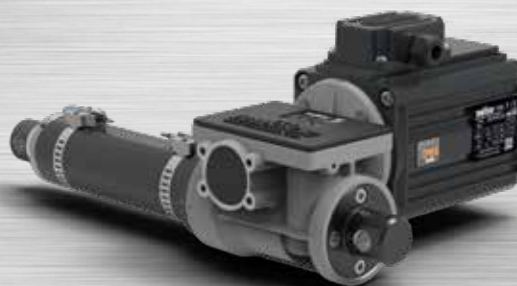


Attuatori Lineari
Linear actuators



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Caratteristiche tecniche

Technical features

La nuova serie di attuatori elettromeccanici AT è stata progettata sinergicamente con gli altri prodotti aziendali, sfruttando i componenti e i processi produttivi disponibili per garantire un prodotto affidabile e razionale.

The new series of electromechanical actuators has been designed in synergy with the other products of the company, using the components and the manufacturing processes available to grant a reliable and rational product.

Caratteristiche principali della gamma sono:

- Carcassa riduttore in alluminio pressofuso
- Ingranaggio a vite senza fine con vite in acciaio cementato, temprato e rettificato (16MnCr5)
- Ruota in bronzo G-CuSn12
- Vite trapezia con filettatura ISO 2901...2904 in acciaio C45 rullato
- Asta traslante in acciaio cromato
- Tubo di protezione con specifico profilo di alluminio estruso e anodizzato
- Flange motore in accordo con standard IEC B14 e B5

Main features of the range are:

- Die cast aluminium housing
- Worm gear pair with case hardened ground worm (16MnCr5)
- G-CuSn12 bronze worm wheel
- Trapezoidal screw with ISO 2901...2904 thread in C45 rolled steel
- Chromed steel translating rod
- Protecting tube with specific profile in extruded and anodized aluminium
- Motor flanges according to IEC B14 and B5 standard

Velocità unitaria lineare (V_{lu}) [mm]:

La velocità unitaria lineare V_{lu} [mm] è la velocità di avanzamento dello stelo per ciascun giro dell'asse in ingresso.

Unitary linear speed (V_{lu}) [mm]:

Unit linear speed V_{lu} [mm] is the displacement speed of the rod for each revolution of the input shaft.

$$V_{lu} = v / n_n * 60 = p / i$$

Essa definisce le caratteristiche costruttive dell'attuatore e dipende dalla scelta del motore (in particolare dalla sua velocità).

It is related to the main constructive features of the actuator and to the type of motor (especially its speed).

Attuatore Actuator	Caratteristiche generali / General features							
AT06	Carico massimo Max. load F [N]	6000						
	i	5		7.5		10	15	30
	TpN [mm]	16x4	16x8	16x4	16x8	16x4		
	V_{lu} [mm]	0.80	1.6	0.53	1.07	0.4	0.27	0.13
	η_a	0.32	0.37	0.31	0.36	0.31	0.29	0.24
AT12	Carico massimo Max. load F [N]	12000						
	i	5		7.5		10	15	30
	TpN [mm]	18x4	18x8	18x4	18x8	18x4		
	V_{lu} [mm]	0.8	1.6	0.53	1.07	0.4	0.27	0.13
	η_a	0.29	0.32	0.29	0.31	0.29	0.27	0.23
AT18	Carico massimo Max. load F [N]	18000						
	i	5		7.5		10	15	30
	TpN [mm]	25x5	25x10	25x5	25x10	25x5		
	V_{lu} [mm]	1.00	2.00	0.67	1.33	0.50	0.33	0.17
	η_a	0.31	0.33	0.30	0.33	0.29	0.28	0.25

Dati tecnici
Prestazioni con motore trifase CA

Technical data
Performance with 3-phase AC motor
AT06 CA/AC 230-400 V 50Hz

V_{lu} [mm]	F_{max} [N]	V [mm/s]	Motore Motor	P_n [kw]	n_n [rpm]	i	TpN ($\phi \times$ pitch) [mm]	Rendimento Efficiency η_a	Corsa massima Max. stroke S_{max} [mm]	
									Fine corsa meccanici Mechanical switches	Fine corsa magnetici o senza finecorsa Magnetic switches or no switches
1.6	1350	37	SMT5634NVBR	0.12	1400	5	16x8	0.37	600	900
0.8	2900	19	SMT5644NV	0.18	1400	5	16x4	0.32	350	800
0.53	4500	12	SMT5644NV	0.18	1400	7.5	16x4	0.31	350	640
0.4	5800	9	SMT5644NV	0.18	1400	10	16x4	0.31	350	550
0.27	6000	6	SMT5634NV	0.12	1400	15	16x4	0.29	350	550
0.13	6000	3	SMT5624NV	0.09	1400	30	16x4	0.24	350	550

AT12 CA/AC 230-400 V 50Hz

V_{lu} [mm]	F_{max} [N]	V [mm/s]	Motore Motor	P_n [kw]	n_n [rpm]	i	TpN ($\phi \times$ pitch) [mm]	Rendimento Efficiency η_a	Corsa massima Max. stroke S_{max} [mm]	
									Fine corsa meccanici Mechanical switches	Fine corsa magnetici o senza finecorsa Magnetic switches or no switches
1.6	2300	37	SMT6334NVBR	0.37	1400	5	18x8	0.32	1000	1000
0.8	6000	19	SMT6344NV	0.37	1400	5	18x4	0.29	650	750
0.53	8500	12	SMT6344NV	0.37	1400	7.5	18x4	0.29	630	630
0.4	10000	9	SMT6344NV	0.37	1400	10	18x4	0.29	580	580
0.27	10000	6	SMT6334NV	0.25	1400	15	18x4	0.27	580	580
0.13	12000	3	SMT5644NV	0.18	1400	30	18x4	0.23	530	530

AT18 CA/AC 230-400 V 50Hz

V_{lu} [mm]	F_{max} [N]	V [mm/s]	Motore Motor	P_n [kw]	n_n [rpm]	i	TpN ($\phi \times$ pitch) [mm]	Rendimento Efficiency η_a	Corsa massima Max. stroke S_{max} [mm]	
									Fine corsa meccanici Mechanical switches	Fine corsa magnetici o senza finecorsa Magnetic switches or no switches
2	4000	47	SMT7134NVBR	0.55	1400	5	25x10	0.33	1200	1400
1	10000	23	SMT7144NV	0.75	1400	5	25x5	0.31	800	1200
0.67	10000	16	SMT7134NV	0.55	1400	7.5	25x5	0.30	800	1200
0.5	14000	12	SMT7134NV	0.55	1400	10	25x5	0.29	800	1000
0.33	15000	8	SMT7134NV	0.55	1400	15	25x5	0.28	800	980
0.17	18000	4	SMT7134NV	0.55	1400	30	25x5	0.25	800	890

Dati tecnici

Prestazioni con motore in CC



Technical data

Performance with DC motor

AT

AT06 CC/DC 24V

V_{lu} [mm]	F_{max} [N]	V [mm/s]	Motore Motor	Corrente massima Max current [A]	n_n [rpm]	i	TpN ($\phi \times$ pitch) [mm]	Rendimento Efficiency η_a	Corsa massima Max. stroke s_{max} [mm]	
									Fine corsa meccanici Mechanical switches	Fine corsa magnetici o senza finecorsa Magnetic switches or no switches
1.6	1300	80	EC100E	16.8	3000	5	16x8	0.37	600	820
0.8	2200	40	EC100E	16.8	3000	5	16x4	0.32	350	820
0.53	3250	27	EC100	16.8	3000	7.5	16x4	0.31	350	750
0.4	4000	20	EC100	16.0	3000	10	16x4	0.31	350	680
0.27	6000	13	EC100	15.8	3000	15	16x4	0.29	350	550
0.13	6000	7	EC070	8.9	3000	30	16x4	0.24	350	550

