

EDBRO TIPPING HOISTS



PRE 2010 CS Series - Lifting Brackets & Mounting Feet

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Providing hydraulics

to the tipping industry since 1916

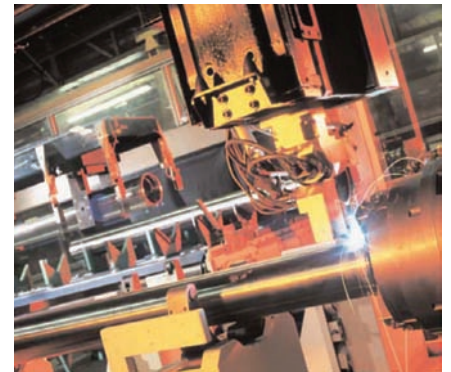
Since developing the first hydraulic tipping gear in 1916, Edbro has maintained its technological supremacy by continuous research and development. Laser welding is the most recent advance in manufacturing to be employed by Edbro. The Edbro range of cylinders is the lightest and most durable range of telescopic cylinders in the world, providing a true "fit and forget" solution to tipping applications.

Edbro Cylinders

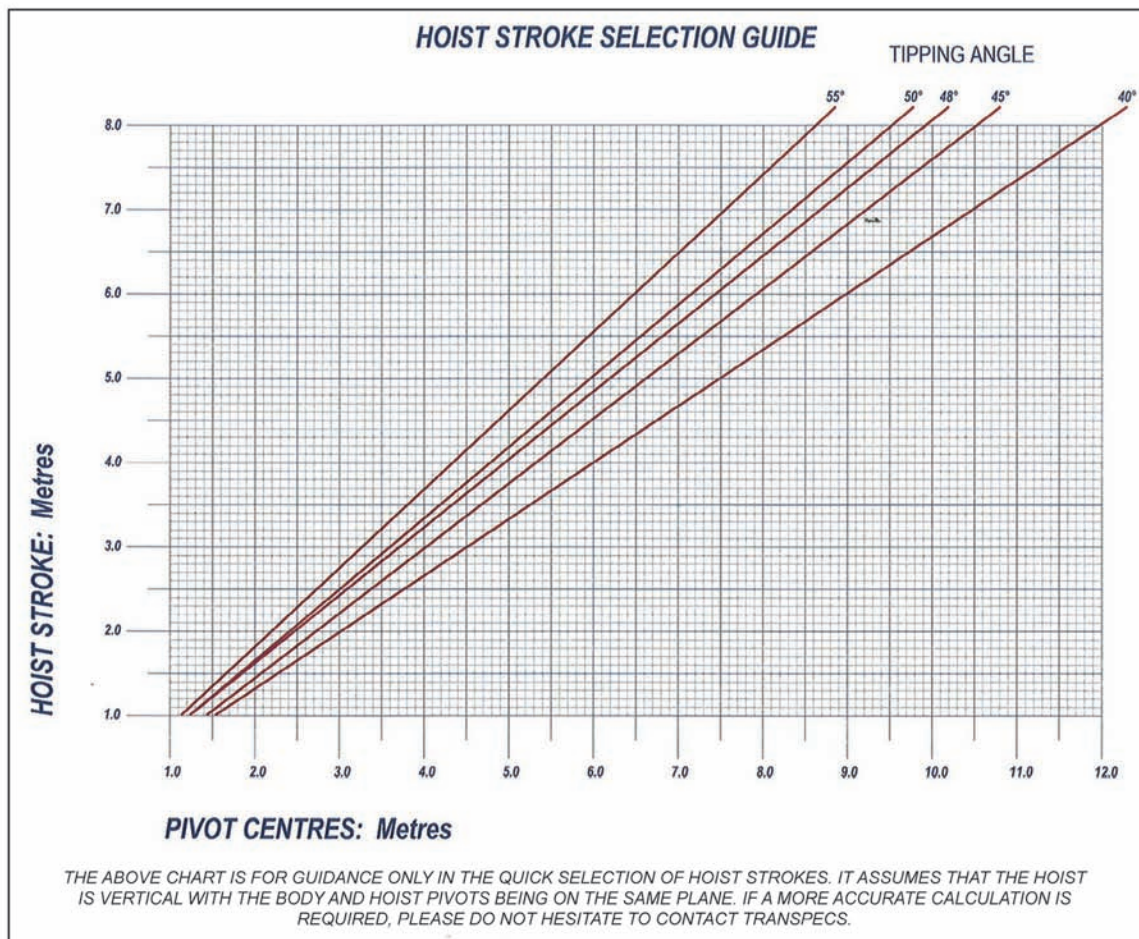
Edbro have extensive experience in the design and manufacture of cylinders, the CS series of cylinders includes a wide selection of mounting options. Using the same basic cylinder technology Edbro also offers a range of combined cylinder and tanks; the CX range. The CX offers a neat and lightweight solution for rigid chassis. Edbro also offer a range of underbody cylinders with information available on request from Transpecs.

