



EJES AGRICOLAS E INDUSTRIALES
Agricultural and Industrial Axles

EJES DIRECCIONALES

Información técnica

Ejes Autodireccionales

Eje Direccional forzado hidráulicamente

Componentes Ejes Direccionales

STEERING AXLES

Technical information

Self Steering Axles

Forced Steering Axles

Steering Axles Components



Thanks to benefits they provide, the steering axles are a good choice for your machines. Its strengths shows when little radius turn manoeuvring is required and on abrasive surface.

The benefits in relation to rigid axles are a less turn radius required, less tyre wear and lower fuel consumption. (Figure 1)

The self-steering axle is designed to follow the movement of the tractor whereas the forced steering axles are provided with a hydraulic system in order to turn the wheels at the same direction and angle that the tractor.

Thanks to the design of the steering axles with the pivot axis advanced in respect of the support point, it made easier the manoeuvring. (Figure 2)

Steering axles, features and benefits:

- Lower tyre wear
- Lower fuel consumption
- Greater manoeuvrability, reduced transport space requirement
- Less transversal strain on the system road and body

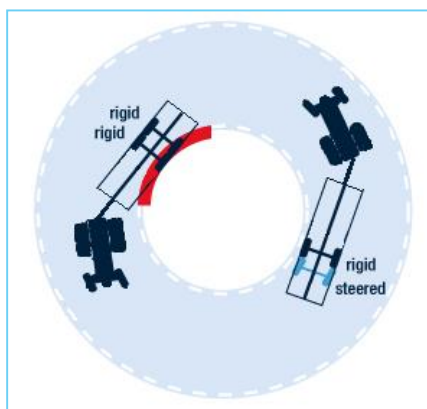


Figura 1. Diferencias en el giro entre eje direccional y rígido
Figure 1. Turn differences between directional and rigid axle

Gracias a los beneficios que aportan, los ejes direccionales son una buena elección para sus máquinas.

Sus fortalezas aparecen cuando se requieren maniobras de giro de poco radio y sobre terreno abrasivo. Los beneficios en relación a los ejes rígidos son, un menor radio de giro requerido, menor desgaste de los neumáticos y el consumo de combustible disminuye. (Figura 1)

Los ejes auto-direccionales están diseñados para seguir el movimiento del tractor mientras que los ejes direccionales forzados están provistos de un sistema hidráulico que hace girar las ruedas en la misma dirección y ángulo que las del tractor.

Gracias al diseño del eje direccional con el eje de giro adelantado respecto al punto de apoyo, se facilita la ejecución de las maniobras. (Figura 2)

Ejes direccionales, ventajas y características:

- Menor desgaste de los neumáticos
- Reducción del consumo de combustible
- Mejor maniobrabilidad, reducción del espacio para giros
- Menores esfuerzos transversales en el sistema de rodaje y chasis