AT12 CC/DC 24V

V_{lu} [mm]	F_{max} [N]	V [mm/s]	Motore Motor	Corrente massima Max current [A]	n_n [rpm]	i	TpN ($\phi \times$ pitch) [mm]	Rendimento Efficiency η_a	Corsa massima Max. stroke s_{max} [mm]	
									Fine corsa meccanici Mechanical switches	Fine corsa magnetici o senza finecorsa Magnetic switches or no switches
1.6	2200	80	EC180E	30.0	3000	5	18x8	0.32	890	890
0.8	3800	40	EC180	30.0	3000	5	18x4	0.29	650	890
0.53	5600	27	EC180	30.0	3000	7.5	18x4	0.29	650	780
0.4	7300	20	EC180	30.0	3000	10	18x4	0.29	650	680
0.27	10700	13	EC180	30.0	3000	15	18x4	0.27	560	560
0.13	12000	7	EC180	19.1	3000	30	18x4	0.23	530	530

AT18 CC/DC 24V

V_{lu} [mm]	F_{max} [N]	V [mm/s]	Motore Motor	Corrente massima Max current [A]	n_n [rpm]	i	TpN ($\phi \times$ pitch) [mm]	Rendimento Efficiency η_a	Corsa massima Max. stroke s_{max} [mm]	
									Fine corsa meccanici Mechanical switches	Fine corsa magnetici o senza finecorsa Magnetic switches or no switches
2	3000	100	EC350E	52.4	3000	5	25x10	0.33	1050	1050
1	5000	50	EC350	47.8	3000	5	25x5	0.31	800	1050
0.67	7500	33	EC350	48.7	3000	7.5	25x5	0.30	800	1300
0.5	9650	25	EC350	48.7	3000	10	25x5	0.29	800	1200
0.33	12000	17	EC250	40.3	3000	15	25x5	0.28	800	1050
0.17	16000	8	EC250	28.9	3000	30	25x5	0.25	800	950

Designazione attuatore lineare

Linear Actuator classification

AT	06	FS	0.3	0180 ⁽¹⁾	PE	
Tipo Type	Taglia Size	Versione attuatore Actuator version	Velocità lineare unitaria Unitary linear speed V _{lu} [mm]	Corsa Stroke s [mm]	Terminale anteriore Front terminal	
AT	06	FS Flangia sinistra (standard) Left flange (standard)	AT06	Personalizzata Customized	PE Terminale oscillante Oscillating terminal	
						12
		18			AS Albero maschio sinistro Left input shaft	
						AD Albero maschio destro Right input shaft
		12			AT12	
						SE Terminale speciale Special terminal
	18		AT18			

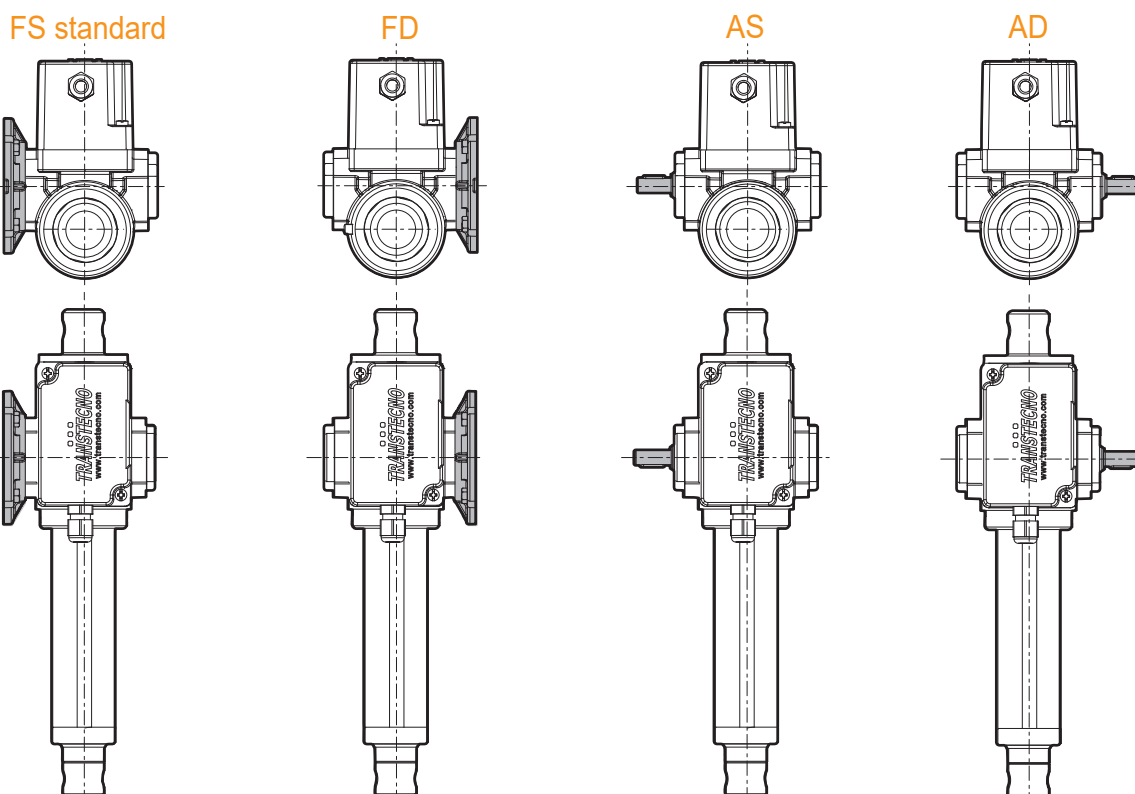
- ⁽¹⁾ La corsa dell'attuatore è personalizzata su richiesta.
 Preferibilmente adottare una corsa minima di 50 mm con eventuali incrementi multipli di 50 in 50.
The stroke of the actuator is customized.
It is preferable to select a minimum stroke of 50 mm with further increments of 50 mm.

Versione attuatore lineare

Linear Actuator version

Per definizione la versione è identificata osservando l'attuatore lineare con il terminale rivolto verso l'osservatore. In questo modo sono identificabili le posizioni a destra o a sinistra sia degli alberi sia delle flange.

By definition, the version form is identified by observing the linear actuator with the rod end facing the observer. In this way, the left or right positions of both shafts and flanges can be identified.



Designazione attuatore lineare

Linear Actuator classification

P0	56 ⁽²⁾	B14 ⁽²⁾	2MLS	2 ⁽³⁾	AD
Terminale posteriore <i>Rear terminal</i>	Taglia IEC <i>IEC size</i>	Forma costruttiva <i>Version</i>	Tipo fine corsa <i>Stroke limit switch type</i>	Pos. fine corsa <i>Limit switch pos.</i>	Accessori <i>Accessories</i>
P0 Terminale posteriore parallelo all'asse motore <i>Rear terminal parallel to motor axis</i>	56	B14	- Senza finecorsa <i>No limit switches</i>	1 (std)	AD Dispositivo antirrotazione <i>Antirotation device</i>
	63	B5	2MLS0 Nr. 2 finecorsa magnetici NC (STD) <i>Nr. 2 magnetic limit switches NC (STD)</i>	2	SN Chiocciola di sicurezza <i>Safety nut</i>
	71		2MLS1 Nr. 2 finecorsa magnetici NO <i>Nr. 2 magnetic limit switches NO</i>	3	B Protezione elastica <i>Elastic protection</i>
P90 Terminale posteriore perpendicolare all'asse motore <i>Rear terminal orthogonal to motor axis</i>			2MLS2 Nr. 2 finecorsa magnetici NPN <i>Nr. 2 magnetic limit switches NPN</i>	4	SSV Versione inox <i>Stainless steel version</i>
			3MLS0 Nr. 3 finecorsa magnetici NC <i>Nr. 3 magnetic limit switches NC</i>		ST Staffa per terminale anteriore e posteriore <i>Front and rear terminal bracket</i>
			3MLS1 Nr. 3 finecorsa magnetici NO <i>Nr. 3 magnetic limit switches NO</i>		
			3MLS2 Nr. 3 finecorsa magnetici NPN <i>Nr. 3 magnetic limit switches NPN</i>		
			2MS Nr. 2 finecorsa meccanici <i>Nr. 2 mechanical limit switches</i>		
			3MS Nr. 3 finecorsa meccanici <i>Nr. 3 mechanical limit switches</i>		
			2MS-k5 Nr. 2 finecorsa meccanici + potenziometro 5k <i>Nr. 2 mechanical limit switches + 5k potentiometer</i>		
			k5 Potenzziometro 5k <i>5k potentiometer</i>		

