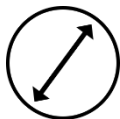


DRUM MOTOR HERKULES 89



48 VDC



Ø89mm



770W

The drum motors of the HERKULES 89 product range contain very powerful and at the same time efficient synchronous motors, which are designed for the respective operating range according to the latest calculation methods. The synchronous motors guarantee a much higher efficiency than previously used asynchronous geared motors. The motors are combined with planetary gear units which are dimensioned for maximum compactness and power density.

Technical Data

Designation		Description		
Nominal voltage*	VDC	48		
Power	W	210	440	770
Nominal current	A	6,0	11,6	19,5
Starting current	A	26,5	44,4	68,5

Ambient temperature**	°C	0 ... 40		
Outer diameter	mm	Ø89		
Wall thickness	mm	3,0		
Tube material		galvanized steel, stainless steel		
Tube***		cylindrical crowned tube coating		
Protection class		IP54		

* 400 VAC on request.

** Other ambient temperatures on request.

*** Dimensions and design can be customized.

Versions

Power [W]	v [m/s]	M _n [Nm]	M _a [Nm]	F _n [N]	F _{max} [N]
210	0 ... 0,38	22,5	55,0	507	1236
	0 ... 0,53	16,1	55,0	362	1236
	0 ... 0,75	11,5	50,6	258	1137
	0 ... 0,93	9,2	40,5	207	910
	0 ... 1,17	7,4	32,4	165	728
	0 ... 1,55	5,5	24,3	124	546
	0 ... 2,66	3,3	14,5	74	325
	0 ... 4,66	1,9	8,3	42	186

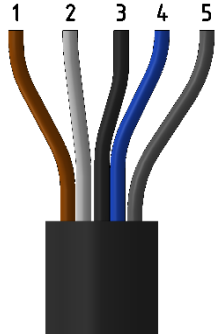
440	0 ... 0,38	44,0	55,0	989	1236
	0 ... 0,53	33,8	55,0	760	1236
	0 ... 0,75	24,2	55,0	543	1236
	0 ... 0,93	19,3	55,0	434	1236
	0 ... 1,17	15,5	52,0	347	1169
	0 ... 1,55	11,6	44,2	260	992
	0 ... 2,66	6,9	26,3	155	591
	0 ... 4,66	3,9	15,0	89	338

Power [W]	v [m/s]	M _n [Nm]	M _a [Nm]	F _n [N]	F _{max} [N]
770	0 ... 0,29	100,0	125,0	2247	2809
	0 ... 0,37	85,1	125,0	1912	2809
	0 ... 0,53	59,6	125,0	1339	2809
	0 ... 0,75	42,6	125,0	956	2809
	0 ... 0,93	34,0	119,6	765	2688
	0 ... 1,17	27,2	95,7	612	2150
	0 ... 1,55	20,4	71,8	459	1613
	0 ... 2,66	12,2	42,8	274	961

v speed
 M_n nominal torque
 M_a starting torque
 F_n nominal traction force
 F_{max} max. traction force

Motor connection*

Motor cable length 0,5m with flying leads, external motor controller

Signal	Pin	Description	Wire colour	
U	1	Motor phase U	brown	
V	2	Motor phase V	white	
W	3	Motor phase W	black	
NP	4	Neutral point	blue	
GND	5	Ground	grey	

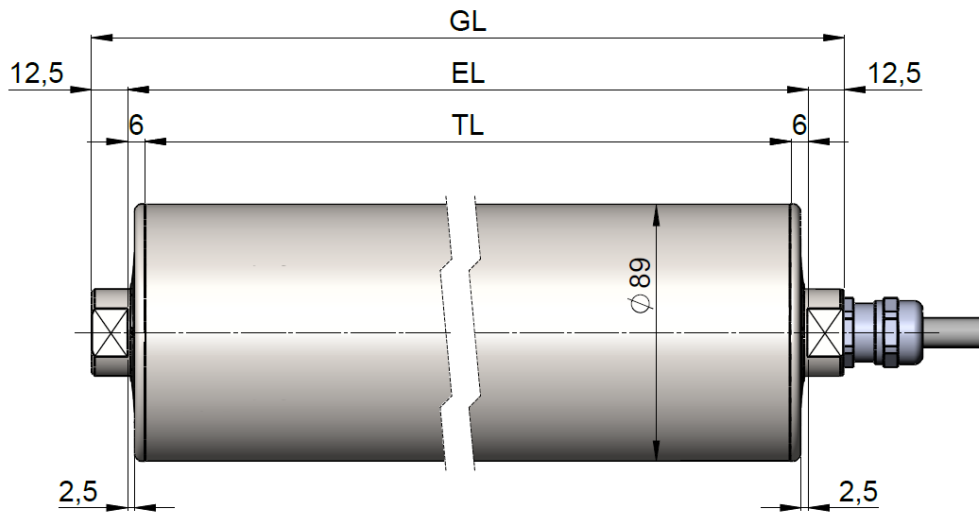
* Assignment Hall – and encoder on request.

