

# EURO-BEARINGS LTD

## COMBINED ROLLER BEARINGS & MATING STEEL PROFILES



The axial (side thrust) roller runs on the web of the channel whilst the radial roller (main load) is taken by the flanges of the channel. The axle is made of weldable steel for easy mounting.

For fork lift trucks, overhead cranes, track conveyors and heavy duty linear motion systems...



Available in a range of sizes. Can be used vertically or horizontally & also can be used in telescopic applications.



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Castlethorpe  
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# CONTENTS

	Page(s)
Standard Bearings	3
Eccentric Adjustable Bearings	4,5
Shim Adjustable Bearings	4
Jumbo Bearings	6
Standard Channels (General)	7
Jumbo Channels	8
Radial Bearings	9
Channel Ball Bearings	9
Mounting Plates (General)	10
C Sections - EC053, 2890 & 2867	11
C Sections - 2810, 2811 & 2862	12
C Sections - 2891 & 2757	13
I Sections - 3018 & 3019	14
I Sections - 3020 & 2912	15
I Sections - 3100 & 3353	16
Plates - PL00, PL0 & PL1	17
Plates - PL2, PL3 & PL4	18
Plates - PL6	19
Frequently Asked Questions	20
Selecting the Correct Channel (Hertzian Pressure)	21,22
Worked Example	22
Hertzian Pressure Table	23

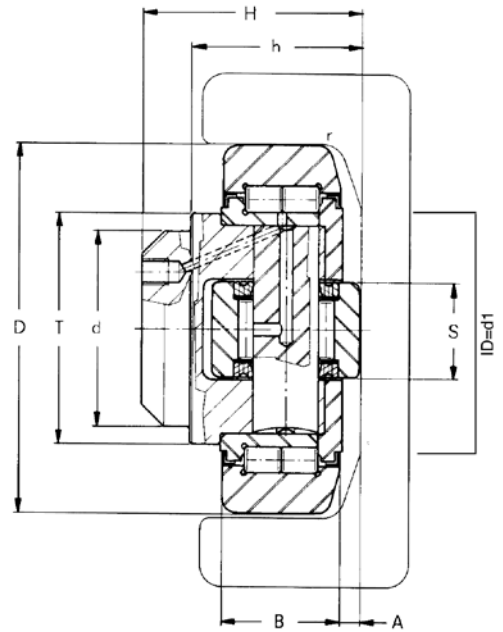
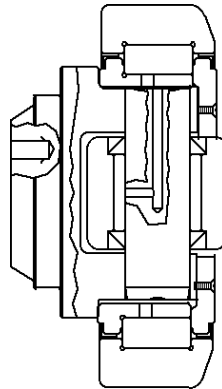
## KEY

- C = Dynamic Load Capacity for radial roller
- Co = Static Load Capacity for radial roller
- Ca = Dynamic Load Capacity for axial (side) roller
- Coa = Static Load Capacity for axial roller

Please note: The data printed in this catalogue is correct, at the time of print, to the best of our knowledge. No liability is taken for any omissions or errors. Euro-Bearings Ltd cannot be held responsible if any products mentioned in this catalogue are used incorrectly.

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## STANDARD COMBINED ROLLER BEARINGS



C = Dynamic Load Capacity for radial roller  
 Co = Static Load Capacity for radial roller  
 Ca = Dynamic Load Capacity for axial (side) roller  
 Coa = Static Load Capacity for axial roller  
 Dr = Alternative OD available on enquiry

BEARING REF	D	T	d	H	h	B	A	S	r	C kN	Co kN	Ca kN	Coa kN	Dr mm	I.D. of radial brg	PROFILE REF	PLATE REF
4.053*	52.5	40	30	33	27	17	2	15	2	24	32	7	7	—	28	EC053	PL 00
4.054*	62	42	30	37.5	30.5	20	2.5	20	3	31	35.5	11.1	11.5	62.4	38	2890	PL 0
4.055*	70.1	48	35	44	36	23	2.5	22	4	45.5	51	14	13	70.7	42	2867 3018	PL 1
4.056	77.7	54	40	48	36.5	23	3	26	4	48	56.8	18	18	78.1-78.5	46	2810	PL 2
4.057	77.7	53	40	40	29	23	3	26	4	48	56.8	18	18	78.1-78.5	46	3019	
4.058	88.4	59	45	57	44	30	3.5	26	3	68	72	23	23	88.9	50	2811 3020	PL 3
4.059	101.2	67	50	46	33	28	3	30	3	73	82	25	27	101.9	58	2912	
4.060	107.7	71	55	54	40	31	3	34	5	81	95	31	36	108.2	63	3100	
4.061	107.7	71	60	69	55	31	4	34	5	81	95	31	36	108.2	63	2862	PL 4
4.062	123	80	60	72.3	56	37	5	40	5	110	132	43	50		71	2891	PL 4
4.063	149	103	60	78.5	58.5	43	5.5	50	3	151	192	68	71		90	2757	PL 6

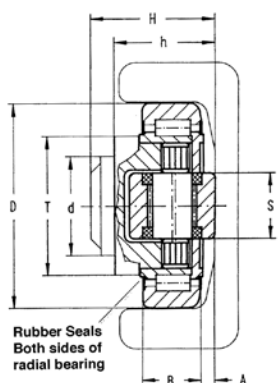
**\* DO NOT HAVE GREASE HOLES**

See page 21 for information on how to select the correct size of bearing & channel using Hertzian Pressure calculations

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

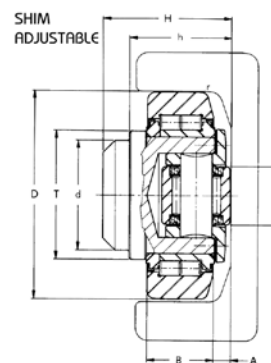
## ECCENTRIC ADJUSTABLE COMBINED BEARINGS

BEARING	D	T	d	H	h	B	A	S	r	C	Co	Ca	Coa	Max	WEIGHT	PROFILE	PLATE
REF	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kN	kN	rpm	kg	REF	REF
4.454	62	42	30	37.5	30.5-32	20	4	20	3	31	35.5	11	11	900	0.53	2890	PL 0
4.455	70.1	48	35	44	36-37.5	23	4	20	4	45	51	18	18	900	0.8	2867	PL 1
4.456	77.7	54	40	48	37.5-38.5	23	3.5	26	4	48	56.8	18	18	800	1	2810	PL 2
4.457	77.7	54	40	40	29-30.5	23	3.5	26	4	48	56.8	18	18	800	0.87	3019	
4.458	88.4	59	45	57	44-45.5	30	4	26	4	68	72	23	23	750	1.62	2811	PL 3
4.459	101.2	69	50	46	33-35	26	4.5	30	3	73	82	25	27	700	1.74	2912	
4.460	107.7	69	55	54	40-42	31	4	30	5	81	95	25	27	650	2.27	3100	
4.461	107.7	69	60	69	55-57	31	4	30	5	81	95	25	27	650	2.82	2862	PL 4
4.462	123	80	60	72.3	56-60	37	4.5	34	5	110	132	31	36	550	3.9	2891	PL 4
4.463	149	108	60	78.5	58.5-62.5	45	6	34	3	151	192	31	36	450	6.5	2757	PL 6