⁽²⁾ Indicare Taglia IEC e Forma costruttiva solo per versioni attuatore FS ed FD
IEC size and version only for FS and FD actuator version

⁽³⁾ Indicare Posizione fine corsa solo per versioni di fine corsa magnetiche 2MLS e 3MLS
Limit switch position only for magnetic switches 2MLS and 3MLS

Flange motore

Motor flanges

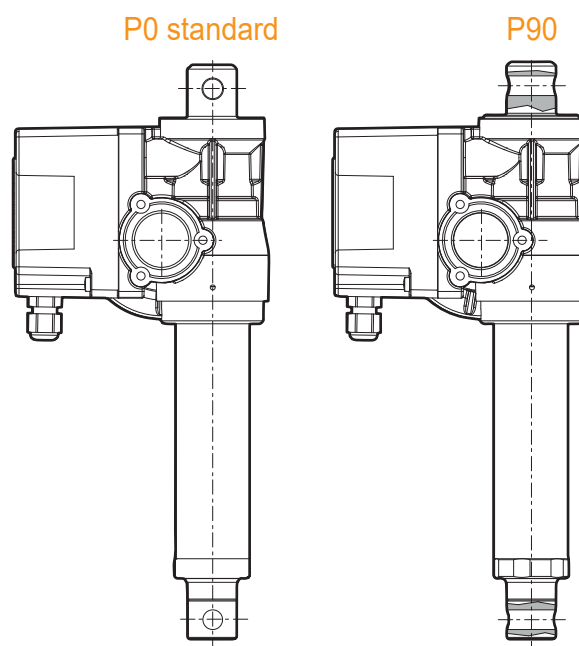
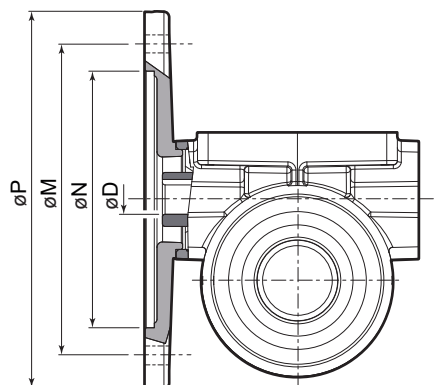
Terminale posteriore

Rear terminal

Attuatore Actuator	IEC	N	M	P	D
AT06	56 B14	50	65	80	9
AT12	63 B5	95	115	140	11
	B14	60	75	90	
	56 B5	80	100	120	9
	B14	50	65	80	
AT18	71 B5	110	130	160	14
	B14	70	85	105	
	63 B5	95	115	140	11 *
	B14	60	75	90	
	56 B5	80	100	120	9
	B14	50	65	80	