Optional extensions*

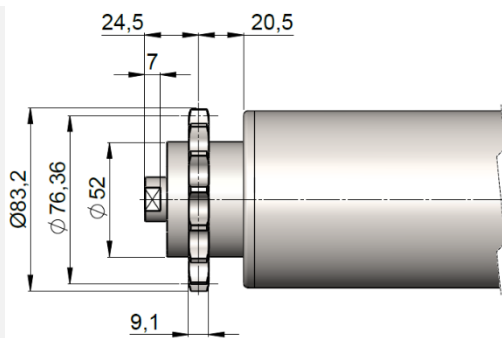
Feedback	Description
Hallsensor	5V, 3×120° - H1, H2, H3
Encoder	5V VTTL, 1024 I/U, A/B/I
Resolver	On request
Holding brake	24VDC, 1,0Nm

* Other feedback-systems and brakes on request.

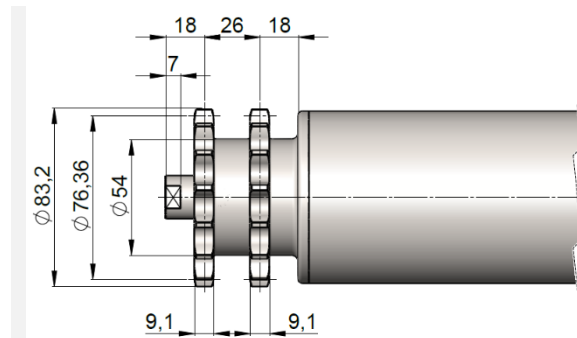
Dimensions



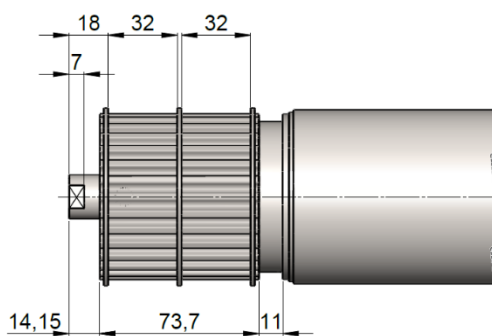
ILL.: STANDARD WITH FIXED AXLE



ILL.: SINGLE CHAIN WHEEL



ILL.: DOUBLE CHAIN WHEEL



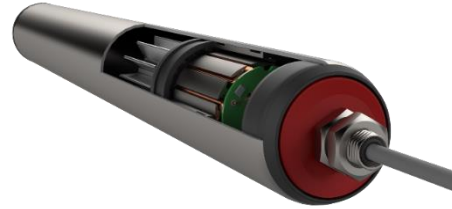
ILL.: TOOTHED BELT HEAD

- GL overall length
- EL clamping length
- TL tube length

„INNOVATION IS OUR DRIVE“

MOTORIZED ROLLERS/DRUM MOTORS

*Highest power density in relation to the support tube diameter.
Suitable solutions for sorters, roller conveyors, lifting stations or chain conveyors.*

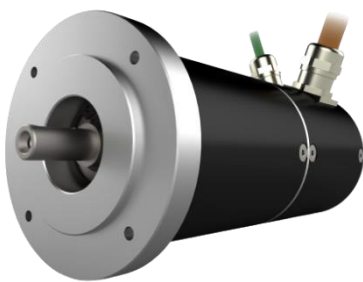


WHEEL HUB DRIVE

Whether differential or omnidirectional, individual drive solutions for shuttle or driverless transport systems up to 10m/s (36km/h) or more is possible.

DRIVE CONTROLLER

*Voltage range from 24/48VDC.
Whether sensorless or with feedback system, an optimal control for the motors is guaranteed.*



SYNCHRONOUS MOTORS

*Individual engine designs offer maximum flexibility for your application.
Also available with attached gearbox.*

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