Quality

Extensive on-line quality control systems are employed throughout the manufacturing process to ensure a "fit and forget cylinder" is produced every time. Edbro cylinders are subjected to a final production test at well above working pressure.



Hoist Stroke Selection Chart



"Quick Calculation Tipper Guide"

To calculate tipping angle -

$$\frac{\text{Hoist Stroke}}{\text{Pivot Centres}} \times 59 = \text{Tip Angle}$$

Example: $\frac{3450}{4100} \times 59 = 49.6^\circ$

TO CALCULATE PIVOT CENTRES -

Pivot Centres = Hoist Stroke x 1.32
FOR 45° TIP ANGLE

Pivot Centres = Hoist Stroke x 1.25
FOR 47.5° TIP ANGLE

Pivot Centres = Hoist Stroke x 1.19
FOR 50° TIP ANGLE

TO CALCULATE HOIST STROKE -

Hoist Stroke = Pivot Centres x 0.76
GIVES A 45° ANGLE TIP

Hoist Stroke = Pivot Centres x 0.80
GIVES A 47.5° ANGLE TIP

Hoist Stroke = Pivot Centres x 0.84
GIVES A 50° ANGLE TIP

HELPFUL CONVERSIONS

1 PSI	=	0.006897 Megapascal
1 US Gallon	=	3.79 Litres
1 Bar	=	14.50PSI
1 Bar	=	.1Mpa
1 Horsepower	=	0.745700 Kilowatts

Cross Reference Chart

CS18

Old TSL Part No	Old Supplier No	New TSL Part No	New Supplier No
-	-	NCS180E823	CS180E8233S70A01C

NEW

CS17

Old TSL Part No	Old Supplier No	New TSL Part No	New Supplier No
CS170E573	CS170E505733A102	NCS170E573	CS170E55733B19A01C
CS170E673	CS170E506733A102	NCS170E673	CS170E56733B19A01C
CS170O673	CS170O506733A102	NCS170O673	CS170O56733B19A11C

CS15

Old TSL Part No	Old Supplier No	New TSL Part No	New Supplier No
CS150E477	CS150E504778A102	NCS150E477	CS150E54778B19A01C
CS150E540	CS150E405406A102	NCS150E540	CS150E45406B19A01C
CS150E577	CS150E505778A102	NCS150E577	CS150E55778B19A01C
CS150O540	CS150O405406A102	NCS150O540	CS150O45406B19A11C
CS150O652	CS150O506527A382	NCS150O652	CS150O56527B19F21C

CS13

Old TSL Part No	Old Supplier No	New TSL Part No	New Supplier No
CS130E346	CS130E303469A102	NCS130E346	CS130E33469B19A01C
-	-	NCS130E384	CS130E43841B19A01C
CS130E424	CS130E404241A102	NCS130E424	CS130E44241B19A01C
CS130E464	CS130E404641A102	NCS130E464	CS130E44641B19A01C
CS130E504	CS130E405041A102	NCS130E504	CS130E45041B19A01C
CS130E544	CS130E405441A102	NCS130E544	CS130E45441B19A01C
CS130O407	CS130O504068A102	NCS130O407	CS130O54068B19A11C
CS130O457	CS130O504568A102	NCS130O457	CS130O54568B19A11C
CS130O464	CS130O404641A102	NCS130O464	CS130O44641B19A11C
CS130O504	CS130O405041A102	NCS130O504	CS130O45041B19A11C
CS130O544	CS130O405441A381	NCS130O544	CS130O45441B19A21C

