



**YOUR PARTNER FOR  
VALVE MACHINING**





# MACHINING OF VALVES



WITH MORE THAN 30 YEARS OF  
EXPERTISE IN THE MACHINING OF VALVES,  
KNOWLEDGE AND KNOW-HOW HAVE BEEN  
THE KEY, BECOMING ARRI A BENCHMARK IN  
ITS FIELD OF ACTION.

Trevisan machines have been essential during this journey, giving the company the ability to machine different types of valves: gate valves, ball valves, globe valves, check valves, plug valves, butterfly valves etc.; applications: oil & gas, nuclear, underwater, cryogenic etc.; and materials: stainless steel, inconel, duplex etc. These Trevisan machines include the Trevisan DS1200 model, which is capable of machining large-scale parts (up to Ø2400mm and 25 tons).

ARRI also designs tools that are adapted to cope with the needs of each project. To do this, it gathers a highly-qualified professional team of programmers, technicians and mechanics.

With the aim of offering our customers a quality service, ARRI is constantly striving to make continual improvements to its technological resources and management processes. In that sense, we also have a Zeiss Three-dimensional Machine for high-precision measurements, and we offer a non-destructive testing service on request of the customer. Gearing towards its maximum customer satisfaction.



# CAPABILITIES

THANKS TO AN ONGOING CONTINUOUS IMPROVEMENT OF TECHNOLOGICAL RESOURCES AND MANAGEMENT PROCESSES, ARRI HAS DEVELOPED INTO A QUALITY REFERENCE IN THE VALVE MACHINING SECTOR.

The ability to be able to offer a wide range of machining from 2-inch valves right up to 25-ton parts, means that ARRI is capable of providing a complete solution to handle the machining needs of its customers.

With over 30 years of experience, ARRI has evolved as a specialist in machining different types of valves (gate valves, ball valves, globe valves, check valves, plug valves, butterfly valves etc.), applications (oil & gas, nuclear, underwater, cryogenic

etc.) and materials (stainless steel, inconel, duplex etc.). This capability makes ARRI a flexible and multifunctional company, versatile enough to deal with the needs of any kind of customers projects and fields of endeavor.

