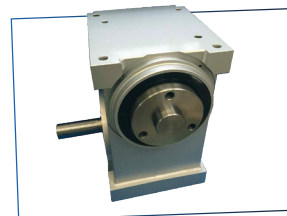
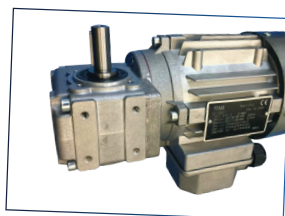
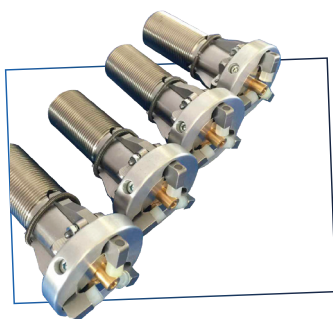
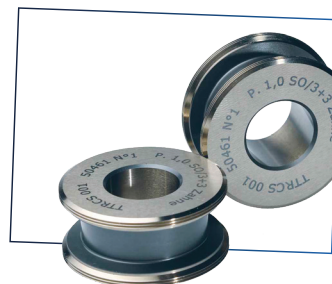
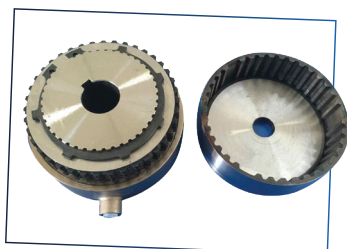




INDUSTRIE-KONTOR

SINCE 1971

- **SPARE PARTS**
- **TOOLS**
- **ACCESSOIRES**



CONTACT US

+ 49 - (0) 7246 - 7004 0

sales@industrie-kontor.com

www.industrie-kontor.com

How to use this catalogue:

We have divided our catalogue into 3 different parts as mentioned below, each one with a separate table of contents:

- 1) Tools/Sizeparts
- 2) Various frequently needed machine spare parts
- 3) Accessories

All parts in the catalogue are presented by a drawing or by a photograph. As many parts depend on size and pitch and thus can be offered with different measures the concerned technical data are listed in a table.

You will identify your spare part quickly and undoubtedly. For your inquiry or your order, it is sufficient to mention the referring **article number** thus we will exactly know what you need and you will have not much work to describe the needed part.

In case you cannot find the requested spare part in our catalogue, please send us a simple sketch of the part in question so that we can check the possibility of delivery within short notice.

Información general

Como utilizar este catálogo:

Hemos dividido nuestro catálogo en 3 partes diferentes, como se indica a continuación, cada una de ellas con un índice independiente:

- 1) Herramientas/Piezas de tamaño
- 2) Piezas de recambio para máquinas que se necesitan con frecuencia
- 3) Accesorios

Todas las piezas están representadas en el catálogo por medio de un dibujo o una foto. Ya que muchas piezas dependen del tamaño o del paso y pueden ser ofrecidas con diferentes dimensiones de conexión, indicamos los datos técnicos necesarios en forma de cuadro.

Encontrará rápidamente y de manera segura la pieza de repuesto requerida. En su solicitud o su pedido es suficiente indicar el **número del artículo** para determinar exactamente la pieza necesaria sin que se tenga que describir detalladamente la pieza.

En caso de que, contra todo lo esperado, no haya encontrado su pieza de repuesto en nuestro catálogo, rogamos enviarnos un simple croquis, para que podamos verificar rápidamente la posibilidad de suministro.

Comment utiliser notre catalogue:

Nous avons divisé notre catalogue en 3 parties différentes, comme indiqué ci-dessous, chacune avec une table des matières distincte :

- 1) Outils/Parties de taille
- 2) Diverses pièces de rechange de machines fréquemment utilisées
- 3) Accessoires

Toutes les pièces sont représentées dans le catalogue comme dessin ou photo. Etant donné que nombre de pièces dépendent de la dimension ou du pas et qu'elles peuvent être offertes sous différentes dimensions de raccord nous avons indiqué les données techniques concernées sous forme de tableaux. Vous trouverez rapidement et sûrement votre pièce de rechange. Pour votre demande d'offre ou commande, il suffit de donner **la référence** indiquée. Ainsi vos besoins seront déterminés sans perte de temps.

Si contre toute attente votre pièce de rechange n'a pas été repérée, nous vous prions de faire un simple croquis afin que nous puissions rapidement vérifier si une livraison est possible.

Общая информация

Как работать с каталогом:

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- 1) Инструменты/размеры
- 2) Различные часто требуемые запасные части для машин
- 3) Аксессуары

Все детали представлены в каталоге или в форме схемы, или сопровождаются фотографией. По причине того, что исполнение многих деталей зависит от их размера, деления, и они могут быть предложены с различными соединительными элементами, в таблицах приводятся соответствующие технические характеристики. Таким образом Вы сможете быстро и безошибочно определить необходимую Вам деталь. Для запроса или заказа достаточно будет назвать соответствующий **каталожный номер детали**, сэкономив время на подробном описании.

Если же вопреки Вашим ожиданиям Вы не нашли необходимую Вам запчасть в нашем каталоге, пришлите нам схематичный набросок с указанием технических характеристик, чтобы мы могли быстро проверить возможности её поставки.

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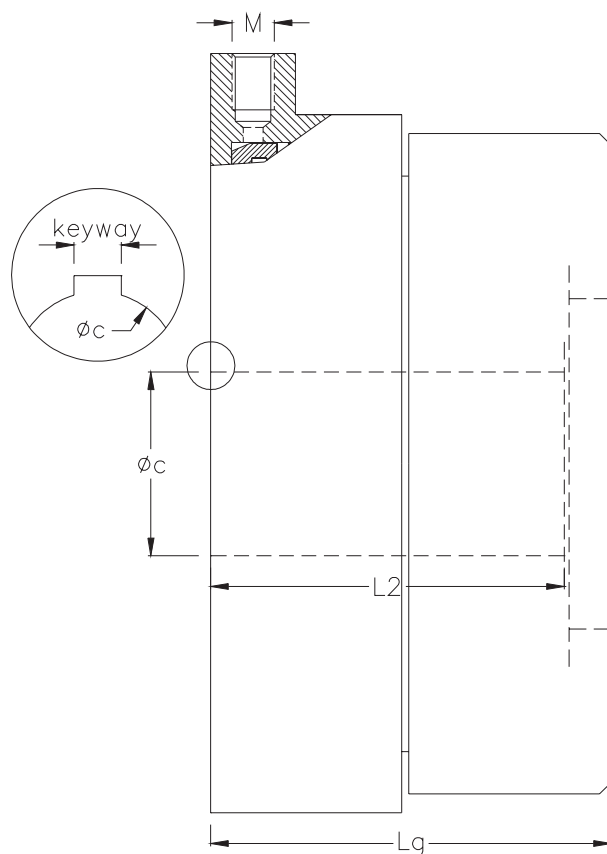
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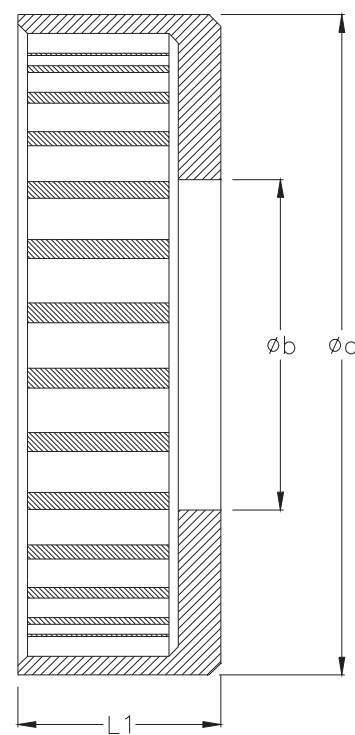
Article group	Article name		Specification
CLUTCHES / BRAKES			
# 3101....	Pneumatic		Type 0.521...
# 3103-1	Pneumatic		Type 94001A...
# 3103-2	Pneumatic		Type 94001A...
# 3105...	Pneumatic brake		Type 94011...
# 3107...	Electro-magnetic		Type 0.006...
# 3109...	Clutch plates		Steel and covered type
# 3111...	Clutch brake combination		For accumulators
# 3113...	Clutch brake combination		Hydraulic type for presses
# 3115...	Clutch brake combination		Pneumatic type for presses
# 3117...	EAS-clutch		Torque limiting, type 400
# 3119...	EAS-clutch		Axial movement, type 300
CONNECTINGS			
# 3121...	Rotary inlets		For compressed air
# 3123...	Couplings		For shaft connectings
GEARBOXES			
# 3201...	Bevel gearboxes		Heavy duty type
# 3203...	Worm gearboxes		With bronze inner gear wheel
# 3205...	Worm gearboxes		For annealing and drying ovens
# 3207...	Gear sets		INFO not available yet
# 3209...	Indexing gearboxes		Type T2H2
# 3211...	Indexing gearboxes		Repair sets for T2H2

Article group	Article name		Specification
MOTORS			
# 3301...	Standard motor		3-phase
# 3303...	Motor		With worm gearbox
# 3305...	Motor		With worm gearbox
SENSORS			
# 3401...	Sensors		For aluminium
# 3403...	Sensors		Proximity
# 3405...	Sensors		Optical
ENCODERS			
# 3407...	Encoders		Tacho generators
TEMPERATURE CONTROLS			
# 3409...	Temperature measurement		For ovens and
# 3411...	Temperature control		washing machines
# 3415...	Logoscreen		temperature control
CARDAN JOINTS			
# 3502...	Cardan joints		Type E
# 3503...	Cardan joints		type K
# 3504...	Cardan joints		Flange joint
# 3505...	Cardan joints		Shaft-fit
BEARINGS			
# 3507...	Linear bearings		Guideways
# 3509...	Linear bearings		With splined shaft
# 3511...	Bearings		

[illegible]



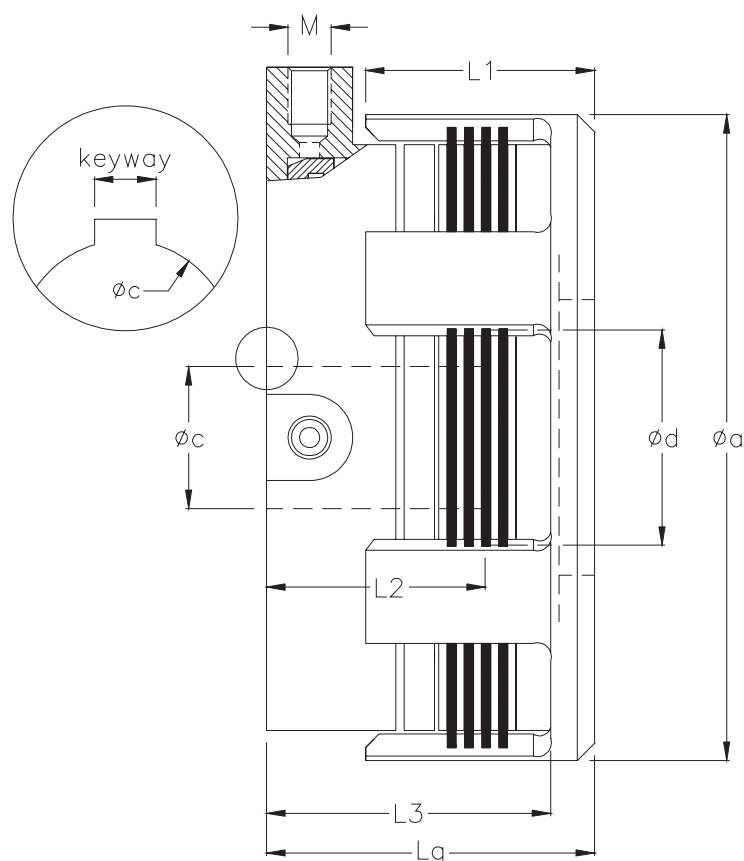
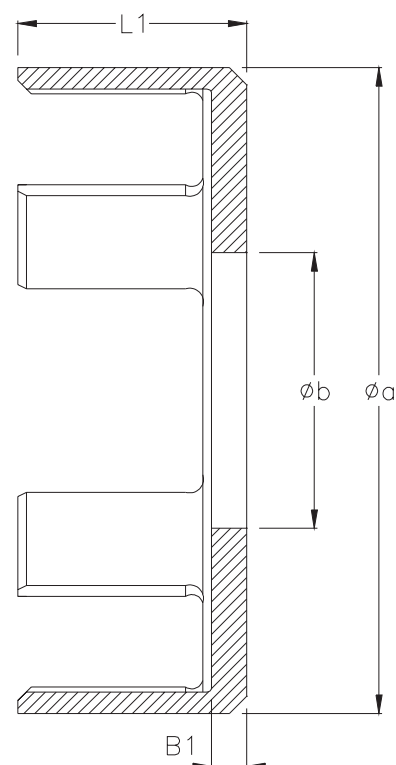
Clutch with pot housing



Pot housing only

mm when not indicated

Article ID. No	Torque	Length			Diameter		
	Ms/Nm	Lg	L1	L2	Ø a	Ø b	Ø c
# 3101.0-521-0x7-15-000	160	62,5	30,5	56,5	95	prebore 15	max. 22
# 3101.0-521-0x7-23-000	224	74	38	64	112	prebore 20	max. 30
# 3101.0-521-0x7-27-000	315	78	39	68	125	prebore 20	max. 36
# 3101.0-521-0x7-32-000	450	85	43	75	140	prebore 20	max. 45
# 3101.0-521-0x7-39-000	630	98	54	85	160	prebore 25	max. 52
# 3101.0-521-0x7-43-000	1.120	113	65	100	180	prebore 28	max. 60
# 3101.0-521-0x7-47-000	1.600	125	70	110	200	prebore 28	max. 70
# 3101.0-521-017-15-156	160	62,5	30,5	56,5	95	37/42,3 x M6	20, key 6
# 3101.0-521-007-27-153	315	78	39	68	125	42,6 x b6,7	42, key 8
# 3101.0-521-007-32-153	450	85	43	75	140	68,4 x M8	70/35,6 x M5
# 3101.0-521-037-39-157	630	98	54	85	160	68,6 x M8	69/35, key 10
air infeed threads: x=0 M10 x 1 x=1 G 1/8" x=2 M 2 x 1,5 x=3 G1/4"							

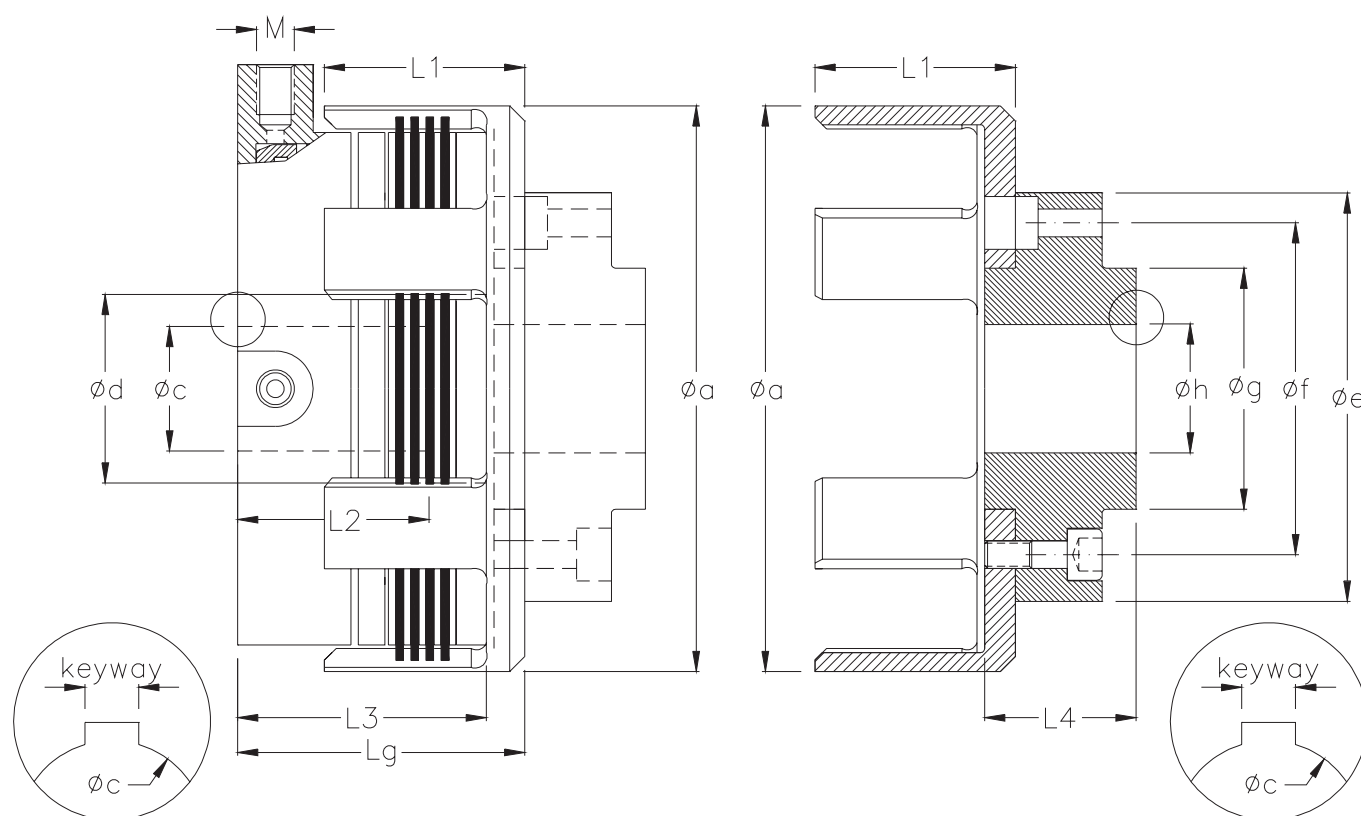
Clutch complete with
flat finger housing

Flat finger housing

mm when not indicated

Article ID. No	Torque	Length				Diameter			Air infeed
Clutch	M2n/Nm	Lg	L1	L2	L3	Ø a	Ø c	Ø d	M
# 3103.94001-09 A	20	54	34	37	46	96	10...24	29	M12 x 1,5
# 3103.94001-11 A	50	63	42	43	54	115	12...32	38	M12 x 1,5
# 3103.94001-14 A	100	71	50	47	60	140	15...42	48	M12 x 1,5
# 3103.94001-16 A	200	79	56	51	68	166	20...52	59	M12 x 1,5
# 3103.94001-19 A	400	88	64	58	75	195	25...62	69	M14 x 1,5

Article ID. No	Length	Width	Diameter		for your notes
Finger housing	L1	B1	Ø a	Ø b	
# 3103.94001-09 F	34	5	96	20...	
# 3103.94001-11 F	42	6	115	25...	
# 3103.94001-14 F	50	8	140	30...	
# 3103.94001-16 F	56	8	166	35...	
# 3103.94001-19 F	64	10	195	40...	

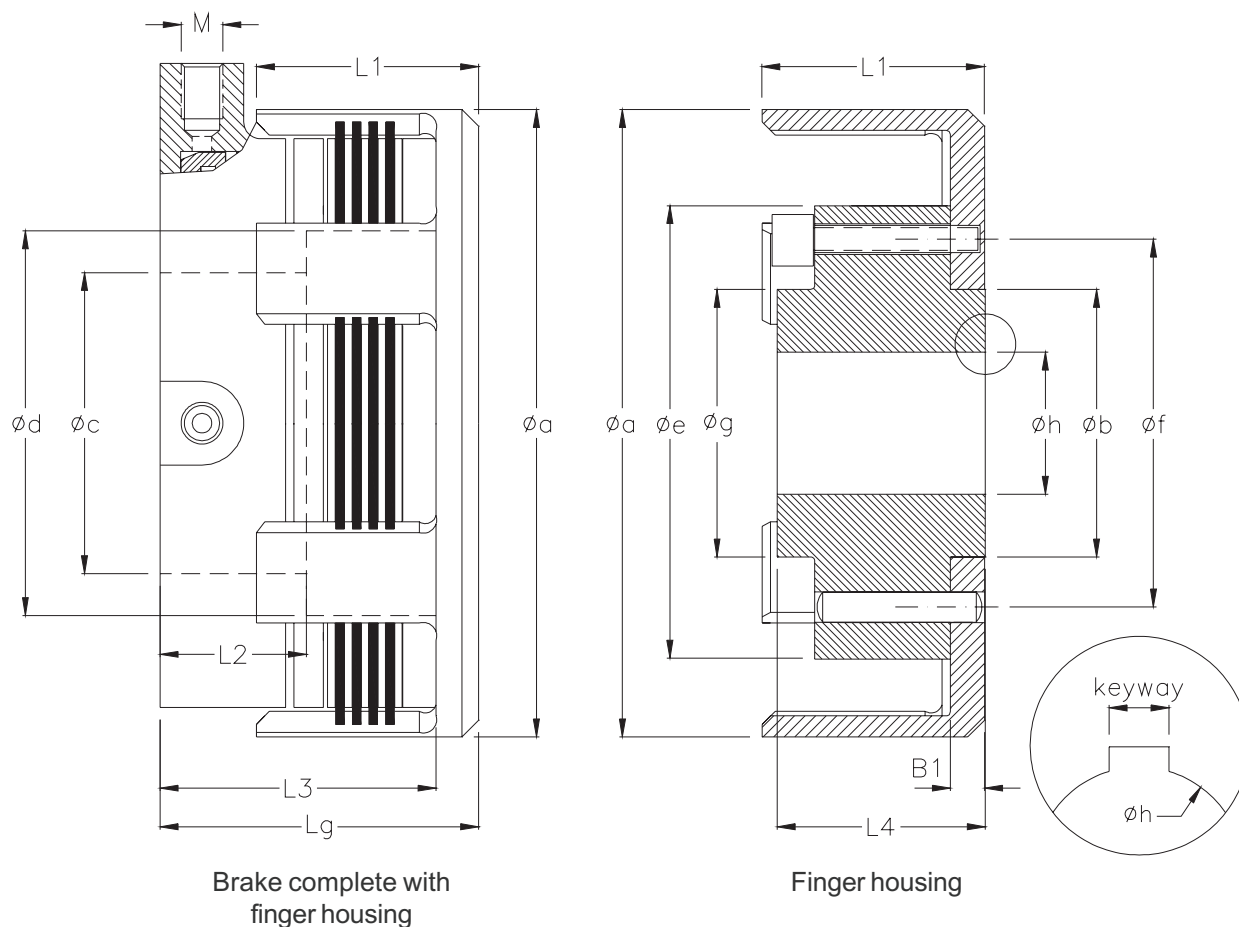
Clutch complete with
hub style finger housing

Hub style finger housing

mm when not indicated

Article ID. No	Torque	Length				Diameter			Air infeed
Clutch	M2n/Nm	Lg	L1	L2	L3	Ø a	Ø c	Ø d	M
# 3103.94001-09 A	20	54	34	37	46	96	10...24	29	M12 x 1,5
# 3103.94001-11 A	50	63	42	43	54	115	12...32	38	M12 x 1,5
# 3103.94001-14 A	100	71	50	47	60	140	15...42	48	M12 x 1,5
# 3103.94001-16 A	200	79	56	51	68	166	20...52	59	M12 x 1,5
# 3103.94001-19 A	400	88	64	58	75	195	25...62	69	M14 x 1,5

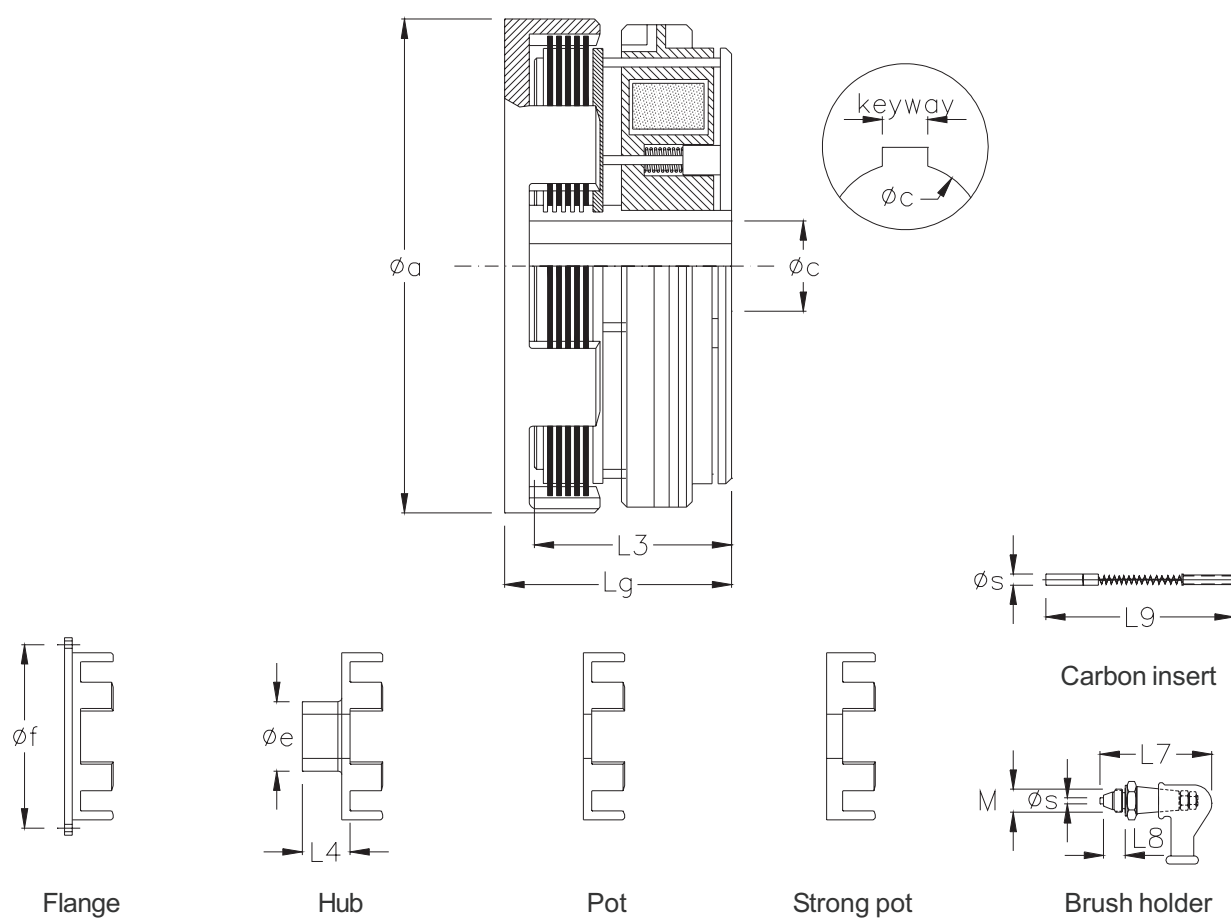
Article ID. No	Length		Diameter				
Hub	L1	L4	Ø a	Ø e	Ø f	Ø g	Ø h
# 3103.94001-09 H	34	20	96	58	49	35	10...24
# 3103.94001-11 H	42	31	115	70	60	46	12...32
# 3103.94001-14 H	50	38	140	95	80	60	15...42
# 3103.94001-16 H	56	44	166	105	88	70	20...52
# 3103.94001-19 H	64	55	195	120	100	78	25...62



mm when not indicated

Article ID. No	Torque	Length				Diameter			Air infeed
Brake	M2n/Nm	Lg	L1	L2	L3	Ø a	Ø c	Ø d	M
# 3105.94011-09 A	20	54	34	33	46	96	39	59,5	M12 x 1,5
# 3105.94011-11 A	50	63	42	31	54	115	50	71,5	M12 x 1,5
# 3105.94011-14 A	100	71	50	31,5	60	140	66	86,5	M12 x 1,5
# 3105.94011-16 A	200	79	56	33,5	68	166	78	106,5	M12 x 1,5
# 3105.94011-19 A	400	88	64	31,5	75	195	88	122	M14 x 1,5