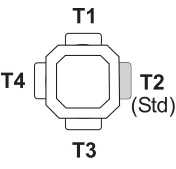
* boccia di riduzione in acciaio

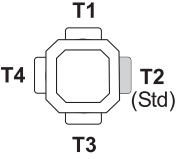
* metal shaft sleeve



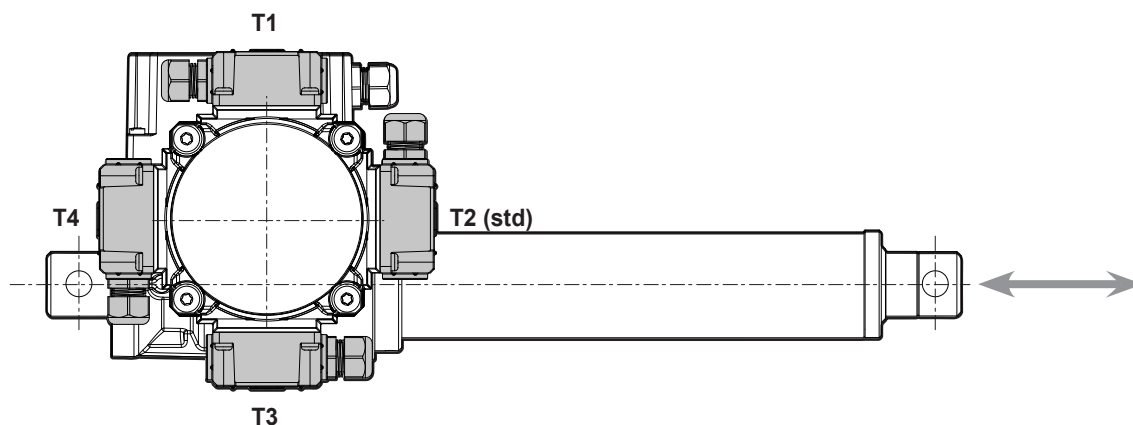
Designazione motore

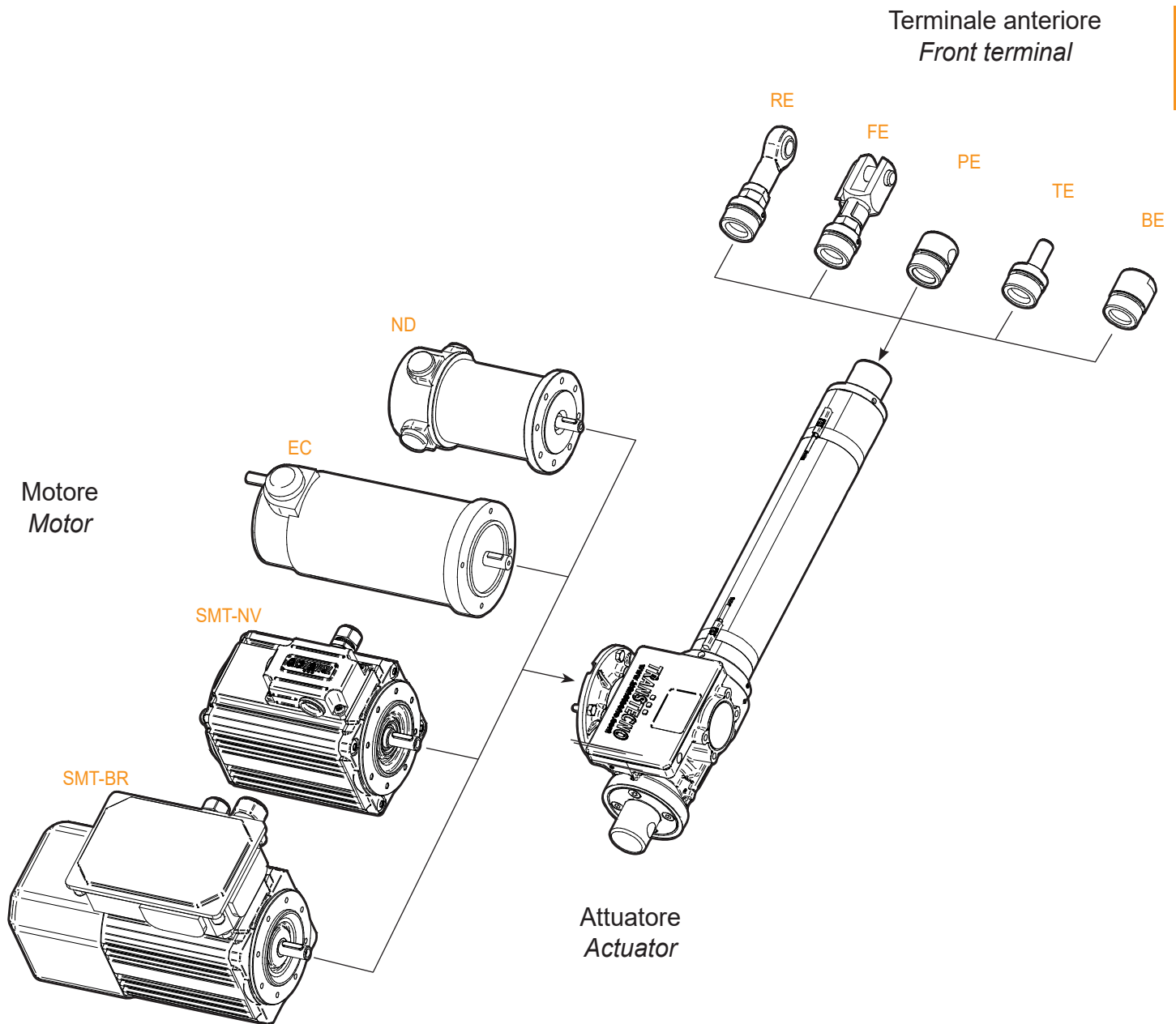
Motor classification

MOTORE TRIFASE / THREE PHASE MOTOR										
SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	-	T1
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Potenza Power	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Opzioni Options	Pos. morsettiera Terminal box pos.
SMT	Vedi tabelle See tables	1-2-3-4-5	4	0.04 kW ... 0.75 kW	B14	230-400 V 460V	50Hz 60Hz	TEFC TENV	BR →  UL-CSA → 	
 										

MOTORE MONOFASE / SINGLE PHASE MOTOR										
SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	-	T1
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Potenza Power	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Opzioni Options	Pos. morsettiera Terminal box pos.
SMM	Vedi tabelle See tables	1-2-3-4	4	0.04 kW ... 0.75 kW	B14	230V 115V (UL-CSA)	50Hz	TEFC TENV	UL-CSA → 	
 										

