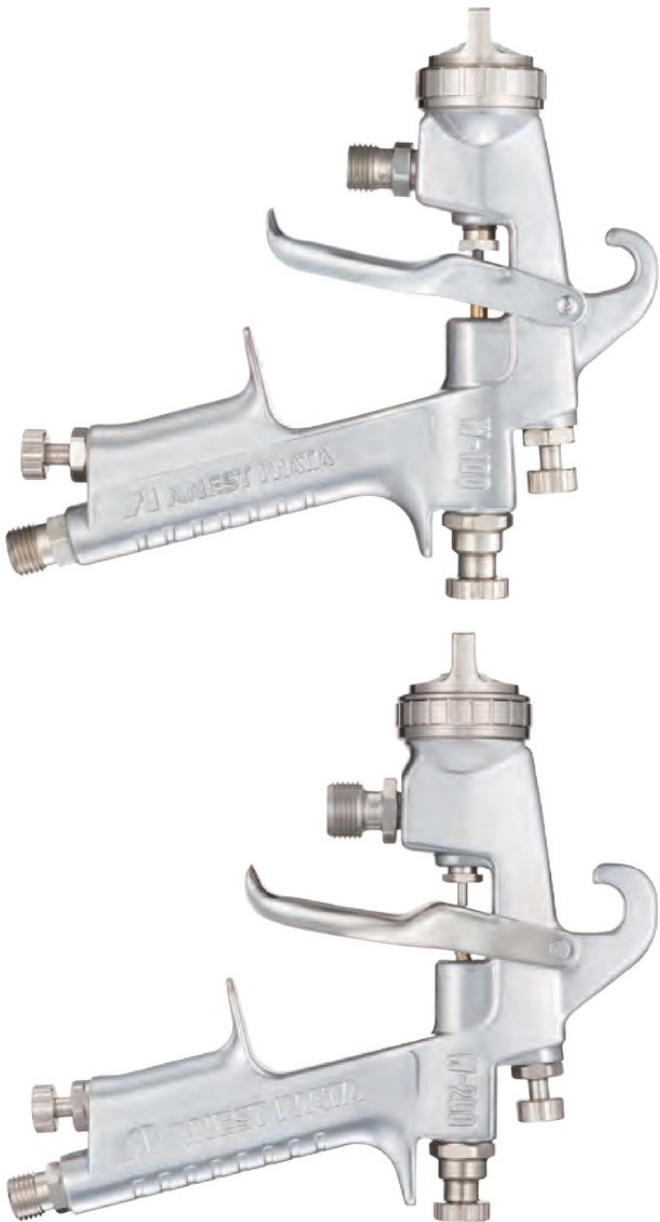






# W - 100 / 200    The Beginning of "W"

Small/Large spray guns



We totally reviewed basic structural design, aiming to make further global progress as the 21st century type environment-friendly products. As the top manufacturer of coating equipment, we developed small and large spray guns and launched them simultaneously around the world, to deliver ambitious products with numerous new functions.

Our development of a flat and wide pattern produced uniform paint atomization and flat coating films for easy application of overlap coating. Expanded pattern width makes work easier. We also combined the uniformly fine atomization and reduction of atomizing air pressure.