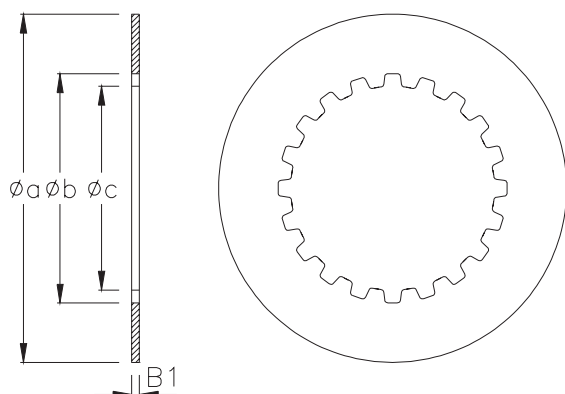
Article ID. No	Length		Width	Diameter				
Housing	L1	L4	B1	Ø a	Ø e	Ø f	Ø g	Ø h
# 3105.94011-09 B	34	20	5	96	58	49	35	10...24
# 3105.94011-11 B	42	31	6	115	70	60	46	12...32
# 3105.94011-14 B	50	38	8	140	85	73	60	15...42
# 3105.94011-16 B	56	44	8	166	105	88	70	20...52
# 3105.94011-19 B	64	55	10	195	120	100	78	25...62



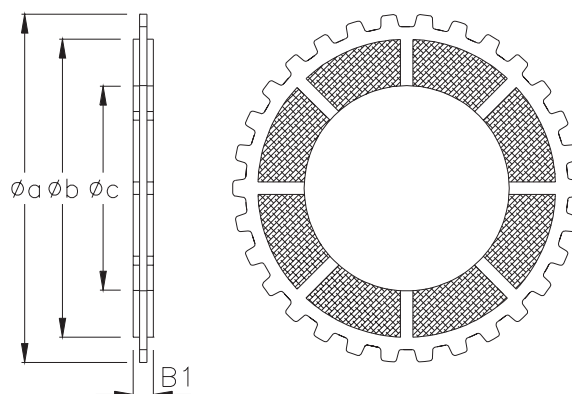
mm when not indicated

Article ID. No	Torque Nm		Length			Diameter			
Clutch	Dry	Wet	L_g	L_3	L_4	$\varnothing a$	$\varnothing c$	$\varnothing e$	$\varnothing f$
# 3107.0-006-057-11-004	30	25	60	55	35	100	20/22	55	120
# 3107.0-006-057-15-004	60	50	70	65	35	110	20/25/28/30	60	130
# 3107.0-006-057-23-004	120	100	76	70	46	128	25/30/35	70	150
# 3107.0-006-057-31-004	240	200	81	75	46	154	25/30/35/45	80	175
# 3107.0-006-057-43-004	600	500	98	90	68	200	40/45/60/65	120	220
# 3107.0-006-057-51-004	1.200	1.000	115	105	75	245	60/80	140	270

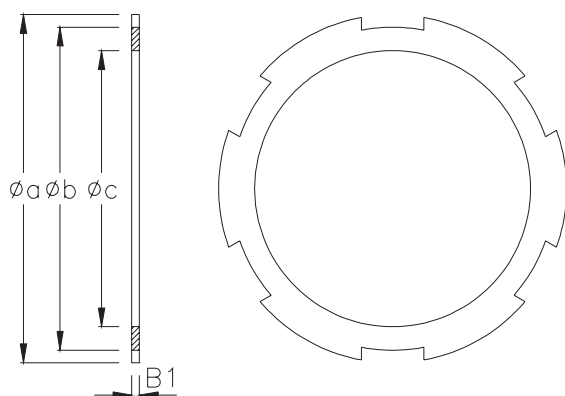
Article ID. No	Material		Length			Diameter	Thread
Brushes	Dry-run	Wet-run	L_7	L_8	L_9	$\varnothing s$	M
# 3107.Brush 00	Cu-graphite	bronze	64	17	86	6	M18 x 1,5
# 3107.Brush 01	Cu-graphite	bronze	74	20	86	6	M16 x 1,5
# 3107.Brush 03	Cu-graphite	bronze	59	12	69	5	M14 x 1,5



Inner plate # 3109.3-021.744-.. (steel plate only)



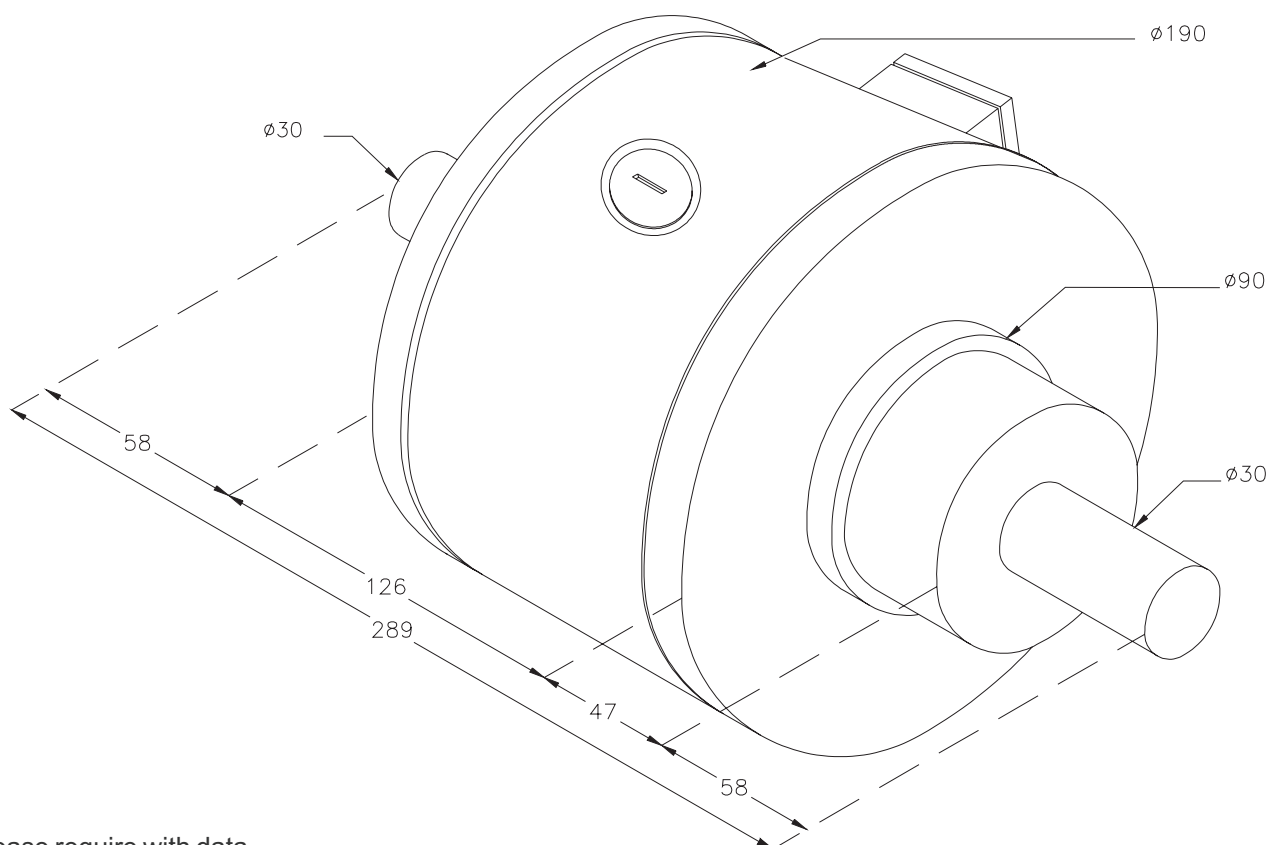
Outer plate # 3109.3-021.694-.. (with covering)



Outer plate (steel plate, slotted)

mm when not indicated

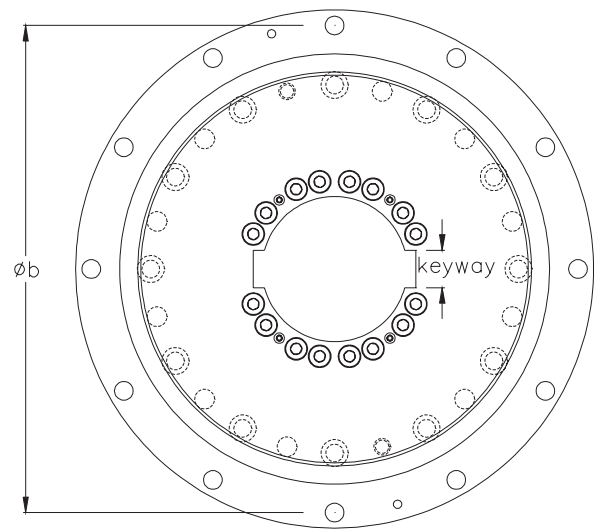
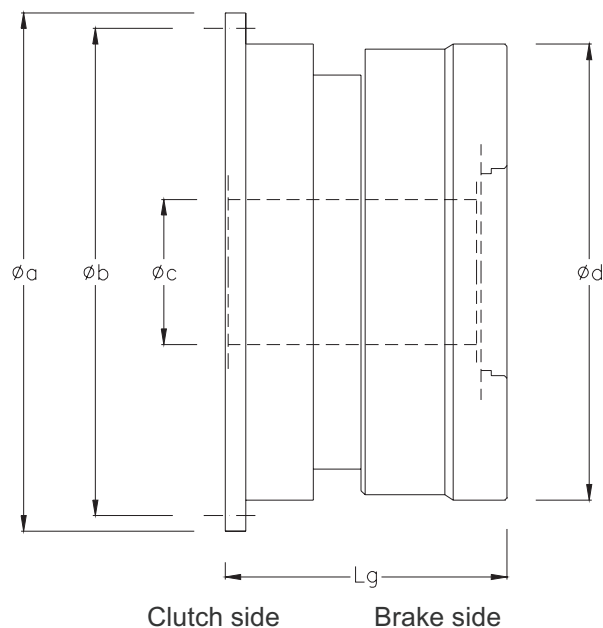
Article ID. No	Type	Execution	Dimension	Width	Diameter		
	Applic.	Covering	Profile	B1	Ø a	Ø b	Ø c
# 3109.3-021-744-15-000	inner	steel only	68 x 1,5 x 45	1	85	68	65
# 3109.3-021-744-23-000	inner	steel only	80,4 x 2 x 39	1,2	100	80,4	76,4
# 3109.3-021-744-27-000	inner	steel only	88 x 2 x 42	1,2	111	88	84
# 3109.3-021-744-32-000	inner	steel only	102,4 x 2 x 51	1,45	126	102,4	98,4
# 3109.3-021-744-39-000	inner	steel only	114,4 x 2 x 57	2	141	114,4	110,4
# 3109.3-021-744-43-000	inner	steel only	130 x 3 x 42	2	162	130	124
# 3109.3-021-744-47-000	inner	steel only	145,5 x 3 x 48	2,3	178	145,5	139,5
# 3109.3-421-694-15-001	outer	organic mat.	90 x 1,5 x 60	2,3	89,7	84	70
# 3109.3-421-694-23-001	outer	organic mat.	106 x 2 x 51	2,3	105,6	98	82
# 3109.3-421-694-27-001	outer	organic mat.	119 x 3 x 39	2,7	118,4	109	90
# 3109.3-421-694-32-001	outer	organic mat.	134 x 3 x 44	3	133,4	124	104
# 3109.3-421-694-39-001	outer	organic mat.	152 x 4 x 36	3,4	151,2	139	116
# 3109.3-421-694-43-001	outer	organic mat.	172 x 4 x 42	3,9	171,2	160	132
# 3109.3-421-694-47-001	outer	organic mat.	190 x 5 x 36	4,2	189	176	147



Please require with data
on the name plate of the clutch

mm when not indicated

Article ID. No	Clutch	Brake	Voltage	Clutch	Brake
	Torque Nm		Volt	Watt	
# 3111.Clutch KB 60/1223	250	60	24V	37W	28W



mm when not indicated

Article ID. No	Clutch	Brake	Length		Diameter				Pressure	
	Torque Nm		Lg	Key	$\varnothing a$	$\varnothing b$	$\varnothing c$	$\varnothing d$	Close	Open
# 3113.0-0123-020-86-161-544	32.000	8.000	272	36	500	470	140	440	63 bar	27 bar
# 3113.0-0023-300-94-161-044	100.000	16.000	412	45	800	750	200	710	60 bar	13 bar

Clutch-brakes are available with other torques on request. Measurements and supplied parts may vary with clutch serial numbers and models. The pot housing is normally integrated into the fly-wheel of the press and not delivered together with the clutch-brake. Please inquire for a detailed data sheet.

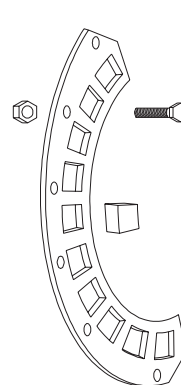
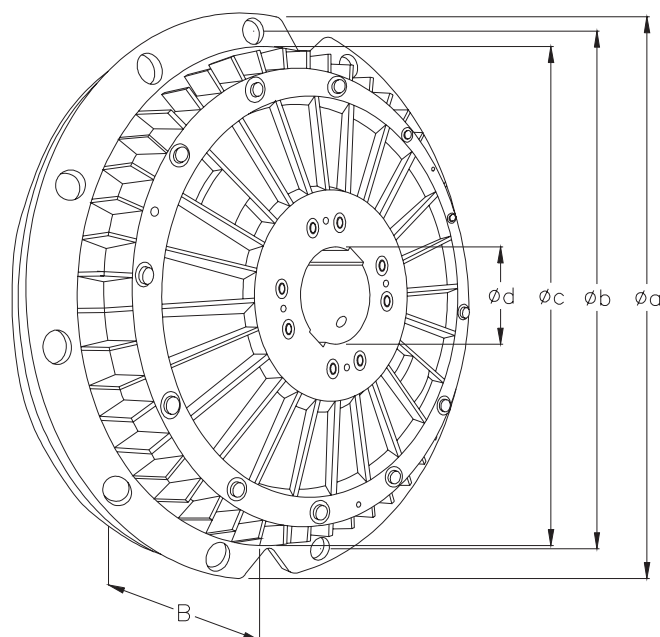


Plate type: 349

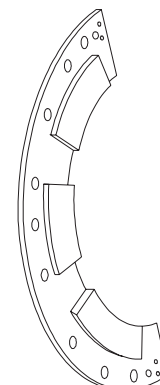


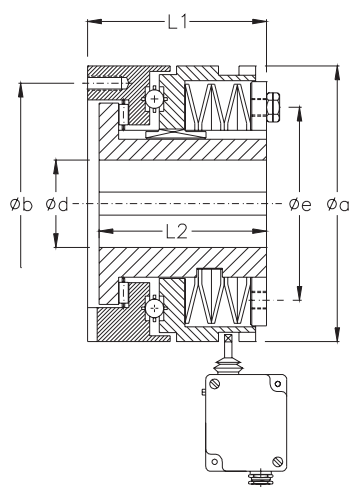
Plate type: 149

mm when not indicated

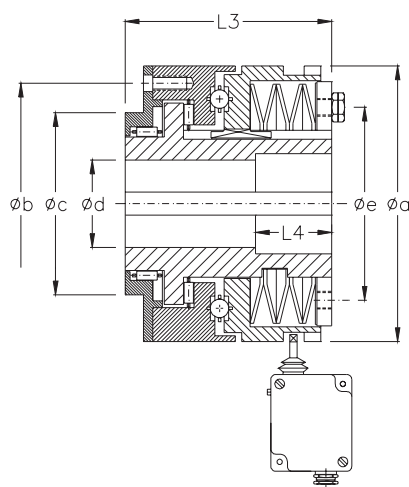
Article ID. No	Clutch	Brake	Width	Diameter				RPM	Air
	Torque Nm		B	Ø a	Ø b	Ø c	Ø d	Max.	Press.
# 3115.0-420-xxx size 40	550	350	66	275	255	236	40/45	2.250	5,5 bar
# 3115.0-420-xxx size 50	1.050	700	82	347	325	304	50/55/60/65	1.750	5,5 bar
# 3115.0-420-xxx size 61	2.150	1.500	100	435	408	380	55/60/70/75	1.400	5,5 bar
# 3115.0-420-xxx size 62	2.600	2.100	112	435	408	380	max. 90	1.500	5,5 bar
# 3115.0-420-xxx size 67	3.500	2.800	125	482	450	420	max. 95	1.400	5,5 bar
# 3115.0-420-xxx size 72	4.900	3.900	140	535	500	465	max. 105	1.250	5,5 bar
# 3115.0-420-xxx size 77	7.700	6.100	160	620	584	543	max. 125	1.100	5,5 bar
# 3115.0-420-xxx size 80	10.000	8.100	185	680	640	593	max. 145	1.000	5,5 bar
# 3115.0-420-xxx size 83	15.000	11.900	205	775	725	675	max. 160	850	5,5 bar
# 3115.0-420-xxx size 87	21.500	17.400	230	865	810	755	max. 180	750	5,5 bar
# 3115.0-420-xxx size 90	29.000	22.500	248	950	890	830	max. 200	700	5,5 bar
# 3115.0-420-xxx size 91	39.000	29.000	260	1.025	965	905	max. 220	630	5,5 bar

xxx= Type 349 or 149

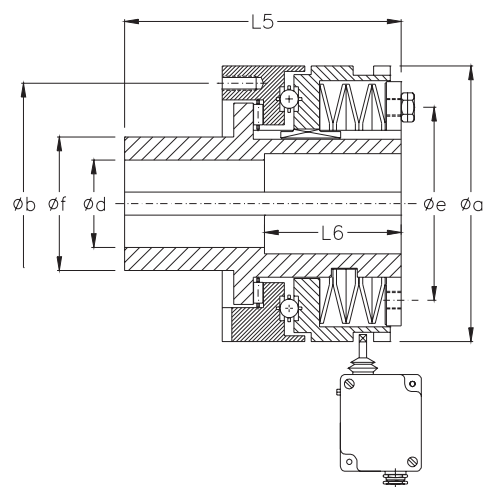
Types 0-400-329, 0-400-123 and 0-420-143 available as well. Measurements may vary with clutch serial numbers and models. Please inquire. On request we can send a detailed data sheet and drawing.



3117.400.xxx-x.0
Flange form



3117.400.xxx-x.5
Short hub form



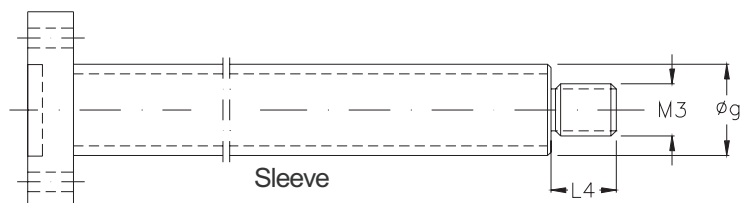
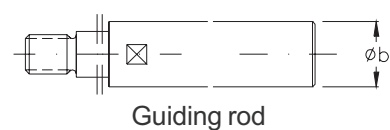
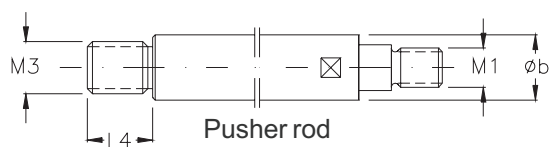
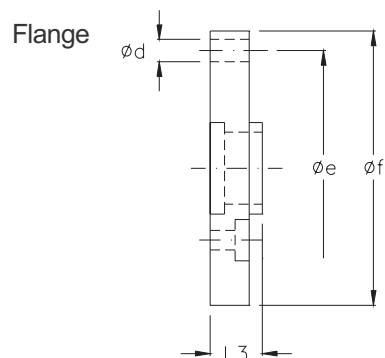
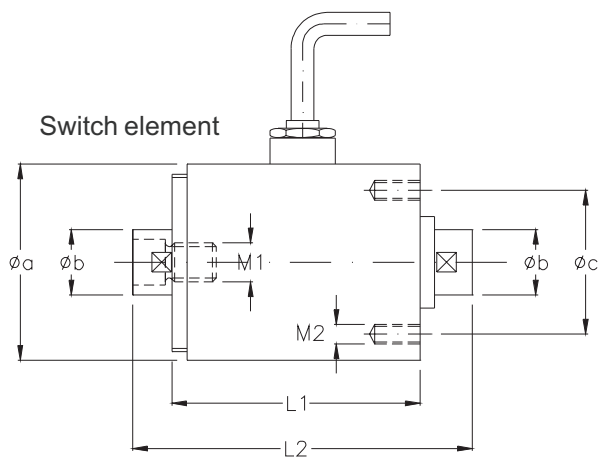
3117.400.xxx-x.1
Long hub form

mm when not indicated

Article ID. No	Basic Measures				Flange Form		Short Hub Form			Long Hub Form		
	Ø a	Ø b	Ø d	Ø e	L1	L2	L3	L4	Ø c	L5	L6	Ø f
y=					y=0		y=5			y=1		
# 3117.400.xxx.0.y	55	48	8 - 20	37	38,5	34,5	51	15	38	66	25	28
# 3117.400.xxx.1.y	82	70	11 - 25	50	52	48	70	20	50	85	35	38
# 3117.400.xxx.2.y	100	89	15 - 35	67	61	56	78	25	60	100	45	52
# 3117.400.xxx.3.y	120	105	19 - 45	84	78	73	96	30	80	125	60	65
# 3117.400.xxx.4.y	146	125	25 - 55	104	99,5	93	124	30	100	152	60	78
# 3117.400.xxx.5.y	176	155	30 - 65	125	113,5	107	140	30	120	171	60	90
# 3117.400.xxx.6.y	200	160	40 - 75	-	119	112	150	25	130	183	55	108

Torque limits Mg in Nm for overload switching

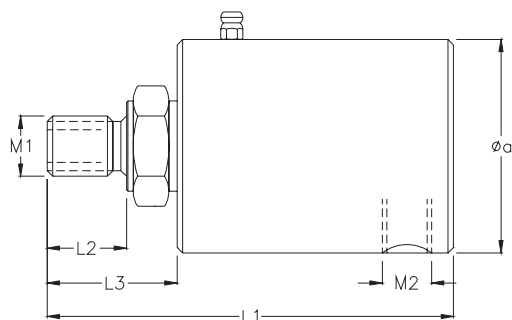
Article ID. No	Ratcheting Version			Synchronous Version		
xxx=	400	500	600	405	505	605
# 3117.400.xxx.0.y	2,5 - 5	5 - 10	10 - 20	5 - 10	10 - 20	20 - 40
# 3117.400.xxx.1.y	6 - 12	12 - 25	25 - 50	12 - 25	25 - 50	50 - 100
# 3117.400.xxx.2.y	12 - 25	25 - 50	50 - 100	25 - 50	50 - 100	100 - 200
# 3117.400.xxx.3.y	25 - 50	50 - 100	100 - 200	50 - 100	100 - 200	200 - 400
# 3117.400.xxx.4.y	50 - 100	100 - 200	200 - 400	100 - 200	200 - 400	400 - 800
# 3117.400.xxx.5.y	87 - 175	175 - 350	350 - 700	175 - 350	350 - 700	700 - 1.400
# 3117.400.xxx.6.y	150 - 300	300 - 600	600 - 1.200	400 - 800	800 - 1.400	-



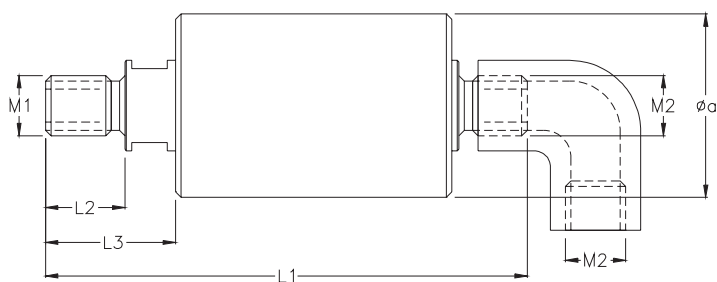
mm when not indicated

Article ID. No	Basic Measures							Flange				Sleeve + Rods		
	Ø a	Ø b	Ø c	L1	L2	M1	M2	Ø d	Ø e	Ø f	L3	Ø g	L4	M3
# 3119.300.xxx.1	30	10	22	38	52	M6x0,75	M3	3,4	36	42	8	14	10	M8
# 3119.300.xxx.2	37	14	28	53	75	M10x0,75	M5	5,5	46	55	10	19	15	M12
# 3119.300.xxx.3	48	20	37	70	95	M12x1	M6	6,6	60	70	12	26	20	M16
# 3119.300.xxx.4	68	30	52	95	130	M20x1	M8	9	82	95	15	38	30	M24x2
# 3119.300.xxx.5	95	40	72	142,5	190	M24x1,5	M10	11	112	128	21	55	35	M30x2
# 3119.300.xxx.6	120	50	90	180	230	M30x1,5	M12	13,5	140	158	30	70	42	M36x3