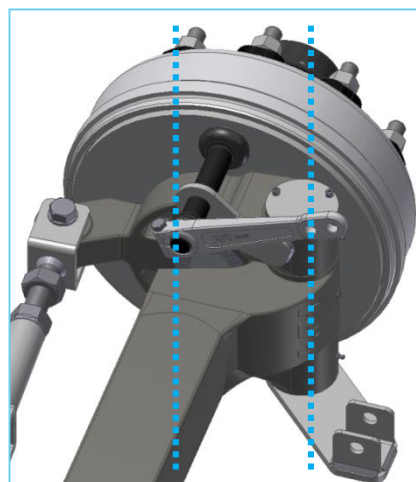
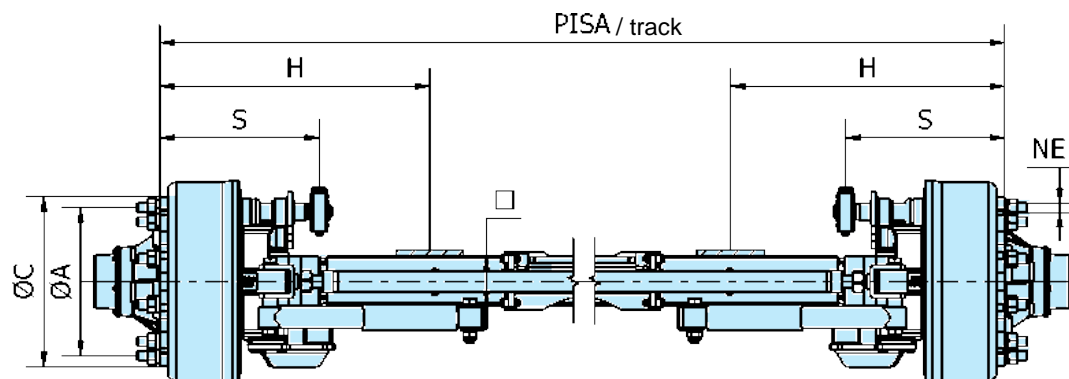
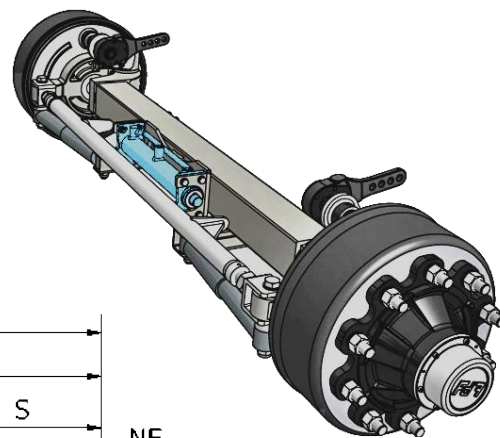





Figura 2. Eje de giro adelantado respecto al punto de apoyo
Figure 2. Pivot axis advanced in respect of the support point



REFERENCIA Reference	CUA. Square  mm	RODAMIENTOS Bearings		ATAQUE Wheel fixing			H mm	S mm	CARGA POR EJE Capacity per axle 40 km/h  kg	CARGA POR EJE Capacity per axle 60 km/h  kg	PESO Weight kg
				$\varnothing A$ mm	$\varnothing C$ mm	NE					

FRENO COMBINADO 350 x 60 / Hub and drum

A090085350-68	90	32214	32217	220	275	8 x M20	400	300	9500	8500	327,0 (Pisa=1800)
A100085350-68	100	32214	32217	220	275	8 x M20	400	300	9500	8500	349,0 (Pisa=1800)
A100090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	371,0 (Pisa=2000)
A110090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	393,0 (Pisa=2000)

FRENO COMBINADO 400 x 80 / Hub and drum

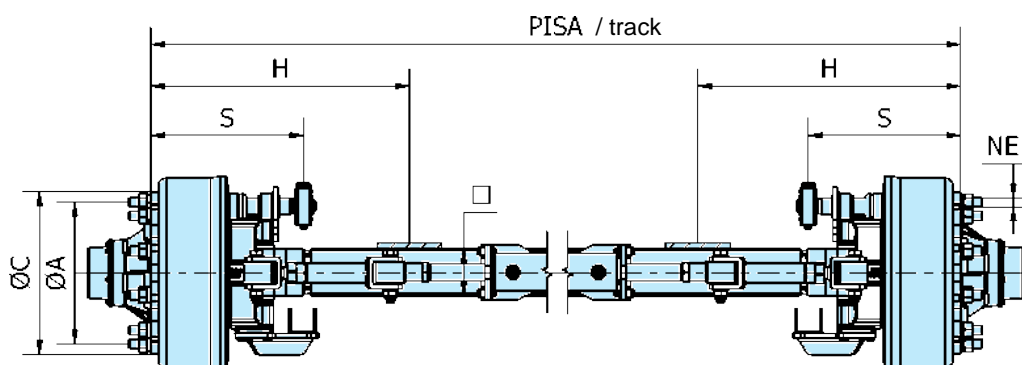
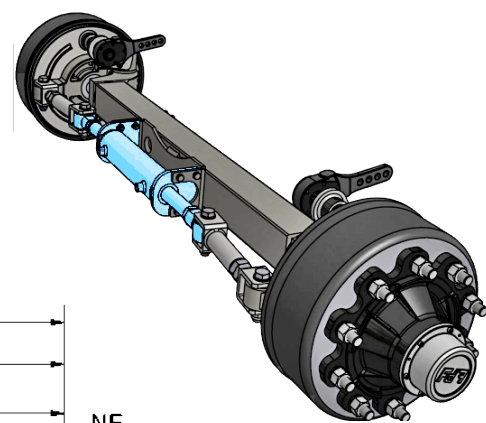
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A090085400-89	90	32214	32217	280	335	10 x M22	400	320	9500	8500	329,0 (Pisa=1800)
A100085400-88	100	32214	32217	220	275	8 x M20	400	320	9500	8500	343,0 (Pisa=1800)
A100085400-89	100	32214	32217	280	335	10 x M22	400	320	9500	8500	357,0 (Pisa=1800)
A100090400-88	100	33215	33118	220	275	8 x M20	400	320	11000	10000	371,0 (Pisa=1800)
A100090400-89	100	33215	33118	280	335	10 x M22	400	320	11000	10000	385,0 (Pisa=1800)
A110090400-88	110	33215	33118	220	275	8 x M20	400	320	11000	10000	399,0 (Pisa=1800)
A110090400-89	110	33215	33118	280	335	10 x M22	400	320	11000	10000	413,0 (Pisa=1800)