Left: Eccentric Adjustable Combined Bearings

Right: Shim Adjustable Combined Bearings



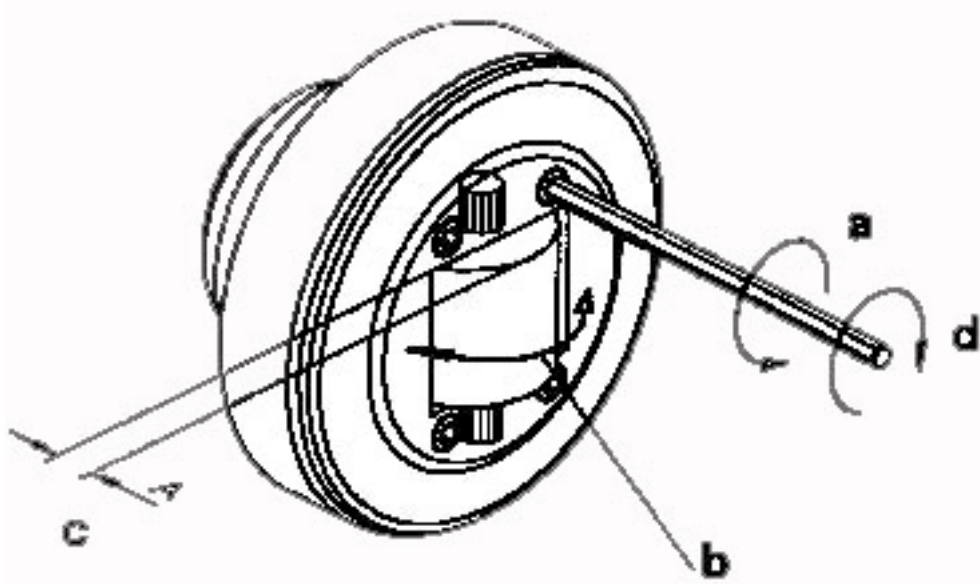
## SHIM ADJUSTABLE COMBINED ROLLER BEARINGS

EURO REF	D	T	d	H	h	B	A	S	r	C	Co	Ca	Coa	Dr	EURO CHANNEL
4.072	62	42	30	43	33	20	5.5	16	3	31	35.5	8	8	62.4	2890
4.073	70.1	48	35	48	40	23	6.5	21	4	45.5	51	14	14	70.7	2867
4.074	77.7	54	40	50.5	39.5	23	7	21	4	48	56.8	14	14	78.1-78.5	2810
4.075	77.7	54	40	45	34	23	7	21	4	48	56.8	14	14	78.1-78.5	3019
4.076	88.4	59	45	61	48	30	7	21	3	68	72	15	15	88.9	2811
4.077	101.2	67	50	50.5	37.5	28	7	21	3	73	82	18	19	101.9	2912
4.078	107.7	71	55	58.5	44.5	31	8	33	5	81	95	31	36	108.2	3100
4.079	123	80	60	75.8	59.5	37	8	33	5	110	132	31	36		2891
4.080	149	103	60	89	69	43	15	50	5	151	192	68	71		2757

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

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## HOW TO ADJUST ECCENTRIC ADJUSTABLE COMBINED BEARINGS

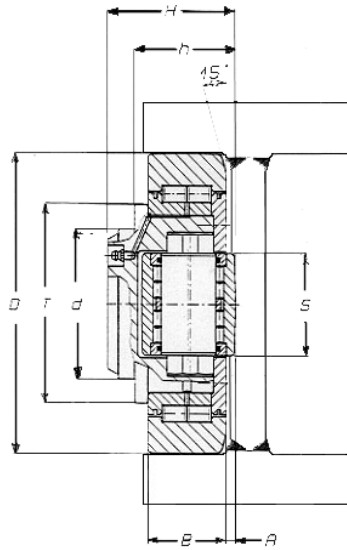


### Adjusting the axial roller position:

- Unscrew the four screws holding the front plate in position
- Rotate the axial bearing to the desired position
- Measure dimension marked 'A' (correlates to column A on preceding page)
- Insert & tighten the four screws holding the front plate in position - use Loctite to secure

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## JUMBO COMBINED ROLLER BEARINGS



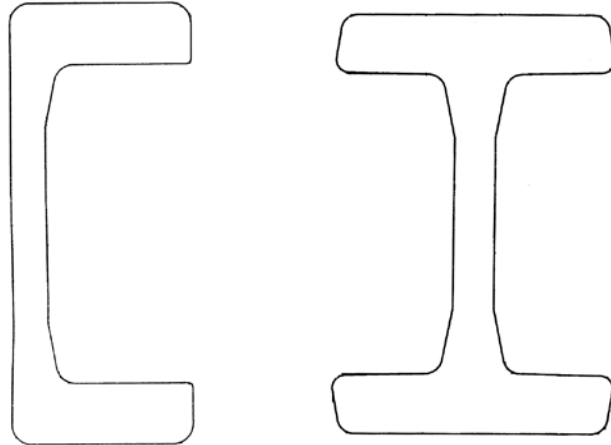
Co = static load rating  
 C = dynamic load rating  
 FC = C section channel  
 FM = I section channel

The side rollers on Jumbo bearings are eccentrically adjustable

PART	D	T	d	H	h min-max	B	A	S	r	Radial	Radial	Axial	Axial	PROFILES
										C kN	Co kN	C kN	Co kN	
4.089	165	113	80	69	53-56	40	5	50 (40)	3	213	388	85 (46)	133 (79)	FC165 & FM165
4.090	190	124	100	84.5	64.5-67.5	48	6.5	60 (40)	4	266	500	100 (46)	180 (79)	FC190 & FM190
4.091	220	146	110	94.5	74.5-77.5	58	6.5	75 (60)	5	326	681	138 (101)	257 (173)	FC 220 & FM 220
4.092	250	168	120	102	77-80	60	7	75 (60)	5	369	748	138 (101)	257 (173)	FC 250 & FM 250
4.093	280	188	150	119.5	89.5-93.5	72	7.5	90 (60)	5	489	1066	182 (101)	488 (173)	FC 280 & FM 280
4.094	320	218	140	135	110-114	85	10	90	8	642	1370	210	422	To order. Please enquire.
4.095	340	240	140	150	120-124	89	10	100	8	735	1600	232	463	To order. Please enquire.
4.096	390	242	170	200	150-154	118	10	100	8	1050	2243	232	463	To order. Please enquire.

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## STANDARD CHANNELS



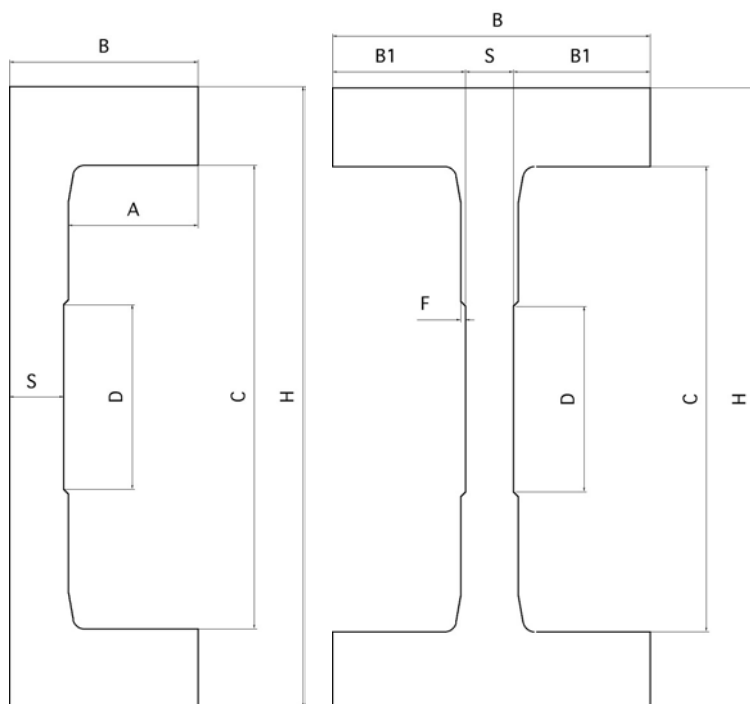
Typical C & I  
Section Shapes

PROFILE REFERENCE	Web Height (mm)	Flange Width (mm)	Channel Height (mm)	Weight/ metre (kg/m)	BEARING REFERENCE	MOUNTING PLATE REF	SECTION SHAPE
EC053	65	30	53	5.2	4.053	PLATE 00	C Section
2890	86.5	36	62.5	10.5	4.054	PLATE 0	C Section
2867	103.2	40	70.8	14.8	4.055	PLATE 1	C Section
3018	98	65	70	19.4	5.055	PLATE 2	I Section
2810	121.3	41	78.7	20.9	4.056	PLATE 2	C Section
3019	113.9	66.1	77.9	25.3	4.057		I Section
2811	135.4	53	89.4	28.6	4.058	PLATE 3	C Section
3020	129.6	81	88.6	34	4.058	PLATE 3	I Section
2912	140.1	69.9	102	31.2	4.059		I Section
3100	152.4	83	108.4	40.8	4.060		I Section
2862	157.2	61.2	108.4	36	4.061	PLATE 4	C Section
2891	175	66.2	123.8	42.8	4.062	PLATE 4	C Section
3353	175	90	123.8	51.4	4.062	PLATE 4	I Section
2757	201.5	71.2	150.1	52.4	4.063	PLATE 6	C Section