Article ID. No	Disengaging force in Newton			Stroke
	xxx=	400	500	
# 3119.300.xxx.1		75 - 200	200 - 500	200
# 3119.300.xxx.2		200 - 500	500 - 800	300
# 3119.300.xxx.3		300 - 600	600 - 2.000	400
# 3119.300.xxx.4		-	2.000 - 6.000	500
# 3119.300.xxx.5		3.000 - 7.500	6.000 - 12.000	600
# 3119.300.xxx.6		6.000 - 12.000	12.000 - 30.000	700



Radial infeed

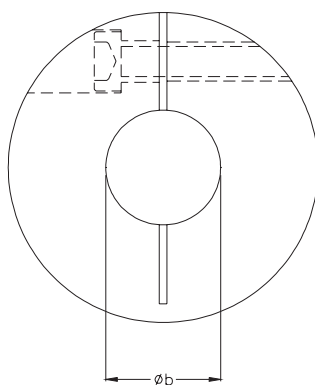
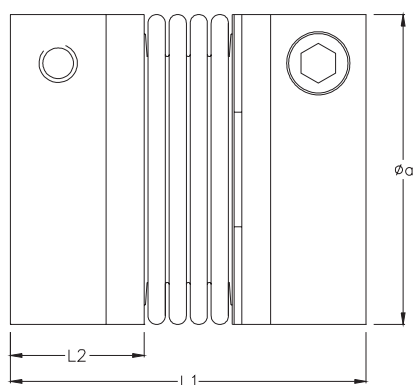


Axial infeed



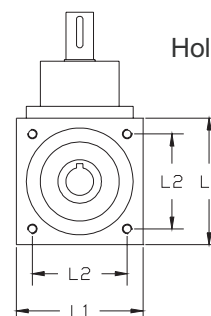
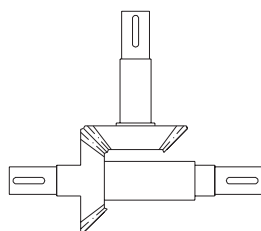
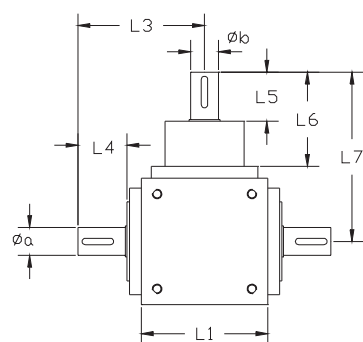
mm when not indicated

Article ID. No	Thread		Diameter	Length			Pneumatic	Hydraulic
	M1*	M2	Ø a	L1	L2	L3	Maximum bar	
Radial infeed								
# 3121.R.G3/8.R	G3/8" R	3/8"NPT	43,6	100	16	27	10 bar	35 bar
# 3121.R.G1/2-A-*	G1/2" R/L	1/2"NPT	57,1	113	19	34	10 bar	50 bar
# 3121.R.G1/2-B-*	G1/2" R/L	1/2"NPT	73	121	19	34	10 bar	70 bar
# 3121.R.G3/4-*	G3/4" R/L	3/4"NPT	73	128	19	34	10 bar	70 bar
# 3121.R.G1.-*	G1" R/L	1"NPT	82,6	150	22	42	10 bar	70 bar
Axial infeed								
# 3121.A.G3/8-*	G3/8" R/L	G3/8"	42	93	16	26	10 bar	60 bar
# 3121.A.G1/2-*	G1/2" R/L	G1/2"	55	109	19	34	10 bar	60 bar
# 3121.A.G3/4-*	G3/4" R/L	G3/4"	63	122	19	34	10 bar	60 bar
# 3121.A.G1-*	G1" R/L	G1"	80	140	22	43	10 bar	40 bar
* R= Right-hand thread, L= Left-hand thread, available as well with metric thread. Please inquire for details.								

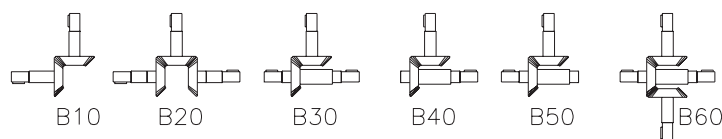
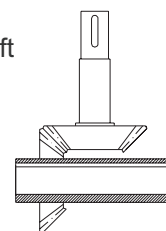


mm when not indicated

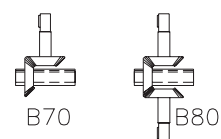
Article ID. No	Diameter		Length		Torque	Max. mismatch	
	$\varnothing a$	$\varnothing b$	L1	L2	max. Nm	Axial	Lateral
# 3123.15/59	49	8 - 28	59	23	15	1	0,15
# 3123.05/66	49	8 - 28	66	23	15	2	0,2
# 3123.20/69	55	10 - 28	69	27	20	1	0,2
# 3123.20/77	55	10 - 28	77	27	20	2	0,25
# 3123.30/69	55	10 - 28	69	27	30	1	0,2
# 3123.30/77	55	10 - 28	77	27	30	2	0,25
# 3123.40/82	66	12 - 32	82	32	40	1,5	0,2
# 3123.40/92	66	12 - 32	92	32	40	2	0,25
# 3123.60/83	66	12 - 32	83	32	60	1,5	0,2
# 3123.60/93	66	12 - 32	93	32	60	2	0,25
# 3123.80/94	81	14 - 40	94	36	80	2	0,2
# 3123.80/106	81	14 - 40	106	36	80	3	0,25
# 3123.150/95	81	19 - 40	95	36	150	2	0,2
# 3123.150/107	81	19 - 40	107	36	150	3	0,25
# 3123.200/105	90	22 - 45	105	41	200	2	0,25
# 3123.200/117	90	22 - 45	117	41	200	3	0,3
# 3123.300/111	110	30 - 56	111	43	300	2,5	0,25
# 3123.300/125	110	30 - 56	125	43	300	3,5	0,3



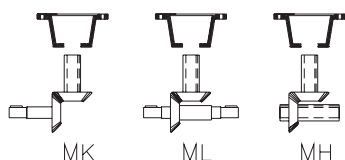
Hollow shaft



Solid shaft



Hollow shaft

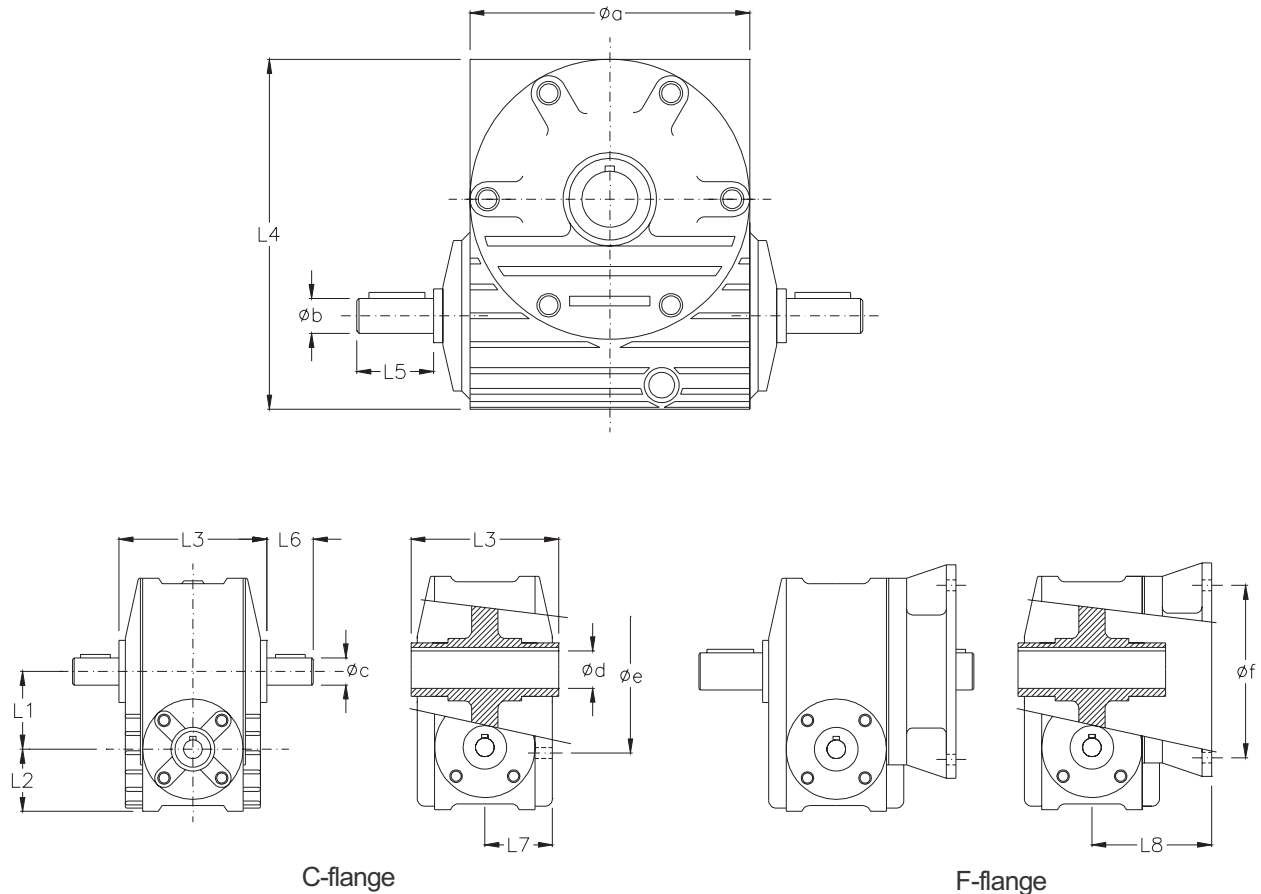


Hollow shaft with Flange



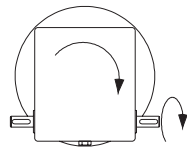
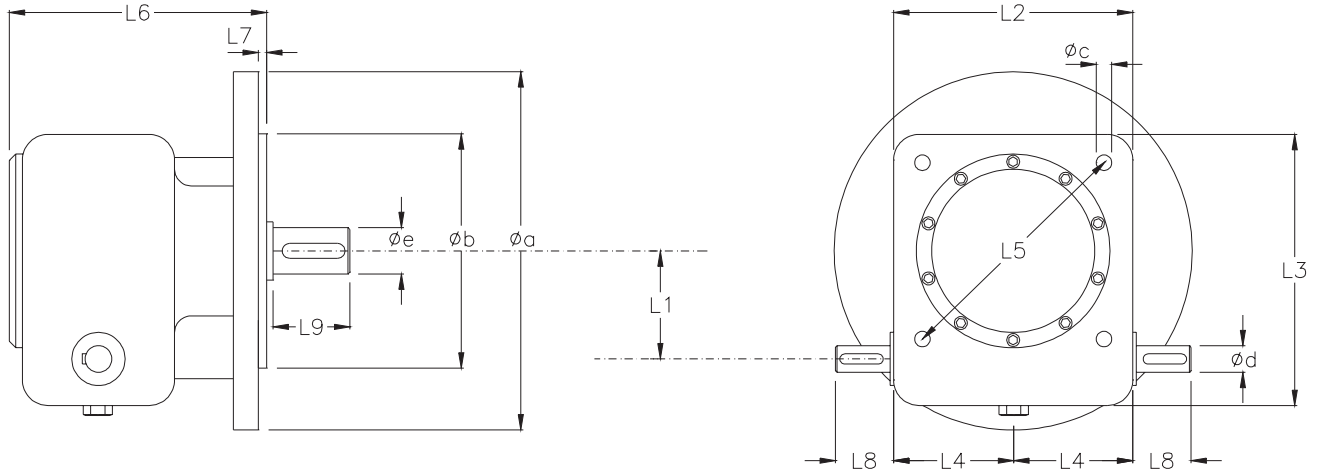
mm when not indicated

Article ID. No	Length		Type x=
	L1 / Cube	L2	available in form:
# 3201.00-x-y	65 x 65 x 65	45	B10, B20, B30, B40, B50, B60, MK, ML,MH
# 3201.01-x-y	90 x 90 x 90	70	B10, B20, B30, B40, B50, B60, B70, B80, MK, ML, MH
# 3201.02-x-y	120 x 120 x 120	100	B10, B20, B30, B40, B50, B60, B70, B80, MK, ML, MH
# 3201.23-x-y	140 x 140 x 140	110	B30, B40, B50, B60, B70, B80, MK, ML, MH
# 3201.25-x-y	160 x 160 x 160	120	B10, B20, B30, B40, B50, B60, B70, B80, MK, ML, MH
# 3201.30-x-y	200 x 200 x 200	160	B10, B20, B30, B40, B50, B60, B70, B80, MK, ML, MH
# 3201.37-x-y	230 x 230 x 230	180	B10, B20, B30, B40, B50, B60, B70, B80, MK, ML, MH
# 3201.04-x-y	260 x 260 x 260	220	B30, B40, B50, B60, B70, B80, MK, ML, MH
Standard ratios y=	1:1 / 1:1,5, / 1:2 / 1:3 / 1:4 / 1:5 / 1:6		
Special ratios y=	1:1,25 / 1:2,5 / 1:3,5 / 1:4,5 / 1:5,5		
Measurements L3, L4, L5, L6, L7, Ø a, Ø b are depending on ratio and size. Please inquire for drawing.			
Torque are depending to ratio, speed and size. A torque ratio chart can be given on request.			

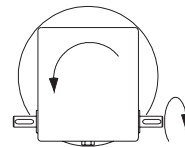


mm when not indicated

Article ID. No	Length				Diam.	Shaft			C-flange		F-flange	
	L1	L2	L3	L4	Ø a	Ø b x L5	Ø c x L6	Ø d	Ø e	L7	Ø f	L8
# 3203.063-x *	63	45	120	190	164	18 x 28	30 x 58	30	130	60	130	95
# 3203.080-x *	80	55	140	237	204	24 x 36	38 x 58	38	165	70	165	110
# 3203.100-x	100	80	190	300	240	30 x 58	48 x 82	48	210	95	215	130
# 3203.125-x	125	92	210	359	284	38 x 58	55 x 82	55	254	105	265	145
# 3203.160-x	160	115	250	452	354	42 x 82	65 x 105	65	320	125	350	170
# 3203.200-x	200	140	310	555	430	48 x 82	80 x 130	80	390	155	400	210
# 3203.S853 *	127	75	128	342	256	Plate: 450x273x12, Shafts: R38x90, L32x60, OF45x110						
Standard ratios x= 5:1 / 7,5:1 / 10:1 / 13:1 / 15:1 / 20:1 / 26:1 / 30:1 / 40:1 / 53:1 / 62:1 / 82:1												
* Outer form and position of holes are different as shown here. Please inquire for drawing.												



Type ...R-x

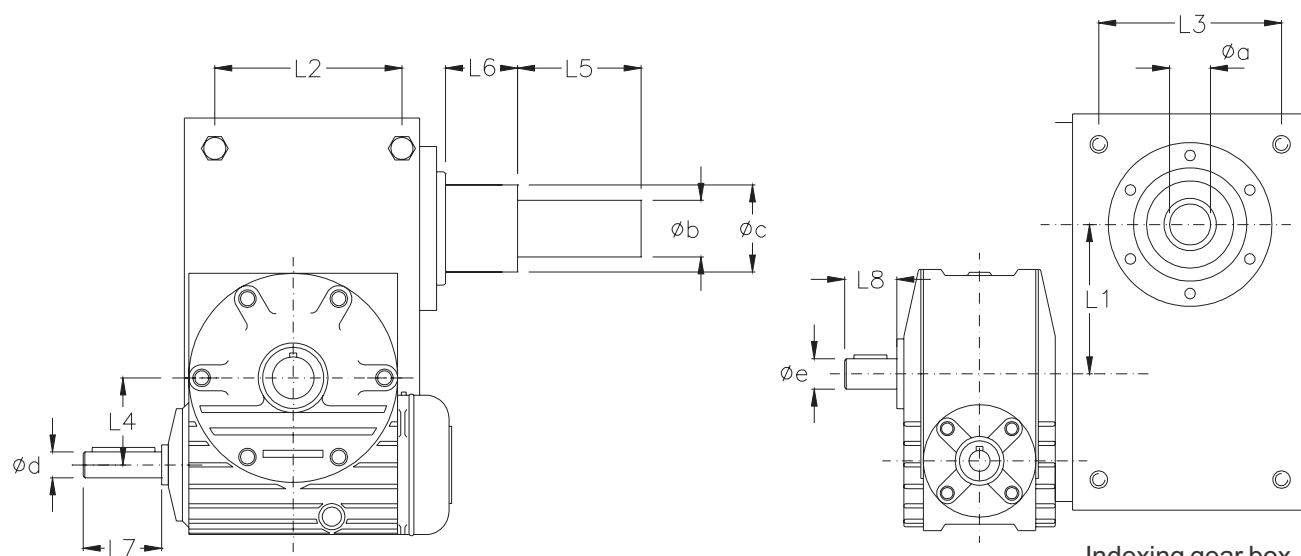


Type ...L-x



mm when not indicated

Article ID. No	Ratio	Length							Diameter			Shaft input	Shaft output
	Q	L1	L2	L3	L4	L5	L6	L7	ϕa	ϕb	ϕc	$\phi d \times L8$	$\phi e \times L9$
# 3205.50R-x	10:1	50	114	138	60	130	139	3	160	110	9	14 x 30	20 x 40
# 3205.65R-x	10:1	65	144	171	75	165	152	3	200	130	11	16 x 35	28 x 55
# 3205.65L-x	10:1	65	144	171	75	165	152	3	200	130	11	16 x 35	28 x 55
# 3205.80R-x	10:1	80	180	210	93	215	177	4	250	180	14	20 x 40	35 x 70
# 3205.80L-x	10:1	80	180	210	93	215	177	4	250	180	14	20 x 40	35 x 70
x= S		Seals from NBR rubber, for temperatures up to 80°C constantly working											
x= VIT		Seals from VITON rubber, for temperatures up to 120°C constantly working											



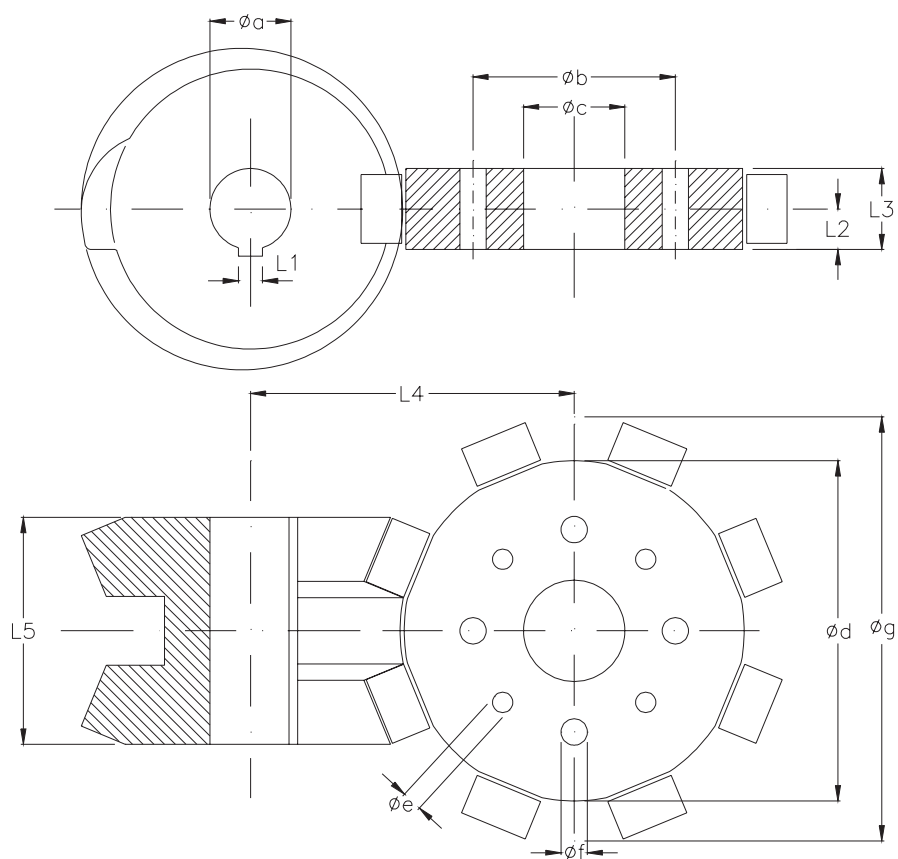
Indexing gear box

Worm gear box
3203.F 100

mm when not indicated

Article ID. No	Stops	Length				Diameter	Shaft	
Indexing gearbox	X	L1	L2	L3	L4	Ø a	Ø b x L5	Ø c x L6
# 3209.008.T2H2	8	171,5	215	210	100	47	65 x 142	100 x 83
# 3209.010.T2H2	10	171,5	215	210	100	47	65 x 142	100 x 83
# 3209.012.T2H2	12	171,5	215	210	100	47	65 x 142	100 x 83

Article ID. No	Ratio	Shaft	
Worm gearbox	Q	Ø d x L7	Ø e x L8
# 3203.F 100	10	30 x 90	35 x 60

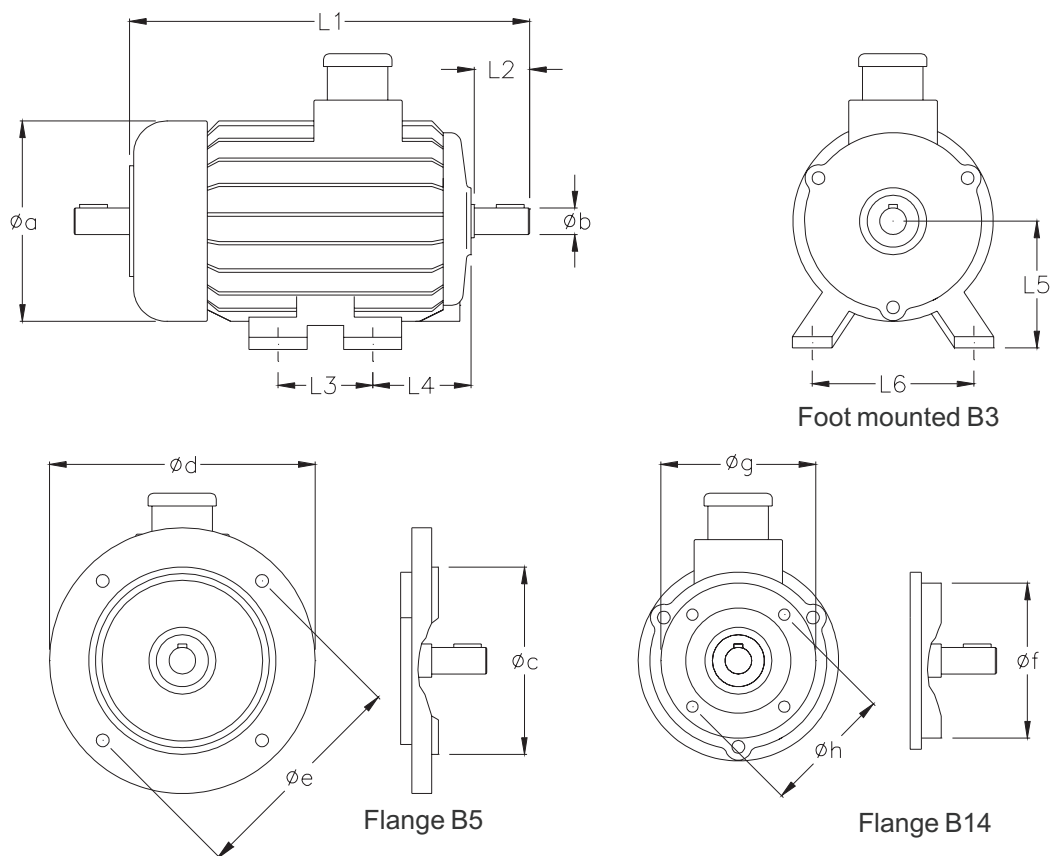


mm when not indicated

With an inquiry please indicate:

Fabrication number of indexing gear box, or:
 Measurements as indicated here, angle of movement of the cam, angle of dwell of the cam (standstill).

