

Axis TM165 Motorised Drum

General Features

- Diameter Ø165mm
- High duty helical steel gear unit
- Standard length from 400mm to 1350mm
- Asynchronous three-phase motor
- 0.37kw to 3.0kw input power
- Insulation Class F
- Mild steel or stainless steel construction
- Crowned drum surface
- Lubricated with synthetic oil
- Straight, angular cable gland or terminal box connection
- Special options available



Axis TM165 Dimensions

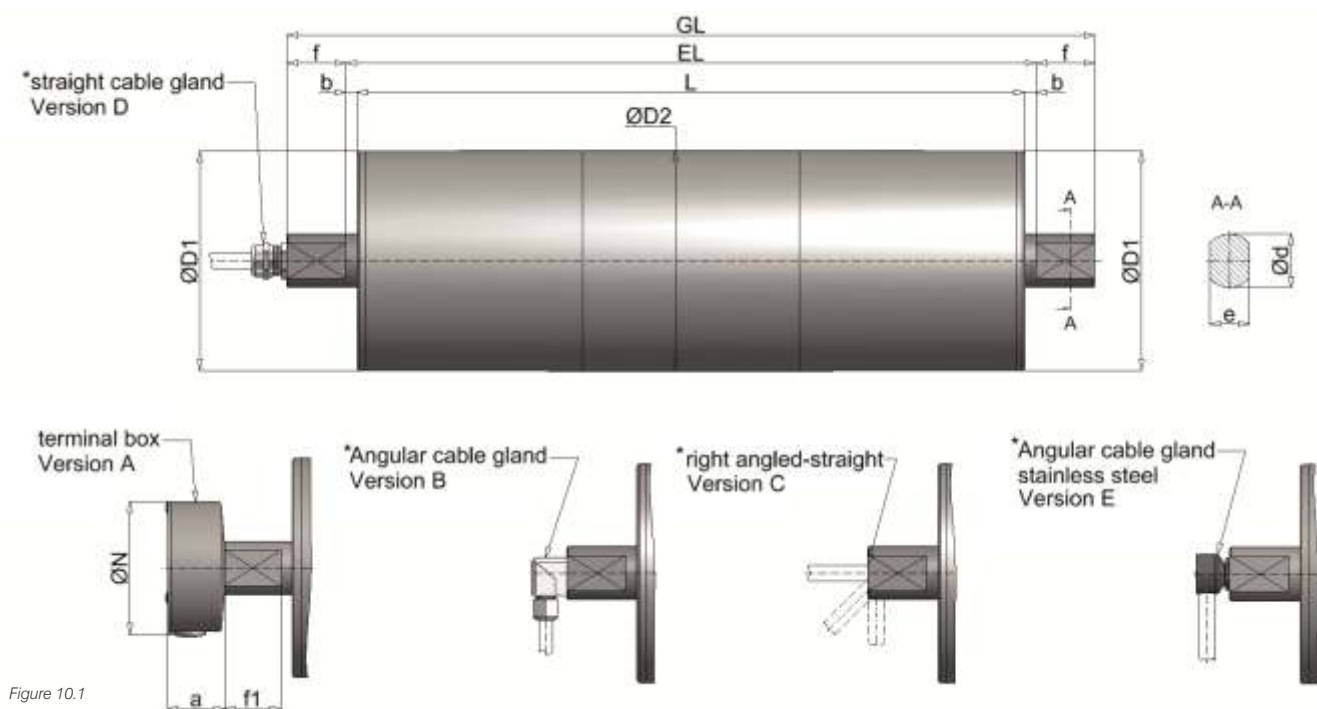


Figure 10.1

Dimensions in mm

DRUM MOTOR										STANDARD IP66	
Size	Type	Ø D1	Ø D2**	a	Ø N	Ø d	e	f	f1	b	EL
165	TM 165.1	164	165	43	100	40	30	44	42	8,5	L + 17
GUIDE DRUM											
165	UT 165.1	164	165			40	30	44		8,5	L + 17