FRENO COMBINADO 406 x 120 (SEMI-INDUSTRIAL) / Hub and drum

A100090406-29	100	33215	33118	280	335	10 x M22	400	360	11000	10000	415,0 (Pisa=1800)
A110090406-29	110	33215	33118	280	335	10 x M22	400	360	11000	10000	445,0 (Pisa=1800)
A120090406-29	120	33215	33118	280	335	10 x M22	400	360	11000	10000	351,0 (Pisa=1800)

FRENO COMBINADO 420 x 180 (INDUSTRIAL) / Hub and drum

A150090420-89	150	33215	33118	280	335	10 x M22	400	360	13000	12000	480,0 (Pisa=1900)
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REFERENCIA Reference	CUA. Square mm	RODAMIENTOS Bearings		ATAQUE Wheel fixing			H mm	S mm	CARGA POR EJE Capacity per axle		PESO Weight kg
				ØA mm	ØC mm	NE			40 km/h kg	60 km/h kg	

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D090085350-68	90	32214	32217	220	275	8 x M20	400	300	9500	8500	327,0 (Pisa=1800)
D100085350-68	100	32214	32217	220	275	8 x M20	400	300	9500	8500	349,0 (Pisa=1800)
D100090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	371,0 (Pisa=1800)
D110090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	393,0 (Pisa=1800)

FRENO COMBINADO 400 x 80 / Hub and drum

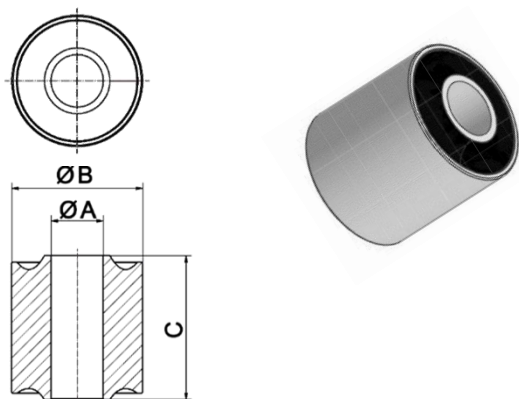
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D100085400-88	100	32214	32217	220	275	8 x M20	400	320	9500	8500	343,0 (Pisa=1800)
D100085400-89	100	32214	32217	280	335	10 x M22	400	320	9500	8500	357,0 (Pisa=1800)
D100090400-88	100	33215	33118	220	275	8 x M20	400	320	11000	10000	371,0 (Pisa=1800)
D100090400-89	100	33215	33118	280	335	10 x M22	400	320	11000	10000	385,0 (Pisa=1800)
D110090400-88	110	33215	33118	220	275	8 x M20	400	320	11000	10000	399,0 (Pisa=1800)
D110090400-89	110	33215	33118	280	335	10 x M22	400	320	11000	10000	413,0 (Pisa=1800)