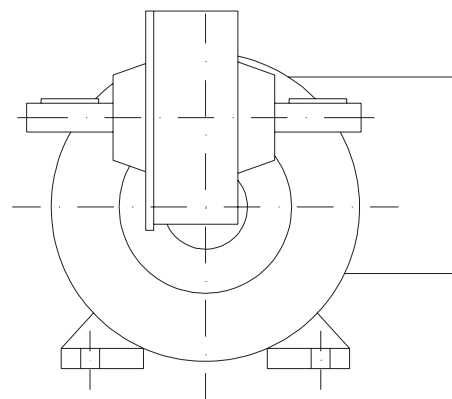
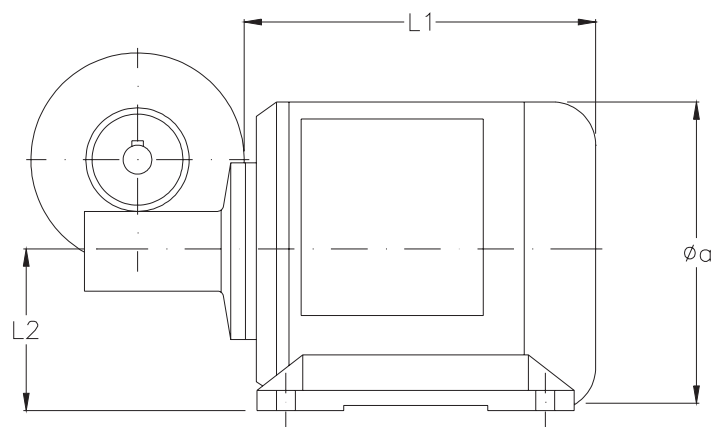
3-Phase standard motors



mm when not indicated

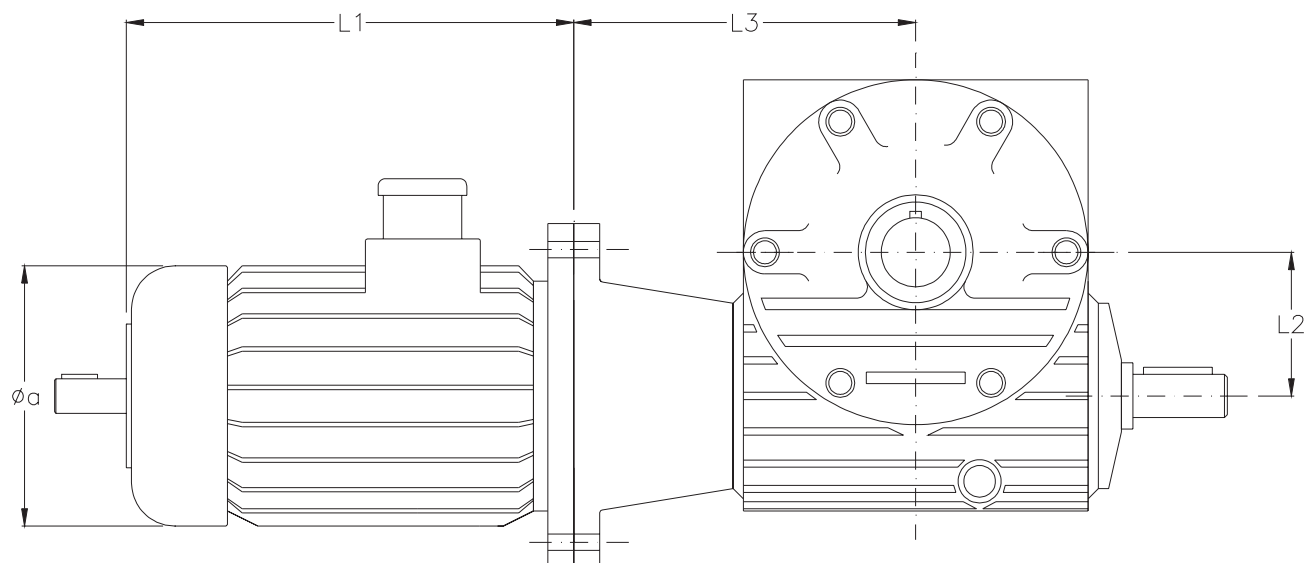
Article ID. No	Length	Diameter	Shaft	Foot mounted B3				Flange B5			Flange B14		
	L1	Ø a	Ø b x L2	L3	L4	L5	L6	Ø c	Ø d	Ø e	Ø f	Ø g	Ø h
# 3301.063.M	202,5	118	11 x 23	80	40	63	100	95	140	115	60	90	75
# 3301.071.M	240	145	14 x 30	90	45	71	112	110	160	130	70	105	85
# 3301.080.M	274	162	19 x 40	100	50	80	125	130	200	165	80	120	100
# 3301.090.S	332	181	24 x 50	100	56	90	140	130	200	165	95	140	115
# 3301.090.L	332	181	24 x 50	100	56	90	140	130	200	165	95	140	115
# 3301.100.L	373	202	28 x 60	140	63	100	160	180	250	215	110	160	130

Standard motors in European specification 50 Hz, CEMEP standard
Available also in American specification 60 Hz, EPACT standard



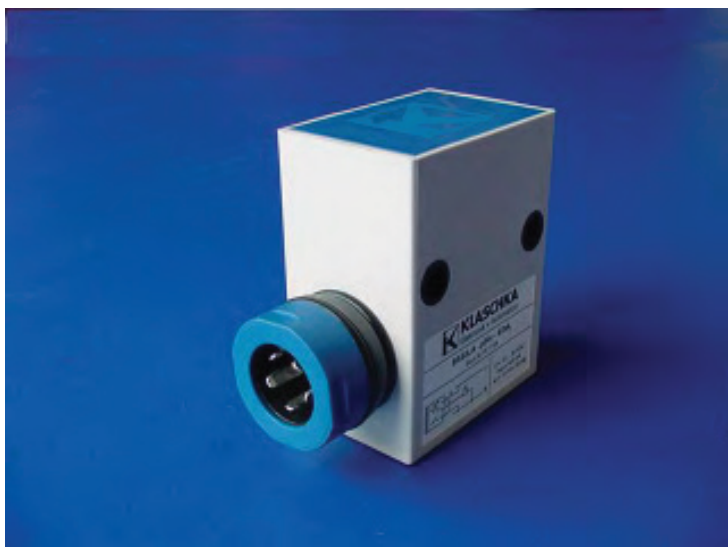
mm when not indicated

Article ID. No	Motor		Input	Length		Diameter
	RPM	Torque Ncm	Watt	L1	L2	Ø a
# 3303.M-GD-P06-1	1.370	42	60	164	56	110,5
# 3303.M-GD-P09-1	1.370	63	90	164	56	110,5
# 3303.M-GD-P12-1	1.360	84	120	164	56	110,5
# 3303.M-GD-P18-1	1.380	125	180	164	56	110,5
# 3303.M-GD-P12-2	2.750	84	120	164	56	110,5
# 3303.M-GD-P18-2	2.780	125	180	183	63	123
# 3303.M-GD-P25-2	2.820	125	250	183	63	123
Gear box types: G12, GF12, GF129 available in ratios: 5:1 / 7:1 / 10:1 / 12:1 / 15:1 / 24:1 / 30:1 / 38:1 / 50:1 / 55:1 / 75:1						
2-step gear boxes available in ratios: 90:1 / 120:1 / 150:1 / 180:1 / 240:1 / 288:1 / 360:1 / 432:1 / 576:1 / 720:1 / 960:1 / 1.216:1 / 2.128:1 / 3.080:1 / 4.200:1, measurements are different to above.						
Order information: motor size / voltage + cycles / type of gearbox / ratio / brake: yes - no						
All types available with AC brake.						



mm when not indicated

Article ID. No	Gear box			Motor 4-pole, 50 Hz, details see group 3301						
	Type	L2	L3	Type	kW	RPM	Ø a	Flange	L1	L1
									Standard	With brake
# 3305.M-SG 63-71-0,25-x	S63	63	163	71M	0,25	1.500	148	160	208	228
# 3305.M-SG 63-71-0,37-x	S63	63	163	71M	0,37	1.500	148	160	208	228
# 3305.M-SG 63-80-0,55-x	S63	63	175	80M	0,55	1.500	170	200	234	245
# 3305.M-SG 63-80-0,75-x	S63	63	175	80M	0,75	1.500	170	200	234	245
# 3305.M-SG 63-80-1,1-x	S63	63	185	90S	1,1	1.500	185	200	247	273
# 3305.M-SG 80-80-0,55-x	S80	80	183	80M	0,55	1.500	170	160	234	245
# 3305.M-SG 80-80-0,75-x	S80	80	183	80M	0,75	1.500	170	160	234	245
# 3305.M-SG 80-90S-1,1-x	S80	80	195	90S	1,1	1.500	185	200	247	273
# 3305.M-SG 80-90L-1,5-x	S80	80	205	90L	1,5	1.500	185	200	272	298
# 3305.M-SG 100-90S-1,1-x	S100	100	235	90S	1,1	1.500	185	200	247	273
# 3305.M-SG 100-90L-1,5-x	S100	100	245	90L	1,5	1.500	185	250	272	298
# 3305.M-SG 100-100L-2,2-x	S100	100	265	100L	2,2	1.500	210	300	301	348
Gearbox ratios x= 5:1 / 7,5:1 / 10:1 / 13:1 / 15:1 / 20:1 / 26:1 / 30:1 / 40:1 / 53:1 / 62:1 / 82:1										
Other sizes and other gear boxes on request.										



Type BAS/L/A



Connecting plug
for BAS/L/A



Type IBD-40

mm when not indicated

Article ID. No	Poles	Operating		Load	No-load Current	Switching Frequency
	Connect.	Distance	Voltage	Current	Voltage Drop	Min. Damping Time
# 3401.001.000 BAS/L/A-p34v-II/3sk	3-pole	10	12 / 24 / 30 Volt DC	≤ 400 mA	≤ 20 mA ≤ 2,5 V	≤ 150 Hz ≥ 2 ms
# 3401.002.000 IBD-40fv114b20-12K2B	4-pole	20	12 / 24 / 30 Volt DC	≤ 400 mA	≤ 20 mA ≤ 2,5 V	≤ 150 Hz ≥ 2 ms
# 3401.003.000 IBD-40fv114b20-12S1B	4-pole	20	12 / 24 / 30 Volt DC	≤ 400 mA	≤ 20 mA ≤ 2,5 V	≤ 150 Hz ≥ 2 ms
# 3401.004.000 BAS/L/A-m30rg-II/1sk	3-pole	8	12 / 24 / 30 Volt DC	≤ 400 mA	≤ 20 mA ≤ 2,5 V	≤ 300 Hz ≥ 1 ms
# 3401.005.000 BAS/L/A-m30rg-II/2sk	3-pole	8	12 / 24 / 30 Volt DC	≤ 400 mA	≤ 20 mA ≤ 2,5 V	≤ 300 Hz ≥ 1 ms
# 3401.006.000	Input: signal SEN-B, Output: 1 relais, Supply: 24 Volt / AC-DC, 230 / 115 VAC					



mm when not indicated

Article ID. No	Poles	Operating		Load	No-load Current	Switching Frequency
	Connect.	Distance	Voltage	Current	Voltage Drop	Min. Damping Time
# 3403.001.000 IAD-12mg50b2-1S1A	3 - plug 3	2	8 / 24 / 30 Volt DC	R 400 mA	R 10 mA R 2,5 V	R 3 kHz S 0,1 ms
# 3403.002.000 IAD-12mg60m4-1S1A	3 - plug 3	4	8 / 24 / 30 Volt DC	R 400 mA	R 10 mA R 2,5 V	R 1 kHz S 0,3 ms
# 3403.003.000 IAD-18mg70b8-1S1A	3 - plug 3	8	8 / 24 / 30 Volt DC	R 400 mA	R 10 mA R 2,5 V	R 1 kHz S 0,3 ms
# 3403.004.000 IAD-30mg70m15-1S1A	3 - plug 3	15	8 / 24 / 30 Volt DC	R 400 mA	R 10 mA R 2,5 V	R 300 Hz S 1 ms
# 3403.005.000	4	5m cable / PUR cable / with LED				
# 3403.006.000	4	5m cable / PUR cable / without LED				



mm when not indicated

Article ID. No	Operating		Output	Size	Switching Frequency
Standard	Distance	Voltage	Signal	Form	Min. Damping Time
# 3405.LS72/2-SE (Sender) # 3405.LS72/2-E (Receiver)	8 m	24 VDC	NPN	90 x 35 x 15	100 Hz
# 3405.RK72/2	4 m	24 VDC	NPN	90 x 35 x 15	100 Hz
# 3405.LS72/4	4 m	24 VDC	PNP	90 x 35 x 15	100 Hz

Article ID. No	Operating		Output	Size	Switching Frequency
Mini	Distance	Voltage	Signal	Form	Min. Damping Time
# 3405.LS71-SE (Sender) # 3405.LS71-E (Receiver)	0,8 m	-	-	threaded M10 with hex. nut	100 Hz
# 3405.RK72-SE (Sender) # 3405.RK72-E (Receiver)	0,8 m	-	-	cylinder 8 mm	100 Hz
# 3405.RK72	1,5 m	-	-	50 x 33 x 15	100 Hz
# 3405.Amplifier VS9/1 for Mini series	-	24 VDC	NPN / PNP	98 x 64 x 34	200 Hz

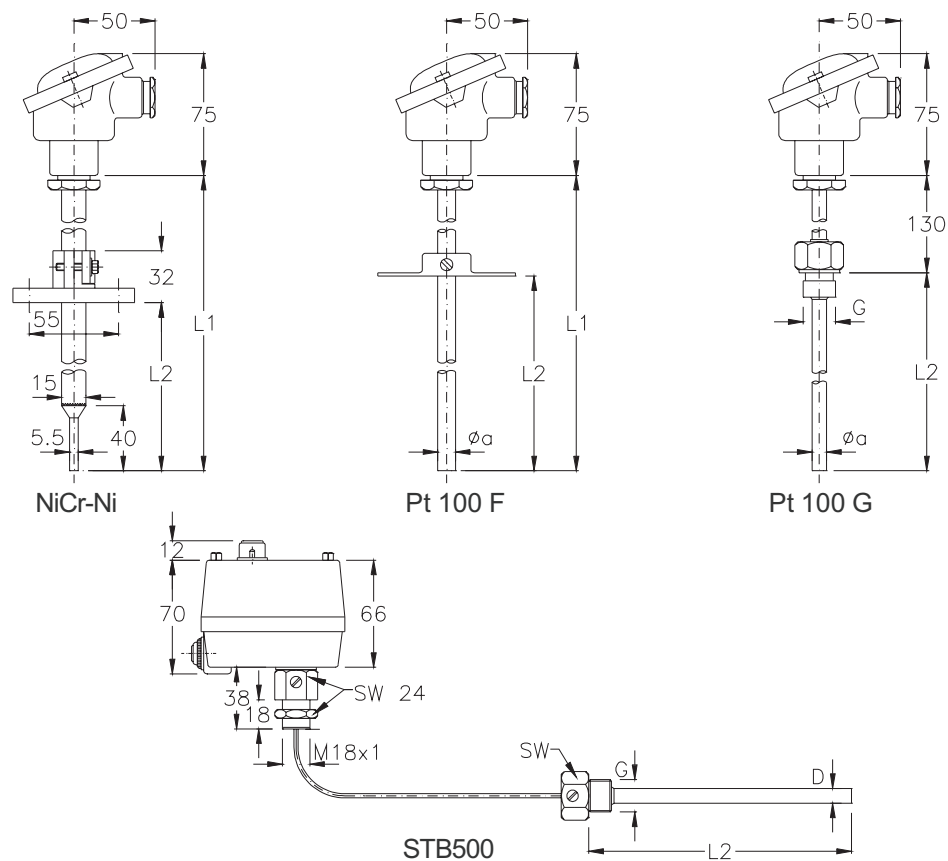
Article ID. No	Material	Temperature	Size	Fixing
		Maximum	Diameter	
# 3405.Reflector TG15	glas	120°C	15	screw M3
# 3405.Reflector TG29	glas	120°C	29	screw M3
# 3405.Reflector TG60	glas	120°C	66	screw M6



Encoders
and
Tachogenerators

Please require with data
on the name plate of the part.

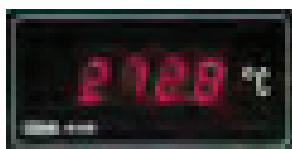




mm when not indicated

Article ID. No	Method	Temperature	Length		Diameter	Mounting System
	of Function	Maximum	L1	L2	Ø a	G
# 3409.NiCr-Ni	element	800°C	500	50 - 460	15 / 5,5	flange
# 3409.Pt100-400G	resistance	400°C	400	50 - 460	9	thread G1/2"
# 3409.Pt100-370F	resistance	400°C	410	100 - 370	11	flange
# 3409.Pt100-460F	resistance	400°C	500	100 - 460	11	flange
# 3409.STB500	pressure	+20°C - 500°C	1.000	300	8	flange

Article ID. No	Temperature	Wires	Resistance	Insulation
	Maximum	Type	/m	Material
# 3409.NiCr-Ni Special cable	180°C	2 x 0,5	2 Ohm/m	teflon / silicone rubber



mm when not indicated

Article ID. No	Panel cut		Supply voltage		Protection class	
	Height / Width	Depth	Low tension	High tension	Front side	Rear side
# 3411.dTRON 04.1 Square shape	96 x 96	90	20 - 53 VDC 0/48 - 63 Hz	93 - 263 VAC 48 - 63 Hz	IP 65	IP 20
# 3411.dTRON 08.V Rectangular upright	96 x 48	90	20 - 53 VDC 0/48 - 63 Hz	93 - 263 VAC 48 - 63 Hz	IP 65	IP 20
# 3411.dTRON 08.H Rectangular horizontal	48 x 96	90	20 - 53 VDC 0/48 - 63 Hz	93 - 263 VAC 48 - 63 Hz	IP 65	IP 20
Detailed description of "dTRON" on request.						



LOGOSCREEN®



LOGOSCREEN® 500

mm when not indicated

Article ID. No	Channels	Screen			Power supply	Panel cut
	Available	Type	Colours	Size	Voltage	Dimension
# 3415.LOGOSCREEN®	12 (ext.36)	STN	27 colours	5,7"	AC 93 - 263 V or: AC/DC 18 - 30 V	138 x 138
# 3415.LOGOSCREEN® 500	6	STN	27 colours	5"	AC 93 - 263 V or: AC/DC 18 - 30 V	138 x 138

3415.LOGOSCREEN® 500 tube line package:

1x # 3415.LOGOSCREEN® 500,

1x # 3409.NiCr-Ni thermocouple for annealing oven with its special cables,

5x # 3409.Pt 100 temperature sensor for drying ovens with its cables,

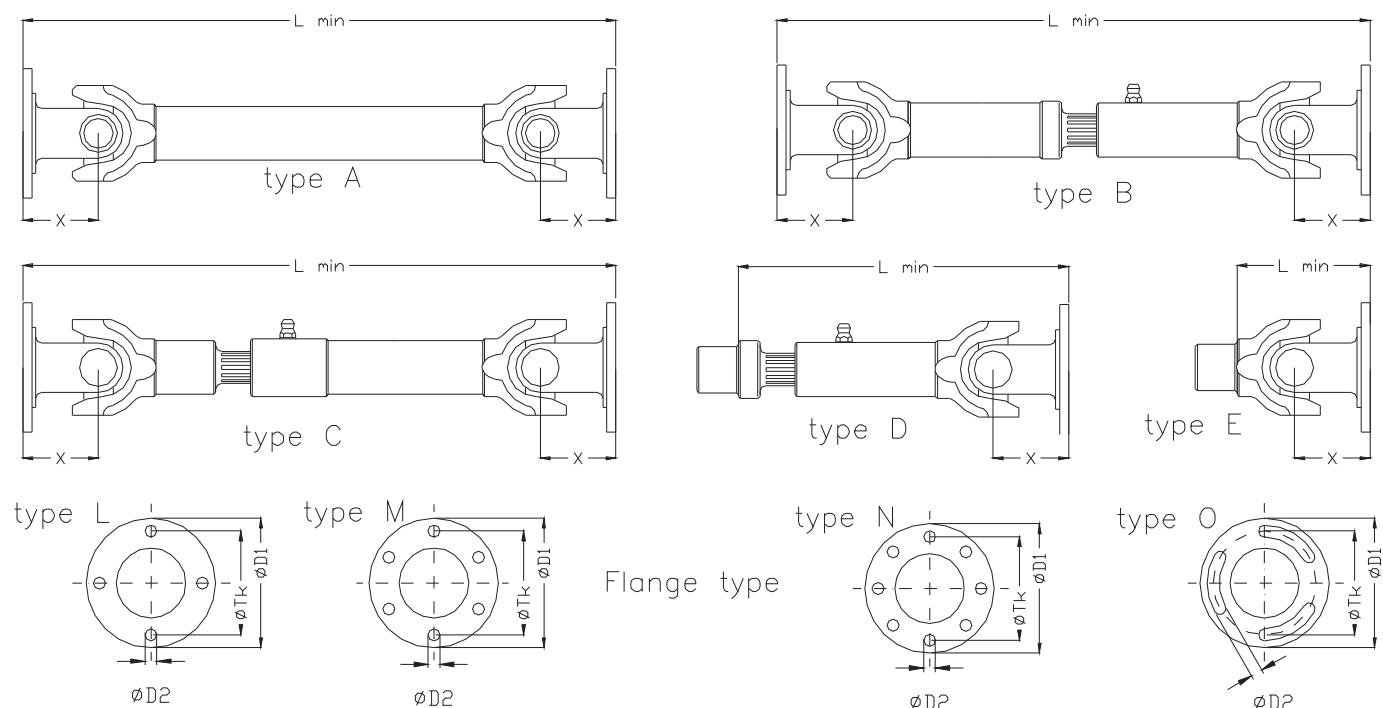
1x setup software, 1x PC evaluation software

3415.LOGOSCREEN® 500 aerosol can line package:

1x # 3415.LOGOSCREEN® 500,

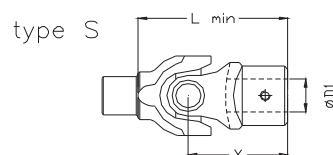
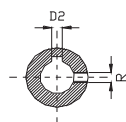
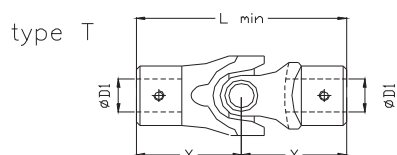
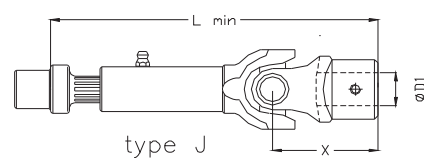
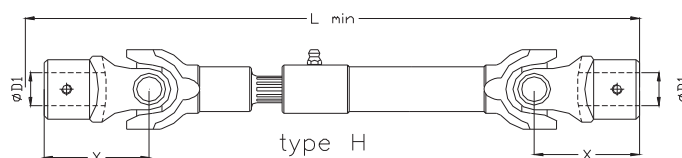
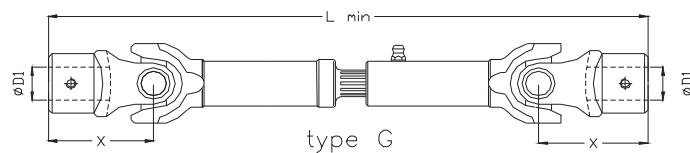
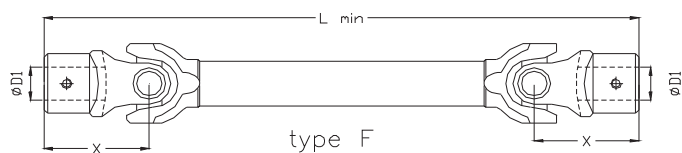
6x # 3409.Pt 100 temperature sensor for drying ovens with its cables,

1x setup software, 1x PC evaluation software



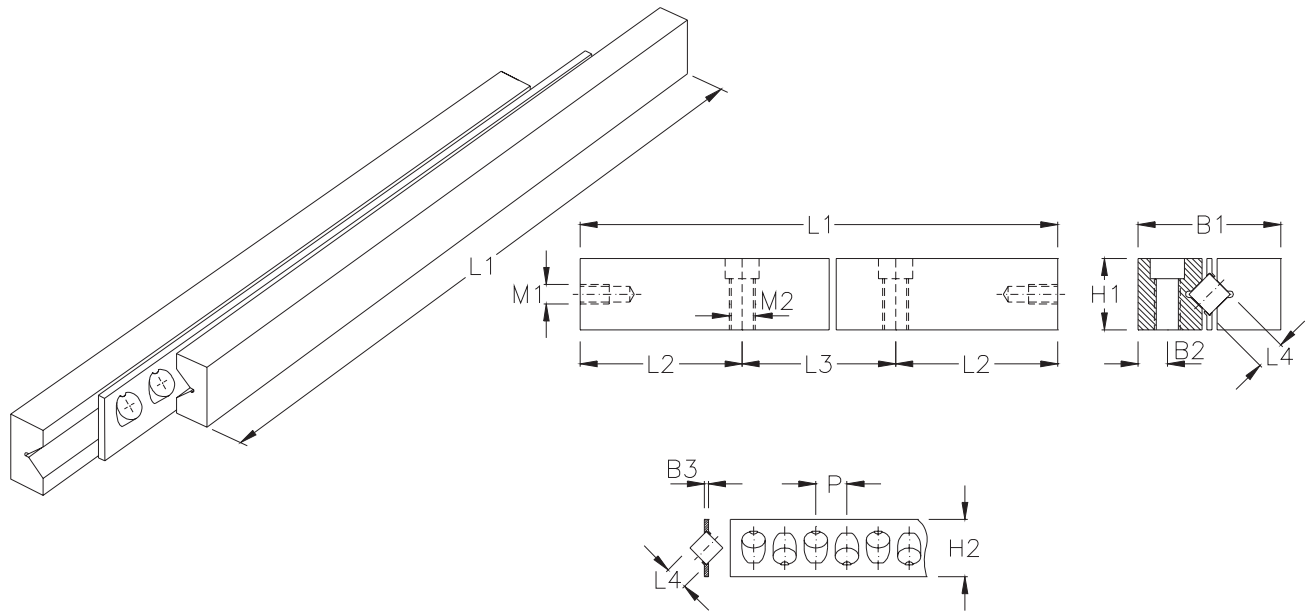
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Cardan type	Length	Distance	Flange type	Flange	Bore	Pitch Circle
	L min	X		ØD1	ØD2	ØTk
A						
B						
C						
D						
E						
Please indicate the cardan joints, flange type and the measurement !						
Please send all information back by email !						



mm when not indicated

Cardan type	Length	Bore	Distance	Keyway	Thread	Notice
	L min	ØD1h7	X	ØD2	R	
F						
G						
H						
J						
T						
S						
Please indicate the cardan joints and the measurement !						
Please send all information back by email !						