39

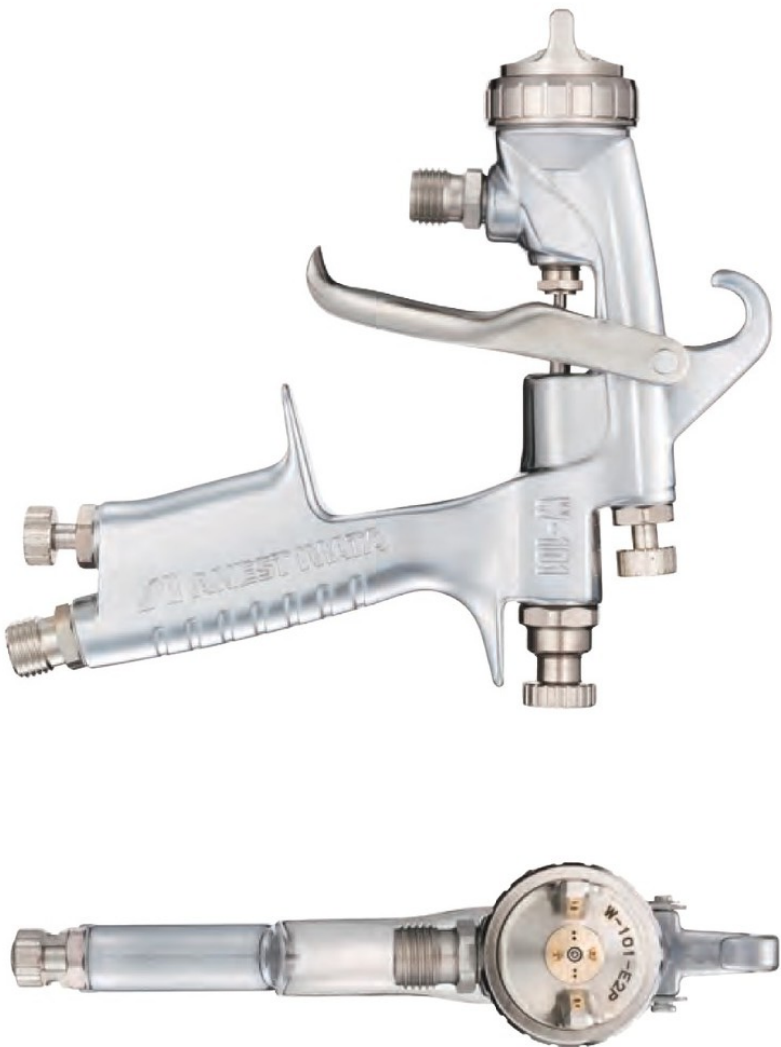
2005





# W - 101 Aiming for No. 1 in the Global Market

Small spray gun



In 2005, we, as comprehensive coating consultant developed and marketed ideal model to each market by making a minor change to the W-100 spray guns. Our goal was to take the No. 1 position in the global market. We also newly developed our B-Sho Series of specialized spray guns for automotive refinishing.

This series produces a flat coating film from uniform paint atomization, for easy application of overlap coating and reduced mottling. We reduced paint built up on the air cap by changing the shape considering the accompanied air current.





The “W Series” penetrated markets around the world. Looking for another leap forward, we return to “WIDER”, Anest Iwata’s starting point. Our ambition is to deliver even greater value to customers around the world, by making better and more affordable products.

# “W” From





“  
to **WIDER**”  
again.







# *Developer's Comments*

## **The Concern and Emotion Embodied in WIDER - Further Evolution of the W Series**

—— Shozo Kosaka and Hiroyuki Kakehata, Coating Equipment Development Group,  
Development Department, Coating Division

The promise we make with our corporate brand is to be a “developer company that always has lively vitality and innovative technical strength”. As the leading company in coating equipment, it is our mission to stimulate the market. This year is the 93rd anniversary of our foundation, and we have been working on new product development in pursuit of a further rush of progress towards our centenary. To that end, we are evolving and refining the W Series products that have won recognition around the world as general-purpose spray guns, and anchoring the Anest Iwata brand more strongly in the market. Our first step has been to analyze and reconsider every component, examining what makes a spray gun easy for the user to handle, what gives it stable quality with no individual differences, and what would raise productivity even higher. That process required us to take the bold and decisive step of breaking away from our

tried-and-true product design in order to seek further improvement. WIDER1 and WIDER2 have evolved as all-purpose spray guns that are able to serve any market, because of their grip and trigger shapes that fit with however they are held, and their superior weight balance. We could stabilize the atomization performed by improving the air valve seat from designing and production viewpoints. We have taken the greatest care to raise the usage feel of all parts, with measures such as making detailed changes to the trigger shape for ease of use, and adding guides to the ends of screw parts. WIDER1 and WIDER2 are spray guns that result from careful incremental improvements in every detail, to make users say “these are even easier to use”. If you try them, we are confident that you will be able to feel the concern and emotion that went into them.