## MACHINING RANGE

### MACHINING EXAMPLE

#### Mori Seiki 2500 S-Z

2" & 300 lbs. **BODY**  
MAT: 316

#### Trevisan DS300

3" & 1500 lbs. **BODY**  
MAT: CF8M

#### Trevisan DS600

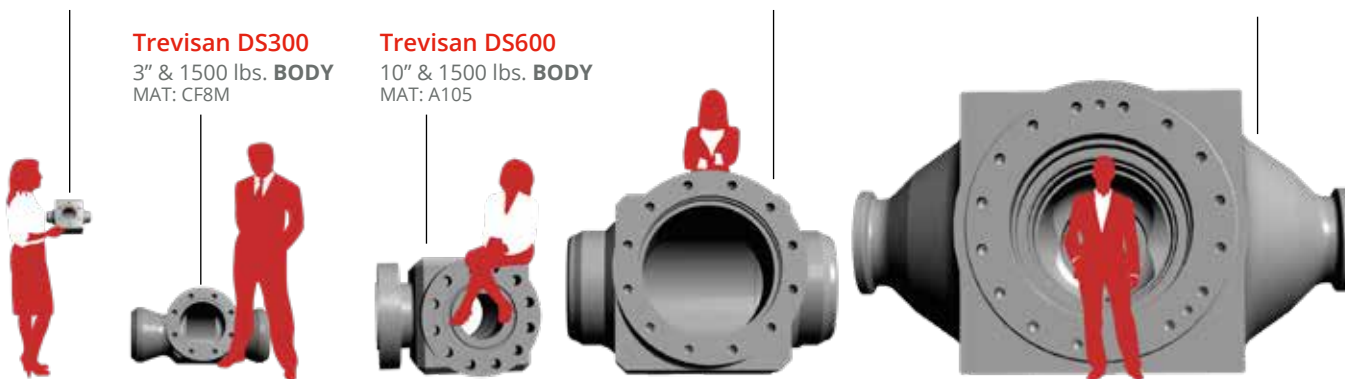
10" & 1500 lbs. **BODY**  
MAT: A105

#### Trevisan DS900

14" & 1500 lbs. **BODY**  
MAT: F51

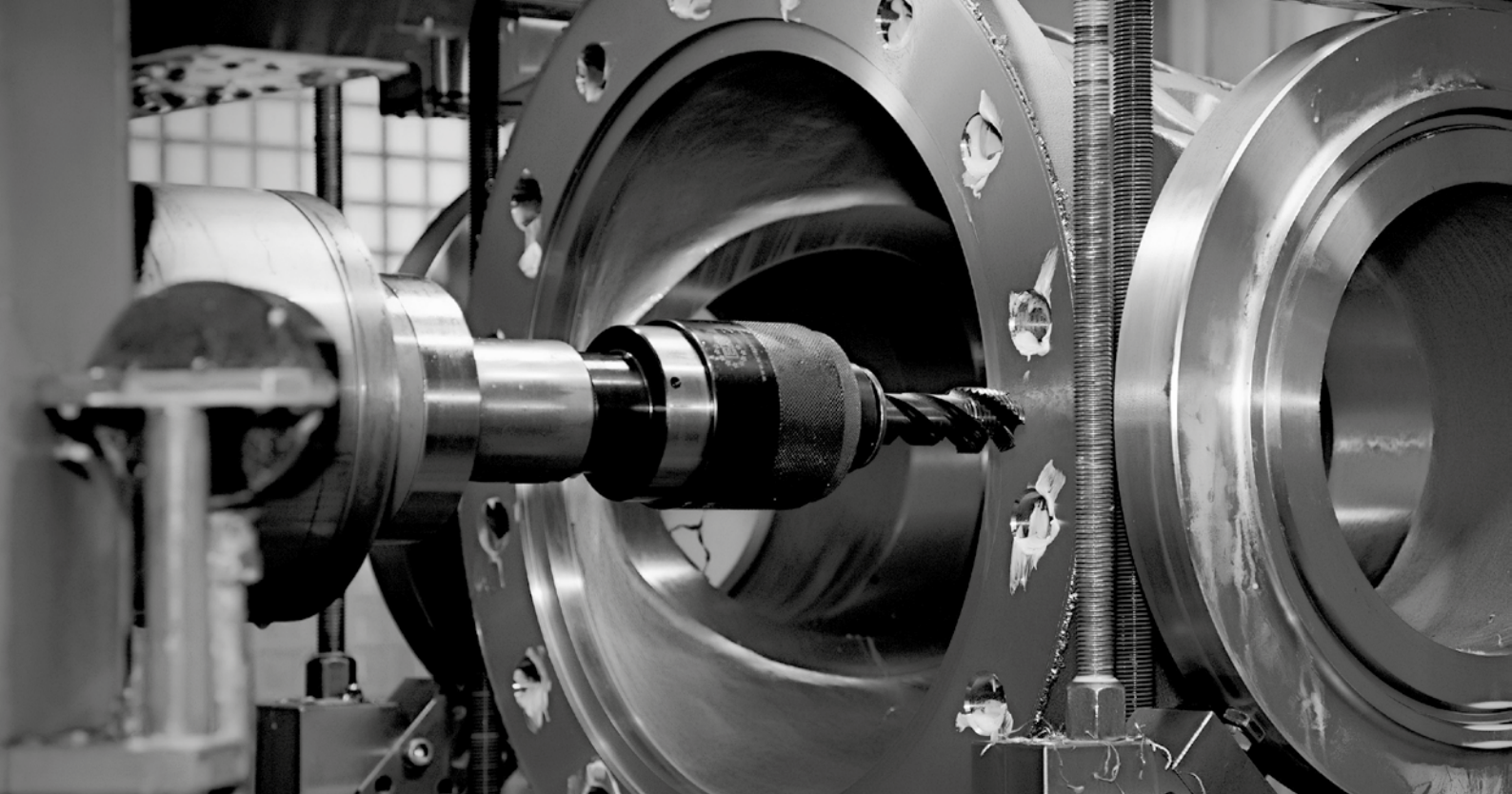
#### Trevisan DS1200

13" & 15000 lbs. **BODY**  
MAT: F22 + INCONEL 625 OVERLAY



*up to 25 tns*





# MACHINING

## MACHINING OF CAST-IRON VALVES



The majority of the valves machined at ARRI are cast-iron valves. Exhaustive checks are made throughout the machining process to ensure the perfect condition of the material.

## MACHINING OF FORGED STEEL VALVES



Based on its knowledge and experience of machining forged steel valves, ARRI adapts to cover different characteristics of forged steel valves compared to cast-iron valves.

## MACHINING OF EXOTIC ALLOY VALVES



ARRI adapts its technical resources to the features of each material. Extensive experience in working with materials such as stainless steel, inconel, duplex, stellite, etc. means ARRI is capable of the most demanding machining processes.

## MACHINING OF LARGE-SCALE VALVES



ARRI is particularly skilled at machining of large-scale valves. Trevisan DS1200 can machine valves with a flange of up to Ø2400mm and 25 tons in weight.



# MACHINERY

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TREVISAN MACHINES ARE ESSENTIAL IN GIVING ARRI THE ABILITY TO MACHINE DIFFERENT TYPES OF VALVES, WITH VARYING APPLICATIONS AND MATERIALS.