DETAILED DRAWINGS OF EACH PROFILE CAN  
BE FOUND LATER IN THE CATALOGUE

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## JUMBO CHANNELS



### C SECTION

PART	C	H	B	S	D	A	Weight (kg/m)	$\epsilon_x$ (mm)	$\epsilon_y$ (mm)	$I_x$ (cm <sup>4</sup> )	$I_y$ (cm <sup>4</sup> )	$W_x$ (cm <sup>3</sup> )	$W_y$ (cm <sup>3</sup> )
FC165	165.4	230	57.5	18	80	38.5	53.3	19.9	115	4410.5	174.6	383.5	87.5
FC190	190.4	255	77	22	80	53	73.7	25.9	127.5	7631.6	434.2	598.6	167.7
FC220	220.4	295	85	20	125	62.5	86.1	29	147.5	12632.7	6720.4	856.4	231.7
FC250	250.4	344	94	26.5	125	65.5	122.8	32.4	172	23371.6	1117.4	1358.8	344.9
FC280	280.4	394	114	26.5	125	85.5	161.85	40.8	157	42473.6	2354.8	2156	577

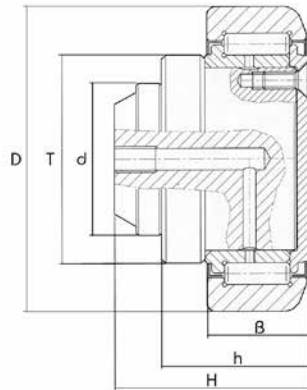
### I SECTION

PART	C	H	B	S	D	B1	F	Weight (kg/m)	$\epsilon_x$ (mm)	$\epsilon_y$ (mm)	$I_x$ (cm <sup>4</sup> )	$I_y$ (cm <sup>4</sup> )	$W_x$ (cm <sup>3</sup> )	$W_y$ (cm <sup>3</sup> )
FM165	165.4	230	95	16	70	39.5	1	72.7	47.5	115	6894	472	600	99
FM190	190.4	255	130	20	70	55	2	100.4	65	127.5	12003	1203	941	185
FM220	220.4	295	150	20	90	65	2	126.3	75	147.5	20991	2119	1423	283
FM250	250.4	345	160	25	90	67.5	2	172.7	80	171.5	37838	3274	2206	409
FM280	280.4	375	190	30	120	80	2	212.8	95	187.5	55163	5492	2942	578



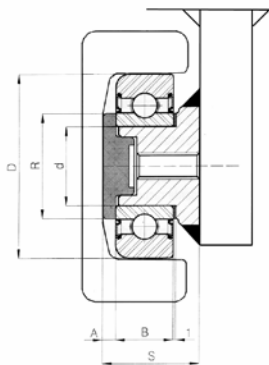
# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## RADIAL BEARINGS



PART	D	T	d	H	h	B	r	C (kN)	Co (kN)
2.2062 RS	62	42	30	36.5	29.5	20	3	39	65
2.2070 RS	70.1	48	35	42	34	23	4	56	93
2.2077 RS	77.7	53	40	45.5	34	23	4	57	101
2.2088 RS	88.4	59	45	54	41	30	4	82	134
2.2107 RS	107.7	71	60	65.5	51.5	31	5	96	174
2.2123 RS	123	80	60	67.8	51.5	37	5	131	243
2.2149 RS	149	103	60	74	54	45	3	183	353

## CHANNEL BALL BEARINGS



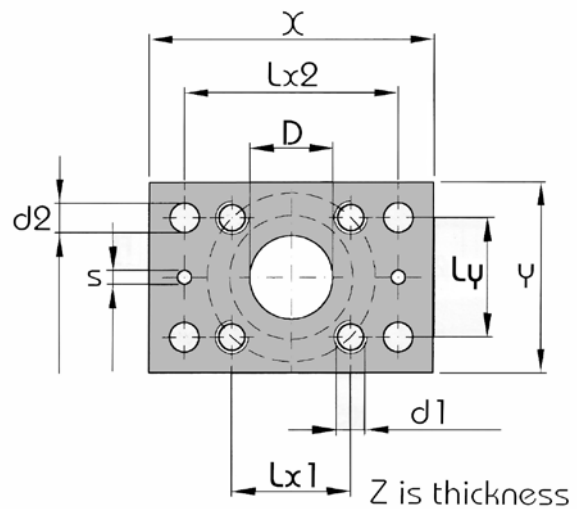
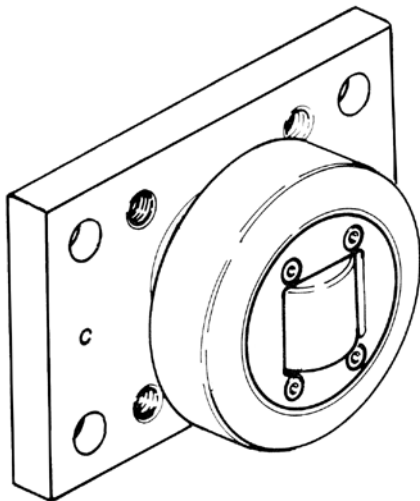
Assembly includes stub axle,  
rubbing block, bearing &  
spacer

Assembly No	Load (kN)	Load Centre (mm)	d (mm)	D (mm)	B (mm)	S (min - max) (mm)	R (mm)	A (mm)	Bearing Part No*	Suits Channel Type:
10001	5 to 8	500	25	62.4	20	31 - 33	32	5	MRS948	2890
10002	10 to 15	500	30	70	22	36 - 38	40	5	MRS901	2867 & 3018
10003	15 to 20	500	30	78	22	36 - 38	40	5	MRS907	2810 & 3019

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES MOUNTING PLATES



PART	BEARING	$\chi$	$\psi$	Z	Lx1	Lx2	L $\psi$	d1	d2	D	s
PL00	4.053	90	50	10	40	70	30	M8	8.5	30	6
PL0	4.054	100	60	10	40	80	40	M10	10.5	30	6
PL1	4.055	120	80	15	50	90	50	M12	12.5	35	6
PL2	4.056	120	80	15	50	90	50	M12	12.5	40	6
PL3	4.058	120	120	20	90	-	90	M16	-	45	-
PL4	4.061 & 4.062	180	120	20	80	140	80	M16	17	60	6
PL6	4.063	200	150	20	80	160	100	M16	17	60	6



# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

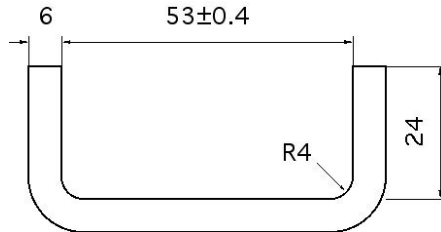
C Sections: EC053, 2890 & 2867

EURO REF: EC053

Weight: 5.2 kg/m

$W_x$ : 11.9cm<sup>3</sup>

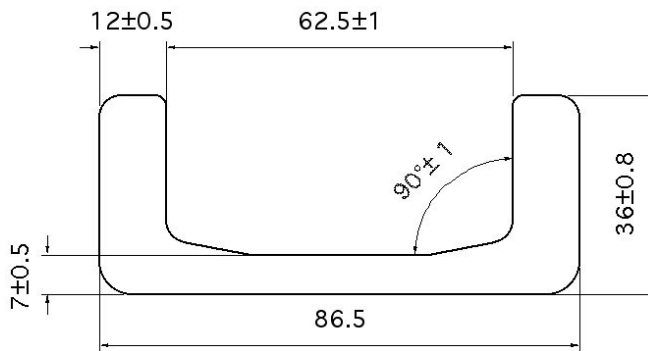
$W_x$  = moment of area



EURO REF: 2890

Weight: 10.5 kg/m

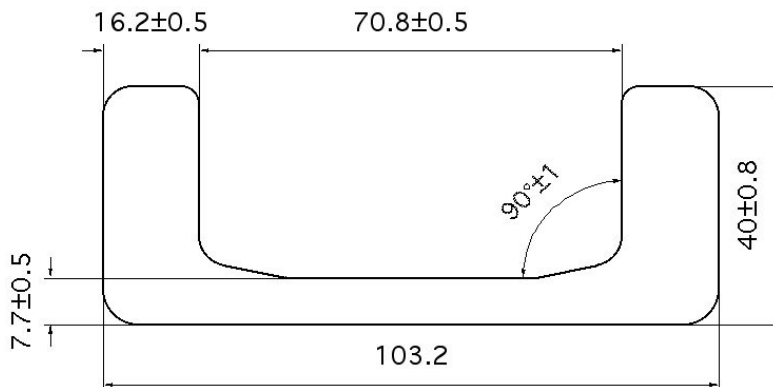
$W_x$ : 30cm<sup>3</sup>



EURO REF: 2867

Weight: 14.8 kg/m

$W_x$ : 50cm<sup>3</sup>



# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

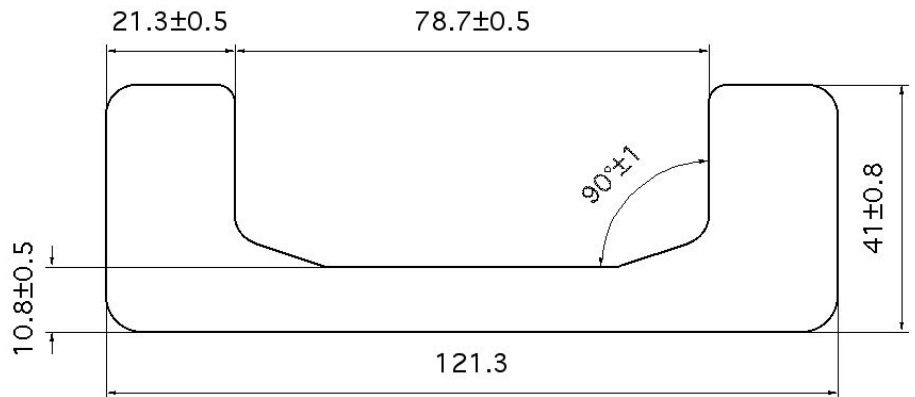
## C Sections: 28 10, 28 11 & 28 62

EURO REF: 28 10

Weight: 20.9 kg/m

$W_x$ : 80cm<sup>3</sup>

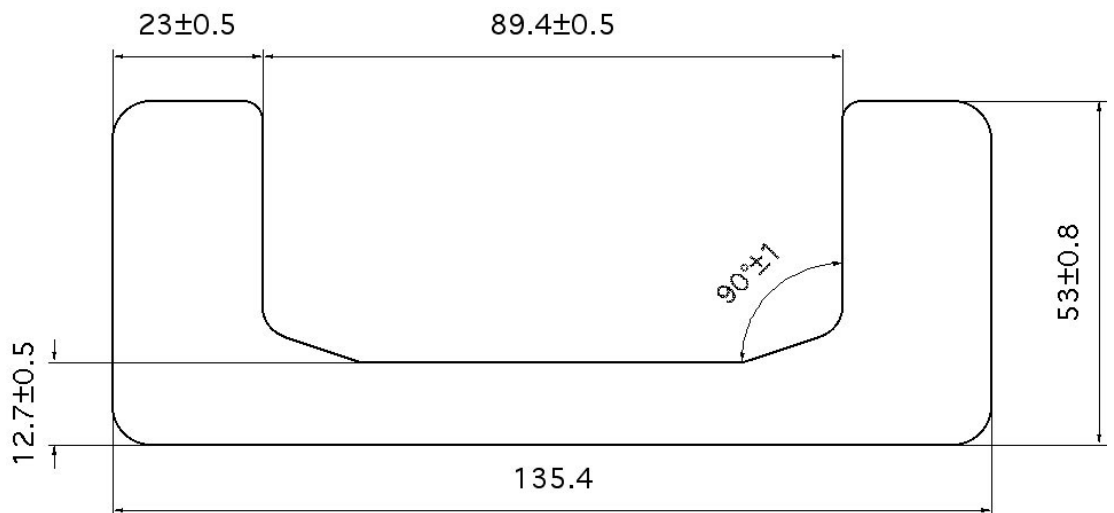
$W_x$  = moment of area



EURO REF: 28 11

Weight: 28.6 kg/m

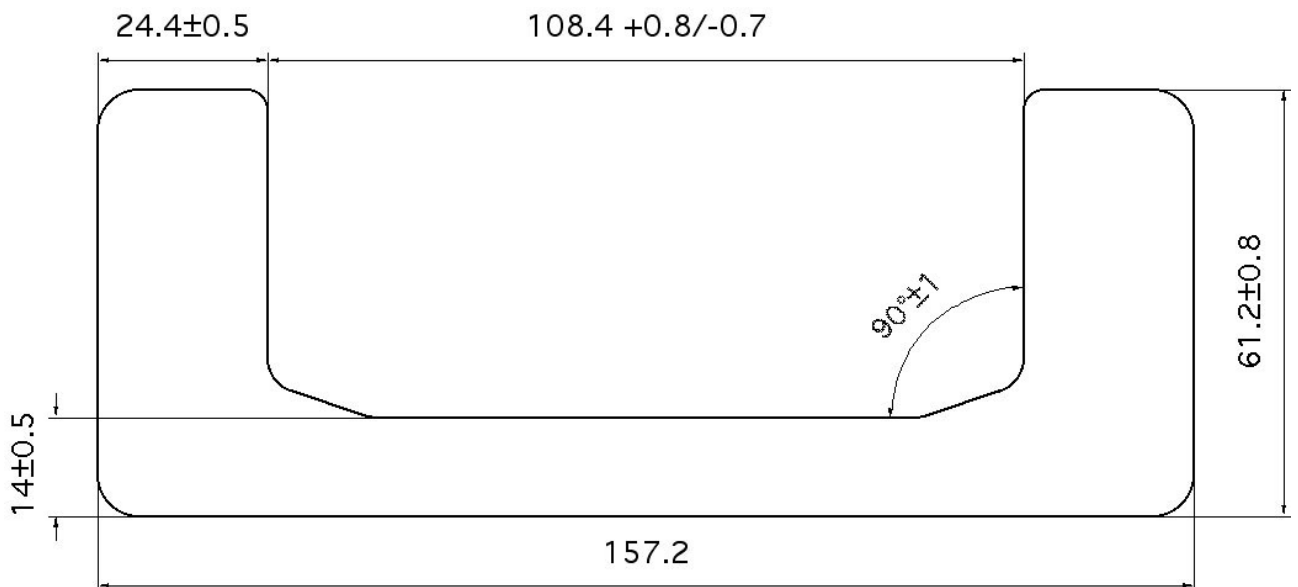
$W_x$ : 130cm<sup>3</sup>



EURO REF: 28 62

Weight: 36.0 kg/m

$W_x$ : 190cm<sup>3</sup>



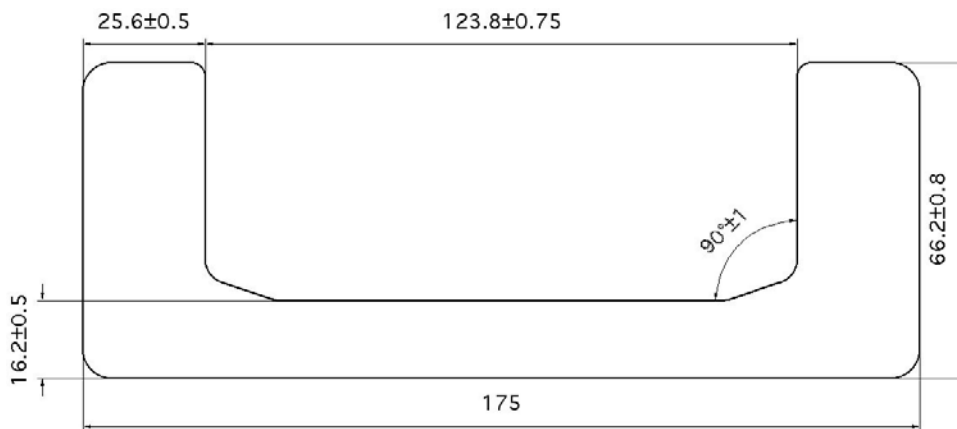
# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

