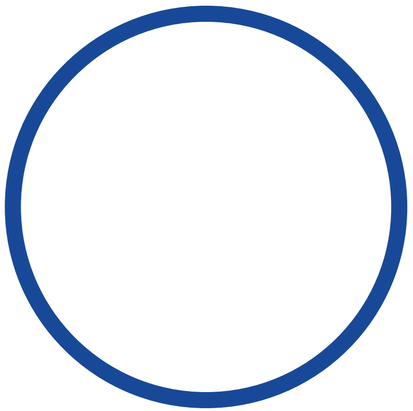
Products



this is what we do

O-Rings

200,00 mm

minimum
inside diameter

∞ mm

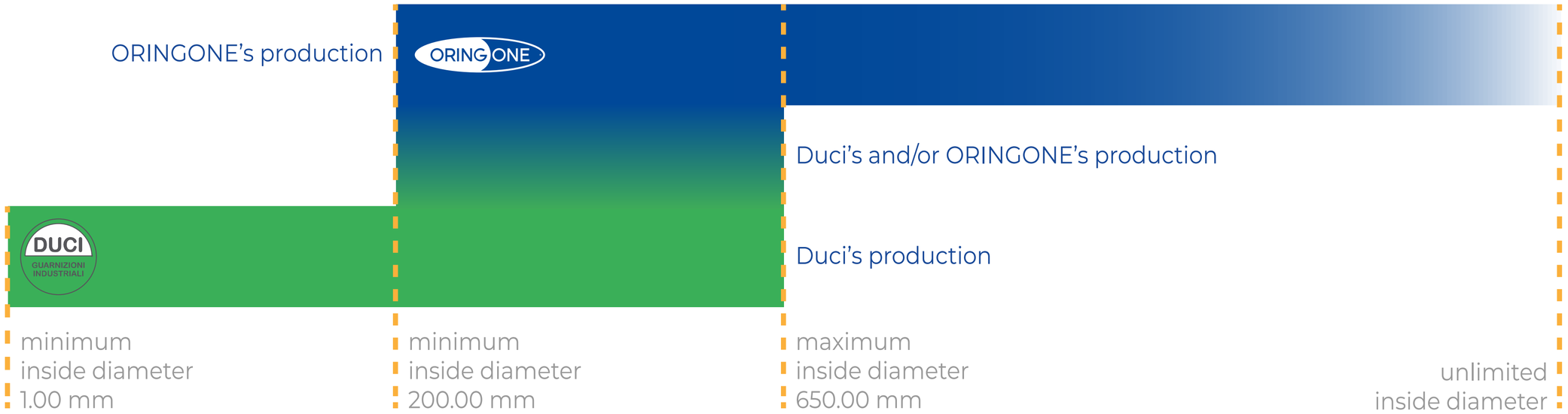
maximum
inside diameter

one piece

no minimum
orderable quantity

O-Rings

inside diameter production ranges



CordOne

1 meter

minimum length unit
(depending on material)

60 meters

maximum length unit
(depending on material)

performance

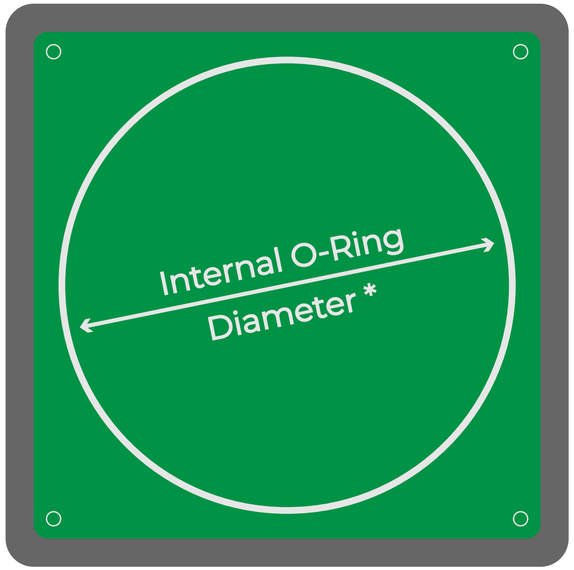
mechanical and physical
features as standard O-Rings

this is what we do

innovation

standard compression molding system

Traditional
Compression
molding machine



Traditional
mold design

* Maximum possible dimension depending on molding machine
and mold dimensions and design.

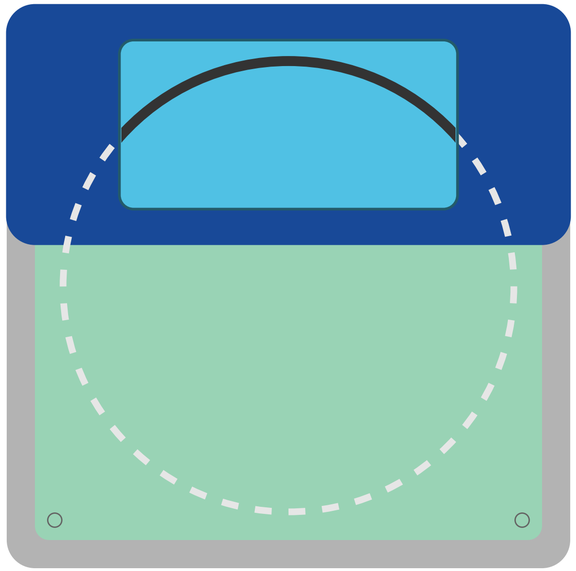
innovation

ORINGONE CO.SM.O.