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# Trevisan DS1200/450C

## HORIZONTAL MACHINING CENTRE

These Trevisan machines include **TREVISAN DS1200/450C** model, which is capable of machining large-scale parts (up to Ø2400mm and 25 tons)



X axis travel	7500mm
Y axis travel	1900mm
Z axis travel	2200mm
Turning headstock U	travel 450mm
Max. turning Ø	2400mm
Pallet	2400mm x 2400mm
N° of tables	2
Tool storage	40 positions
Max. spindle speed	1500 RPM





# Trevisan DS900/300C

HORIZONTAL MACHINING CENTRE



Equipped with two tables. Supports up to 6000kg on each pallet.

X axis travel	2700mm
Y axis travel	1470mm
Z axis travel	1700mm
Turning headstock U	travel 300mm
Max. turning Ø	1500mm
Pallet	1500mm x 1500mm
N° of tables	2
Tool storage	40 positions
Max. spindle speed	1500 RPM



# Trevisan DS600/250C

HORIZONTAL MACHINING CENTRE



We have two machines of this model, fully equipped with 8 assembly tables in order to synchronise operations.

X axis travel	1400mm
Y axis travel	940mm
Z axis travel	1100mm
Turning headstock U	travel 200mm
Max. turning Ø	1150mm
Pallet	870mm x 870mm(1) 1240mm x 970mm(2) 1100mm x 1100mm(3) 1240mm x 1240mm(2)
N° of tables	8
Tool storage	54 positions
Max. spindle speed	2800 RPM





# Trevisan DS300/70C

HORIZONTAL MACHINING CENTRE



Equipped with two tables. Supports up to 6000kg on each pallet.

X axis travel	700mm
Y axis travel	520mm
Z axis travel	600mm
Turning headstock U	travel 75mm
Max. turning Ø	410mm
Pallet	600mm x 750mm 600mm x 600mm
N° of tables	2
Tool storage	46 positions
Max. spindle speed	2800 RPM



# C.N.C TURNING



## MORI-SEIKI MT2500-SZ

Max. turning Ø	350mm
Tool storage	120 positions
Max. spindle speed	12000 RPM
B axis rotation	+/- 120°
Y axis travel	+/- 115mm



## MAZAK Slant Turn Nexus 550M

Max. turning Ø	910mm
Max. turning length	2000mm
Motorized tool	



## PUMA 700LM

Max. turning Ø	900mm
Max. turning length	3000mm
Rotary table SMW-AUTOBLOCK AXN 570	
Motorized tool	



## GURUTZPE A1000

Max. turning Ø	
between centres	900mm
Max. turning length	1340mm
Rotary table	
SMW-AUTOBLOCK AXN 570	2500mm



# MILLING MACHINE

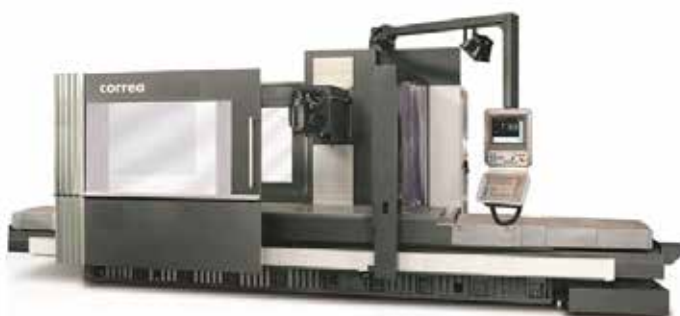
## CORREA ANAYAK AXIA

X axis travel 7000mm  
Y axis travel 1200mm  
Z axis travel 2000mm  
Universal Automatic Head  
Differential 0.1° (UAD)  
Tool storage 40 positions