Posizione morsettiera / Terminal box position

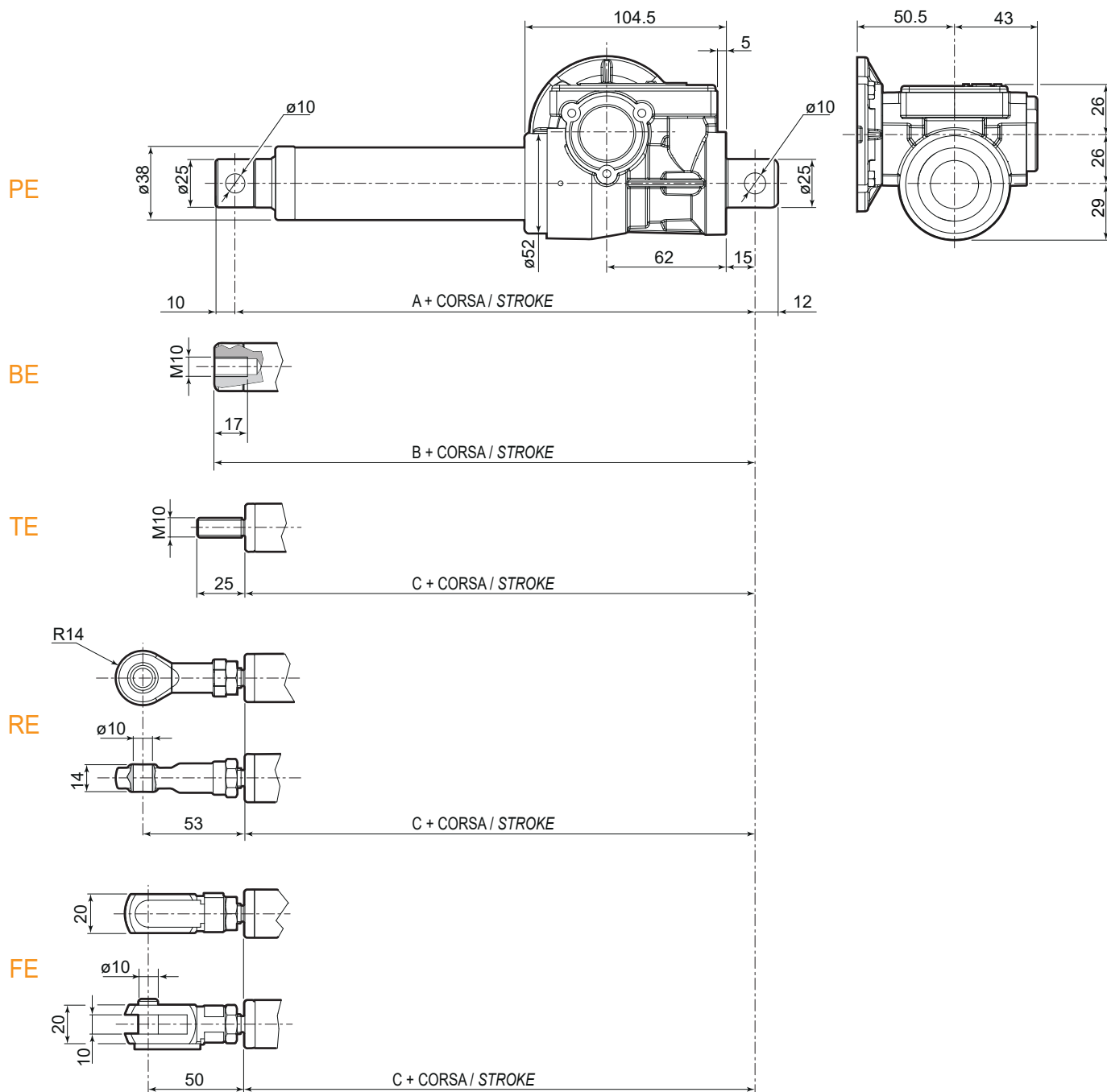




Dimensioni

Dimensions

AT06 senza finecorsa / *without limit switches*

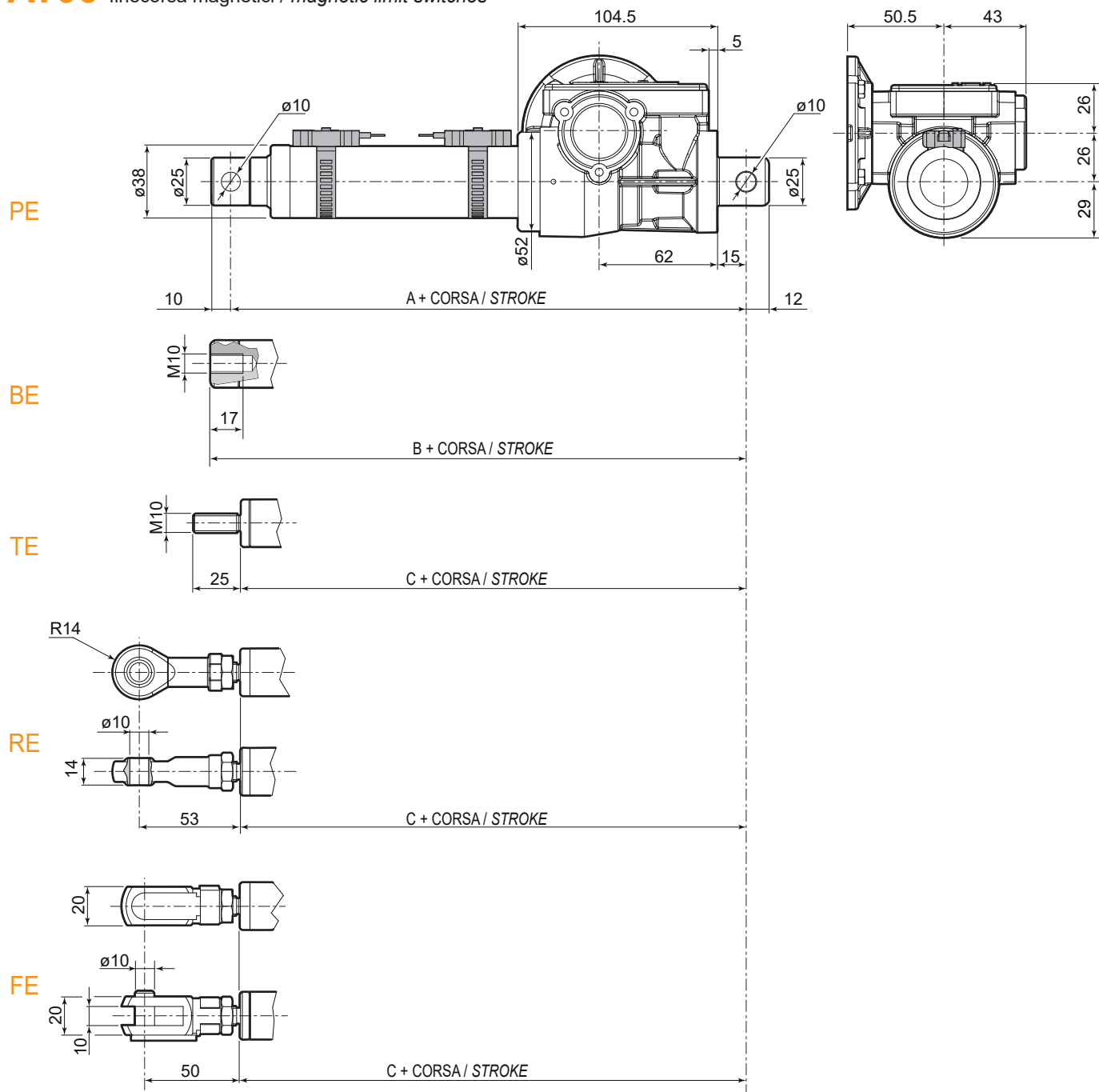


AT06 senza finecorsa without limit switches			
Dimensioni / Dimensions			
Corsa / Stroke C [mm]	A	B	C
< 320	170	175	165
320 ÷ 500	180	185	175
> 500	270	275	265

Dimensioni

Dimensions

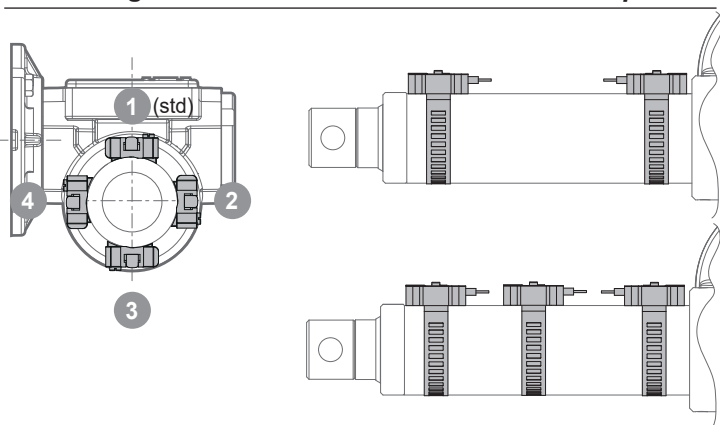
AT06 finecorsa magnetici / magnetic limit switches



Posizionamento fine corsa magnetici

Magnetic limit switches position

Corsa / Stroke C [mm]	AT06 con finecorsa magnetici with magnetic limit switches		
	Dimensioni / Dimensions		
	A	B	C
< 320	205	210	200
320 ÷ 500	215	220	210
> 500	305	310	300



Dimensions

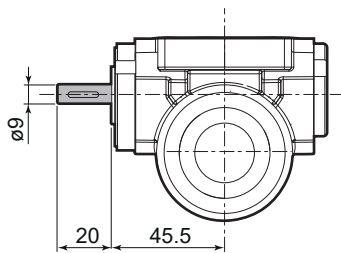
finecorsa meccanici / *mechanical limit switches*