44

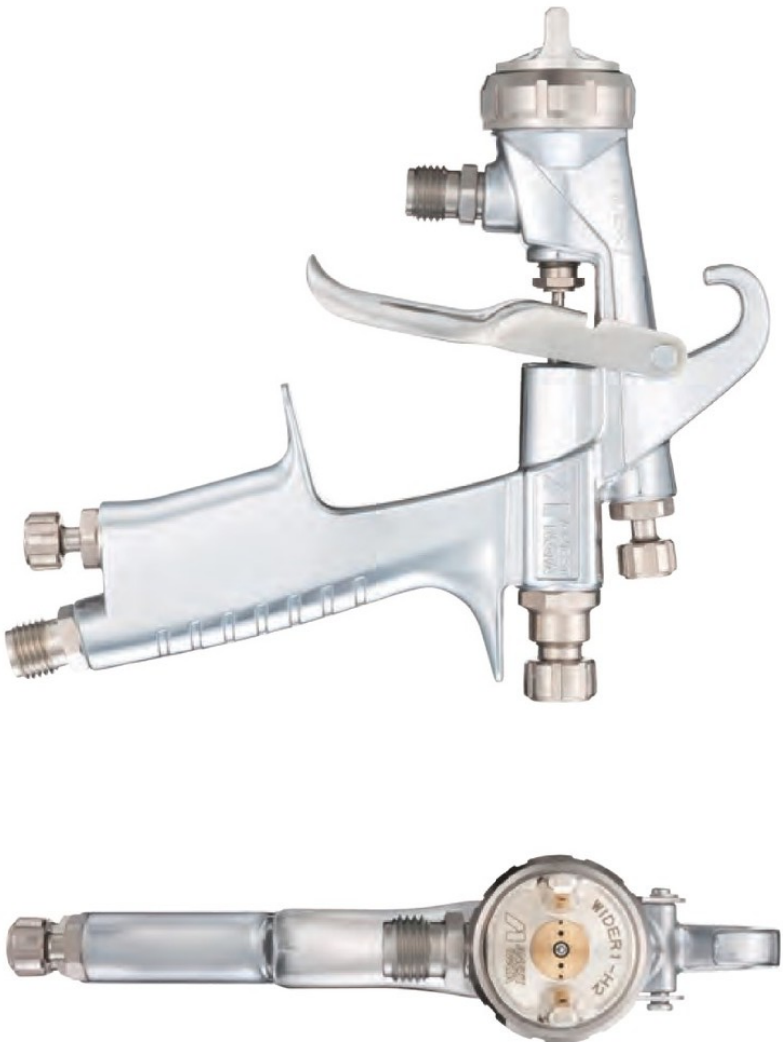
2019







**WIDER1** The Beginning of a New Era - Looking for a New WIDER  
 Small spray gun



The key point in industrial coating products is “dependable quality and repeatability”, and we are now making a full model change to return to that starting point. Our latest small spray gun incorporates the expertise which we have accumulated over the 14 years since the debut of our