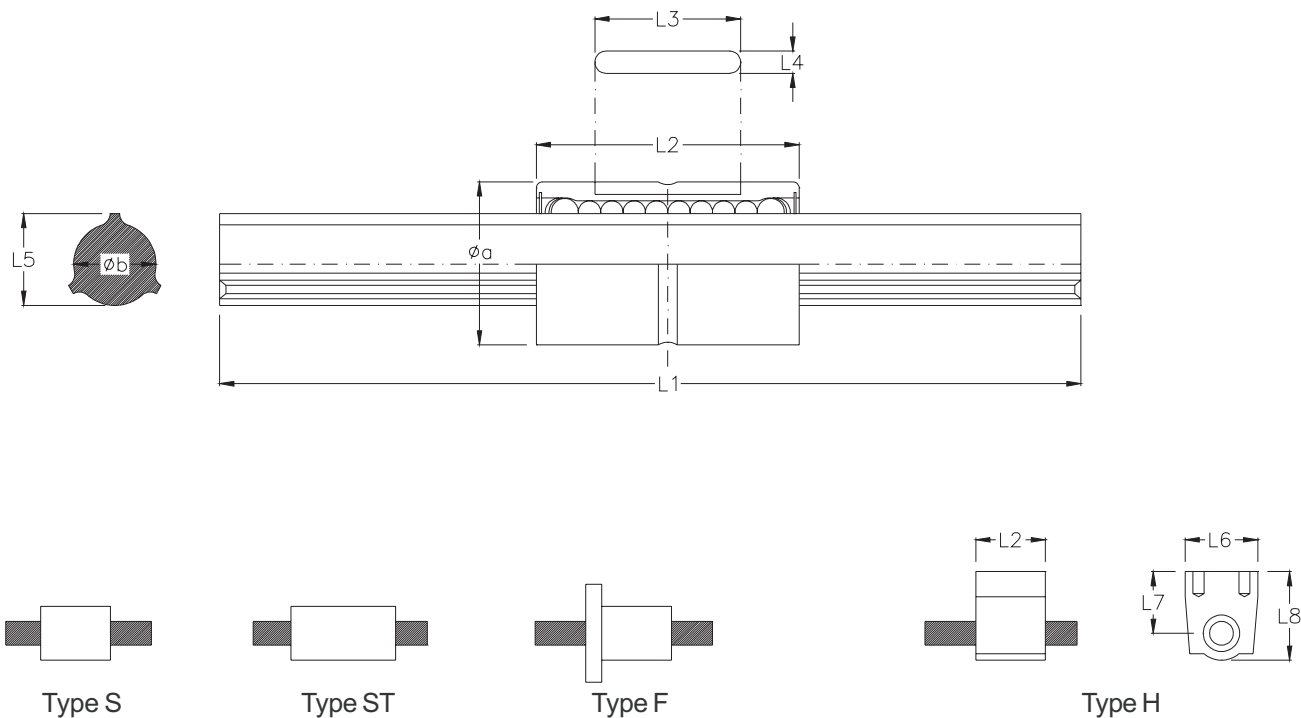


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Article ID. No	Length			Height	Width		Thread	
	L2	L3	L4	H1	B1	B2	M1	M2
# 3507.LIN-rail R 3-x	12,5	25	3	8	18	3,5	M3	M4
x= L1	100 / 125 / 150 / 175 / 200 / 225 / 250 / 275 / 300							
# 3507.LIN-rail R 6-x	25	50	6	15	31	6	M5	M6
x= L1	100 / 150 / 200 / 250 / 300 / 350 / 400 / 450 / 500							
# 3507.LIN-rail R 9-x	50	100	9	22	44	9	M6	M8
x= L1	200 / 300 / 400 / 500 / 600 / 700							

Article ID. No	Length		Height	Width	Pitch	Cage
	x= L1	L4	H2	B3	P	Material
# 3507.LIN-cage AA 3-x	No. of rollers x P	3	7,5	0,5	5	steel sheet
# 3507.LIN-cage AA 6-x	No. of rollers x P	6	14	0,8	12	steel sheet
# 3507.LIN-cage AA 9-x	No. of rollers x P	9	19,5	1	18	steel sheet

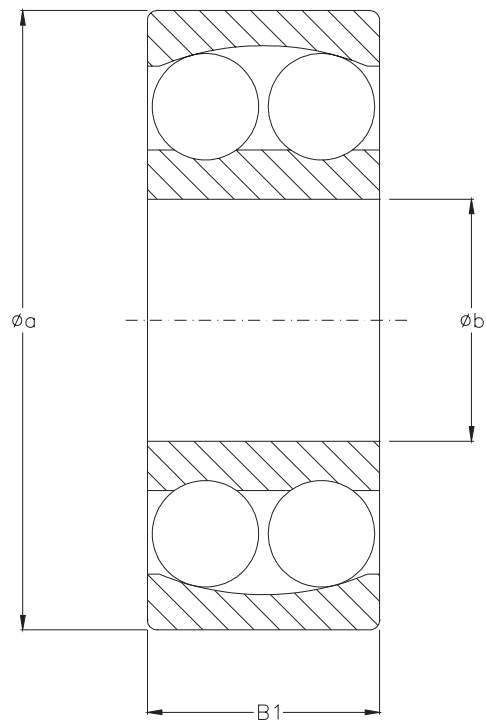
Also available ends and ball bearing execution.



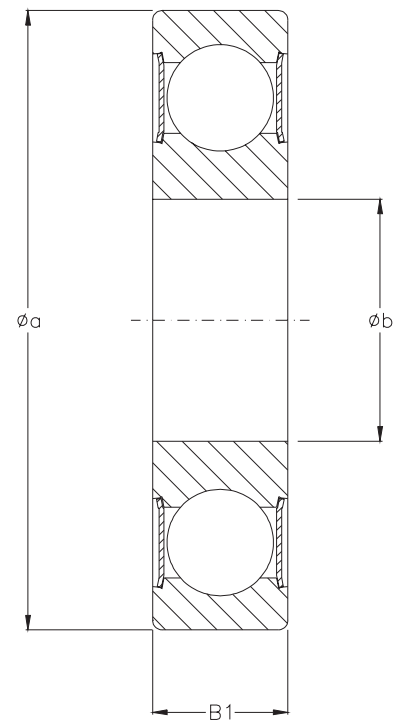
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Article ID. No	Type S		Type ST	Type F		Type H			
	Øa x L2	Key L3 x L4	Øa x L2	Øa x L2	Flange	L2	L6	L7	L8
# 3509.LIN-bush - 15-x	23 x 40	20 x 3,5	-	23 x 40	43 x 7	43	34	20	29
# 3509.LIN-bush - 20-x	30 x 50	26 x 4	30 x 60	30 x 50	49 x 7	62	48	26	38
# 3509.LIN-bush - 25-x	37x 60	33 x 5	37 x 70	37x 60	60 x 9	73	60	33	47,5
# 3509.LIN-bush - 30-x	45 x 70	41 x 7	45 x 80	45 x 70	70 x 10	83	70	39	57
# 3509.LIN-bush - 40-x	60 x 90	55 x 10	60 x 100	57 x 90	90 x 14	102	86	50	70
x= Type S / ST / F / H									

Article ID. No	Length		Diameter	Torque	Carrying	Machining
	L1	L5	Ø b	Dynamic	Capacity	of shaft ends
# 3509.LIN-shaft - 15-x	max. 3 m	14,5	11,7	30,4 Nm	4,4 kN	on request
# 3509.LIN-shaft - 20-x	max. 3 m	19,7	15,3	74,5 Nm	7,8 kN	on request
# 3509.LIN-shaft - 25-x	max. 3 m	24,5	19,5	154 Nm	13 kN	on request
# 3509.LIN-shaft - 30-x	max. 3 m	29,6	22,5	273 Nm	19,3 kN	on request
# 3509.LIN-shaft - 40-x	max. 3 m	39,8	31	599 Nm	31,9 kN	on request
x= Type S / ST / F / H						



Type 2305.C3/B



Type 6000/6001 Z

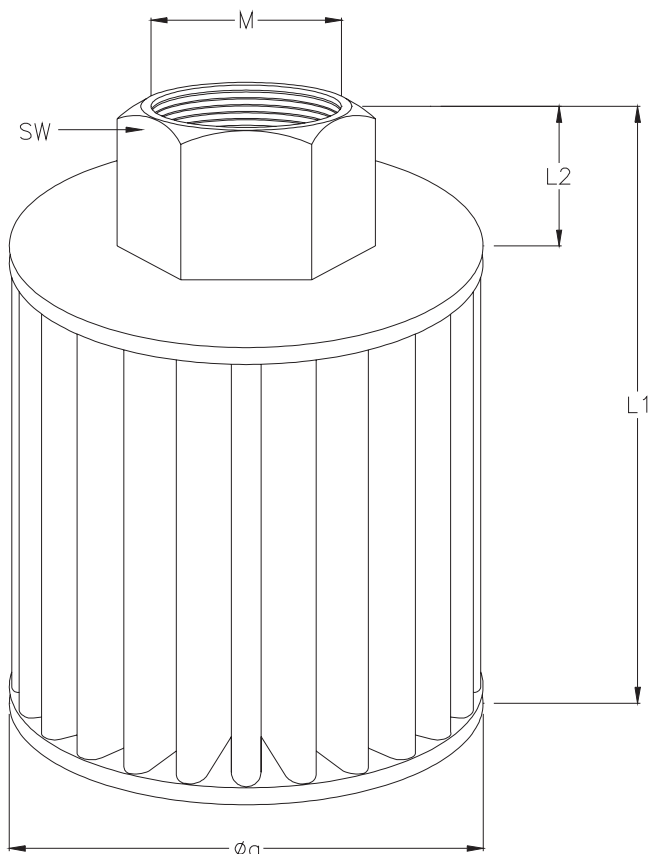


mm when not indicated

Article ID. No	Type	Width B1	Diameter		Ball	Cage
	of bearing		Ø a	Ø b		
# 3511.2305.C3	2305 C3	24	62	25	steel	steel sheet
# 3511.2305.C3B	2305 C3	24	62	25	steel	bronze
# 3511.6000.Z	6000 Z	8	26	10	steel	high speed plastic
# 3511.6001.Z	6001 Z	8	28	12	steel	high speed plastic
# 3511.6001.CER	6001	8	28	12	ceramic	PEEK plastic

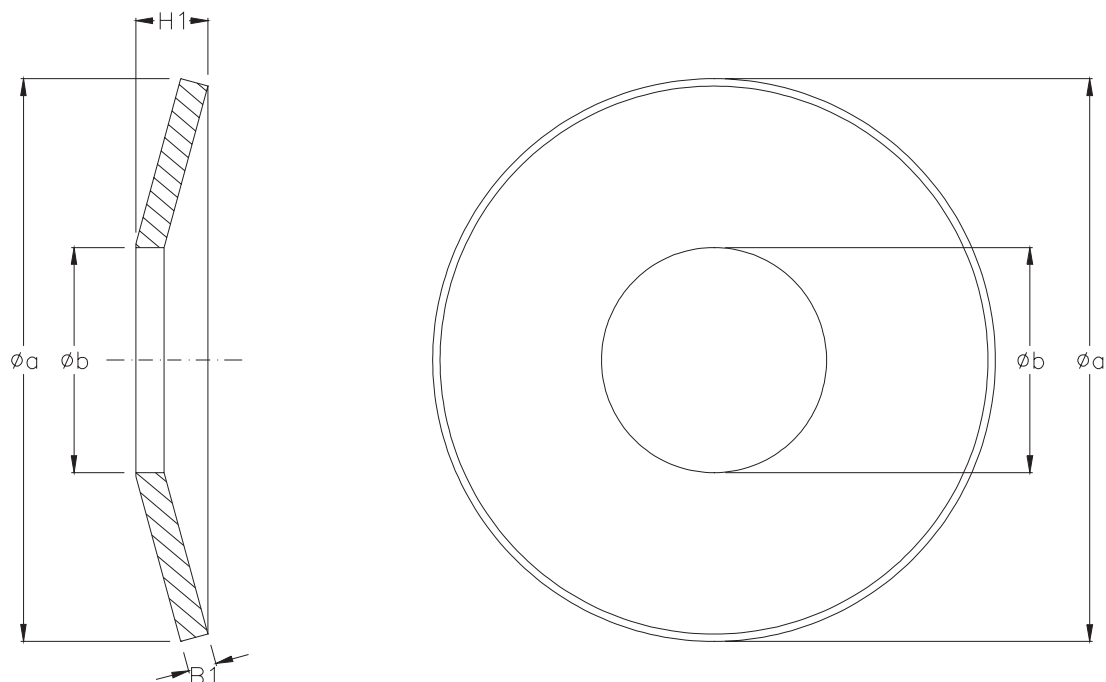
Other bearings are available on request.

Please inform: Bearing number, cage material, measurements, operation temperature.



mm when not indicated

Article ID. No	Size	Filter	Microns	Pressure	Output	Length	Wrench	Diameter	Thread
	No.	cm ²	Rating	maximum	at 0,1 Dp (bar)	L1	L2 x SW	Ø a	M
# 3513.FI-Pi1710-1	10	90	100 μ	suction	7 l/m	60	18 x 22	46	G1/4"
# 3513.FI-Pi1710-2	15	115	100 μ	suction	12 l/m	60	18 x 22	46	G3/8"
# 3513.FI-Pi1710-3	30	170	100 μ	suction	18 l/m	53	13 x 27	61	G1/2"
# 3513.FI-Pi1710-4	50	420	100 μ	suction	34 l/m	89	16 x 36	61	G1/2"
# 3513.FI-Pi1710-51	60	500	100 μ	suction	90 l/m	87	21 x 41	85	G1"
# 3513.FI-Pi1710-5	80	670	100 μ	suction	90 l/m	108	21 x 41	85	G1"
# 3513.FI-Pi1710-52	120	900	100 μ	suction	84 l/m	152	21 x 41	85	G1"
# 3513.FI-Pi1710-6	150	1.120	100 μ	suction	95 l/m	142	40 x 50	110	G1 1/4"
# 3513.FI-Pi1710-7	240	1.360	100 μ	suction	155 l/m	162	40 x 60	110	G1 1/2"
# 3513.FI-Pi1710-71	290	1.800	100 μ	suction	180 l/m	202	40 x 60	110	G1 1/2"
# 3513.FI-Pi1710-8	360	2.560	100 μ	suction	230 l/m	177	45 x 80	151	G2"
# 3513.FI-Pi1710-81	410	3.460	100 μ	suction	260 l/m	222	45 x 80	151	G2"
Output rating at 0,1 delta p (bar) and 190 mm ² /S									

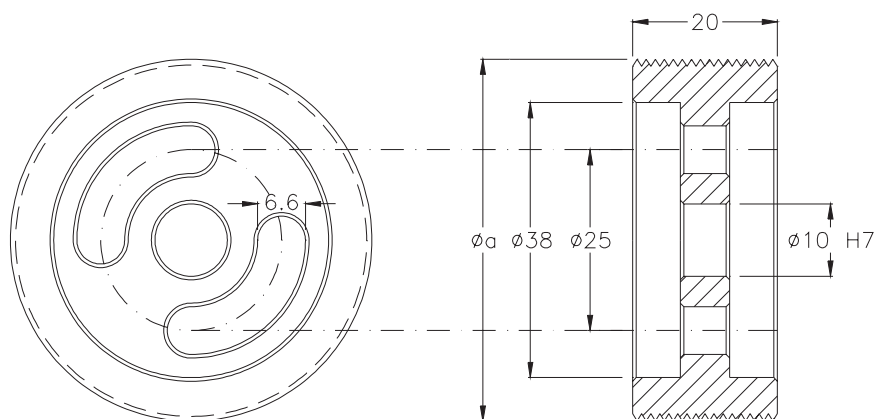


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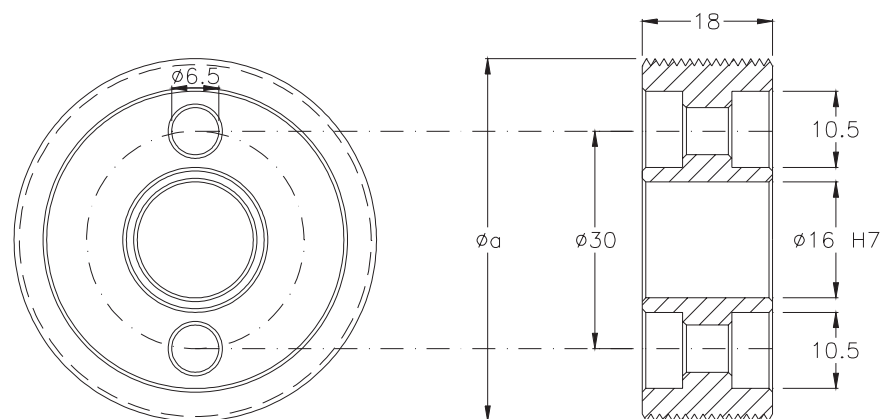
Article ID. No	Standard types			
	Ø a	Ø b	B1	H1
		a / b / c / d / e	a / b / c / d / e	a / b / c / d / e
# 3515.x	16	8,2 / 0,82 / 8,2	0,4 / 0,6 / 0,9	0,9 / 1,05 / 1,25
# 3515.x	20	10,2 / 10,2 / 10,2	0,5 / 0,8 / 1,1	1,15 / 1,35 / 1,55
# 3515.x	25	12,2 / 12,2 / 12,2	0,7 / 0,9 / 1,5	1,6 / 1,6 / 2,05
# 3515.x	28	14,2 / 14,2 / 14,2	0,8 / 1 / 1,5	1,8 / 1,8 / 2,15
# 3515.x	31,5	16,3 / 16,3 / 16,3	0,8 / 1,25 / 1,75	1,85 / 2,15 / 2,45
# 3515.x	35,5	18,3 / 18,3 / 18,3	0,9 / 1,25 / 2	2,05 / 2,25 / 2,8
# 3515.x	40	20,4 / 20,4 / 20,4	1 / 1,5 / 2,25	2,3 / 2,65 / 3,15
# 3515.x	45	22,4 / 22,4 / 22,4	1,25 / 1,75 / 2,5	2,85 / 3,05 / 3,5
# 3515.x	50	20,4 / 20,4 / 25,4 / 25,4 / 25,4	2 / 2,5 / 1,25 / 2 / 3	3,5 / 3,85 / 2,85 / 3,4 / 4,1
# 3515.x	56	28,5 / 28,5 / 28,5	1,5 / 2 / 3	3,45 / 3,6 / 4,3
# 3515.x	60	20,5 / 20,5 / 20,5 / 25,5 / 25,5	2 / 2,5 / 3 / 2,5 / 3	4,1 / 4,3 / 4,7 / 4,4 / 4,65
# 3515.x	63	31 / 31 / 31	1,8 / 2,5 / 3,5	4,15 / 4,25 / 4,9
# 3515.x	71	36 / 36 / 36	2 / 2,5 / 4	4,6 / 4,5 / 5,6
# 3515.x	80	41 / 41 / 41	2,25 / 3 / 5	5,2 / 5,3 / 6,7
Order information x= # 3515. Ø a . Ø b . B1 . H1				

Article ID. No	Ball bearing version				
	Ø a	Ø b	B1	H1	bearing
		a / b	a / b	a / b	
# 3515.x	21,8	12,3 / 12,3	0,35 / 0,25	0,75 / 1,25	608
# 3515.x	23,7	14,3 / 14,3	0,4 / 0,3	0,9 / 1,3	609
# 3515.x	25,7	14,3 / 14,3	0,4 / 0,3	0,9 / 1,4	6000
# 3515.x	27,7	17,3 / 17,3	0,4 / 0,35	1 / 1,45	6001
# 3515.x	29,7	17,4 / 17,3	0,4 / 0,35	1,1 / 1,55	6200
# 3515.x	31,7	20,4 / 20,4	0,4 / 0,35	1,1 / 1,55	6002
# 3515.x	34,6	20,4 / 20,4	0,4 / 0,35	1,1 / 1,65	6300
# 3515.x	34,6	22,4 / 22,4	0,5 / 0,35	1,2 / 1,55	6003
# 3515.x	39,6	25,5 / 25,5	0,5 / 0,4	1,3 / 1,9	6203
# 3515.x	41,6	25,5 / 25,5	0,5 / 0,45	1,4 / 2,05	6004
# 3515.x	46,5	30,5 / 30,5	0,6 / 0,45	1,5 / 2,05	6005
# 3515.x	54,5	40,5 / 40,5	0,6 / 0,45	1,5 / 2,15	6006
# 3515.x	61,5	40,5 / 40,5	0,7 / 0,55	1,8 / 2,55	6007
# 3515.x	67,5	50,5 / 50,5	0,7 / 0,5	1,7 / 2,6	6008
# 3515.x	71,5	45,5 / 45,5	0,7 / 0,6	2,1 / 2,9	6306
# 3515.x	71,5	50,5 / 50,5	0,7 / 0,6	2,1 / 2,9	6207
# 3515.x	74,5	55,5 / 55,5	0,8 / 0,6	1,9 / 2,9	6009
# 3515.x	79,5	55,5 / 55,5	0,8 / 0,7	2,3 / 2,9	6010
# 3515.x	84,5	60,5 / 60,5	0,9 / 0,75	2,5 / 3,15	6209
# 3515.x	89,5	60,5 / 60,5	0,9 / 0,8	2,5 / 3,3	6308
# 3515.x	89,5	65,5 / 65,5	0,9 / 0,8	2,5 / 3,4	6011
# 3515.x	94,5	75,5 / 75,5	1 / 0,8	2,2 / 3,45	6012
# 3515.x	99	65,5	1	2,6	6309
# 3515.x	99	70,5	1	2,6	6013
Order information x= # 3515. Ø a . Ø b . B1 . H1					

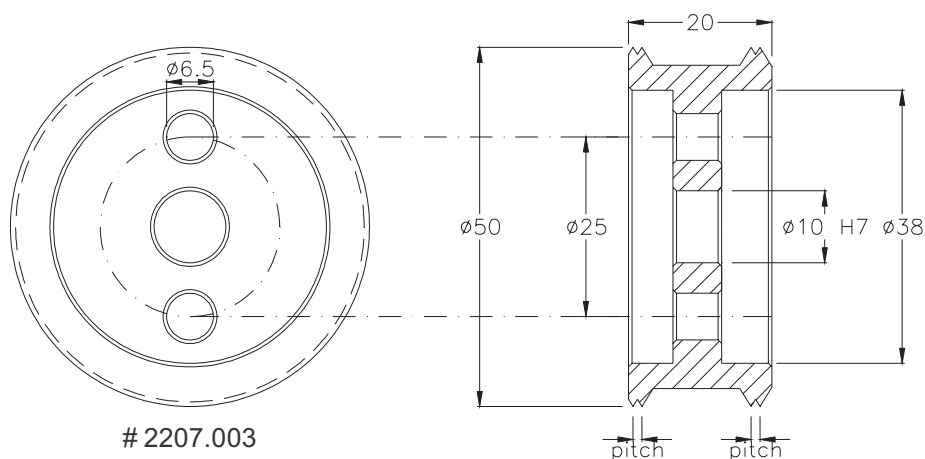
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2207.002

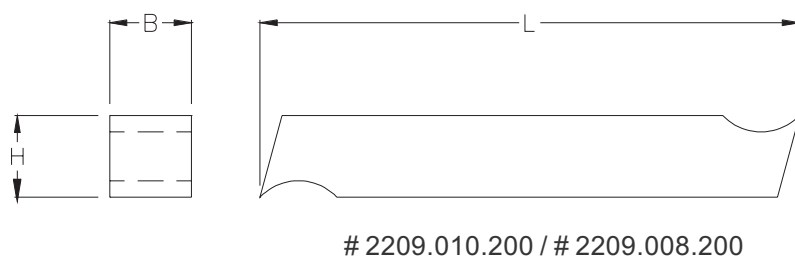
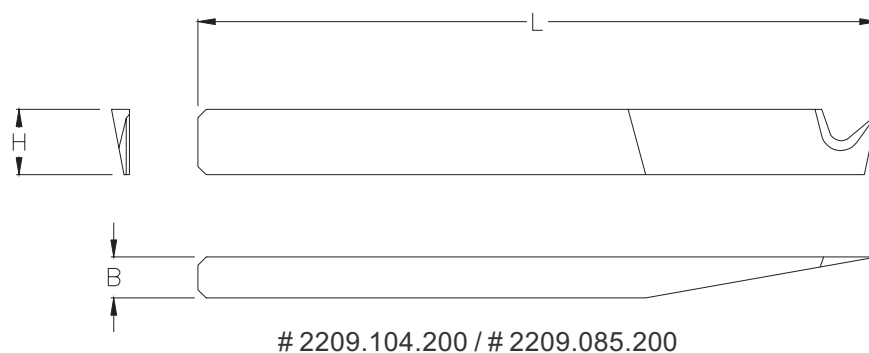
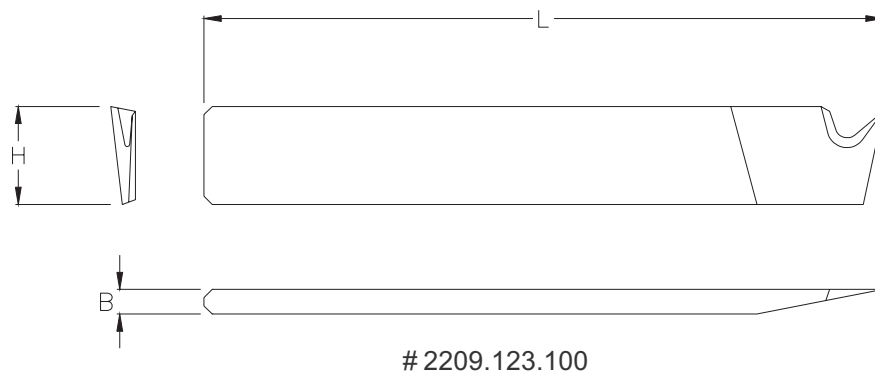