NEW

Old to New Kit Reference

New CS18

Part No	Description	QTY	Weight	
RBNC180E823	Ram & Bracket Kit New CS			
NCS180E823	RAM 5 STAGE New CS	1	320.49	
OMK1	Pivot Pin & Plate New CS	1	5	
18070B60	Foot Mounting Bkt New CS	2	12	
GN1	1/8BSP GREASE NIPPLE	3	0	
			337.49	Total

Old CS17

Part No	Description	QTY
RBCS170E573	CS RAM AND BRACKET KIT	
6605	TRUNNION FEET CS17	2
EB52	BRACKET ASSY 52mm	1
GN1	1/8BSP GREASE NIPPLE	4
CS170E573	RAM 5 STAGE TRUNNION BASE	1

New CS17

Part No	Description	QTY	Weight	
RBNC170E573	Ram & Bracket Kit New CS			
NCS170E573	RAM 5 STAGE New CS	1	209.58	
OMK1	Pivot Pin & Plate New CS	1	5	
18070B60	Foot Mounting Bkt New CS	2	12	
GN1	1/8BSP GREASE NIPPLE	3	0	
			226.58	Total

Part No	Description	QTY
RBCS170E673	CS RAM AND BRACKET KIT	
6605	TRUNNION FEET CS17	2
EB52	BRACKET ASSY 52mm	1
GN1	1/8BSP GREASE NIPPLE	4
CS170E673	RAM 5 STAGE TRUNNION BASE	1

Part No	Description	QTY	Weight	
RBNC170E673	Ram & Bracket Kit New CS			
NCS170E673	RAM 5 STAGE New CS	1	234.56	
18070B60	Foot Mounting Bkt New CS	2	12	
OMK1	Pivot Pin & Plate New CS	1	5	
GN1	1/8BSP GREASE NIPPLE	3	0	
			251.56	Total

Part No	Description	QTY
RBCS170O673	CS RAM AND BRACKET KIT	
6605	TRUNNION FEET CS17	2
EBF624	BRACKET LIFTING 6DC-7DC	1
EBF625	BRACKET LIFTING 6DC-7DC	1
GN1	1/8BSP GREASE NIPPLE	4
CS170O673	CS EDBRO RAM	1

Part No	Description	QTY	Weight	
RBNC170O673	Ram & Bracket Kit New CS			
NCS170O673	RAM 5 STAGE New CS	1	312.23	
18070B60	Foot Mounting Bkt New CS	2	12	
LB100	LIFTING BRACKET LH CS15/1 7	1	10	
LB101	LIFTING BRACKET RH CS15/1 7	1	10	
GN1	1/8BSP GREASE NIPPLE	4	0	
			344.23	Total

Old CS15

Part No	Description	QTY
RBCS150E477	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS150E477	RAM 5 STAGE low height	1

New CS15

Part No	Description	QTY	Weight	
RBNC150E477	Ram & Bracket Kit New CS			
NCS150E477	RAM 5 STAGE New CS	1	146.95	
OMK1	Pivot Pin & Plate New CS	1	5	
15150B60	CS15 MOUNTING FOOT	2	21.2	
GN1	1/8BSP GREASE NIPPLE	3	0	
			173.15	Total

RBCS150E477H New ram not yet available

Part No	Description	QTY
RBCS150E540	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS150E540	RAM 4 STAGE TRUNNION BASE	1

Part No	Description	QTY	Weight	
RBNC150E540	Ram & Bracket Kit New CS			
NCS150E540	RAM 4 STAGE New CS	1	179.24	
OMK1	Pivot Pin & Plate New CS	1	5	
15150B60	CS15 MOUNTING FOOT	2	21.2	
GN1	1/8BSP GREASE NIPPLE	3	0	
			205.44	Total