FRENO COMBINADO 406 x 120 / Hub and drum

D100090406-29	100	33215	33118	280	335	10 x M22	400	360	11000	10000	415,0 (Pisa=1800)
D110090406-29	110	33215	33118	280	335	10 x M22	400	360	11000	10000	445,0 (Pisa=1800)
D120090406-29	120	33215	33118	280	335	10 x M22	400	360	11000	10000	351,0 (Pisa=1800)

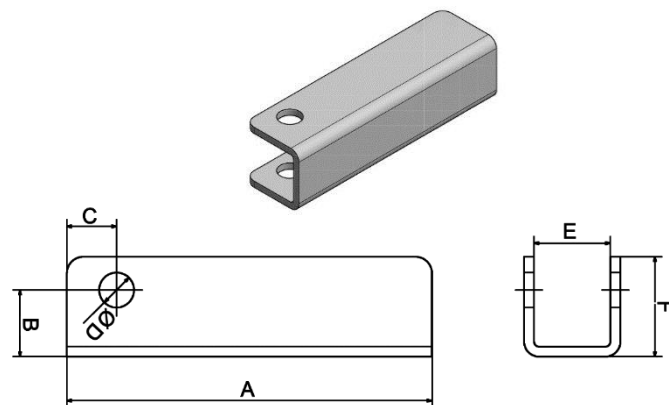
FRENO COMBINADO 420 x 180 (INDUSTRIAL) / Hub and drum

D150090420-89	150	33215	33118	280	335	10 x M22	400	360	13000	12000	480,0 (Pisa=1900)
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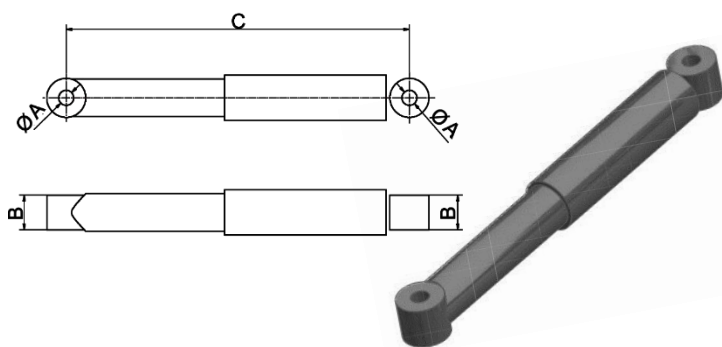
Articulación Elástica / Shock Absorber Joint

Referencia	Dimensiones (dimensions)		
Reference	ØA	ØB	C
P.99.205050	20	50	55



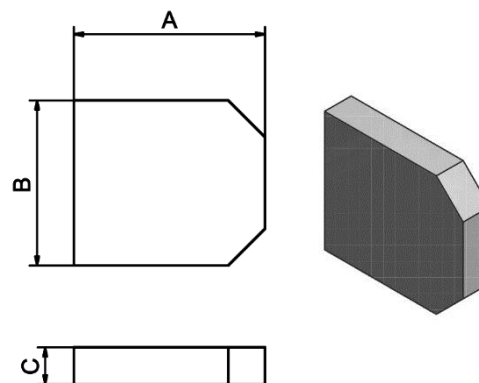
SopORTE Amortiguador / Shock Absorber Support

Referencia	Dimensiones (dimensions)					
Reference	A	B	C	ØD	E	F
D.A0.X07.00	220	30	40	21	46	60