2207.003



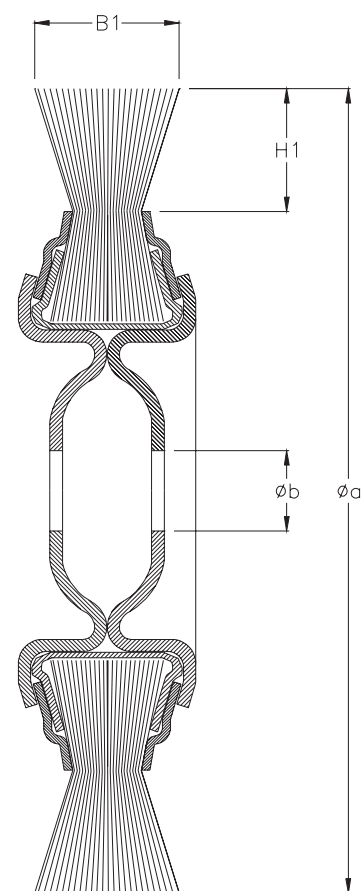
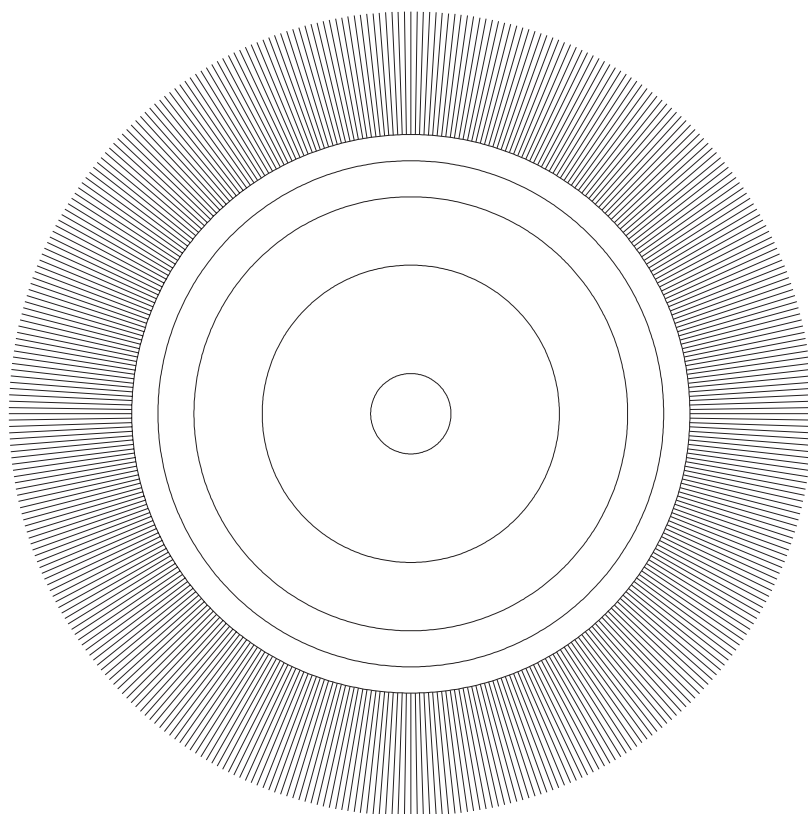
mm when not indicated

Article ID. No	Dimension	Bore	Diameter	Type	System
	Thickness	Ø	Ø a	for Thread	of Threading
# 2207.001.x	20	10 H7	according to pitch	custom made	radial, without cam
# 2207.002.x	18	16 H7	according to pitch	custom made	radial, without cam
# 2207.003.x	20	10 H7	50	custom made	axial, with cam
x = Diameter (Ø a) + Thread					



mm when not indicated

Article ID. No	Length	Height	Width	Material	System
	L	H	B	Cobalt steel	Parting
# 2209.123.100	120	12	3	high alloyed, high speed tool-steel	tube length
# 2209.104.200	100	10	4		tube length
# 2209.085.200	100	8	5		tube length
# 2209.010.200	100	10	10		thread face
# 2209.008.200	100	8	8		thread face
# 2209.xxx.100 = MALL, # 2209.xxx.200 = HERLAN					



mm when not indicated

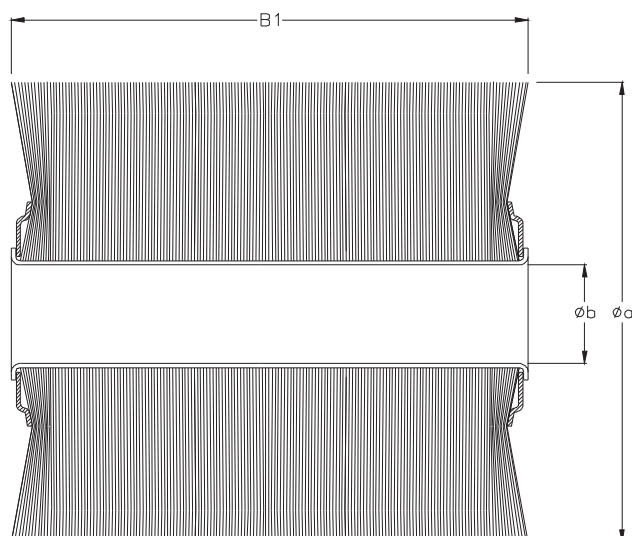
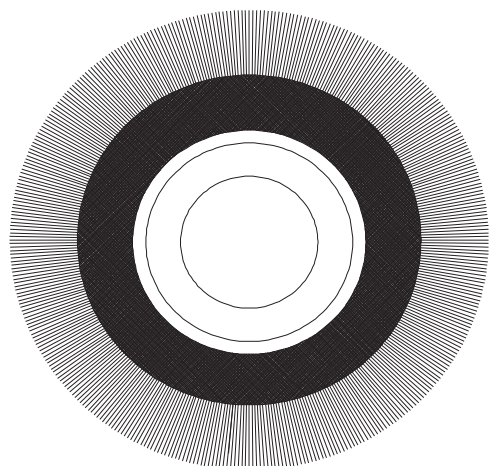
Article ID. No	Diameter	Bore	Width	Height	Wire		RPM
	Ø a	Ø b	B1	H1	Ø	Quality	Max.
# 2211.080.010	80	10	20	~ 15	0,1	carbon steel	6.000
# 2211.100.010	100	10	20	~ 16	0,1	carbon steel	6.000
# 2211.100.020	100	10	20	~ 16	0,2	carbon steel	6.000
# 2211.125.010	125	10	20	~ 16	0,1	carbon steel	6.000
# 2211.125.020	125	10	20	~ 16	0,2	carbon steel	6.000

CS = Carbon steel wire

AS = Special steel wire, tempered

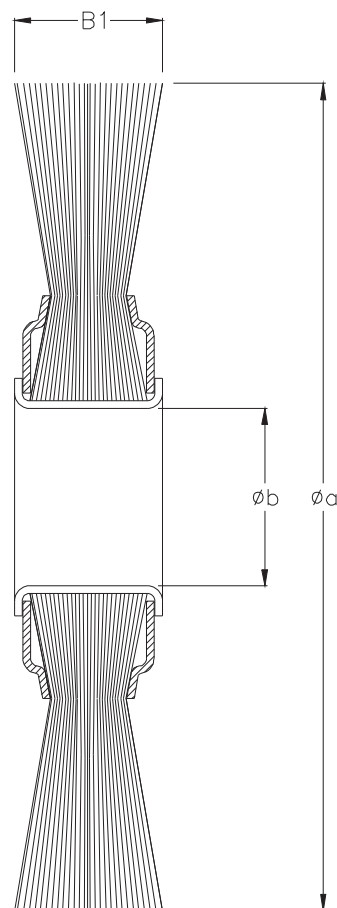
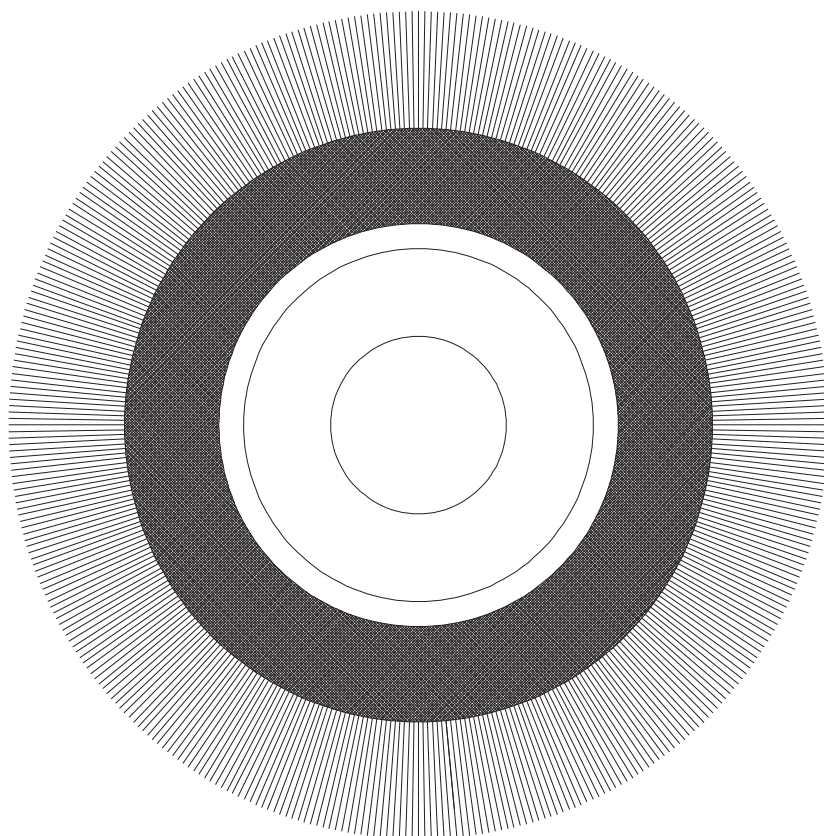
NYSI = Plastic filament with silicon carbide particles (extremely abrasive function)

-NEVER USE ABOVE RECOMMENDED ROUNDS PER MINUTE-



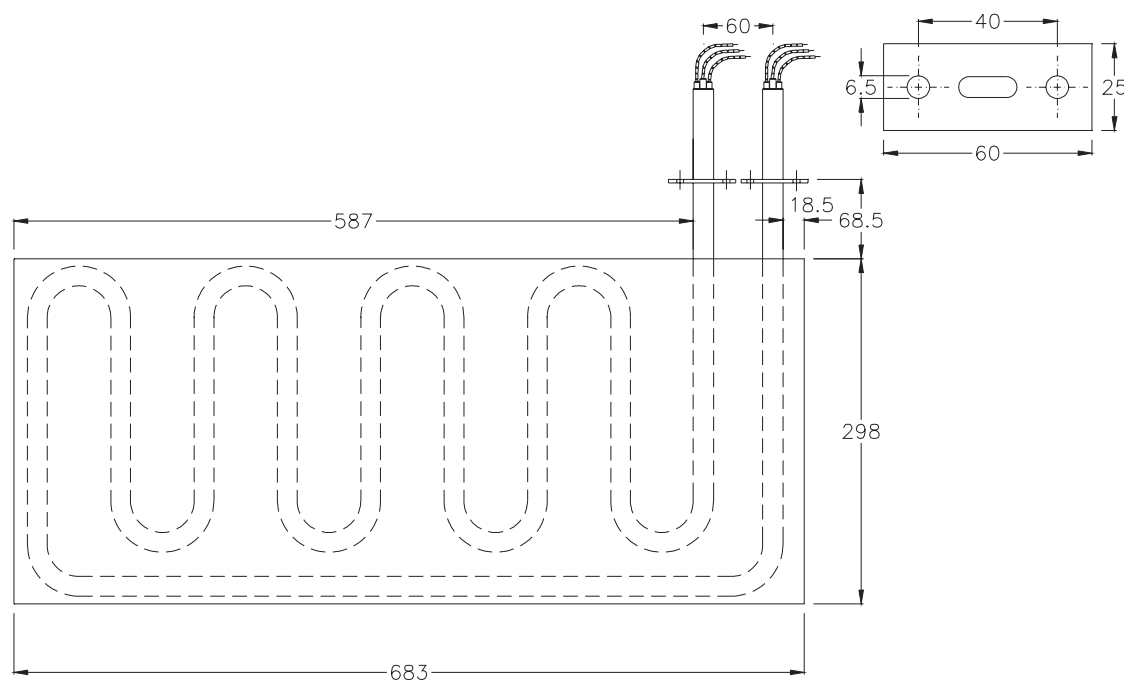
mm when not indicated

Article ID. No	Diameter	Bore	Width	Wire	Wire Quality
Standard Range	Ø a	Ø b	B1	Ø	
# 2213.001.015	150	50,4	150	0,15	Steel wire, corrugated
# 2213.001.025	150	50,4	150	0,25	Steel wire, corrugated
# 2213.002.015	150	50,4	170	0,15	Steel wire, corrugated
# 2213.002.025	150	50,4	170	0,25	Steel wire, corrugated
# 2213.003.015	150	50,4	200	0,15	Steel wire, corrugated
# 2213.003.025	150	50,4	200	0,25	Steel wire, corrugated
# 2213.004.015	150	50,4	250	0,15	Steel wire, corrugated
# 2213.004.025	150	50,4	250	0,25	Steel wire, corrugated
# 2213.005.015	180	50,4	150	0,15	Steel wire, corrugated
# 2213.005.025	180	50,4	150	0,25	Steel wire, corrugated
# 2213.006.015	180	50,4	170	0,15	Steel wire, corrugated
# 2213.006.025	180	50,4	170	0,25	Steel wire, corrugated
# 2213.007.015	180	50,4	200	0,15	Steel wire, corrugated
# 2213.007.025	180	50,4	200	0,25	Steel wire, corrugated
# 2213.008.015	180	50,4	250	0,15	Steel wire, corrugated
# 2213.008.025	180	50,4	250	0,25	Steel wire, corrugated
If you need any other dimension, wire quality please let us know !					

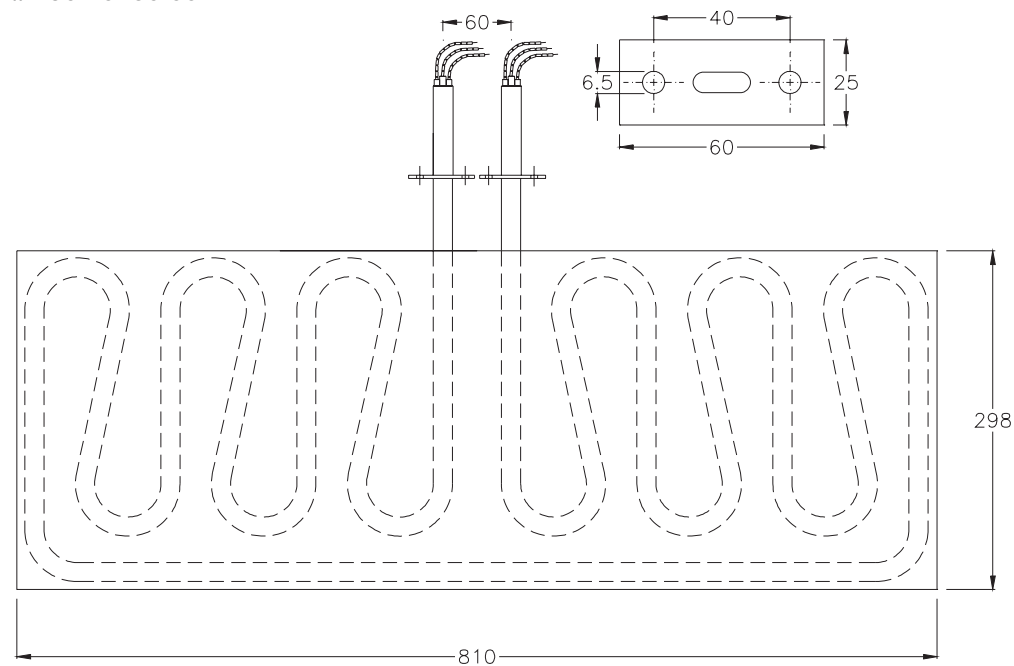


mm when not indicated

Article ID. No	Diameter	Bore	Width	Wire	Wire Quality
Standard Range	Ø a	Ø b	B1	Ø	
# 2215.150.015	150	50,4	12	0,15	Steel wire, corrugated
# 2215.150.025	150	50,4	12	0,25	Steel wire, corrugated
# 2215.180.015	180	50,4	12	0,15	Steel wire, corrugated
# 2215.180.025	180	50,4	12	0,25	Steel wire, corrugated
If you need any other dimension, wire quality please let us know !					



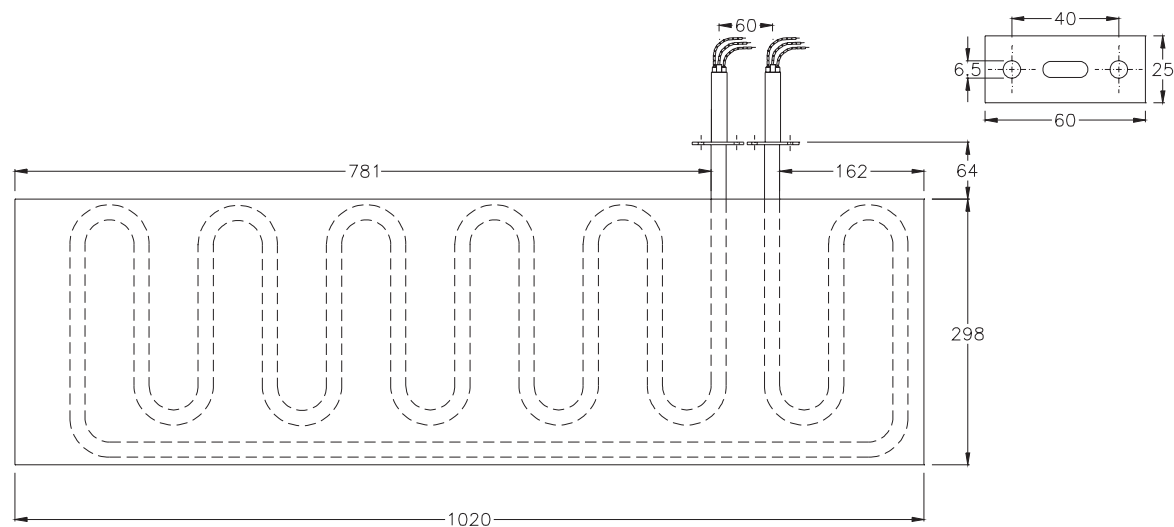
2302.0750.001



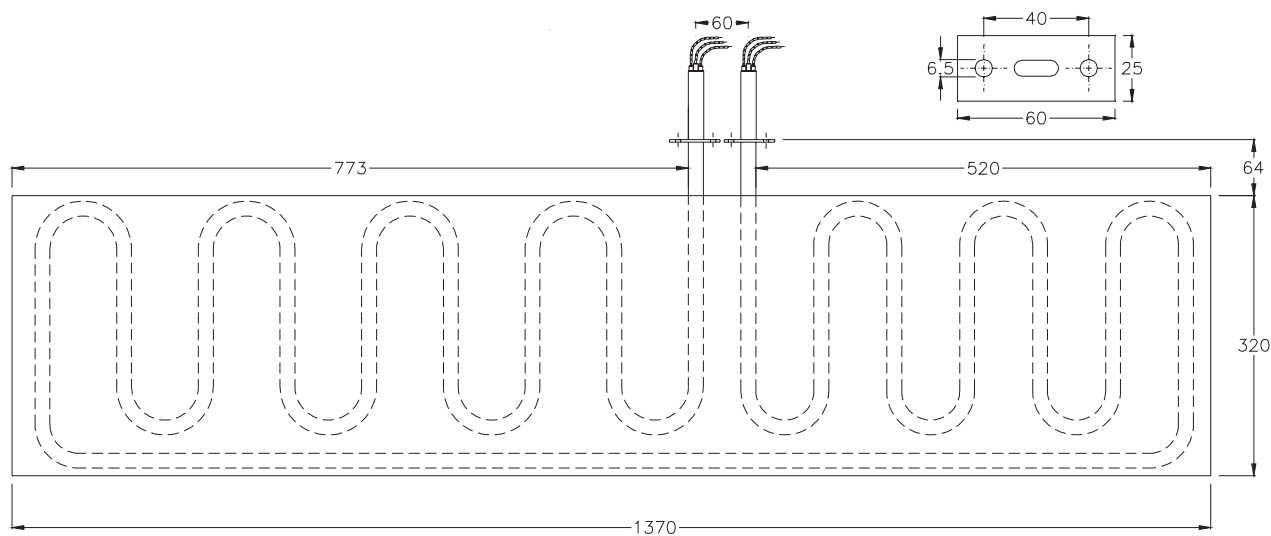
2302.1100.010

mm when not indicated

Article ID. No	Connected Load		Voltage			Oven Temp.
	Watt	Volt	Length	Width	Thickness	
# 2302.0750.001	3x 750 W = 2.250 W	230 V	683	298	10	350 °C
# 2302.1100.010	3x 1100 W = 3300 W	230 V	810	298	10	350 °C
Tolerance range: watt: +5% / -10% volt: +5% / -10%						



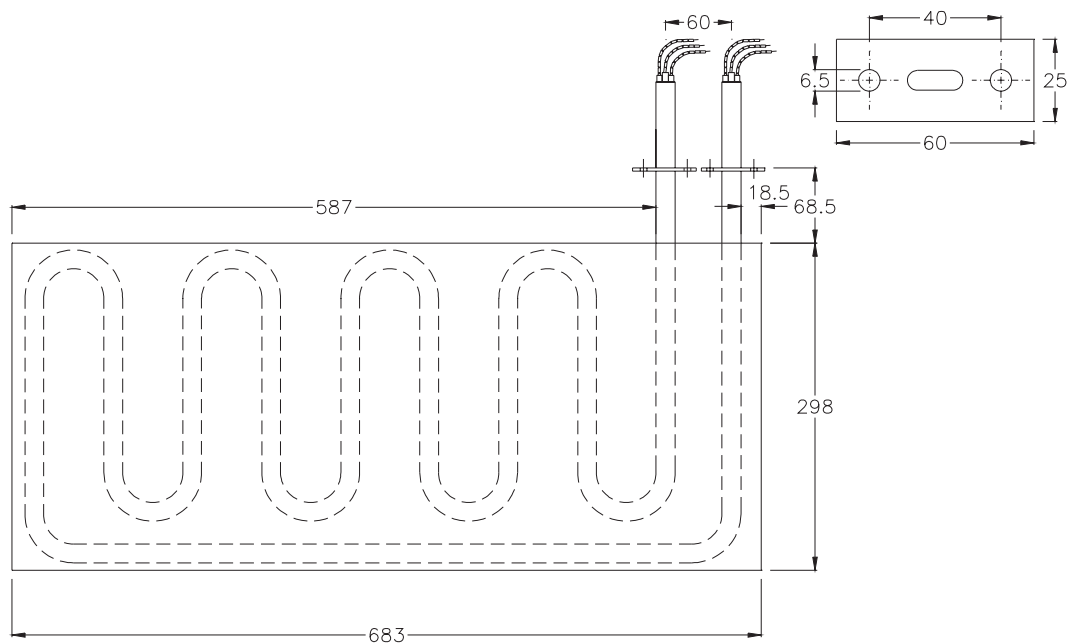
2303.1500.002



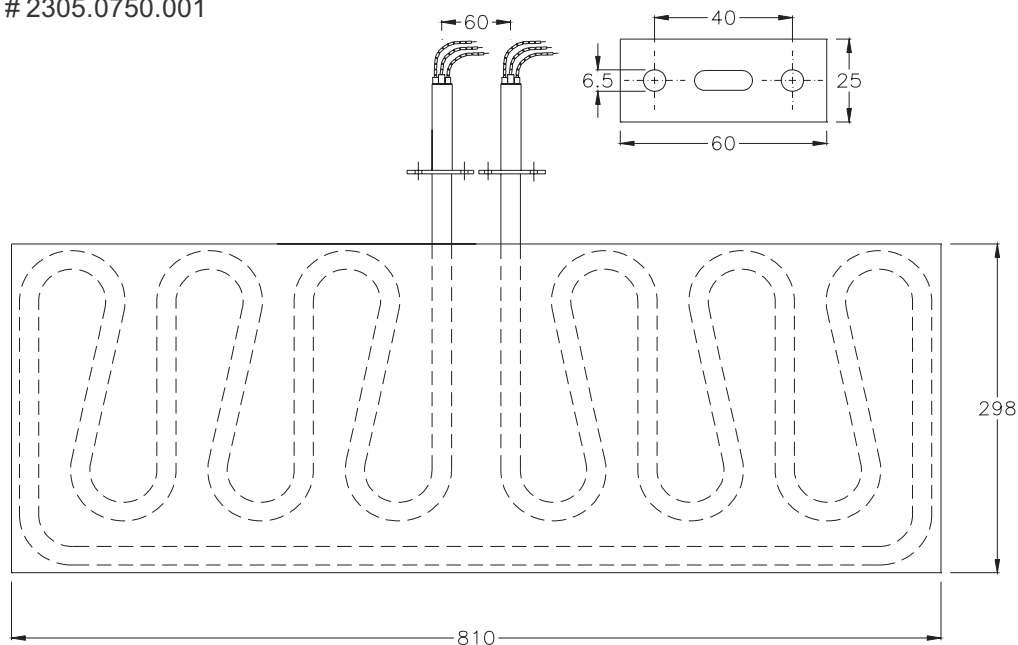
2303.1750.020

mm when not indicated

Article ID. No	Connected Load	Voltage	Dimensions			Oven Temp.
			Length	Width	Thickness	
	Watt	Volt				Maximum
# 2303.1500.002	3x 1500 W = 4500 W	230 V	1020	298	10	350 °C
# 2303.1750.020	3x 1750 W = 5250 W	230 V	1370	320	10	350 °C
Tolerance range: watt: +5% / -10% volt: +5% / -10%, material stainless steel						