RBCS150E540H New ram not yet available

Part No	Description	QTY
RBCS150E577	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS150E577	RAM 5 STAGE TRUNNION BASE	1

Part No	Description	QTY	Weight	
RBNC150E577	Ram & Bracket Kit New CS			
NCS150E577	RAM 5 STAGE New CS	1	167.16	
OMK1	Pivot Pin & Plate New CS	1	5	
15150B60	CS15 MOUNTING FOOT	2	21.2	
GN1	1/8BSP GREASE NIPPLE	3	0	
			193.36	Total

Part No	Description	QTY
RBCS150O540	CS RAM AND BRACKET KIT	
EBF624	BRACKET LIFTING 6DC-7DC	1
EBF625	BRACKET LIFTING 6DC-7DC	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	4
CS150O540	CS EDBRO RAM	1

Part No	Description	QTY	Weight	
RBNC150O540	Ram & Bracket Kit New CS			
NCS150O540	RAM 4 STAGE New CS	1	243.08	
15150B60	CS15 MOUNTING FOOT	2	21.2	
LB100	LIFTING BRACKET LH CS15/1 7	1	10	
LB101	LIFTING BRACKET RH CS15/1 7	1	10	
GN1	1/8BSP GREASE NIPPLE	4	0	
			284.28	Total

Part No	Description	QTY
RBCS150O652	CS RAM AND BRACKET KIT	
EBF624	BRACKET LIFTING 6DC-7DC	1
EBF625	BRACKET LIFTING 6DC-7DC	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	4
CS150O652	RAM 5 STAGE TRUNION BASE	1

Part No	Description	QTY	Weight	
RBNC150O652	Ram & Bracket Kit New CS			
NCS150O652	RAM 5 STAGE New CS	1	249.59	
15150B60	CS15 MOUNTING FOOT	2	21.2	
LB100	LIFTING BRACKET LH CS15/1 7	1	10	
LB101	LIFTING BRACKET RH CS15/1 7	1	10	
GN1	1/8BSP GREASE NIPPLE	4	0	
			290.79	Total

Old to New Kit Reference

Old CS13

RBCS13EE324 **New ram not yet available**

RBCS13OE346	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS13OE346	RAM 3 STAGE TRUNNION BASE	1

New CS13

RBNCS13OE346	Ram & Bracket Kit New CS	QTY	Weight	
OMK1	Pivot Pin & Plate New CS	1	5	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	3	0	
NCS13OE346	RAM 3 STAGE New CS	1	112.64	
			131.64	Total

RBCS13OE346H **New ram not yet available**

RBNCS13OE384	Ram & Bracket Kit New CS	QTY	Weight	
OMK1	Pivot Pin & Plate New CS	1	5	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	3	0	
NCS13OE384	RAM 3 STAGE New CS	1	111.08	
			130.08	Total

RBCS13OE424	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS13OE424	RAM 4 STAGE TRUNNION BASE	1

RBNCS13OE424	Ram & Bracket Kit New CS	QTY	Weight	
OMK1	Pivot Pin & Plate New CS	1	5	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	3	0	
NCS13OE424	RAM 4 STAGE New CS	1	111.08	
			130.08	Total

RBCS13OE464	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS13OE464	RAM 4 STAGE TRUNNION BASE	1

RBNCS13OE464	Ram & Bracket Kit New CS	QTY	Weight	
OMK1	Pivot Pin & Plate New CS	1	5	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	3	0	
NCS13OE464	RAM 4 STAGE New CS	1	119.21	
			138.21	Total

RBCS13OE464H **New ram not yet available**

RBCS13OE504	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS13OE504	RAM 4 STAGE TRUNNION BASE	1

RBNCS13OE504	Ram & Bracket Kit New CS	QTY	Weight	
OMK1	Pivot Pin & Plate New CS	1	5	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	3	0	
NCS13OE504	RAM 4 STAGE New CS	1	126.58	
			145.58	Total

RBCS13OE504H **New ram not yet available**

RBCS13OE544	CS RAM AND BRACKET KIT	
EB52	BRACKET ASSY 52mm	1
GA2	CS15 MOUNTING FOOT	2
GN1	1/8BSP GREASE NIPPLE	2
CS13OE544	RAM 4 STAGE TRUNNION BASE	1

