

EFFICIENCY AND
PROFESSIONALISM IN SERVICE
AND INNOVATIVE
TECHNOLOGICAL SYSTEMS

De.ol.
srl
Manufacturer of hydraulic cylinders
and hydraulic components

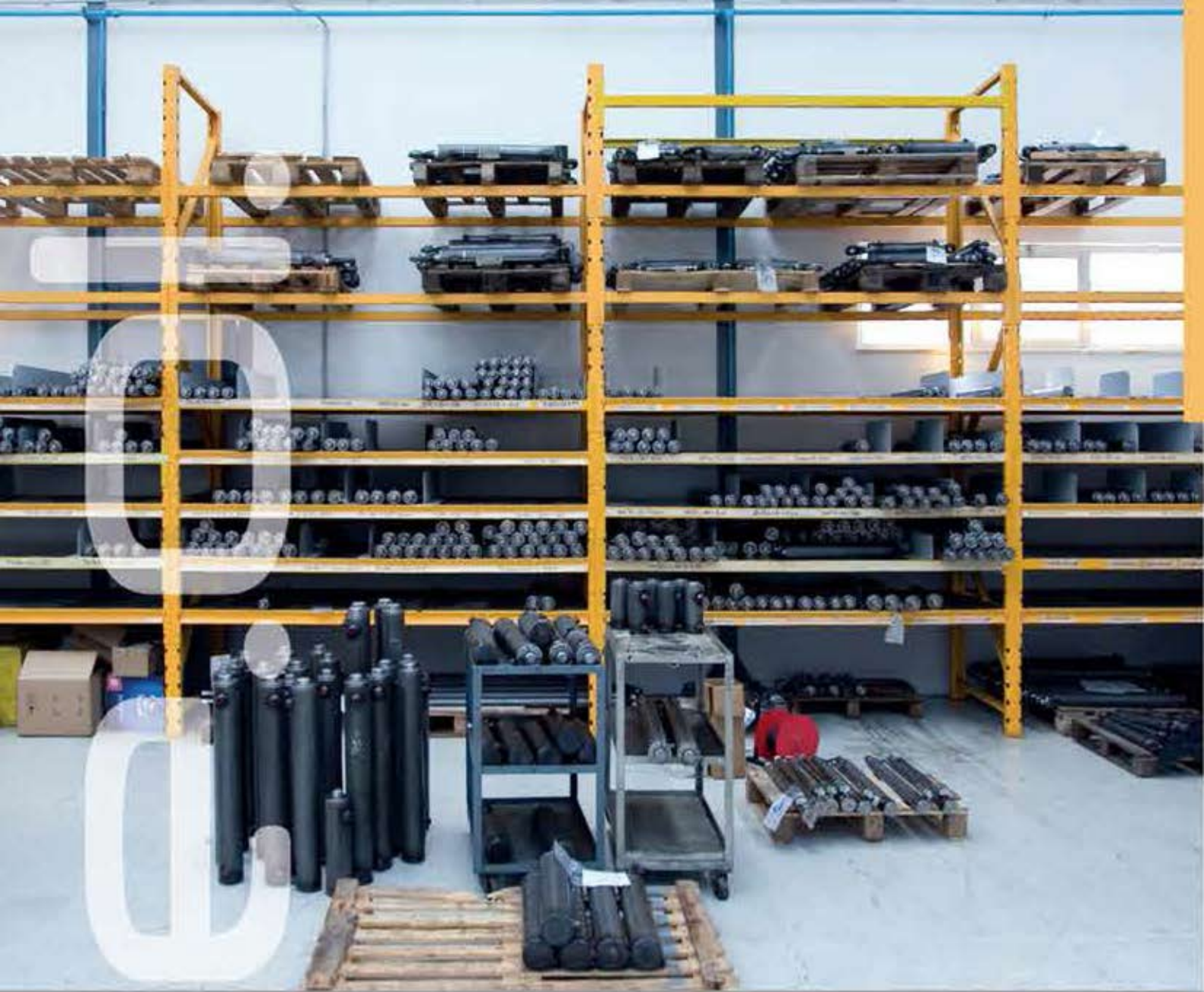
De.ol.

HYDRAULIC CYLINDERS
CYLINDRICAL
CONSTRUCTION

standard cylinders +
customized cylinders +
mechanical components +
integrated valve groups +
electro-hydraulic blocks +

De.ol.