Compression Step Molding for O-Rings

Traditional
Compression
molding machine

Traditional
mold design



compression
ORINGONE
molding machine

Variable sector
ORINGONE
mold

this is what we do

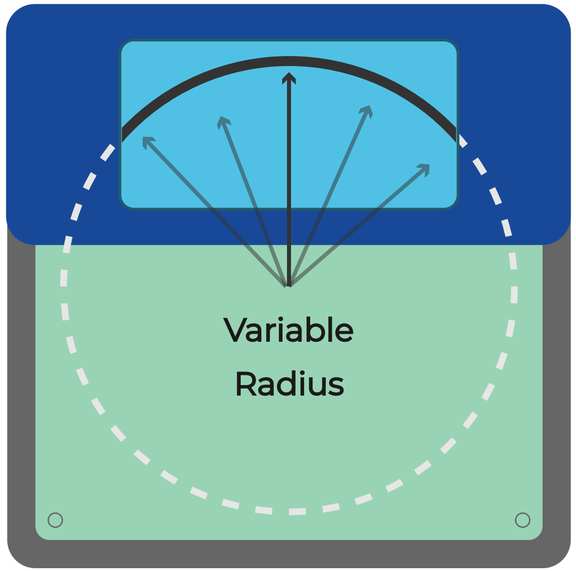
innovation

ORINGONE CO.SM.O.

Compression Step Molding for O-Rings

Traditional
Compression
molding machine

Traditional
mold design



compression
ORINGONE
molding machine

Variable sector
ORINGONE
mold

this is what we do

COLD JOINTED O-RING (GLUED JOINT)

⊕ Very easy and cheap process with no specific tools needed.
⊕ Materials easily and rapidly procurable.
⊕ Decent Tensile Strength.

⊖ Bad compression and flexible resistance (joint easily breakable).
⊖ Variable joint quality.
⊖ Ageing, deterioration and hardening of the glue and risk of joint breakage.

HOT JOINTED O-RING (GLUED JOINT)

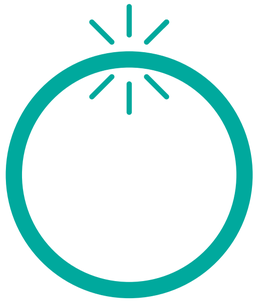
⊕ Easy and cheap process.
⊕ Better mechanical features of the joint than cold glued ones.
⊕ No glue hardening.

⊖ Low flexible resistance of the joint.
⊖ Variable joint quality.
⊖ Easy to burn cord extremities.
⊖ Low chemical resistance of the glue.

HOT JOINTED O-RING WITH MATERIAL ADDITION

⊕ Quite cheap process. Same material for both cord and joint.
⊕ No joint hardening.
⊕ Decent mechanical features of the joint.

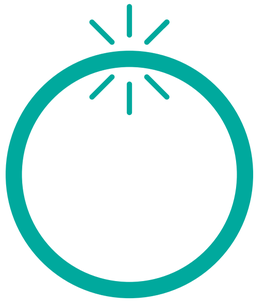
⊖ Variable joint quality.



O-RING FROM INJECTION OR COMPRESSION MOULDING

⊕ Great Tensile Strength, Elongation and Compression Set.
⊕ No chemical resistance limits.
⊕ High quality repeatibility.

⊖ With some materials a darker stripe could be seen around the surface (jointing point of the material into the mould groove).



O-RING FROM ORINGONE'S CO.SM.O PROCESS

⊕ Great Tensile Strength, Elongation and Compression Set (as for traditional moulding).
⊕ No chemical resistance limits.
⊕ High quality repeatibility.

⊖ With some materials a darker stripe could be seen around the surface (jointing point of the material into the mould groove).

flexibility

cross sections

2,62	5,33	7,50	10,82	15,00	24,00
3,00	5,50	8,00	11,00	16,00	25,00
3,50	5,70	8,40	12,00	17,00	26,00
3,53	6,00	8,50	12,70	18,00	28,00
4,00	6,35	9,00	13,00	19,00	30,00
4,50	6,50	9,50	14,00	20,00	40,00
5,00	7,00	10,00	14,40	22,00	60,00

flexibility

length

200,00 mm

as internal diameter for o-rings
1 meter as length for cordone

unlimited

and completely customizable
o-rings diameter

60 meters

as maximum unit length
for cordone (on coils)

flexibility

material

100+

NBR, HNBR, EPDM (S + PX), CR,
FKM, FFKM, AFLAS, VMQ

compliance

AED, FDA, 3A sanitary std,
USP certified materials available

colors

black, blue, brown, green, red
(depending on materials)

precision

tolerance

dimensional

according to ISO 3601-1
(and integration)

surface

according to ISO 3601-3
grade N and S

special

dedicated tools and procedure
for high-vacuum applications

this is what we do

precision

performance

physical

customized
materials

mechanical

as injection or standard
compression molding products

ageing

as injection or standard
compression molding products

this is what we do

precision

quality control

100%
raw material batches check

13+
in-line quality check on each batch

2,26%
internal scrap value (year 2018)

reliability

results

909.150

o-rings sold
(year 2018)

70.190

meters of cordone sold
(year 2018)

0,01%

claimed pieces
(year 2018)