RBNCS13OE544	Ram & Bracket Kit New CS	QTY	Weight	
OMK1	Pivot Pin & Plate New CS	1	5	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	3	0	
NCS13OE544	RAM 4 STAGE New CS	1	133.95	
			152.95	Total

RBCS13OO407	CS RAM AND BRACKET KIT	
EB2405D	BRACKET LIFTING 5D	1
EB2415D	BRACKET LIFTING 5D	1
GA1/58	TRUNNION FOOT CS11	2
GN1	1/8BSP GREASE NIPPLE	4
CS13OO407	CS13 V LOW HEIGHT IND OUC	1

RBNCS13OO407	Ram & Bracket Kit New CS	QTY	Weight	
LB108	LIFTING BRACKET LH CS13	1	7	
LB109	LIFTING BRACKET RH CS13	1	7	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	4	0	
NCS15OO407	RAM 5 STAGE New CS	1	143.97	
			171.97	Total

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Old to New Kit Reference

Old CS13 continued ...

RBCS1300457	CS RAM AND BRACKET KIT	
EB2405D	BRACKET LIFTING 5D	1
EB2415D	BRACKET LIFTING 5D	1
GA1/58	TRUNNION FOOT CS11	2
GN1	1/8BSP GREASE NIPPLE	4
CS1300457	CS13 VERY LOW HEIGHT IND OUC	1

New CS13 continued ...

RBNC1300457	Ram & Bracket Kit New CS	QTY	Weight	
LB108	LIFTING BRACKET LH CS13	1	7	
LB109	LIFTING BRACKET RH CS13	1	7	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	4	0	
NCS1500457	RAM 5 STAGE New CS	1	154	
			182	Total

RBCS1300464	CS RAM AND BRACKET KIT	
EB2405D	BRACKET LIFTING 5D	1
EB2415D	BRACKET LIFTING 5D	1
GA1/58	TRUNNION FOOT CS11	2
GN1	1/8BSP GREASE NIPPLE	4
CS1300464	RAM 4 STAGE INDEPENDENT OUC	1

RBNC1300464	Ram & Bracket Kit New CS	QTY	Weight	
LB108	LIFTING BRACKET LH CS13	1	7	
LB109	LIFTING BRACKET RH CS13	1	7	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	4	0	
NCS1500464	RAM 4 STAGE New CS	1	167.87	
			195.87	Total

RBCS1300504	CS RAM AND BRACKET KIT	
EB2405D	BRACKET LIFTING 5D	1
EB2415D	BRACKET LIFTING 5D	1
GA1/58	TRUNNION FOOT CS11	2
GN1	1/8BSP GREASE NIPPLE	4
CS1300504	RAM 4 STAGE INDEPENDENT OUC	1

RBNC1300504	Ram & Bracket Kit New CS	QTY	Weight	
LB108	LIFTING BRACKET LH CS13	1	7	
LB109	LIFTING BRACKET RH CS13	1	7	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	4	0	
NCS1500504	RAM 4 STAGE New CS	1	176.2	
			204.2	Total

RBCS1300544	CS RAM AND BRACKET KIT	
EB2405D	BRACKET LIFTING 5D	1
EB2415D	BRACKET LIFTING 5D	1
GA1/58	TRUNNION FOOT CS11	2
GN1	1/8BSP GREASE NIPPLE	4
CS1300544	RAM 4 STAGE INDEPENDENT OUC	1

RBNC1300544	Ram & Bracket Kit New CS	QTY	Weight	
LB108	LIFTING BRACKET LH CS13	1	7	
LB109	LIFTING BRACKET RH CS13	1	7	
13110B60	CS13 MOUNTING FOOT	2	14	
GN1	1/8BSP GREASE NIPPLE	4	0	
NCS1500544	RAM 4 STAGE New CS	1	182.91	
			210.91	Total

Old CS11

RBCS11	CS RAM AND BRACKET KIT
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New CS11

RBNC11	Ram & Bracket Kit New CS	QTY	Weight
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