* With 1m cable

** Diameter with cylindrical drum design

Axis TM165 Motorised Drum

Axis TM165 Performance Data

TYPE	POWER	BELT SPEED	ROTATION SPEED	BELT PULL	TORQUE	POWER INPUT AT 400V / 50Hz	DRUM LENGTH	WEIGHT
		v	n2	F	T2		L min.	L=500mm
	[kW]	[m/s]	[1/min]	[N]	[Nm]		[mm]	[kg]
TM165.1	0,37 8-pole	0,19	22	1911	158	1,50	400	44,0
		0,24	27	1573	130			
		0,28	33	1315	108			
		0,33	39	1111	92			
		0,39	45	946	78			
		0,46	53	810	67			
		0,54	63	682	56			
		0,66	76	562	46			
		0,79	91	470	39			
		0,93	108	397	33			
		1,09	127	338	28			
		1,28	148	289	24			
TM165.1	0,75 6-pole	0,25	29	2947	243	2,20	400	44,0
		0,31	36	2427	200			
		0,37	43	2028	167			
		0,44	51	1714	141			
		0,51	59	1460	120			
		0,60	69	1249	103			
		0,71	82	1053	87			
		0,87	100	867	71			
		1,04	120	724	60			
		1,23	142	612	51			
		1,44	167	521	43			
		1,68	195	446	37			
TM165.1	1,10 4-pole	0,39	45	2841	234	3,00	400	44,0
		0,47	54	2339	193			
		0,56	65	1955	161			
		0,67	77	1652	136			
		0,78	91	1407	116			
		0,91	106	1204	99			
		1,08	126	1014	84			
		1,32	152	835	69			
		1,58	182	698	58			
		1,86	216	590	49			
		2,19	253	502	41			
		2,56	296	430	35			
TM165.1	1,50 4-pole	0,56	65	2656	219	3,60	425	47,0
		0,67	77	2245	185			
		0,78	91	1911	158			
		0,92	106	1636	135			
		1,09	126	1378	114			
		1,32	153	1135	94			
		1,58	183	949	78			
		1,87	217	802	66			
		2,20	254	683	56			
		2,57	297	584	48			

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Axis TM165 Performance Data

TYPE	POWER	BELT SPEED	ROTATION SPEED	BELT PULL	TORQUE	POWER INPUT AT 400V / 50Hz	DRUM LENGTH	WEIGHT
		v	n2	F	T2		L min.	L=500mm
	[kW]	[m/s]	[1/min]	[N]	[Nm]		[mm]	[kg]
TM165.1	2,20 2-pole	0,78	91	2805	231	4,30	425	47,0
		0,95	110	2310	191			
		1,14	132	1931	159			
		1,35	156	1632	135			
		1,58	183	1389	115			
		1,85	214	1189	98			
		2,20	254	1002	83			
		2,67	309	825	68			
		3,19	369	690	57			
		3,78	437	583	48			
		4,43	513	496	41			
		5,18	600	425	35			
TM165.1	3,00 2-pole	1,13	132	2656	219	6,80	492	48,0
		1,34	156	2245	185			
		1,57	183	1911	158			
		1,83	214	1636	135			
		2,18	254	1378	114			
		2,64	309	1135	94			
		3,16	369	949	78			
		3,74	437	802	66			
		4,39	513	683	56			
		5,13	600	584	48			

- alternative performance data and speeds on request
- indication of weight incl. oil filling (ready for operating)
- additional weight: approx. 3kg for 100mm add. length
- with brake mounting L min. dimension raises up 110mm

Standard Configuration

- Crowned shell, mild steel with rust protection paint
- Aluminium bearing covers
- Mild steel shafts with rust protection paint
- Helical gear unit with steel toothing (quiet)
- IP66 Ingress Protection rating
- Straight cable gland with 1m cable

Options

- Internal brake
- Terminal box connection
- Angular cable gland (with 1m cable)
- Angular cable gland stainless steel (with 1m cable)
- Right angled-straight cable gland (with 1m cable)
- Mechanical backstop
- Sprocket / toothed belt disc
- Sensor bearing unit (rotary encoder)
- Cylindrical drum shell, coated, zinc plated (customised)
- Stainless steel design
- Custom windings for special voltages
- Thermal overload protection
- IP67 Ingress Protection rating
- Suitable for frequency converter use
- For modular plastic conveyor belts and grooved rubber lagging
- Terminal box design in stainless steel
- Vertical mounting (should be stated in the order)
- Food-safe lubricant
- Single-phase motors on request