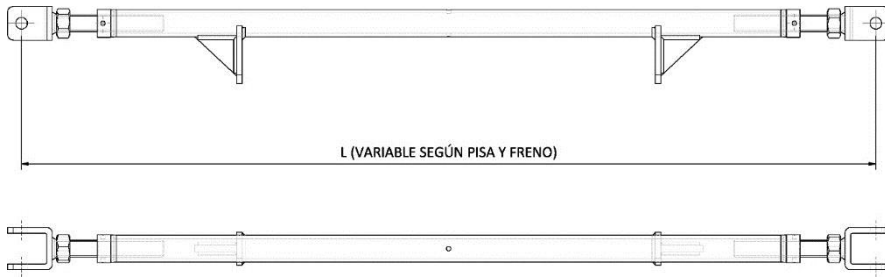
Amortiguador / Shock Absorber

Referencia	Dimensiones (dimensions)		
Reference	ØA	B	C
P.99.32.752550	20	46	457



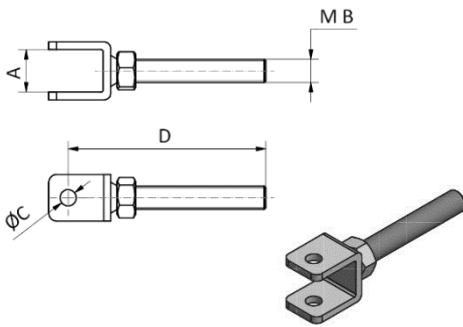
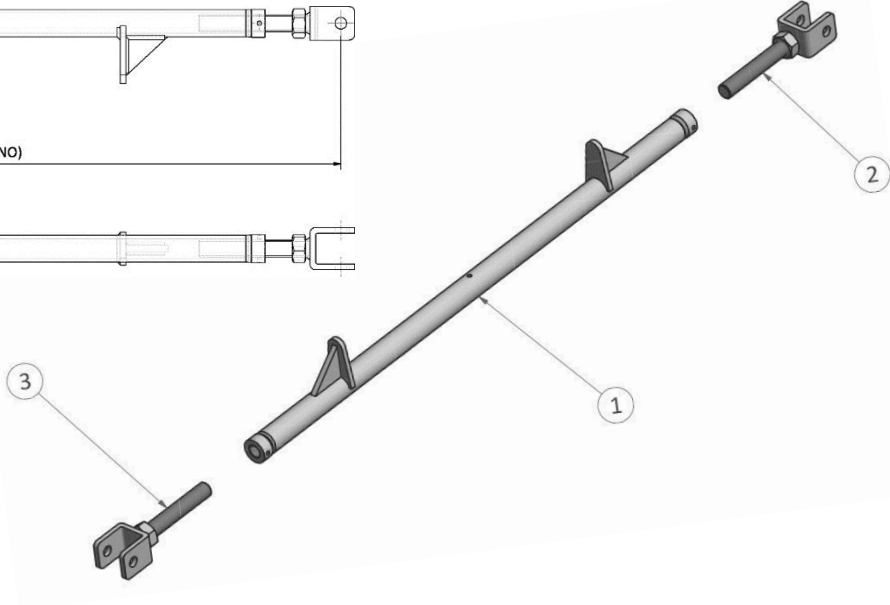
Refuerzo SopORTE Amortiguador / Shock Absorber Reinforcement

Referencia	Dimensiones (dimensions)		
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D.A0.X07.01	52	45	10



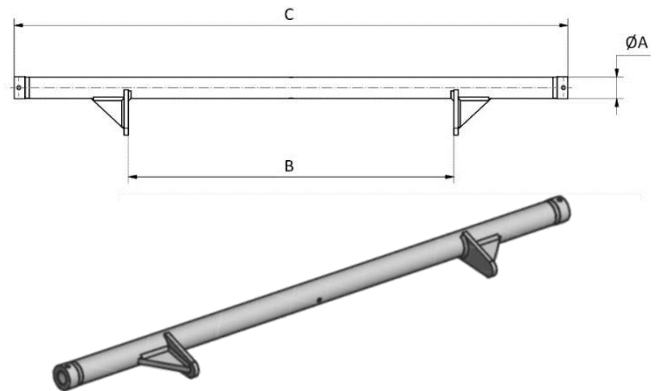
Barra de Transmisión / Bar Transmission

Posición Position	Referencia Reference
1	D.A0.XS3.LD.000
2	D.A0.XS3.RI.000
3	D.A0.XS3.LI.000



Espiga / Screwed Bar

Referencia Reference	Dimensiones (dimensions)			
	A	B	ØC	D
D.A0.XS3.RI.000	55	30 (dchas)	21	255
D.A0.XS3.LI.000	55	30 (izdas)	21	255