C Sections: 2891 & 2757

$W_x$  = moment of area

PLEASE NOTE THESE DRAWINGS  
ARE AT A SMALLER SCALE THAN  
THOSE ON PREVIOUS PAGES

EURO REF: 2891  
Weight: 42.8 kg/m  
 $W_x$ : 250cm<sup>3</sup>



EURO REF: 2757  
Weight: 52.4 kg/m  
 $W_x$ : 340cm<sup>3</sup>

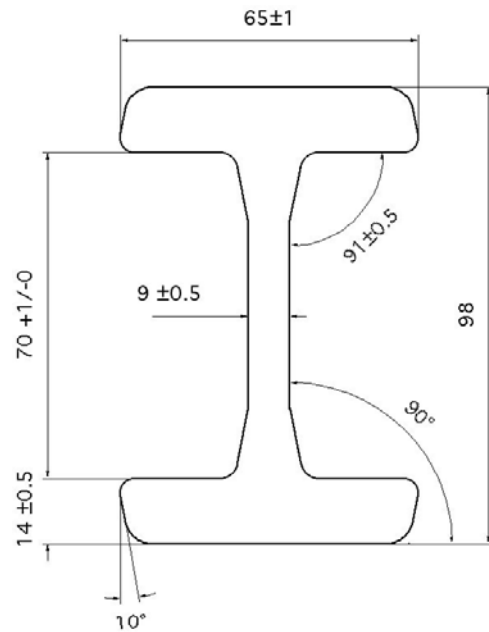


# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

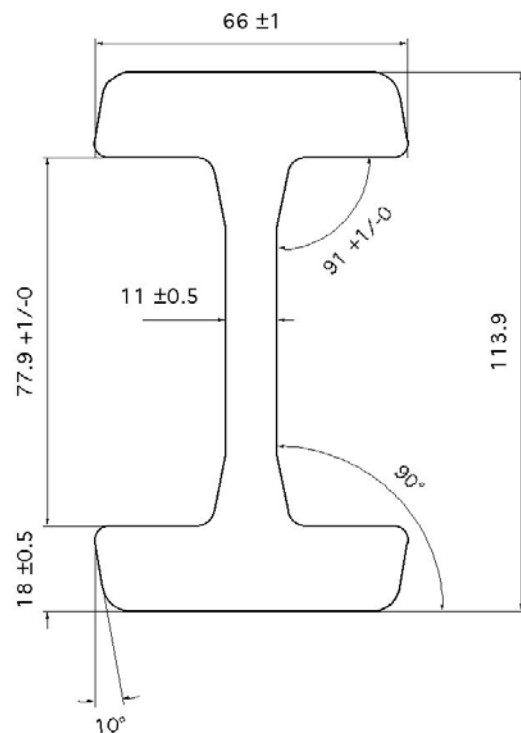
I Sections: 3018 & 3019

$W_x$  = moment of area

EURO REF: 3018  
Weight: 19.4 kg/m  
 $W_x$ : 70cm<sup>3</sup>



EURO REF: 3019  
Weight: 25.3 kg/m  
 $W_x$ : 102cm<sup>3</sup>

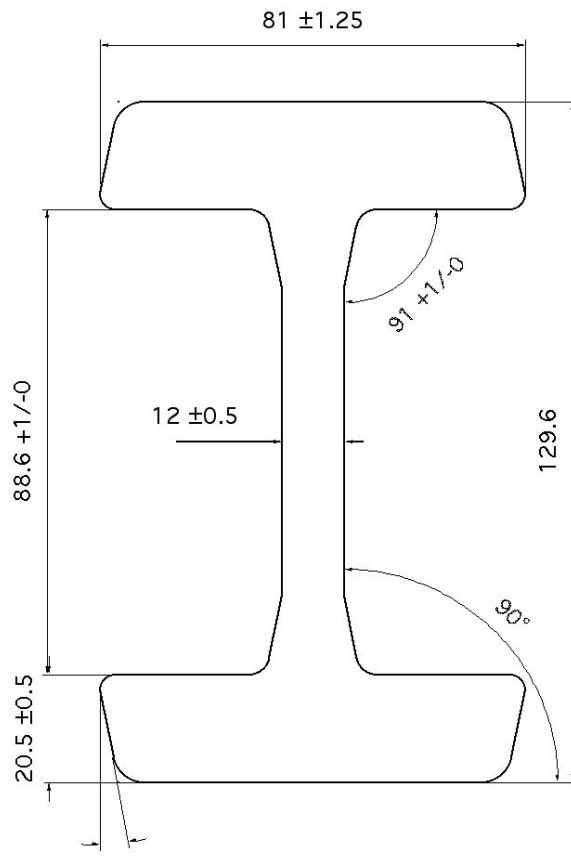


# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

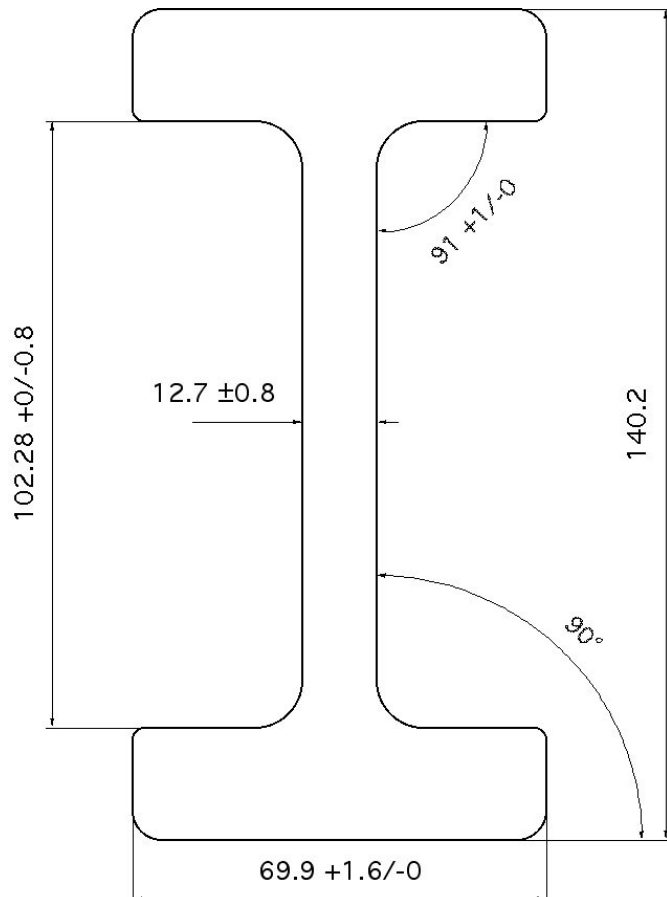
I Sections: 3020 & 2912

$W_x$  = moment of area

EURO REF: 3020  