Cylinders & Hydraulic

Who we are

The history of Deol starts with technical and commercial experience of Icosystems srl company manufacturing cylinders and hydraulic power units since 1987.

The production of electro-hydraulic systems sometimes need special cylinders and cartridge valves (made in steel or cast iron whose construction is difficult.

Deol now completes the range of services offered by the Icosystems ruled by new criteria of efficiency and economy to produce special design hydraulic cylinders for customer's design or specifically drawn with modern CAD (Computer Aided Design), even in 3D.



components

DDeol designs and manufactures special hydraulic cylinders and mechanical components (eg valve groups integrated steel blocks ... non-standard) with CNC machines, welding robot and digital test benches.

We develop the final draft in 2D and 3D (each) from a sketch and build internal components with certified equipment, we serialize the finished products after testing for batch traceability of raw materials.

We are capable of projecting high pressure cylinders, with hardened rod, with flanged or cartridge valves, or with proximity sensors or switches. You will acquire skills and savings.

Industry Ecology & construction machines



We produce hydraulic cylinders for excavators, compactors, shredders, power shovels, ect., Also at high pressure. We can provide a fixed or adjustable braking, integrated valves, high-strength materials, or thermal treatments.

Bore: 70 to 300 mm

Max Pressure: 350 / 500 / 700 bar

Temperature: -50°C to +200°C

(with gaskets PTFE + FKM)

Speed: up to 15 m/s

applications



Telescopic cylinders

We develop telescopic cylinders, double and single-acting that can realize any stroke, for machines or with depuration grid equipment.

We have standardized four sizes of double-acting telescopic cylinder with two stages with the following dimensions:

Bore1/Bore2 per Rod

T21: 70/40x25

T22: 80/50x30

T23: 90/60x35

T24: 120/85x60

Max Pressure: 250 bar

Temperature: -25°C +80°C

Speed Limit: 0,5 m/s

We build cylinders forklift, trucks, agricultural machinery, cranes, etc, but mostly CYLINDER STANDARD i.e. without attacks, we maintain a large pool of inventory to be processed or sold exactly. We can make zinc plating or chemical nickel plating.

Bore: 25 to 140 mm

Max Pressure: 250 bar

Temperature: -25°C +80°C

Speed limit: 0,5 m/s



Agriculture & Lifting



BORES
WORKING PRESSURE
PEAK PRESSURE
MAX SPEED
TEMPERATURE

$\varnothing 25 \div 300$
 210 bar
 up to 700 bar
 15 m/s
 $-90^{\circ}\text{C} \div 200^{\circ}\text{C}$

TYPOLGY JUNCTIONS

Rod Side		Back Side
FM MALE END		FM MALE END
SN LOWER BEARING		SN JUNCTION
BO WELDED BUSH		BO WELDED BUSH
FF FEMALE END		FF FEMALE END
OO STANDARD NAKED		OO STANDARD NAKED
PS WELDED PLATE		FE FILETAGE EXTERNAL
AO ATTACK SWING		AO ATTACK SWING
FE EXTERNAL THREAD		PO PIVOT OSCILLATING
FI INTERNAL THREAD		PS BACK PLATE
SF PISTON ROD		FL FLANGES



HOW TO COMPOSE THE DESIGNATION ACRONYM

example *DE 40/50 x 25 x 200 FF-BO 3/8"*

Junctions

DE (Double Effect)	(mm) 25	(mm) 35	(mm) 12	(mm) 100	FM	FM	1/8"
SE (Single Acting)	35	45	16	150	SN	SN	1/4"
TU (Piston)	40	50	20	200	BO	BO	3/8"
TEL (Telescopic)	50	60	25	250	FF	FF	1/2"
	60	70	30	300	FE	PO	3/4"
	70	80	35	350	SF	FL	1"
	80	90	40	400	FI	PS	BSP
	100	95	50	450	OO	OO	
		110	60	500	AO	AO	
		115		550	PS	FE	
				600			
				650			
				700			
				800			
				900			
				1000			
type	bore	external diameter	rod	stroke	attachement rod side	attachement bottom side	oil ports



DEOL srl is a small company that designs and manufactures special hydraulic cylinders and complex components using modern processing CNC machines, computerized robots, and welding equipments, and electronic hydraulic test benches

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