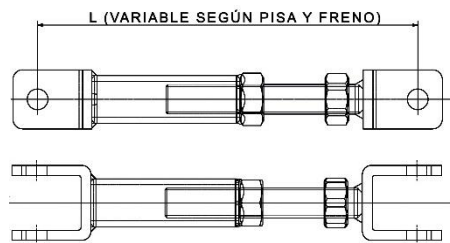
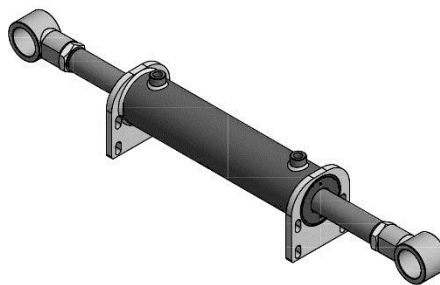
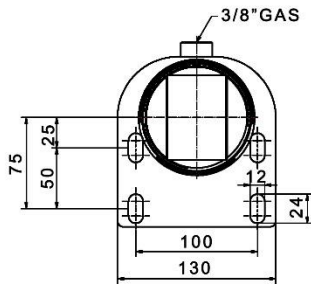
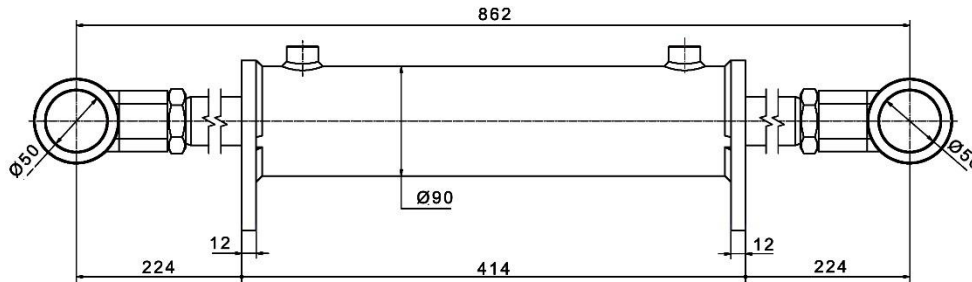


Cuerpo Central / Main Body

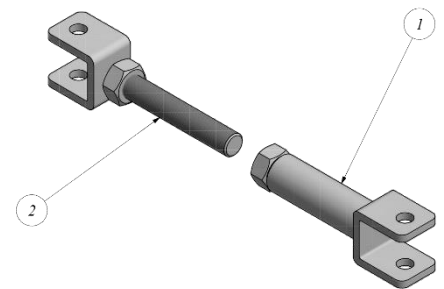
Referencia Reference	Dimensiones (dimensions)		
	ØA	B	C
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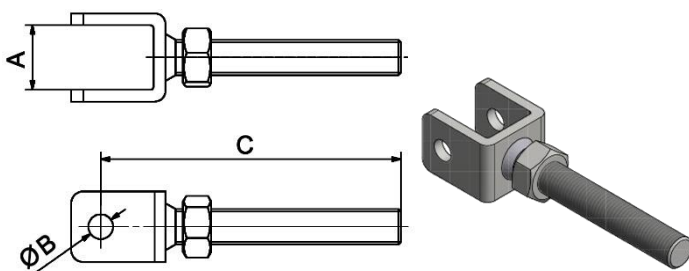
Cilindro Comandado/ Forced Steering Cylinder



Barra de Transmisión / Transmission Bar

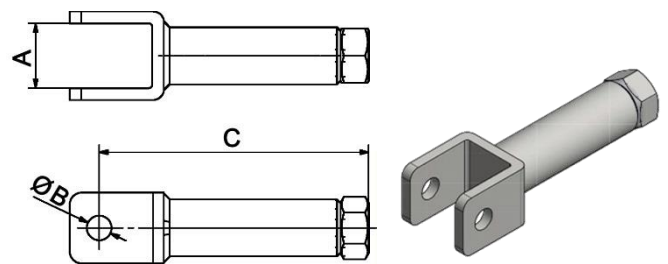


Posición Position	Referencia Reference
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2	D.C0.XS3.LI.000