Weight: 34.1 kg/m  
 $W_x$ : 161cm<sup>3</sup>



EURO REF: 2912  
Weight: 31.2 kg/m  
 $W_x$ : 156cm<sup>3</sup>

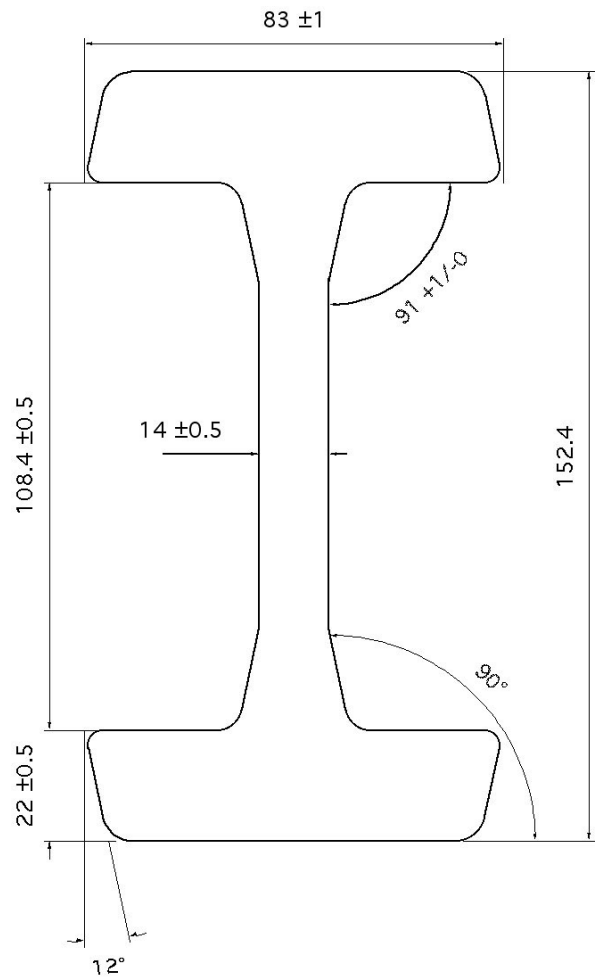
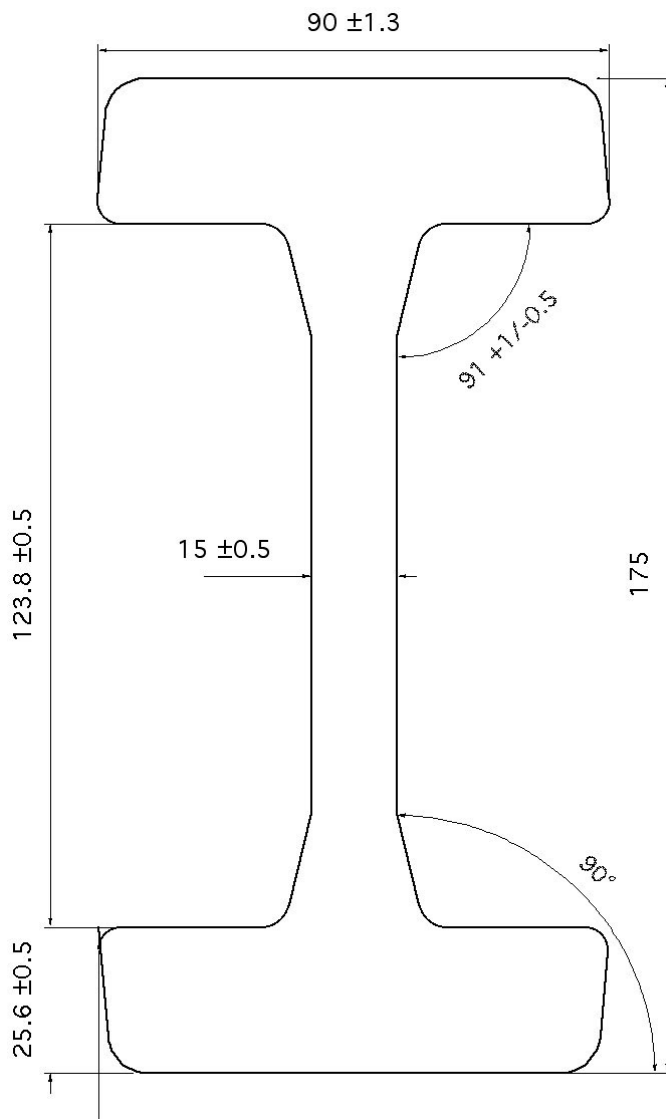


# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

I Sections: 3100 & 3353

$W_x$  = moment of area

EURO REF: 3100  
Weight: 40.8 kg/m  
 $W_x$ : 221cm<sup>3</sup>



EURO REF: 3353  
Weight: 51.4 kg/m  
 $W_x$ : 323cm<sup>3</sup>



# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

Mounting Plates: PL00, PL0 & PL1

Plate: PL00

Bearing: 4.053

Channel: EC053

Thickness 10 mm

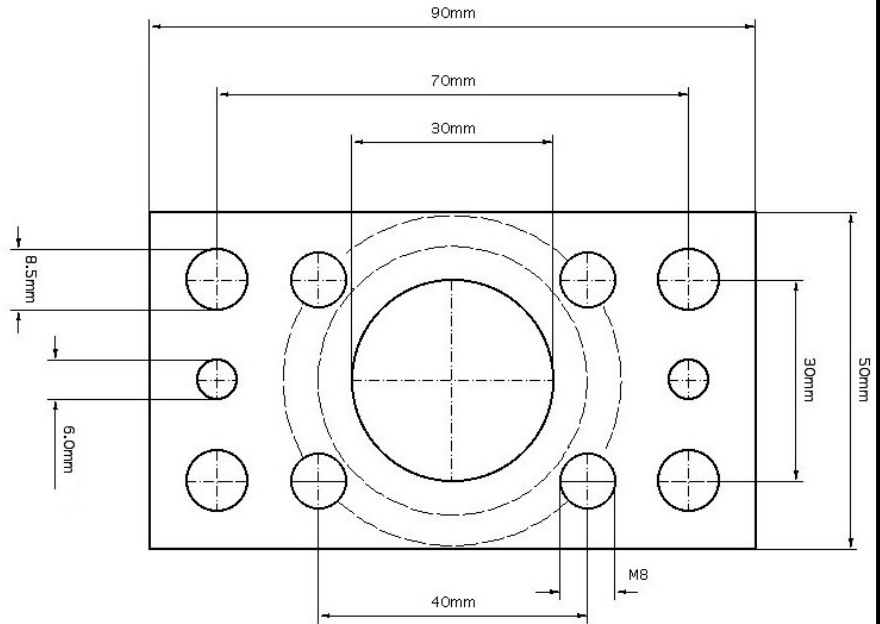


Plate: PL0

Bearing: 4.054 or 4.454

Channel: 2890

Thickness 10 mm

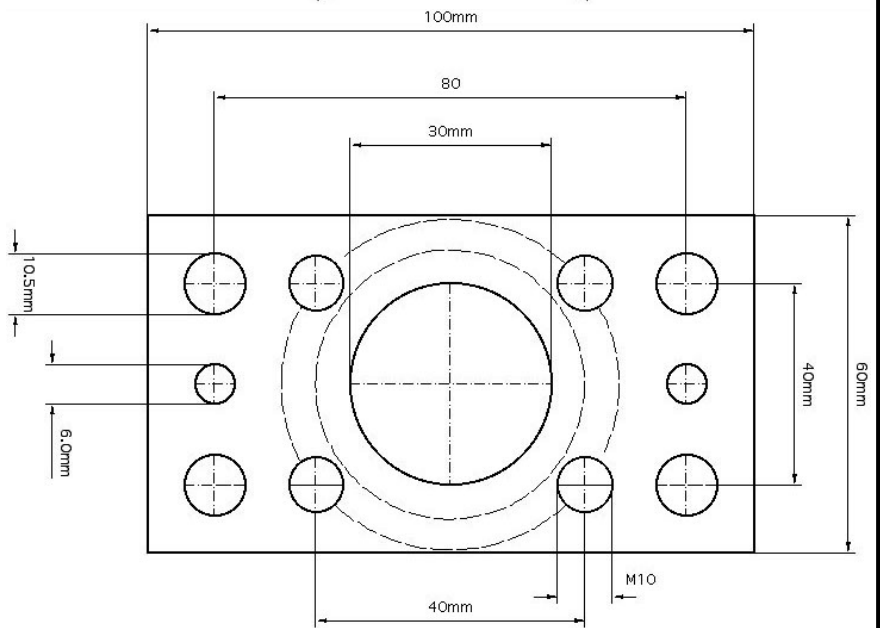
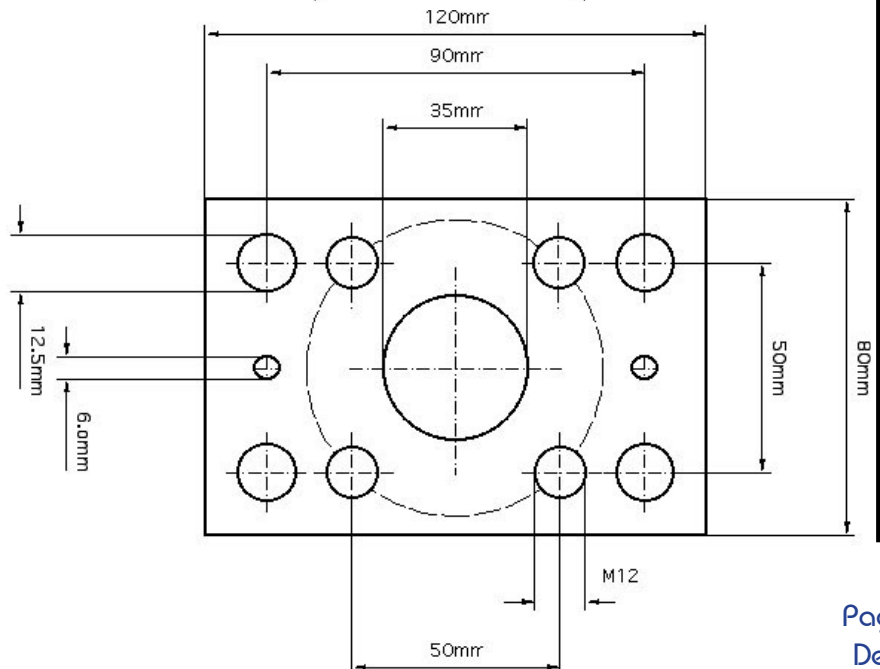