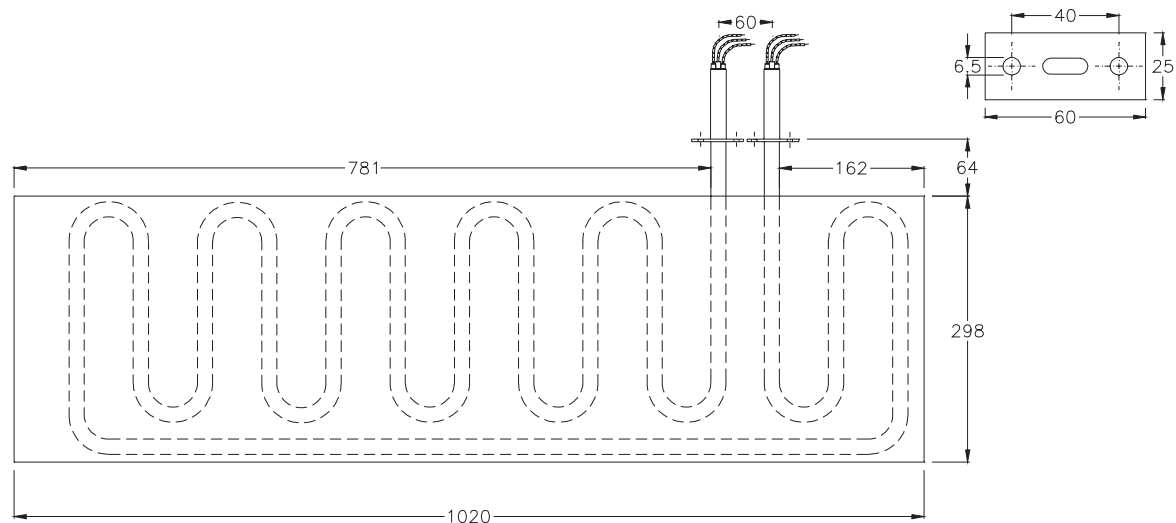
2305.0750.001



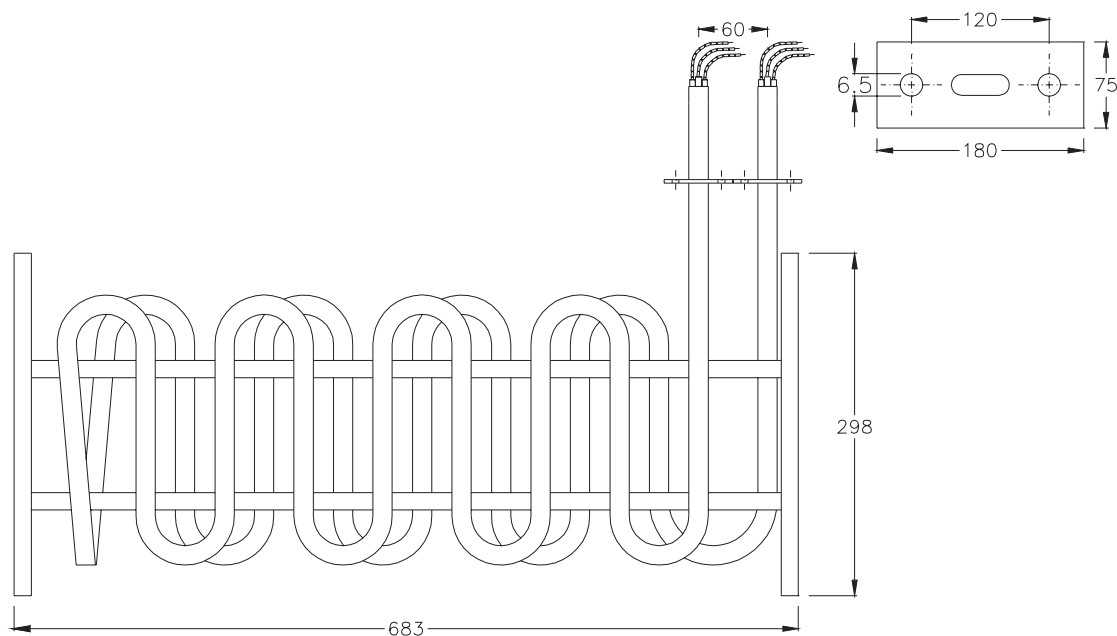
2305.1100.010

mm when not indicated

Article ID. No	Connected Load	Voltage	Dimensions			Oven Temp.
			Length	Width	Thickness	
	Watt	Volt				Maximum
# 2305.0750.001	3x 750 W = 2.250 W	230 V	683	298	10	500 °C
# 2305.1100.010	3x 1100 W = 3300 W	230 V	810	298	10	500 °C
Tolerance range: watt: +5% / -10% volt: +5% / -10%						



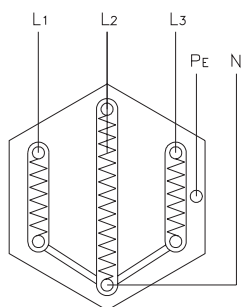
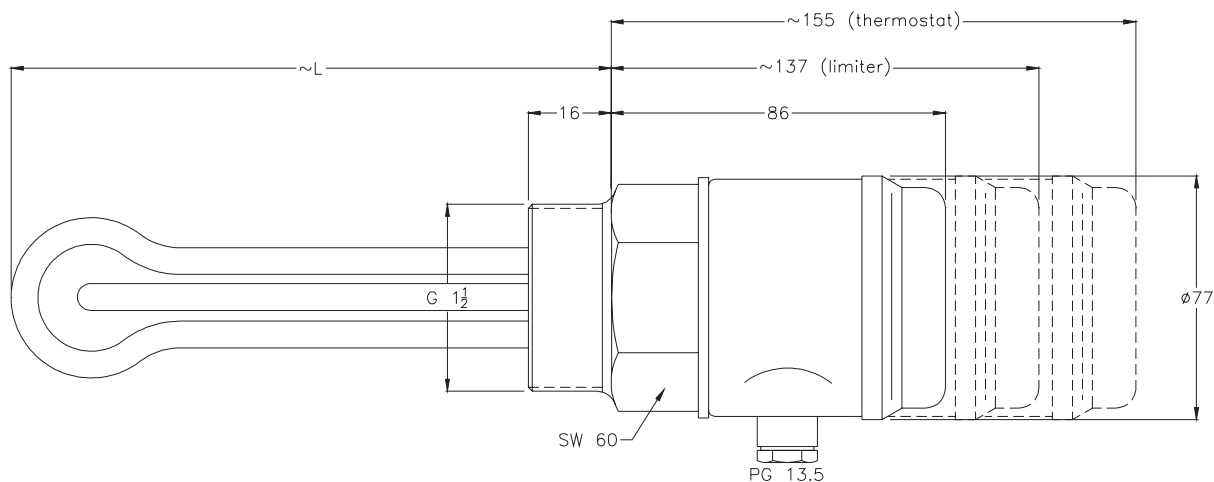
2306.1500.002



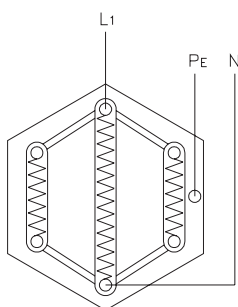
2306.0750.003 / # 2306.1100.003

mm when not indicated

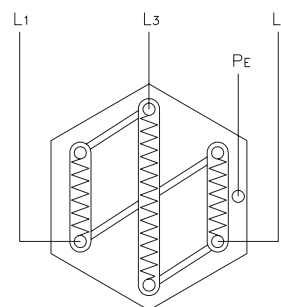
Article ID. No	Connected Load	Voltage	Dimensions			Oven Temp.
	Watt	Volt	Length	Width	Thickness	Maximum
# 2306.1500.002	3x 1500 W = 4500 W	230 V	1020	298	10	500 °C
# 2306.0750.003	3x 1750 W = 2250 W	230 V	683	298	20	500 °C
# 2306.1100.003	3x 1100 W = 3300 W	230 V	683	298	20	500 °C
Tolerance range: watt: +5% / -10% volt: +5% / -10% , material , scale free stainless steel						



400V 3-phase
star connection



230V single phase
parallel connection



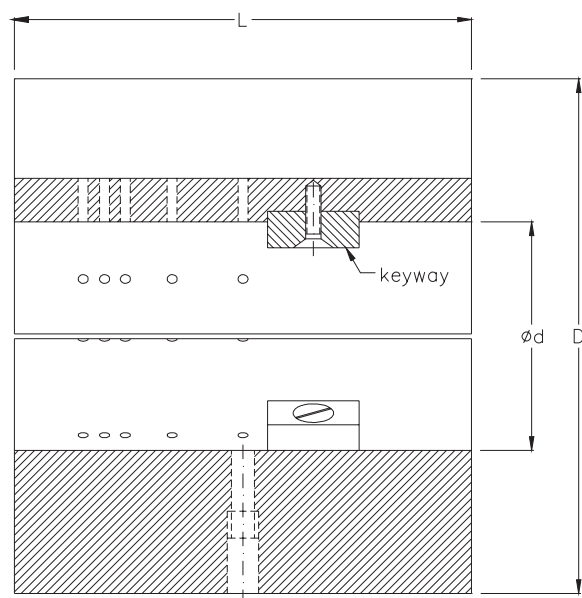
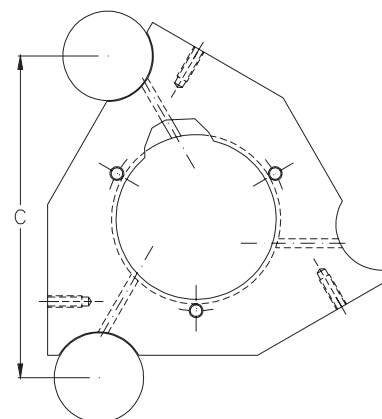
230V 3-phase
delta connection

mm when not indicated

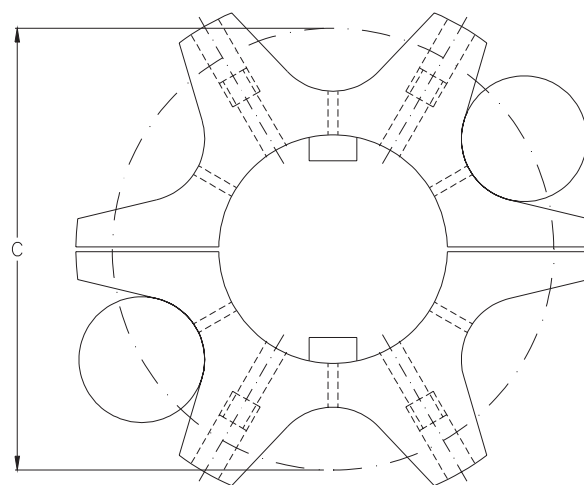
Article ID. No	Length	Connected Load	Surface	Protection
	L	at 230V	Load W/cm³	Class
# 2307.170.0750	170	750 W	2 - 3	IP 64
# 2307.240.1000	240	1000 W	2 - 3	IP 64
# 2307.480.1500	480	1500 W	2 - 3	IP 64
# 2307.600.2000	600	2000 W	2 - 3	IP 64
# 2307.880.3000	880	3000 W	2 - 3	IP 64
# 2307.170.1100	170	1100 W	4 - 5	IP 64
# 2307.240.1500	240	1500 W	4 - 5	IP 64
# 2307.480.3000	480	3000 W	4 - 5	IP 64
# 2307.600.4500	600	4500 W	4 - 5	IP 64
# 2307.880.6000	880	6000 W	4 - 5	IP 64
Also available in execution with thermostat or limiter. Please inform requested type.				



2405.040.300

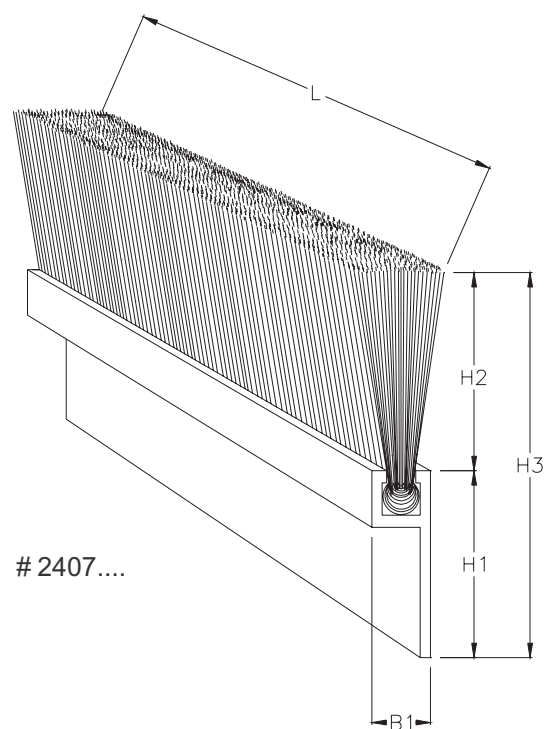
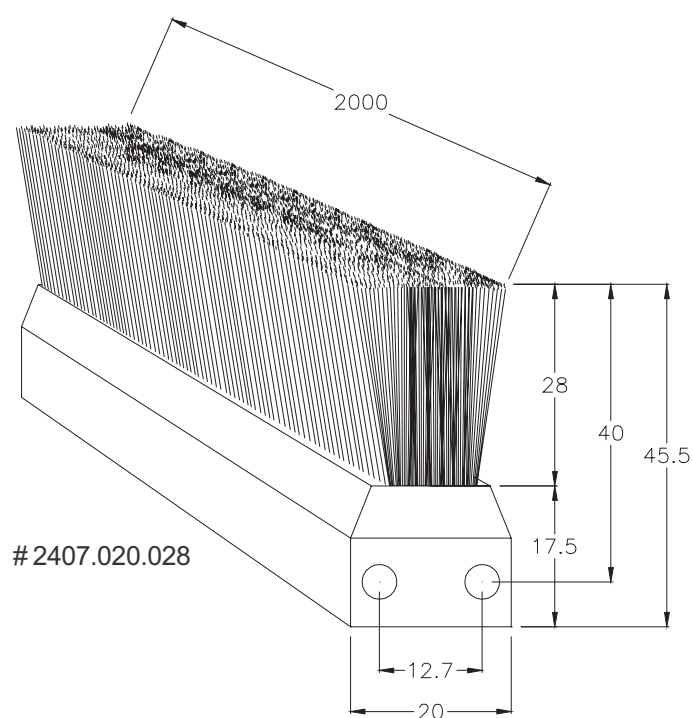


2405.200.225 / # 2405.100.250



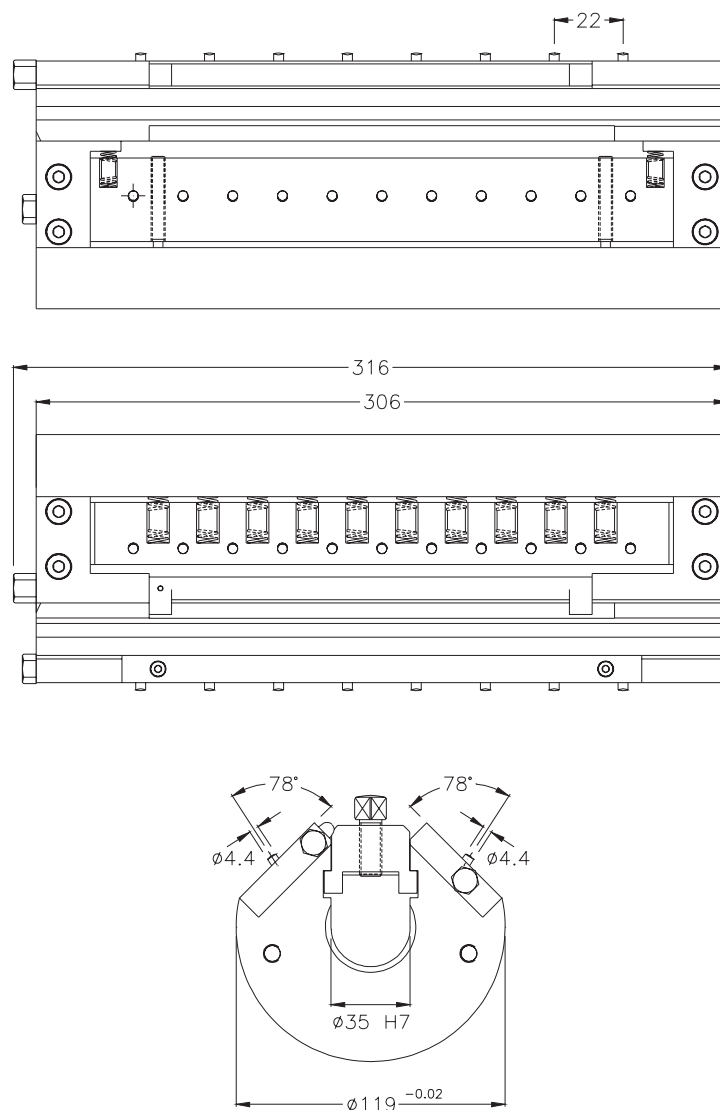
mm when not indicated

Article ID. No	Length	Outer Ø	Distance	Bore	Tube/Can Ø
	L	D	C	Ø d	
# 2405.040.300	220	- Star form -	140	-	Please inform
# 2405.200.225	200	225	193	100 H7	Please inform
# 2405.100.250	100	250	256	100 H7	Please inform
Machines: Mall, Herlan, Sprimag, Polytype, Hinterkopf					



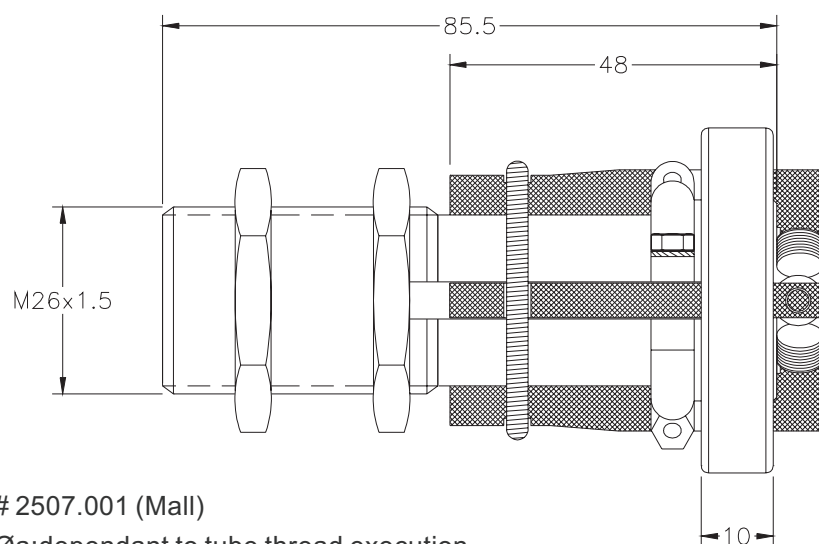
mm when not indicated

Article ID. No	Length	Width	Height			Bristle
			H1	H2	H3	Quality
# 2407.020.028	2000	-	17,5	28	45,5	PA 0,40 mm white
# 2407.032.145	1000	6,8	17,5	14,5	32	PA 0,10 mm Black
# 2407.050.025	1000	6	25	25	50	PA 0,25 mm white
# 2407.070.030	1000	10	40	30	70	PA 0,50 mm white
# 2407.050.025	1000	8,5	25	25	50	Horse hair ecru
Operating range: Cleaning brushes for spray nozzles (# 2407.020.028), door seals						



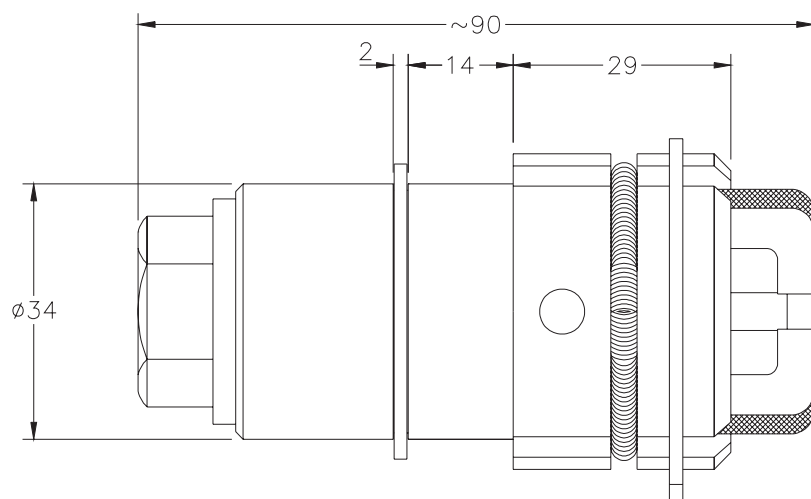
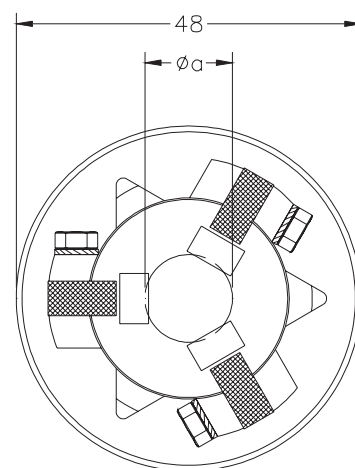
mm when not indicated

Article ID. No	Cylinder Dimensions			Cliché Dimensions		
	Diameter	Length	Shaft Diameter	Thickness	Width	Max. Length
# 2505.119.306	119	306	35	0,73	270	277
Other measurements if required.						



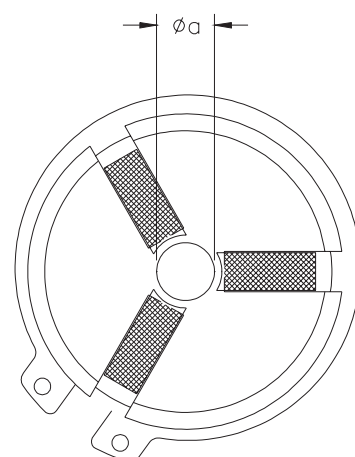
2507.001 (Mall)

Øa: dependant to tube thread execution



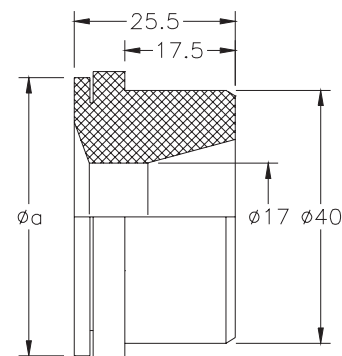
2507.002 (Herlan)

Øa: dependant to thread execution



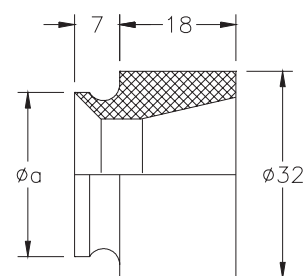
mm when not indicated

Article ID. No	Diameter	Material	Colour
	$\varnothing a$		
# 2509.001.045.255	45	Polyurethane, 70° shore	brown
# 2509.001.049.255	49	Polyurethane, 70° shore	brown
# 2509.001.051.255	51	Polyurethane, 70° shore	brown



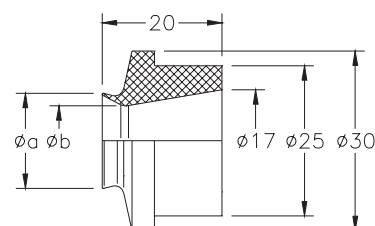
mm when not indicated

Article ID. No	Diameter	Material	Colour
	$\varnothing a$		
# 2509.002.303.025	30,3	Polyurethane, 70° shore	brown
# 2509.002.254.025	25,4	Polyurethane, 70° shore	brown
# 2509.002.223.025	22,3	Polyurethane, 70° shore	brown



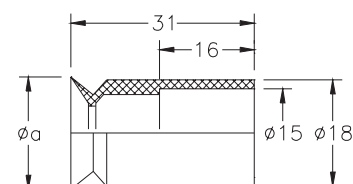
mm when not indicated

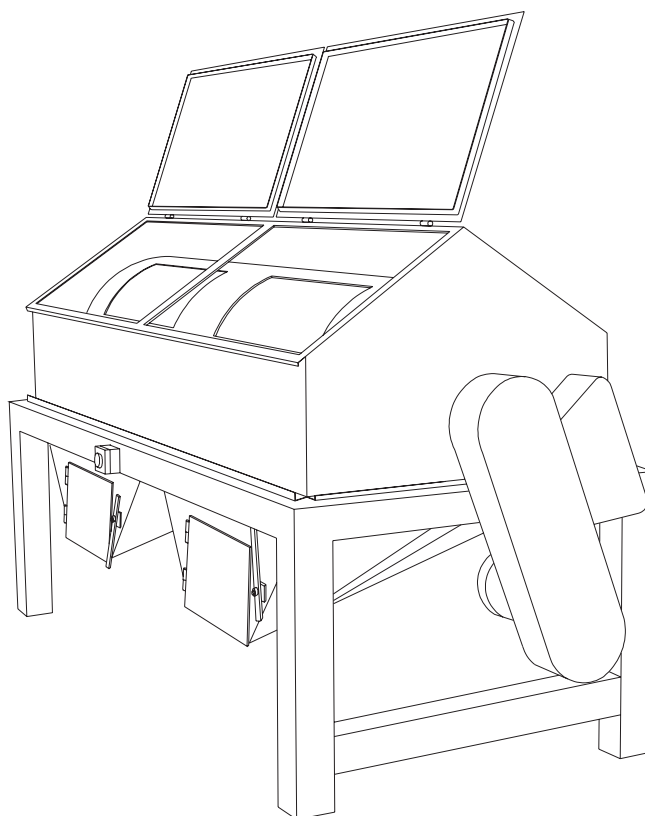
Article ID. No	Diameter		Material	Colour
	$\varnothing a$	$\varnothing b$		
# 2509.003.123.020	12,3	10,4	Silicone rubber, 50° shore	transparent
# 2509.003.165.020	16,5	12	Silicone rubber, 50° shore	transparent
# 2509.003.019.020	19	14	Silicone rubber, 50° shore	transparent
# 2509.003.026.020	26	17,2	Silicone rubber, 50° shore	transparent



mm when not indicated

Article ID. No	Diameter	Material	Colour
	$\varnothing a$		
# 2509.004.019.031	19	Natural rubber	black





Slug greasing is an important part of production.