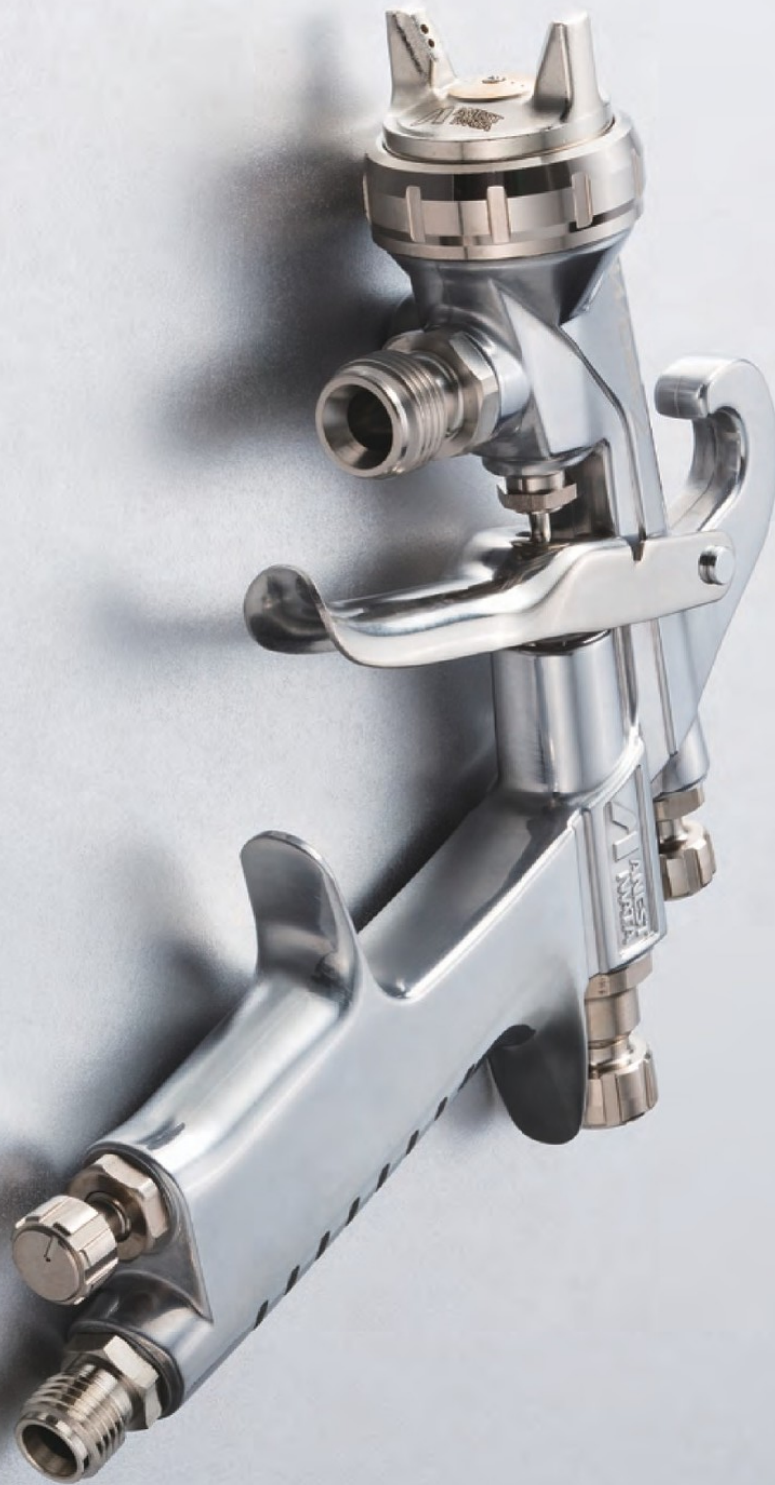
W-101 small spray gun. Our innovation is focused on the air passage, and a major revision of that area has greatly reduced individual variation. We have also made many other detailed changes, and completely updated the visual design to create a stylish body line.