Plate: PL1

Bearing: 4.055 or 4.455

Channel: 2867

Thickness 15 mm



# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## Mounting Plates: PL2, PL3 & PL4

Plate: PL2

Bearing: 4.056 or 4.456

Channel: 2810

Thickness 15 mm

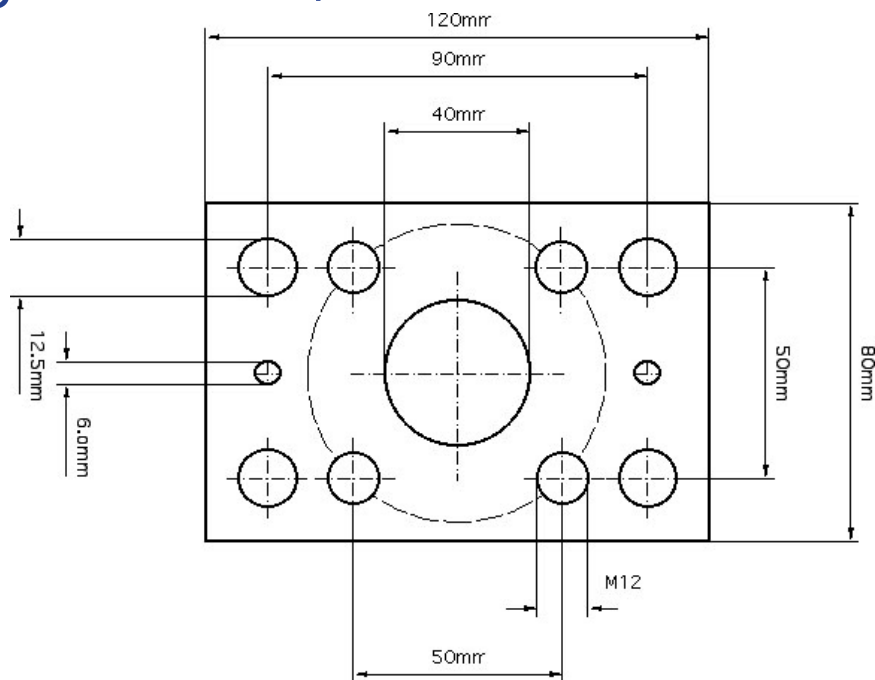


Plate: PL3

Bearing: 4.058 or 4.458

Channel: 2811

Thickness 20 mm

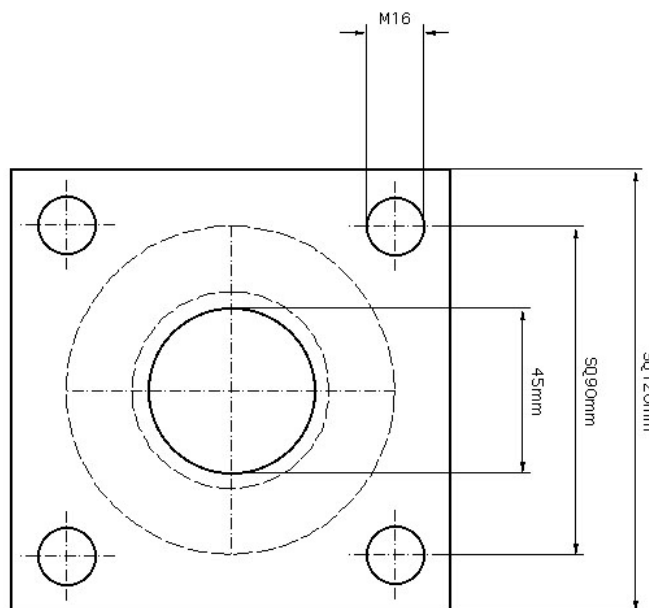
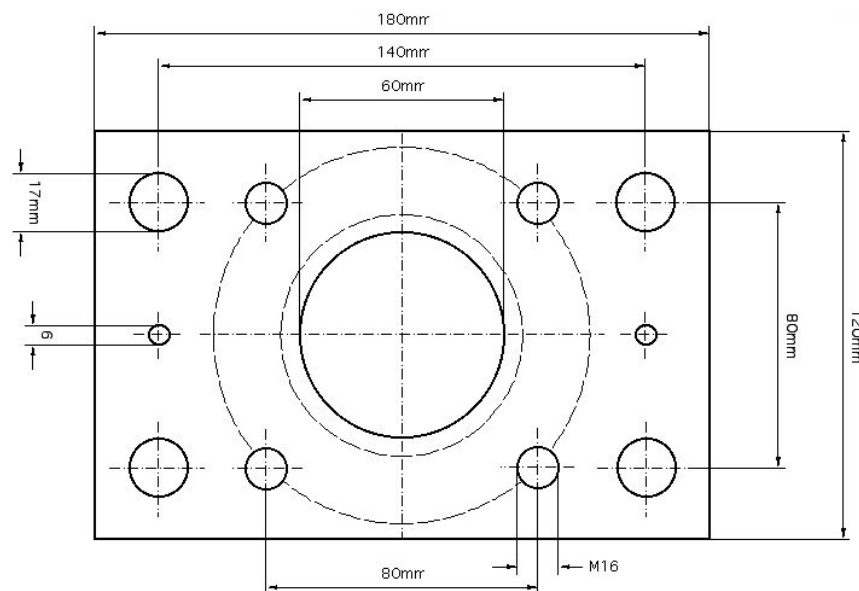


Plate: PL4

Bearing: 4.061 or 4.461

Channel: 2862

Thickness 20 mm



# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

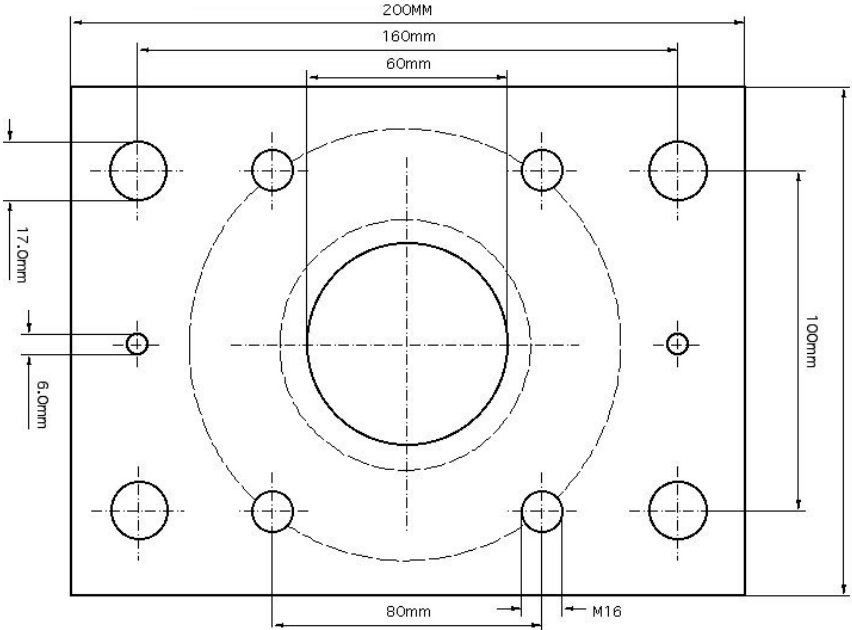
## Mounting Plates: PL6

Plate: PL6

Bearing: 4.063 or 4.463

Channel: 2757

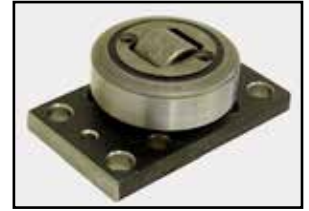
Thickness 20 mm



PLATES CAN BE SUPPLIED INDIVIDUALLY  
OR WELDED TO A BEARING

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## Frequently Asked Questions



### 1. How do we mount the bearings?

The stub axle on the bearing is made from ST52 which is a weldable steel. The best method is to drill a hole to locate the stub diameter marked 'd' in the drawings and to weld from behind. The 45° chamfer or weld gusset allows the weld to be kept flat if you need to use that area for rolling another bearing over. You do NOT have to disassemble the bearing to weld into position, just keep the torch or arc away from the hardened steel radial roller and axial roller.