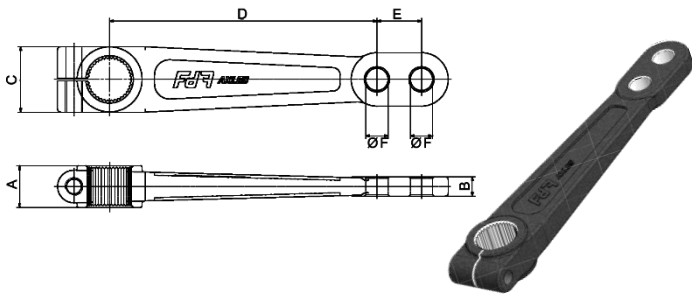
Espiga / Screwed Bar

Referencia Reference	Dimensiones (dimensions)		
	A	ØB	C
D.C0.XS3.LI.00	55	21	255



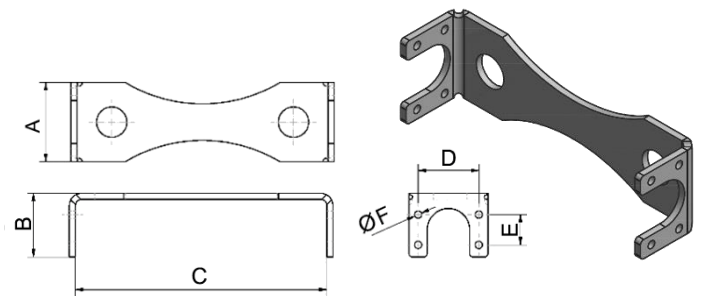
Cuerpo Fijo / Main Body

Referencia Reference	Dimensiones (dimensions)		
	A	ØB	C
D.C0.XS3.LD.00	55	21	Variable según pisa y freno



Palanca de Freno / Brake Lever

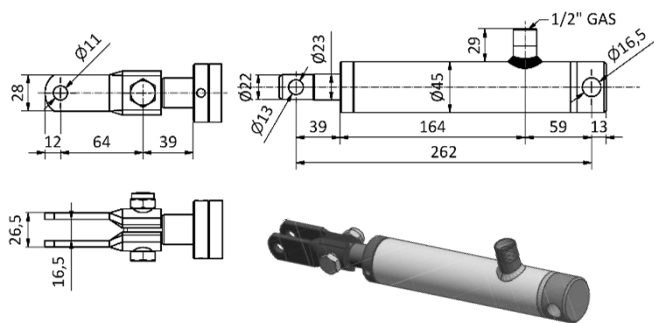
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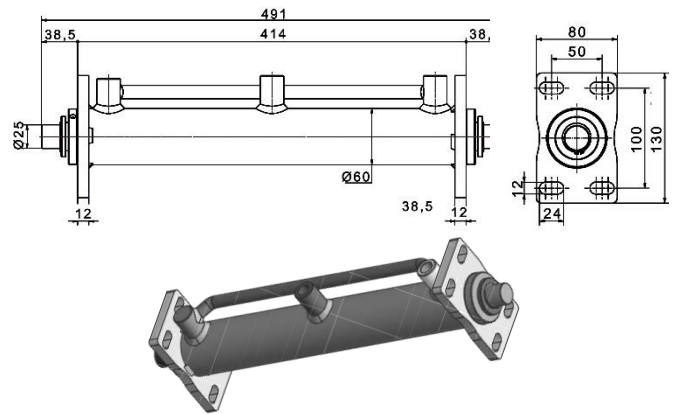
Soporte Cilindro / Cylinder Support

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D.00.X18.01	130	105	414	100	50	12

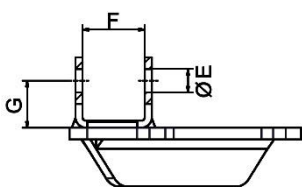
Cilindro de Freno / Brake Cylinder



Cilindro de Bloqueo / Block Cylinder



Soporte Cilindro de Freno / Brake Cylinder Support



Izquierdo / Left

D.00.XS4.LI.000

Referencia	Dimensiones (dimensions)						
Reference	ØA	B	C	ØD	ØE	F	G
D.00.XS4.LD.000	76	116	117	7	20	53	40
D.00.XS4.LI.000							

Derecho / Right

D.00.XS4.LD.000