## CORREA ANAYAK PRISMA

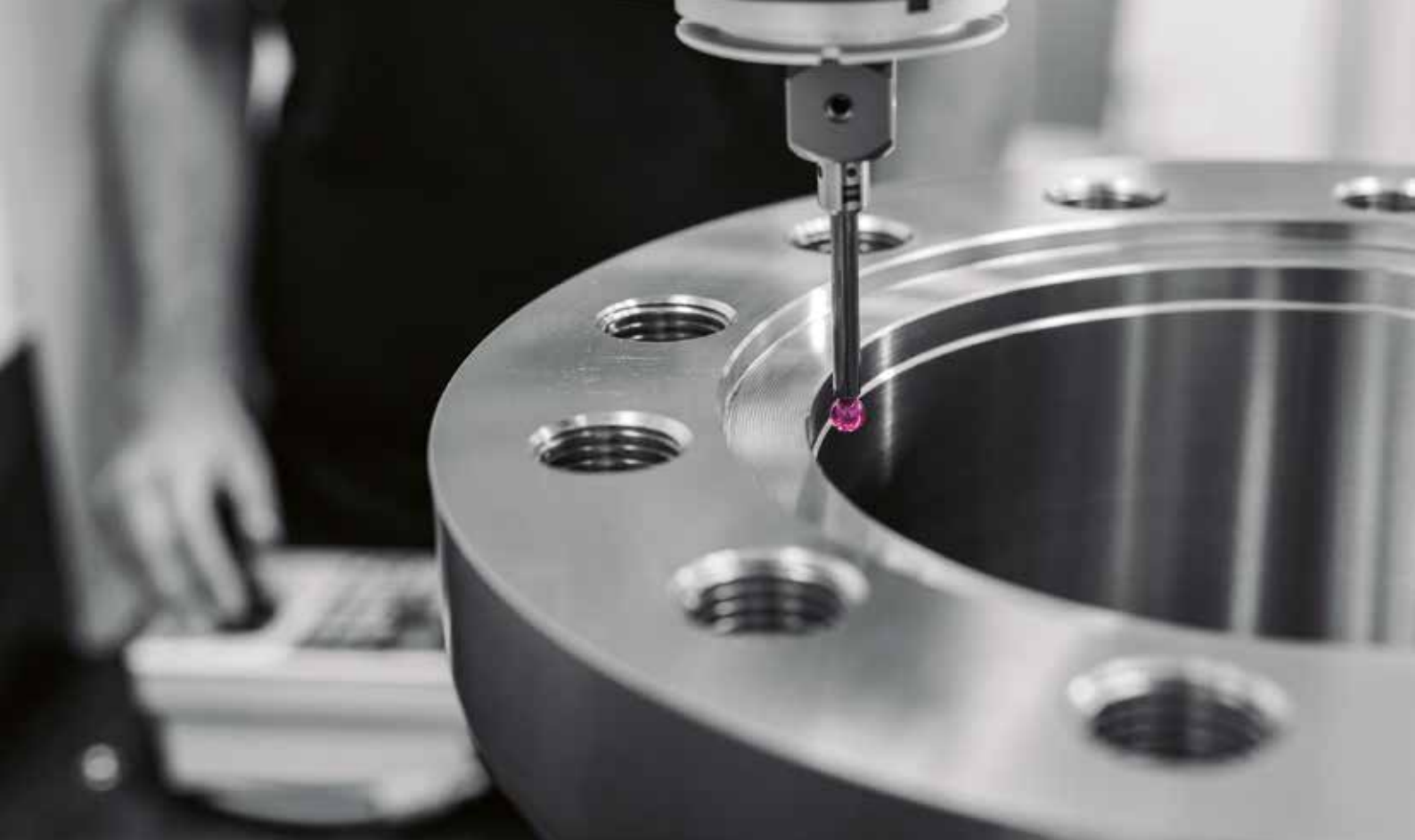
X axis travel 2000mm  
Y axis travel 1000mm  
Z axis travel 1000mm



## ZAYER BF4000

X axis travel 4000mm  
Y axis travel 1500mm  
Z axis travel 1250mm





# QUALITY

**ISO 9001:2015  
CERTIFICATION**

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IN MECHANICAL WORKSHOPS  
ARRI S. COOP. BACKS CONTINUAL  
IMPROVEMENT AND WE OFFER  
A QUALITY SERVICE THAT MEETS  
THE NEEDS OF OUR CUSTOMERS.

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We have the three-dimensional machine **Zeiss Contura G2** which enables us to take high-precision measurements.

**Measuring Range X, Y, Z**

1.000 mm, 1.200 mm, 800 mm



# CUSTOMER FOCUS

ARRI IS A COMPANY THAT IS UNDERPINNED BY ITS PEOPLE, AND IS COMMITTED TO ALWAYS ACHIEVING CUSTOMER SATISFACTION.

## 02 COMMITTED TO OUR CUSTOMERS



## 04 PROGRAMMING



## 06 PRECISION MACHINING



## 08 FINAL CHECKS



## 10 ONGOING TRAINING



## 01 STAFF



## 03 TECHNICAL ANALYSIS



## 05 INITIAL CHECKINGS



## 07 INTERMEDIATE CHECKS



## 09 NON-DESTRUCTIVE TESTS





**ARRI S. COOP.**  
Salbatore Auzoa, nº 16  
20200 Beasain (Gipuzkoa)  
Spain

**Tel** +0034 943 881 640  
**Fax** +0034 943 889 920  
info@arrimail.com  
[www.arriweb.com](http://www.arriweb.com)