### 2. How do you lubricate the bearing?

All but the smallest sizes (4.053, 4.054 and 4.055) of the standard combined range have a threaded lube hole and hex-headed plug to allow the insertion of a grease nipple. Remove the plug to allow for the insertion of a nipple. If the nipple cannot be left in place for operational reasons, re-insert the plug. Use a good bearing grease e.g Shell Alvania 3 or Esso Beacon 3. Nipples are not supplied but the holes are standard metric threads. The standard bearings are pre-lubricated and can be run without any further lubrication. The adjustable types are not re-lubricable but are pre-lubricated for life.

### 3. Are the bearings sealed?

All ranges of bearings are sealed. Standard 4.053, 4.054 and 4.055 have rubber seals all other sizes have steel shields. Adjustable (eccentric) all have rubber seals. Both methods are very effective and these bearings are in use in a variety of industrial environments.

Further information on Combined Roller Bearings & Mating Steel Profiles can be found at [www.euro-bearings.com](http://www.euro-bearings.com)

# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## Selecting the Correct Size of Bearing & Profile

There are two separate considerations when deciding which bearings to use - a) moments & b) Hertzian Pressure

a) Moments - the force on the bearing depends on the distance between i) the load and the point of suspension and ii) the bearings and the point of suspension.

The location of the bearing with respect to the suspension point is critical in determining the force seen by it. The Hertzian static load capacity of the chosen bearing must not be exceeded and this therefore limits the maximum allowable load.

Using moment-balance, the bearing distance can be calculated from

$$I = (P \cdot L) / (2 \cdot C)$$

where:

P = Weight of the load being moved (N)

L = Distance between the load and P, the suspension point (mm)

I = Distance of bearings from the suspension point (mm)

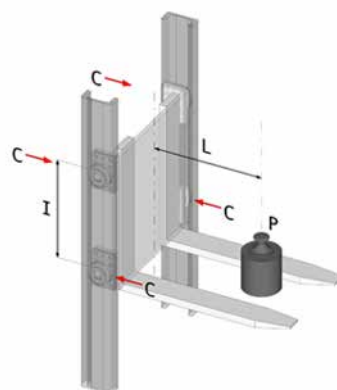
C = Maximum allowable static force per bearing, determined by Hertzian Pressure

Alternatively, this formula may be rearranged to calculate the static force generated

$$C = (P \cdot L) / (2 \cdot I)$$

and this value of C can then be compared with those given in the Hertzian Pressure data to determine which bearing is best suited to the loading conditions (see worked example)

Diagram showing the various dimensions required for calculating the moments & hertzian pressure



# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## Selecting the Correct Size of Bearing & Profile

b) Hertzian Pressure - the pressure on the profile should not exceed the tensile strength of the profile in order to prevent depressions in the rails.

By ensuring that the maximum pressure is less than  $750\text{N/mm}^2$  (S355 steel) &  $900\text{N/mm}^2$  (S450J2), such depressions should be prevented. The following table shows the approximate maximum static force on each bearing based on 0.31% of the bearing's surface area being in contact with the channel at any moment in time.

### WORKED EXAMPLE (diagram on next page)

A 2 tonne load is placed 600mm from the point of suspension. The bearings are spaced 500mm apart. Which bearings should be used?

Using the Moment-Balance formula (from previous page)

$$C = (P \cdot L) / (2 \cdot l)$$

Assuming the bottom pair of bearings are level with the point of suspension then  $l = 500\text{mm}$ . The load is cantilevered out at 600mm and hence this is the value of  $L$ . Here  $P$  is 20000N.

Substituting these numbers into the equation gives  $C = 12000\text{ N}$

Looking up this value of  $C$  on the Hertzian Pressure table (next page) shows that 4.058 is the required bearing size.

Should you need any help with any of these calculations, call Gerry or Kate on 01908 511733 or email [sales@euro-bearings.com](mailto:sales@euro-bearings.com)

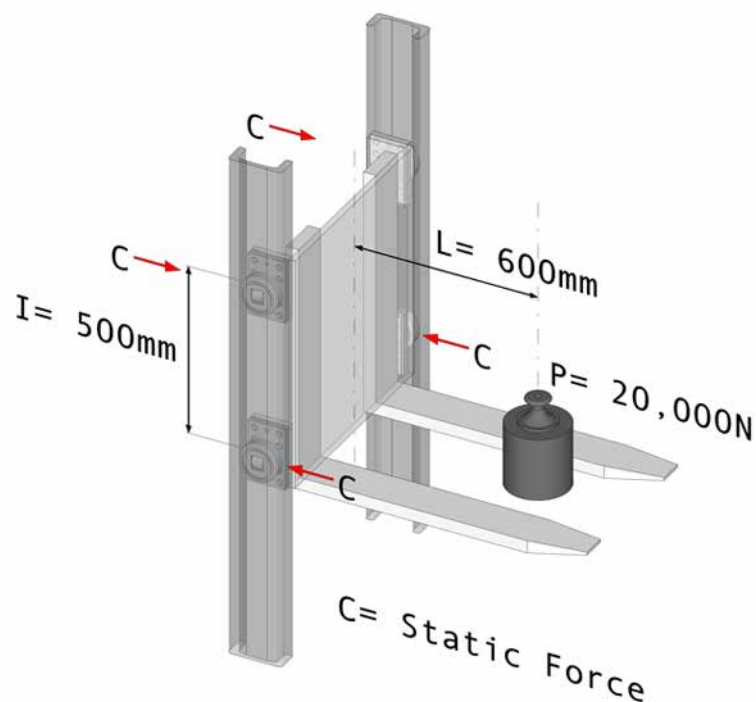


# COMBINED ROLLER BEARINGS & MATING STEEL PROFILES

## Hertzian Pressure Table

Bearing Reference	Diameter (mm)	Circumference (mm)	Contact Width (mm)	Approx. Contact Area (mm <sup>2</sup> )	Steel Grade	Maximum Static Force / Hertzian Pressure C, (N)	Maximum Static Force / Hertzian Pressure Ca (N) for axial roller
4.053	52.5	164.96	14	7.33	S355J0	5500	1680
4.054	62.5	196.38	15	9.35	S450J2	8200	3100
4.055	70.1	220.25	16	11.19	S450J2	9800	3730
4.056	77.7	244.13	16	12.4	S450J2	10900	3870
4.057	77.7	244.13	16	12.4	S450J2	10900	2970
4.058	88.4	277.75	21	18.52	S450J2	16300	6760
4.059	101.2	317.97	18	18.17	S450J2	16000	5150
4.060	107.7	338.39	21	22.56	S450J2	19800	5490
4.061	107.7	338.39	21	22.56	S450J2	19800	7160
4.062	123	386.47	26	31.9	S450J2	28000	10200
4.063	149	468.16	36	53.51	S450J2	47000	17800
4.089	165	518.36	35	56.24	S355	42180	13910
4.090	190	596.9	43	79.57	S355	59677	19400
4.091	220	691.15	53	113.56	S355	85170	28000
4.092	250	785.4	55	133.91	S355	100432	33900
4.093	280	879.65	67	182.7	S355	137027	46500
4.094	320	1005	77	239.97	S355	179975	
4.095	340	1068	81	268.21	S355	201150	
4.096	390	1125	111.5	423.5	S355	317600	

Diagram showing the loads & distances of the worked example



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