265

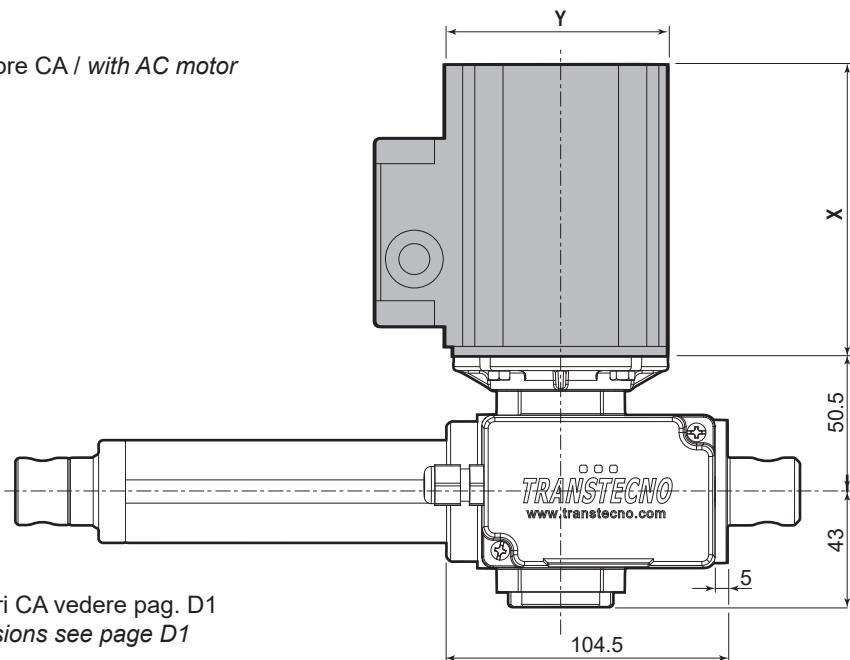
Dimensioni

Dimensions

AT06 albero maschio in ingresso / male input shaft

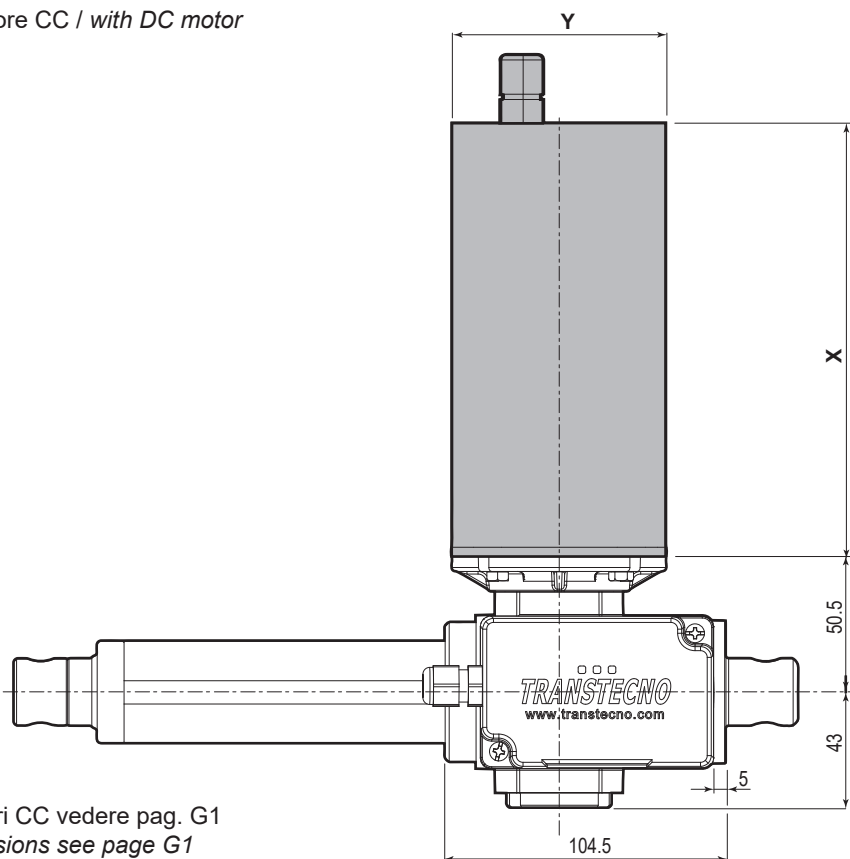


AT06 con motore CA / with AC motor



Per dimensioni motori CA vedere pag. D1
For AC motor dimensions see page D1

AT06 con motore CC / with DC motor

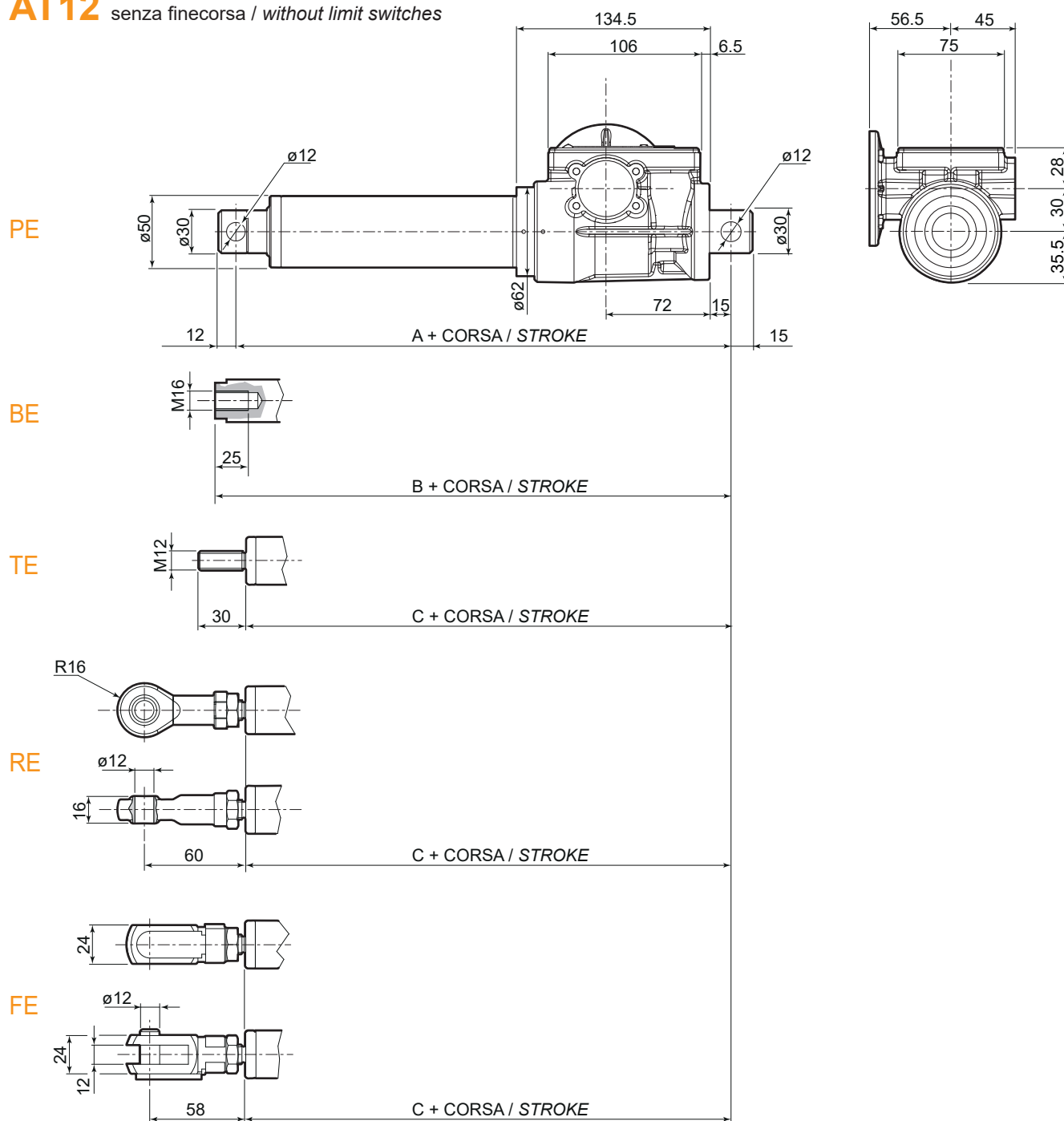


Per dimensioni motori CC vedere pag. G1
For DC motor dimensions see page G1

Dimensioni

Dimensions

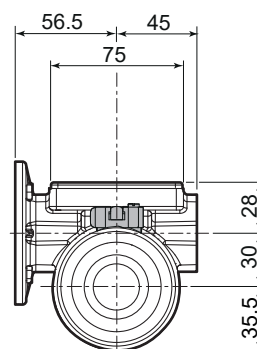
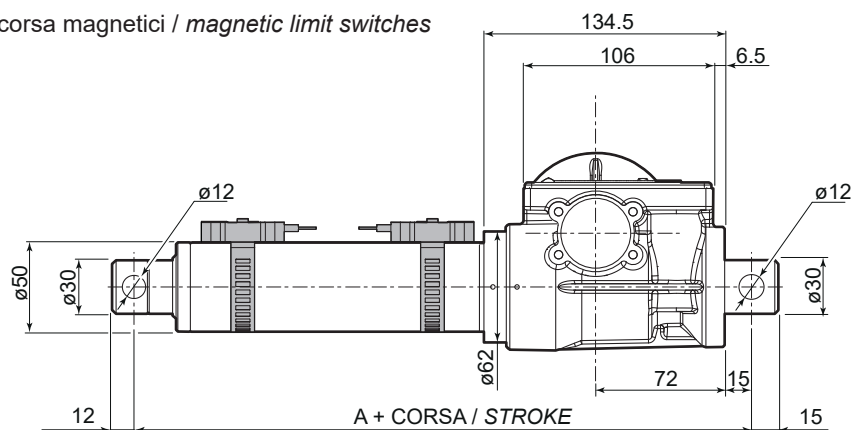
AT12 senza finecorsa / without limit switches



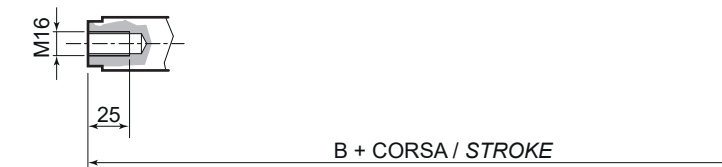
AT12 senza finecorsa without limit switches			
Dimensioni / Dimensions			
Corsa / Stroke C [mm]	A	B	C
< 360	190	206	190
360 ÷ 600	205	221	205
> 600	290	306	290

Dimensions

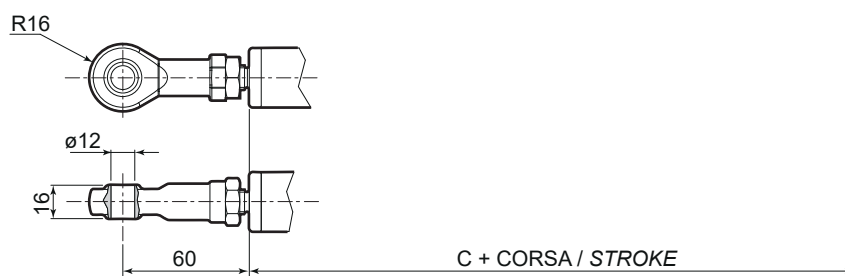
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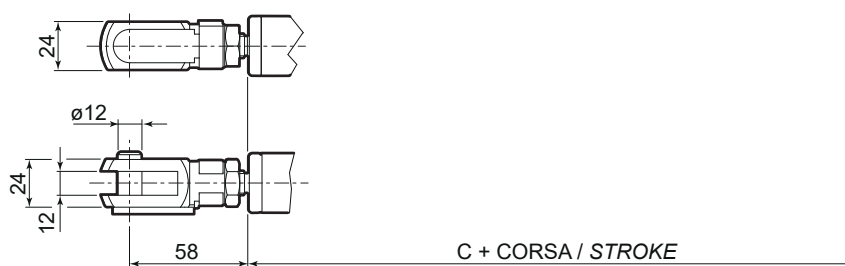
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RE