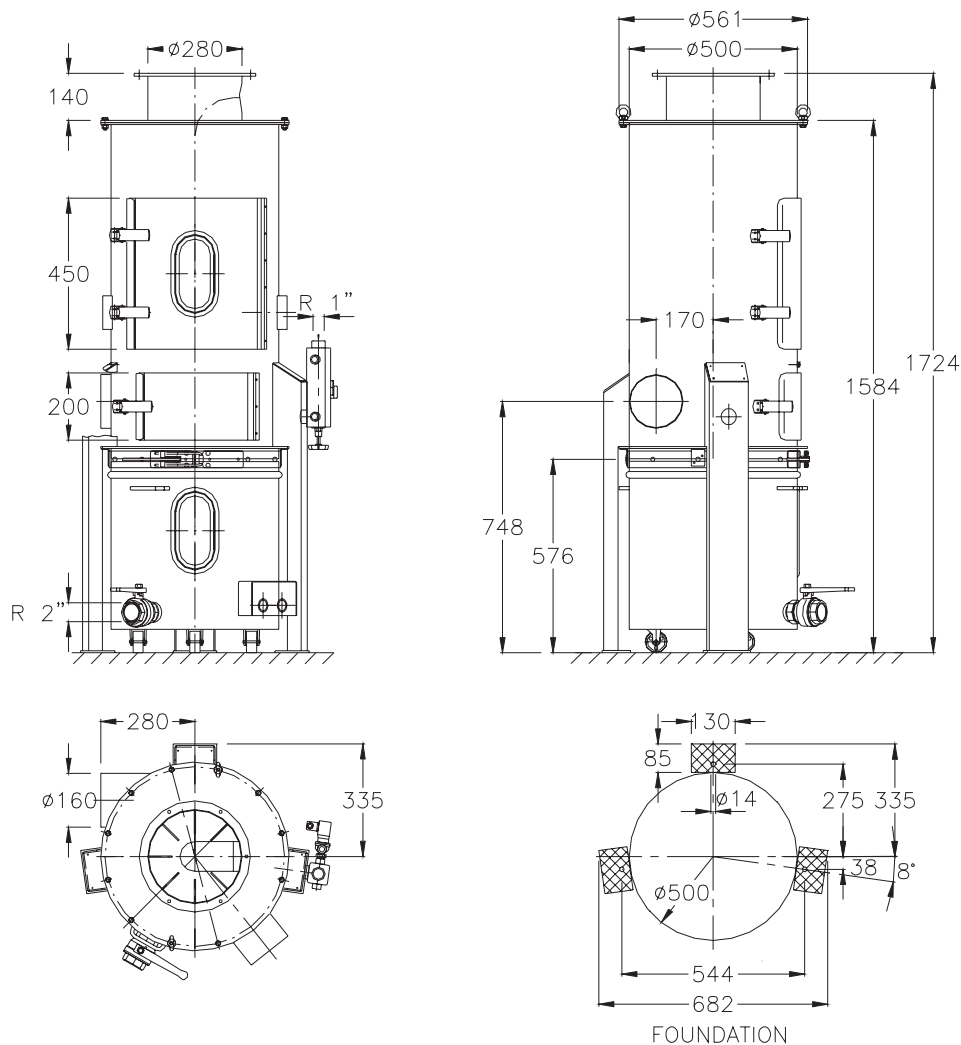
Equable results of product quality seems starting with reproducible greasing processes

We supply this slug greasing equipment with an electrical panel with a multitude of options.

- Variable greasing time. Storable for each slug size
- Variable speed of the greasing drum, for best powder wetting. Storeable for each slug size
- Automatic drum positioning for loading and unloading
- Execution with single or duplex drum
- Also other capacity or required option possible

mm when not indicated

Article ID. No	Sizes			Capacity	Connections	Load
	Length	Width	Heigh	Kg/ each drum	Volts/Frequency	KW
# 4101.220.500	2200	1000	1600	~ 100 kg	400 V / 50 Hz	~3
# 4101.220.600	2200	1000	1600	~ 100 kg	460 V / 60 Hz	~3
# 4101.120.500	1200	1000	1600	~ 100 kg	400 V / 50 Hz	~1,5
# 4101.120.600	1200	1000	1600	~ 100 kg	460 V / 60 Hz	~1,5



mm when not indicated

Article ID. No	Type STWV (new)	Type STWV (new)	Type STZV	Type STZV
----->	# 4217.002.500	# 4217.002.600	# 4217.005.500	# 4217.005.600
			not illustrated	not illustrated
Size	2	2	5	5
Airflow Rate	1.000-1.200 m ³ /h	1.000-1.200 m ³ /h	3.000-4.000 m ³ /h	3.000-4.000 m ³ /h
Air Pressure	180 daPa	180 daPa	180-200 daPa	180-200 daPa
Free Disposable Pressure	50 daPa	50 daPa	80 daPa	80 daPa
Motor Power	1.5 kW	1.6 kW	4,0 kW	4,4 kW
Water Armory	72 l	72 l	340 -	340 -
Weight	210 kg	210 kg	500 -	500 -
Volts / Frequency	400 V / 50 Hz	460 V / 60 Hz	400 V / 60 Hz	460 V / 60 Hz

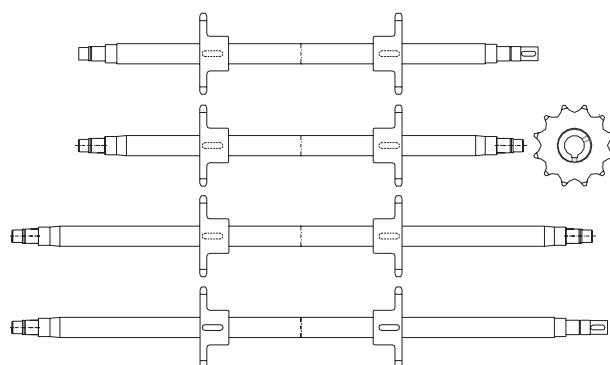
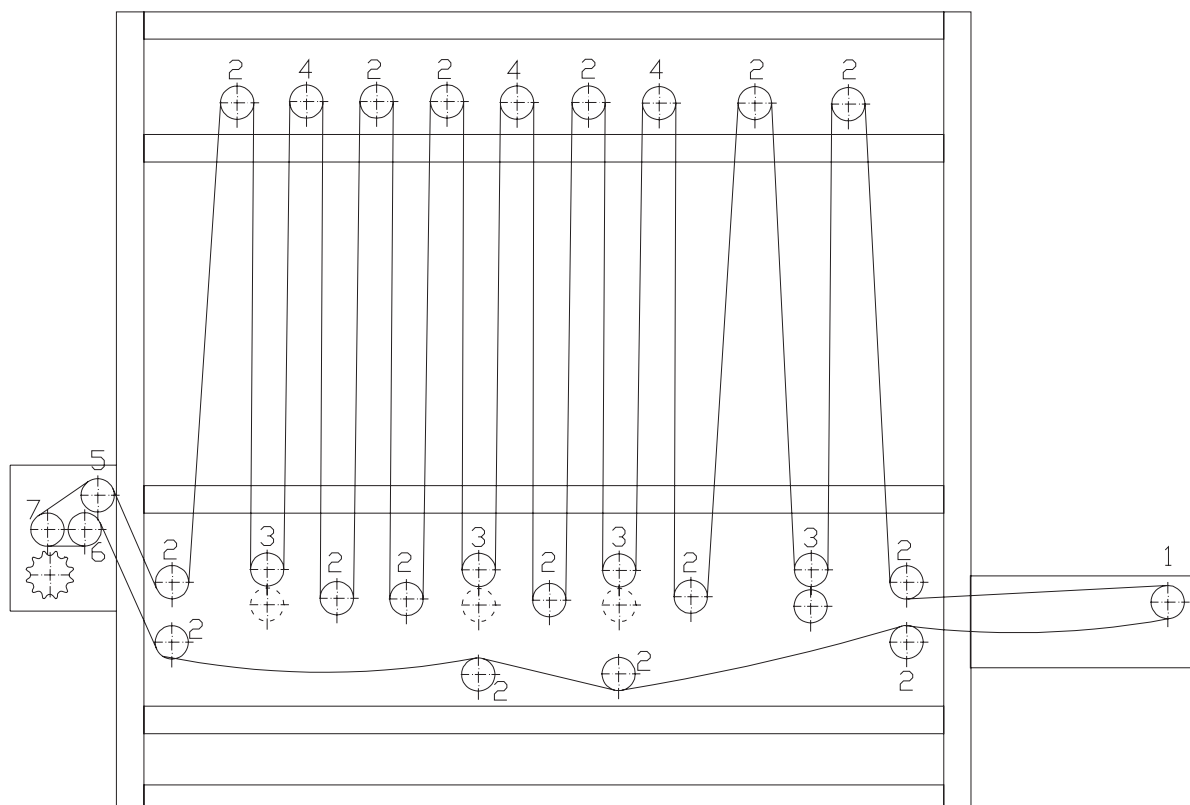


Some variators are not more produced and deliverable We supply solutions to replace this variators with a controlled DC-Motor.

Ancillary to the below-mentioned self-assembly kit we can offer to you complete replacing kit, integrated in a control panel with power supply unit and all needed electrical and electronical equipment.

mm when not indicated

Article ID. No	Brushless DC-Motor				Control Panel		
	V - Hz	KW	U/min	Nm	V - Hz	KW	A
	+/- 10%				+/- 10%		
# 4350.480.50	360...480-50 Hz	3,0	2500	11,5 Nm	360...480-50 Hz	400 V 3,7 KW	10-20
# 4350.480.60	360...480-60 Hz	3,7	2750	12.1 Nm	360...480-60 Hz	400 V 3,7 KW	10-20
Included features							
	HIL-02				HIL-08 / HIL-10		
	DC choke, brake chopper, DC-BUS clip				DC choke, brake chopper, DC-BUS clip		
	Ohmig resistant 80 Ohm, 2,2 A				Ohmig resistant 80 Ohm, 2,2 A		
					Bevel gear box		
	Programmable control PG-3000				Programmable control PG-3000		
	Interface for 1024 encoder						
	Smart card				Smart card		
	Sensor cable for DC-Motor				Sensor cable for DC-Motor		



mm when not indicated

Article ID. No	Pos.	Quantity	Article name (sprimag)	Article name	Length	Diameter
		in oven			mm	mm
# 4400 50982245	1	1	Einlaufwelle	Input shaft	--	35
# 4400.50828801	2	16	Umlenkswelle	Turn around shaft	928	35
# 4400.50828801	3	4	Spannwelle	Spanner shaft	928	35
# 4400.57029001	4	3	Antriebswelle	Drive shaft	954	35
# 4400.50922870	5	1	Kurze Spannwelle	Short spanner shaft	691	35
# 4400.50922897	6	1	Kurze Antriebswelle	Short drive shaft	717	35
# 4400.50922919	7	1	Übergabewelle	Hand over shaft	761	35



Specifications:

Display:	0.4" LED, two-digit-timer, four-digit milliamp readings
Power supply:	Constant voltage, factory set at 6.3V, adjustable 4V to 9V
Range:	0 to 500ma
Resolution:	0.1ma
Mode selection:	<u>4-second</u> - automatically reads and displays 4 second reading <u>Continuous</u> - displays changing readings with elapsed time, stores and recalls 4-second and programmable readings <u>Programmable</u> - automatically reads and displays the reading at any elapsed time selected by the operator

mm when not indicated

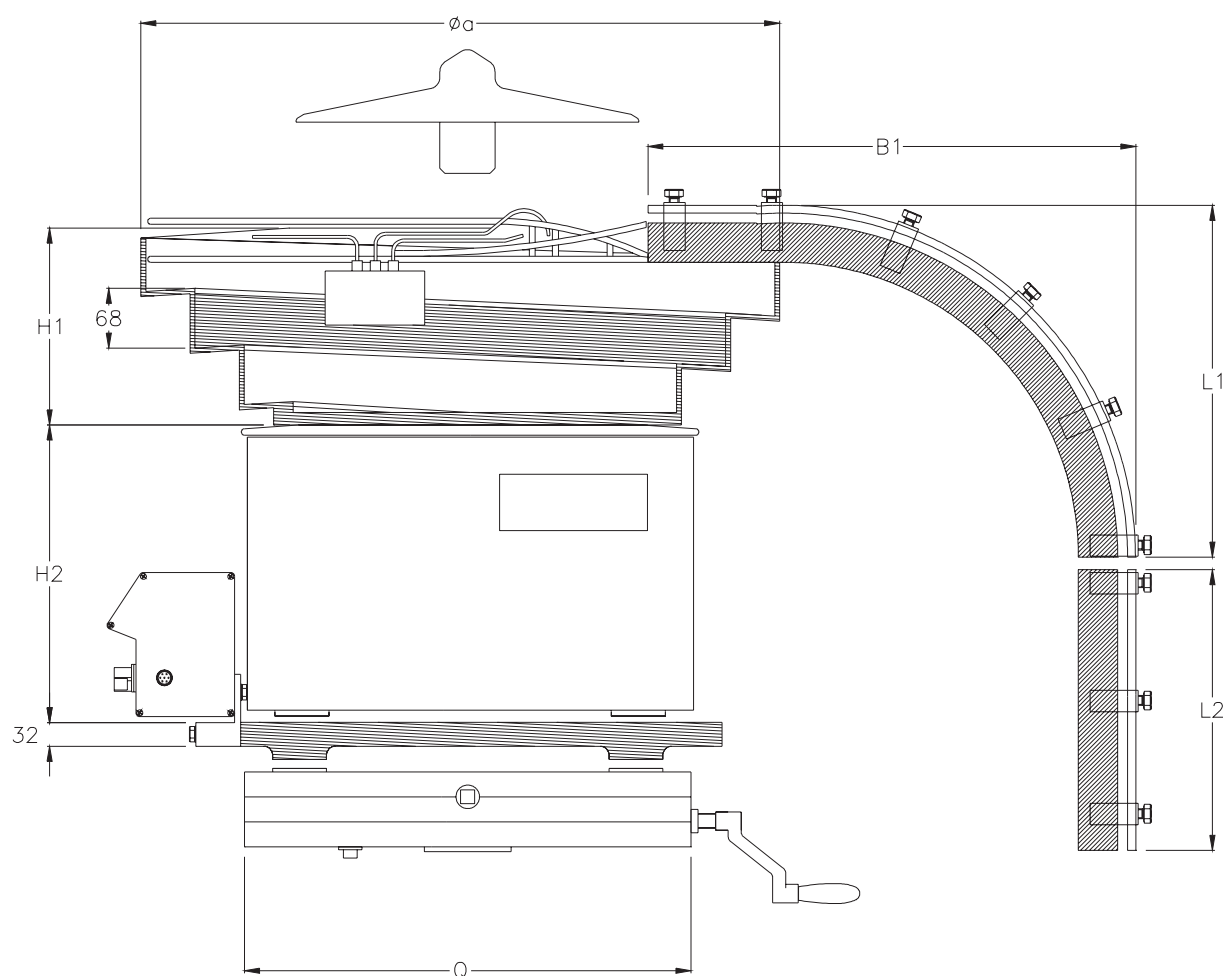
Article ID. No	Electricity	Description
	Volt/Hertz	Type
# 4401.10788-50	220V, 50/60Hz	WACO Digital Enamel Rater II, complete with can holder
# 4401.10788-00	110V, 50/60Hz	WACO Digital Enamel Rater II, complete with can holder
# 4401.10779-30	220V, 50/60Hz	Printer, connects to Enamel Rater II for automatic recording of data
# 4401.10779-20	110V, 50/60Hz	Printer, connects to Enamel Rater II for automatic recording of data
# 4401.10788-17	-	Cable adapter footswitch, required to connect WACO End Panel Holder
# 4401.10788-19	-	Test resistor, reads 6.3ma
# 4401.10788-20	-	Test resistor, reads 12.6ma
# 4401.10788-25	-	Test resistor, reads 126ma
# 4401.10788-30	-	Test resistor, reads 252ma

Article group:



mm when not indicated

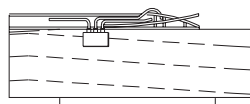
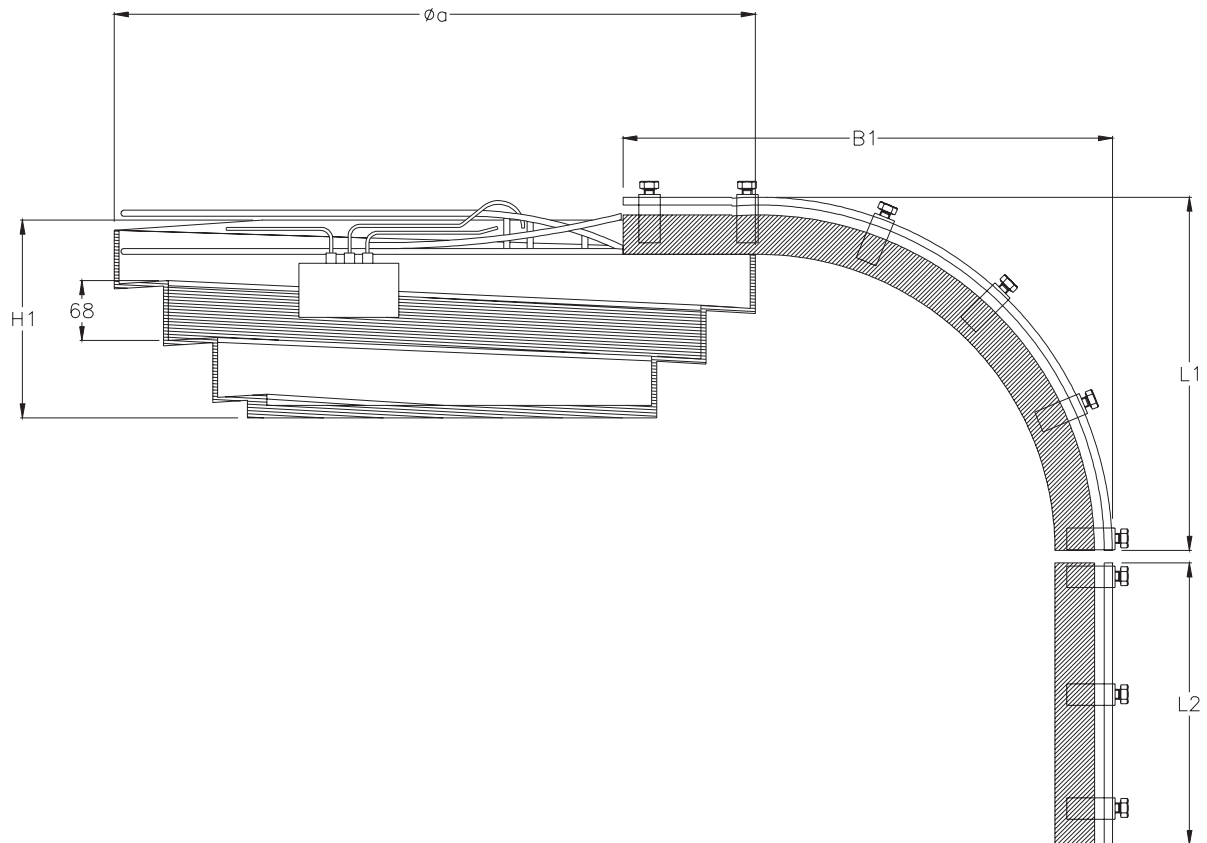
Article ID. No	Electricity		Description
	Volt/Hertz	Format	
# 4500.468.0001	230V, 50Hz	220 x 300	Exposing washing and drying unit
# 4500.468.6001	110V, 60Hz	220 x 300	Exposing washing and drying unit



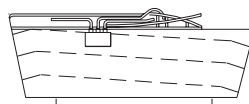
mm when not indicated

Article ID. No	Dimensions					Weight kg	Cycles Hz/power	Speed pcs/minute
	$\varnothing a$	Q	H1	H2	B1 / L1 / L2			
# 4603.250.500	~ 395	290	~ 123	215	variable	54	50 Hz	40-100/min
# 4603.250.600	~ 395	290	~ 123	215	variable	54	60 Hz	40-100/min
# 4603.400.500	~ 650	440	~ 190	228	variable	125	50 Hz	50-180/min
# 4603.400.600	~ 650	440	~ 190	228	variable	125	60 Hz	50-180/min
# 4603.630.500	~ 858	660	~ 225	228	variable	195	50 Hz	50-180/min
# 4603.630.600	~ 858	660	~ 225	228	variable	195	60 Hz	50-180/min

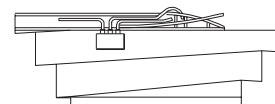
Sorting bowls



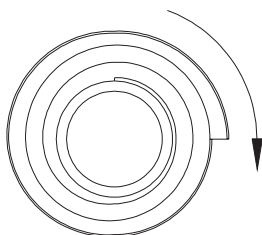
cylindric form



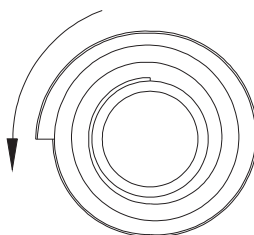
conical form



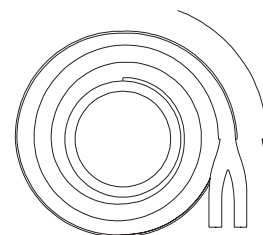
step form



4607.400.001



4607.400.002



4607.400.201

mm when not indicated

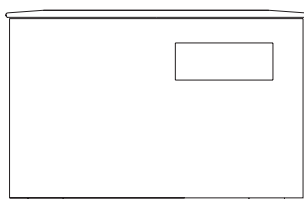
Article ID. No	Dimensions			Direction	Speed
	Ø a	H1	B1 / L1 / L2	of Rotation	pcs/minute
# 4607.400.001	~ 650	~ 190	variable	clock-wise	50-180/min
# 4607.400.002	~ 650	~ 190	variable	anti clock-wise	50-180/min
# 4607.400.201	~ 650	~ 190	variable	clockwise	100-200/min

Motor for sorting bowls

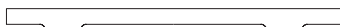
Covering



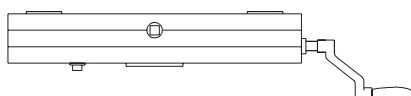
Motor

Speed Control
ESG 2000

Base Plate



Positioning

Speed Control
ESG 90

mm when not indicated

Article ID. No	Dimensions				Weight	Direction	Electricity
	Diameter	Height	Length	Width	kg	of Rotation	Volt / Hertz
Covering	Dimensions according to your indication.						
Motor							
# 4609.250.501	290	215	-	-	~ 54	clock-wise	230 V / 50 Hz
# 4609.250.502	290	215	-	-	~ 54	anti clock-wise	230 V / 50 Hz
# 4609.250.601	290	215	-	-	~ 54	clock-wise	230 V / 60 Hz
# 4609.250.602	290	215	-	-	~ 54	anti clock-wise	230 V / 60 Hz
# 4609.400.501	440	228	-	-	~ 115	clock-wise	230 V / 50 Hz
# 4609.400.502	440	228	-	-	~ 115	anti clock-wise	230 V / 50 Hz
# 4609.400.601	440	228	-	-	~ 115	clock-wise	230 V / 60 Hz
# 4609.400.602	440	228	-	-	~ 115	anti clock-wise	230 V / 60 Hz
# 4609.630.501	660	228	-	-	~ 175	clock-wise	230 V / 50 Hz
# 4609.630.502	660	228	-	-	~ 175	anti clock-wise	230 V / 50 Hz
# 4609.630.601	660	228	-	-	~ 175	clock-wise	230 V / 60 Hz
# 4609.630.602	660	228	-	-	~ 175	anti clock-wise	230 V / 60 Hz
Base Plate	Dimensions according to your indication.						
Positioning	Dimensions according to your indication.						
Speed Control							
# 4609.200.500	ESG2000	180	192	132	~ 2	-	230 VAC / 50 Hz
# 4609.200.600	ESG2000	180	192	132	~ 2	-	230 VAC / 60 Hz
# 4609.090.500	ESG90	190	140	104	~ 2	-	230 VAC / 50 Hz
# 4609.090.600	ESG90	190	140	104	~ 2	-	230 VAC / 60 Hz



For the whole model range of Sprimag from HIL 02 to HIL 32



Our control on the basis of S7 works with an independent CPU.
Our touch panel is equipped with a "visualization programme".
This modern construction set has already and successfully been used in the production plants.

- Our control can be installed by a qualified electrician/ electronic technician of the customer at any time
- Our control includes 40 storage spaces for the recipe administration
- Further storage spaces are possible on additional charge
- Every single spray gun from 1 to 6 is individually adjustable
- Test button and spray valves can be used furthermore
- Optionally, the existing test buttons can visually be replaced on the touch panel
- The touch panel is equipped with a visualization programme. Therefore an easy calibration of the setpoint device is possible at a push of the button
- 5 independent tube production counters
- The spray time will be adjusted from 0 - 999 as on the old **FORTRON**
- One touch panel for the adjustment of the spray time with recipe administration and calibration of the setpoint device in an external case for the spray guns 1 - 6
- An additional touch panel for the installation in the switchboard for the recipe administration and calibration of the setpoint device is optional
- All necessary component parts are available from stock at short notice

Article ID. No	Machine Type	Spray guns in origin	Article ID. No	Machine Type	Spray guns in origin
# 4700.002.002	HIL 02	2 spray guns	# 4700.002.003	HIL 02	3 spray guns
# 4700.006.004	HIL 06	4 spray guns	# 4700.006.006	HIL 06	6 spray guns
# 4700.008.004	HIL 08	4 spray guns	# 4700.008.006	HIL 08	6 spray guns
# 4700.010.004	HIL 10	4 spray guns	# 4700.010.006	HIL 10	6 spray guns
Article ID. No	Machine Type	Spray guns in origin	Article ID. No	Machine Type	Spray guns in origin
# 4700.012.004	HIL 12	4 spray guns	# 4700.012.006	HIL 12	6 spray guns
# 4700.026.004	HIL 26	4 spray guns	# 4700.026.006	HIL 26	6 spray guns
# 4700.028.004	HIL 28	4 spray guns	# 4700.028.006	HIL 28	6 spray guns
# 4700.031.004	HIL 31	4 spray guns	# 4700.031.006	HIL 31	6 spray guns
# 4700.032.004	HIL 32	4 spray guns	# 4700.032.006	HIL 32	6 spray guns
By request please let us know the machine no., year of manufacturer and our Article no. !					