Alternative custom designs also available - please enquire

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Axis TM165 Clamping Bearing

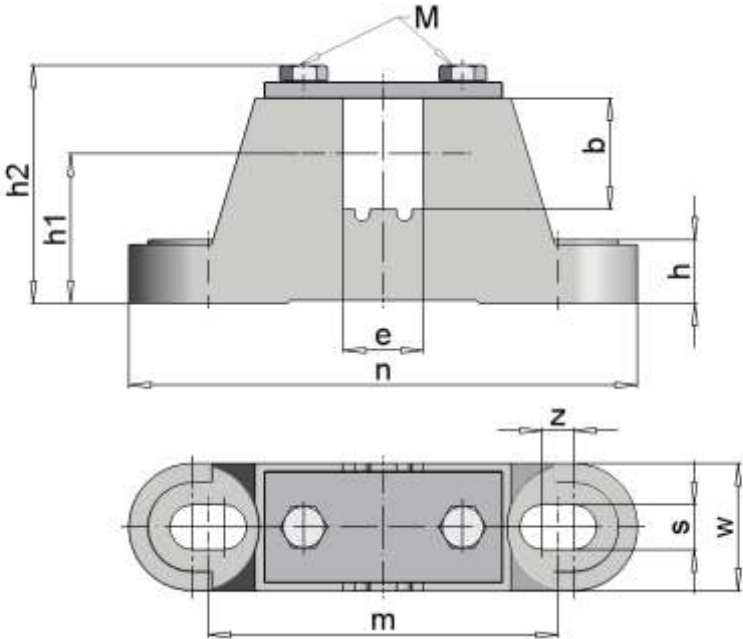
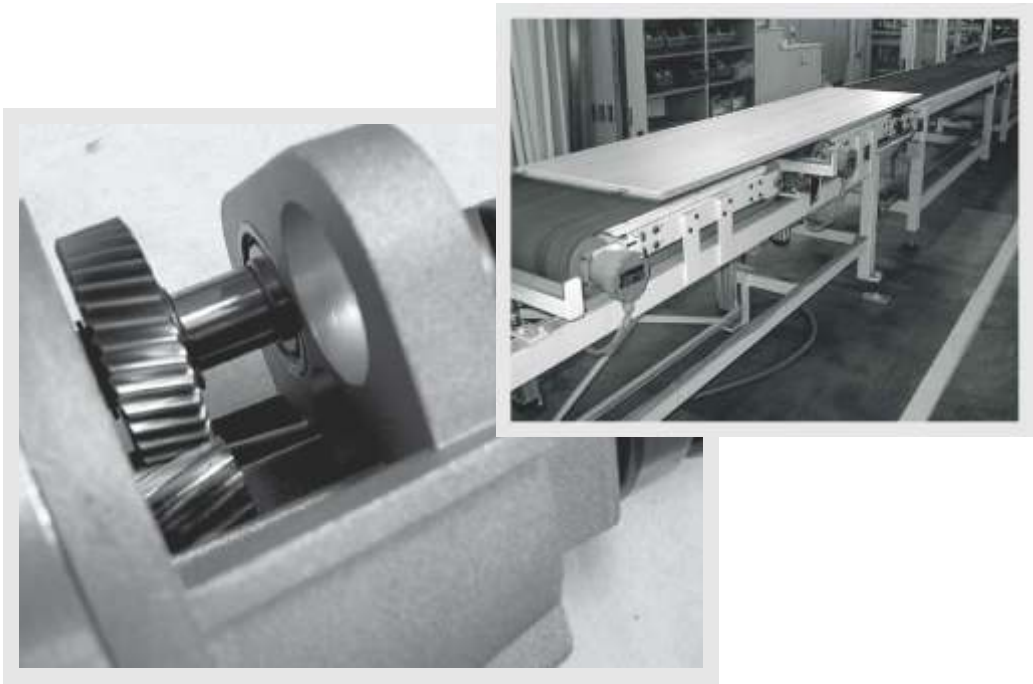


Figure 10.2

dimensions in mm

DRUM TYPE	CLAMPING BEARING	d	e	h	h1	h2	m	n	s	w	z	M	MATERIAL	ca. kg
TM/UT165.1	EL40/30 A	40	30	20	47	78,5	110	160	14	40	10	M8	Cast Iron	1,5



Indicative Applications

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