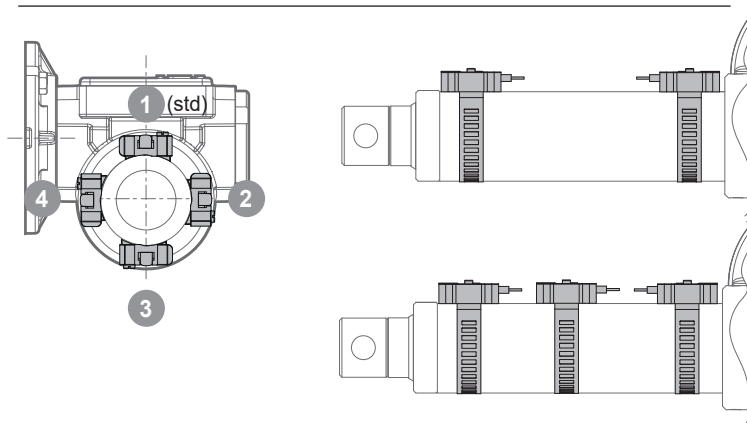


FE



**Magnetic limit
switches position**

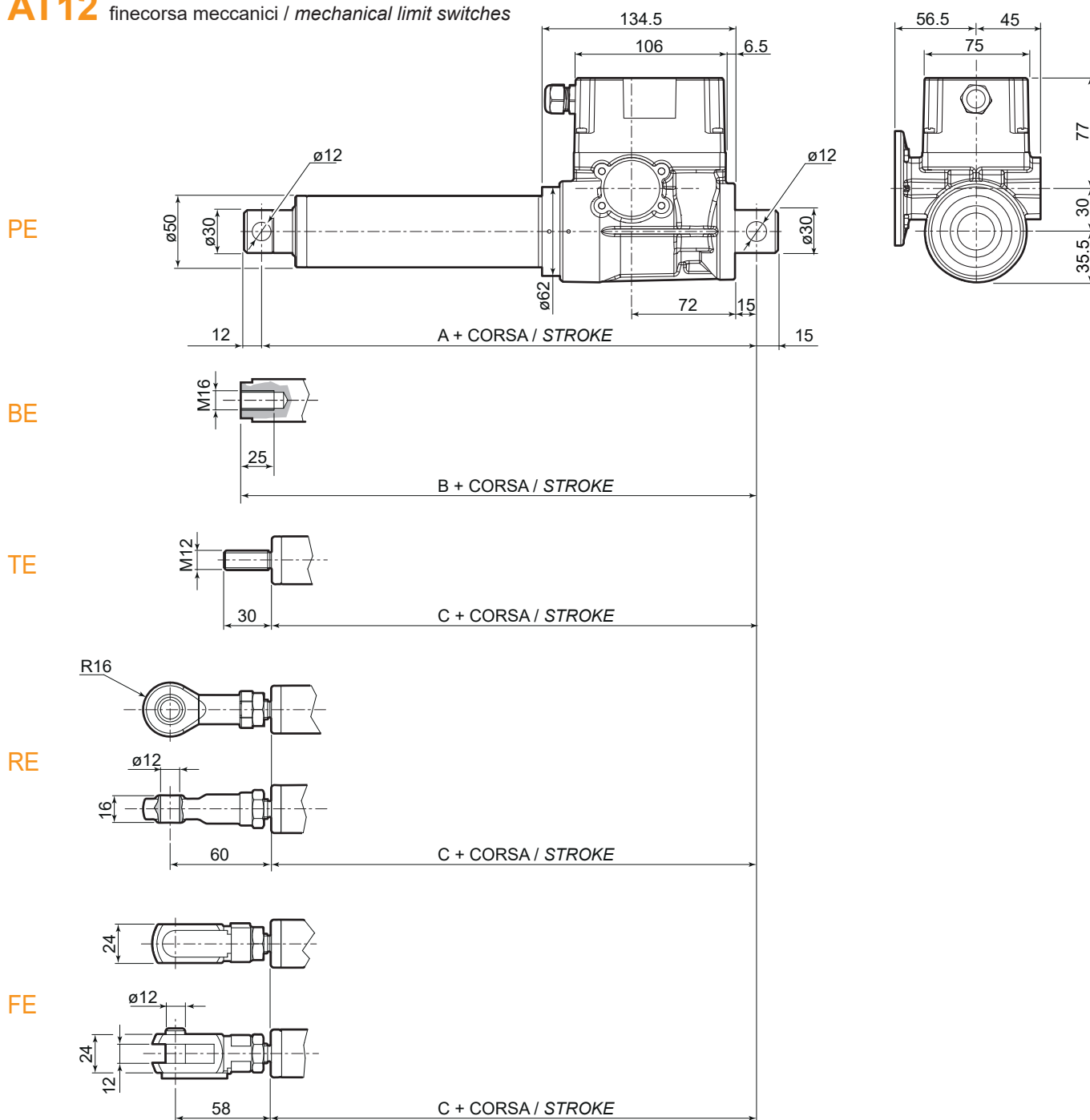
	AT12 con finecorsa magnetici with magnetic limit switches		
	Dimensioni / Dimensions		
	A	B	C
	Corsa / Stroke C [mm]		
< 360	235	251	235
360 ÷ 600	250	266	250
> 600	335	351	335



Dimensioni

Dimensions

AT12 finecorsa meccanici / *mechanical limit switches*

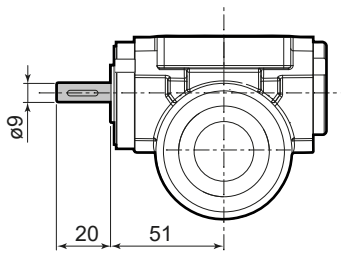


AT12 senza finecorsa without limit switches			
Dimensioni / Dimensions			
Corsa / Stroke C [mm]	A	B	C
< 360	190	206	190
360 ÷ 600	205	221	205
> 600	290	306	290