46

2019





# WIDER2

Large spray gun

## The Beginning of a New Era - Looking for a New WIDER

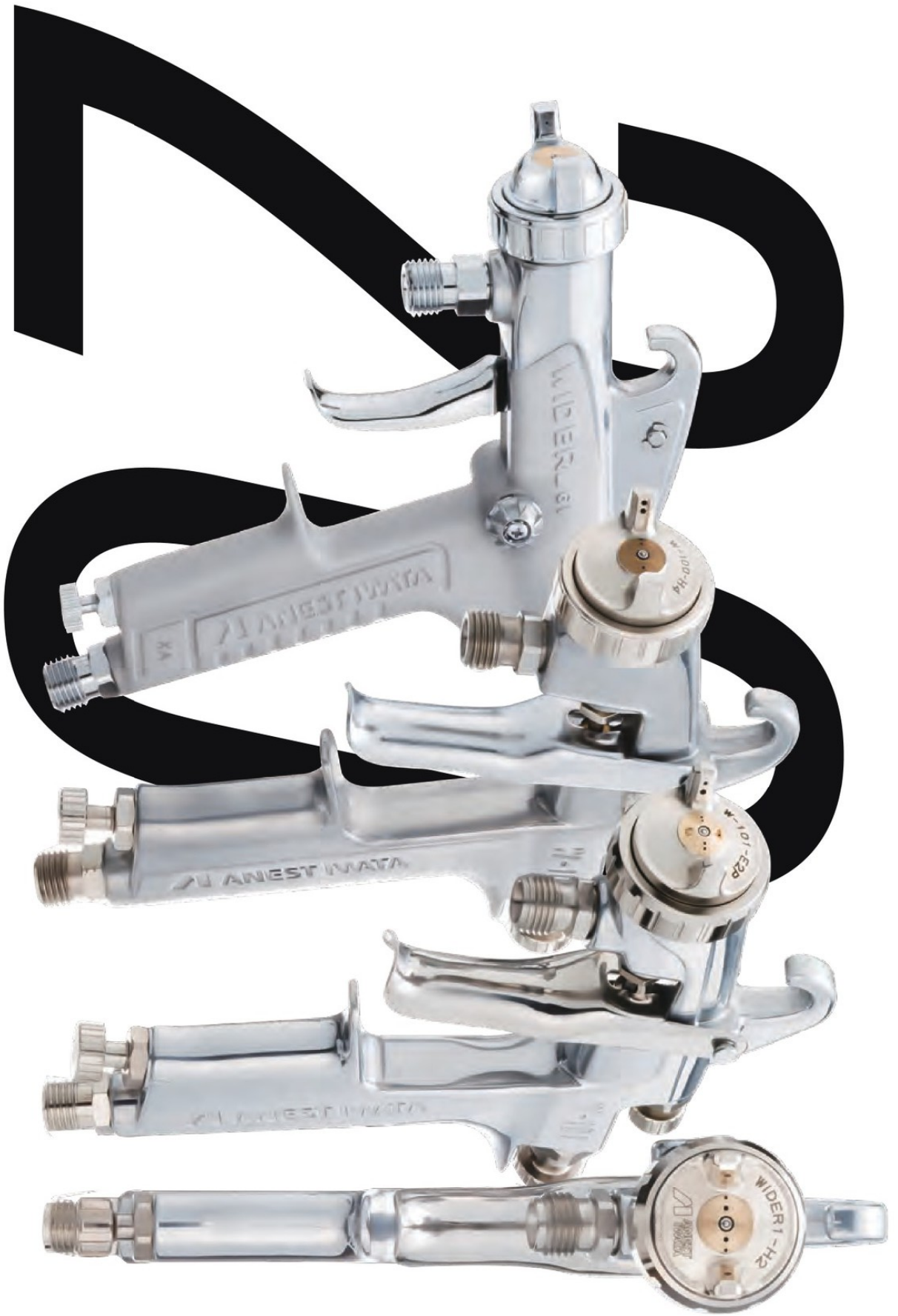


A full model change to the W-200 large spray gun, 22 years after its debut, creates the WIDER2, and equips it with the same functions as the WIDER1. The new pattern adjustment set, which is also used on the

WIDER1, makes operation easier and more intuitive because there is a linear response between turns of the pattern adjustment set and pattern width. The refined body shape also saves weight.







Together with new times





we will carry on evolving.







50

This is how individual  
spray guns are created.





## A f t e r w o r d

On May 1, 1926, we rented part of a factory in Toyosawa-cho, Shitbuya Ward (now Ebisu) and installed two used lathes, to establish our little local factory. The founders were two brothers: Hatsutarō Iwata and Sukezo Iwata. Hatsutarō was born in August 1901, and Sukezo, born in May 1905, served as his elder brother's lifelong supporter. The company was founded as Iwata Seisakusho, and operated as a subcontractor producing parts of typewriters, bench drills, and radios. After that, a dealership that was working on the sale, aftersales service and repair of foreign cars asked the company to produce a made-in-Japan version of expensive foreign-made spray guns. That was the start of our spray gun manufacturing. We created our model-1 spray gun in 1927, and in 1928 we developed and marketed a compact, air-cooled piston compressor as a compressed air source for spray guns.



Founders: Hatsutarō Iwata (in the company from 1926 to 1975) (left)  
Sukezo Iwata (in the company from 1926 to 1981) (right)



Our model-1 spray gun  
(the first spray gun made in Japan)

Anest Iwata will continue to be a company that serves individual people's lives, as we go on providing the highest quality, technology and service, which embody the sincerity that has been our company credo since the foundation. We will go beyond our usual markets to tackle new fields and markets, aiming to be a developer company filled with the vitality and novelty that will create new applications.



Episodes of  
**WIDER**  
Since  
**1957**

「Episodes of WIDER Since 1957」  
Published in June 2019

 **ANEST IWATA Corporation**

Publisher: Satoru Iwata, Coating Market Department    Editor: Tomoya Kobayashi    TEL: +81-(0)45 591-1114