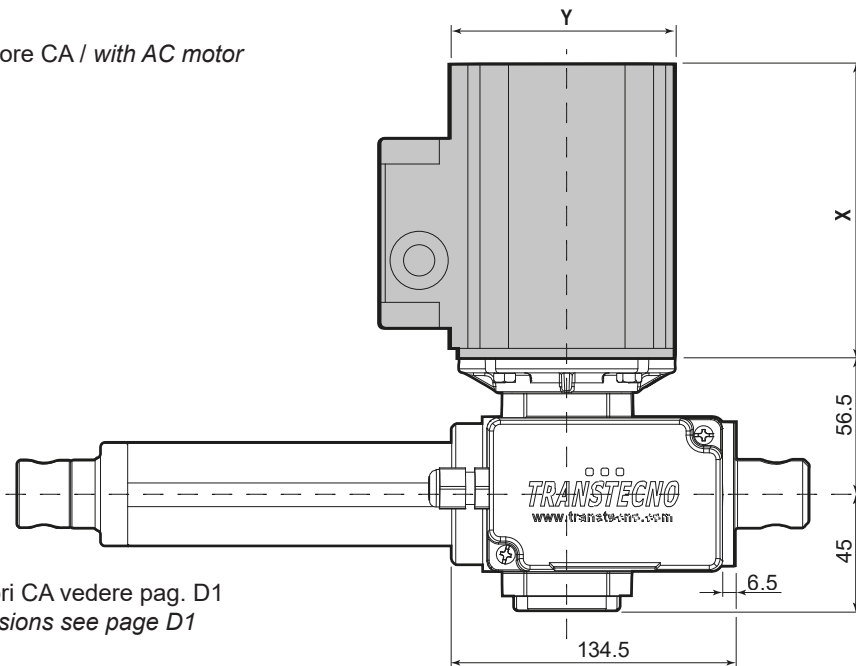
Dimensioni

Dimensions

AT12 albero maschio in ingresso / male input shaft

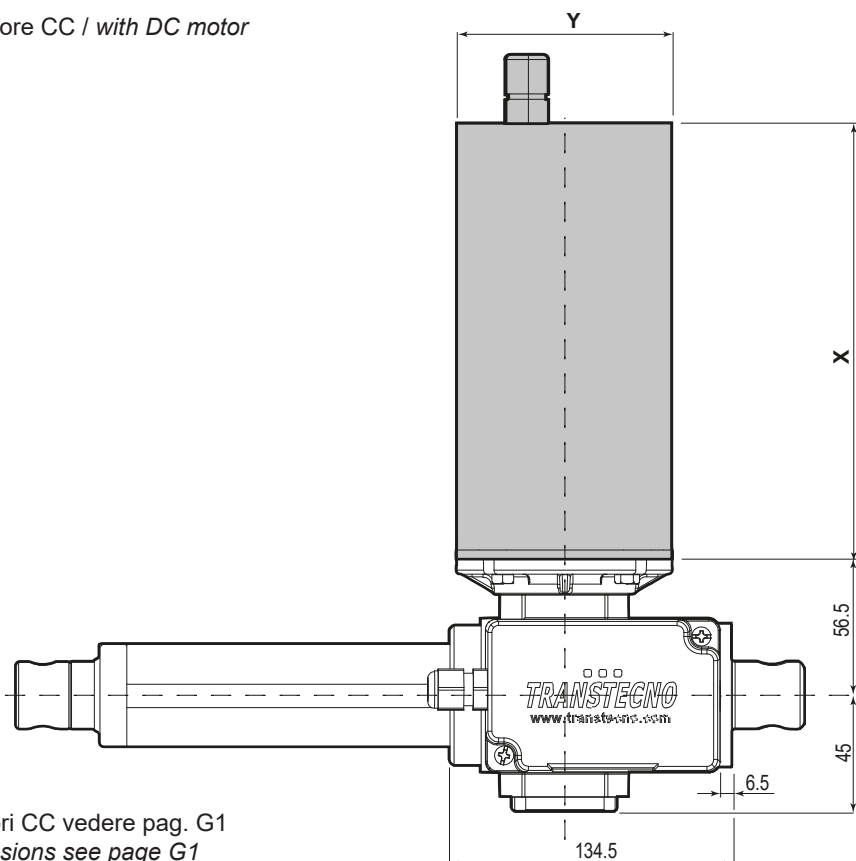


AT12 con motore CA / with AC motor



Per dimensioni motori CA vedere pag. D1
For AC motor dimensions see page D1

AT12 con motore CC / with DC motor



Per dimensioni motori CC vedere pag. G1
For DC motor dimensions see page G1

Dimensioni

Dimensions

AT18

senza finecorsa / *without limit switches*



BE

TE

RE

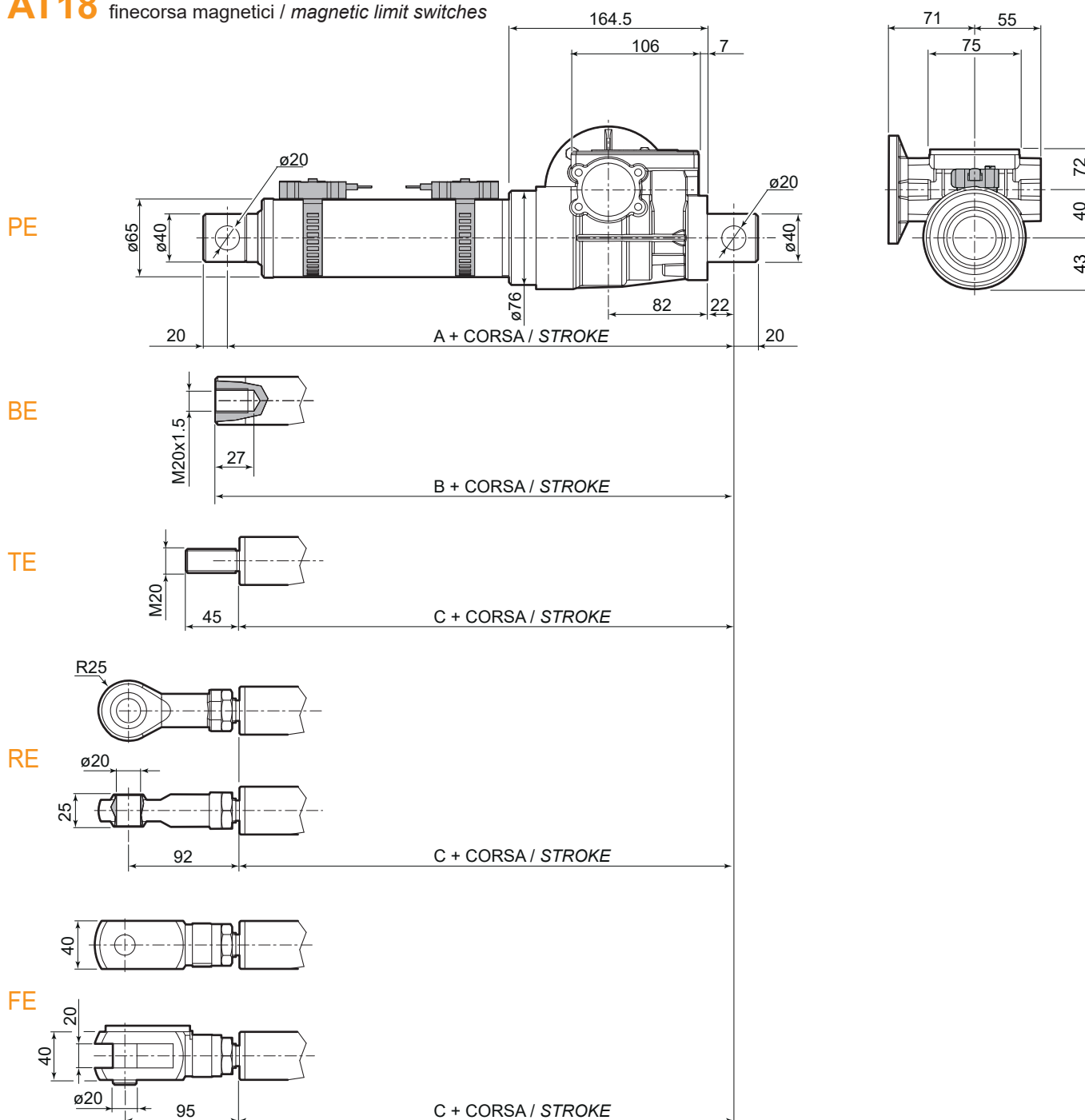
FE

Corsa / Stroke C [mm]
< 500
500 ÷ 700
> 700

Dimensioni

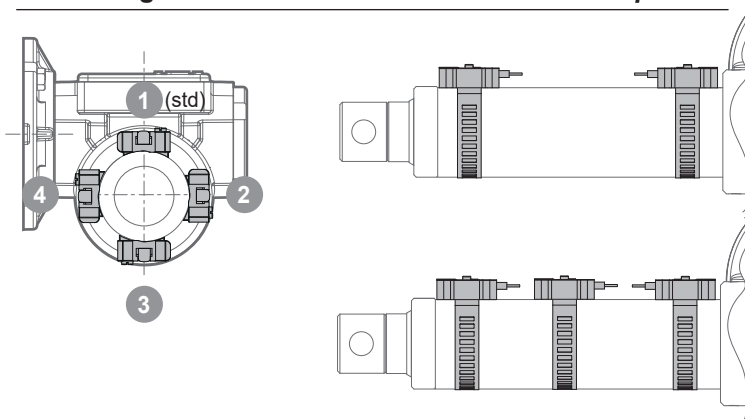
Dimensions

AT18 finecorsa magnetici / magnetic limit switches



Posizionamento fine corsa magnetici

Magnetic limit switches position

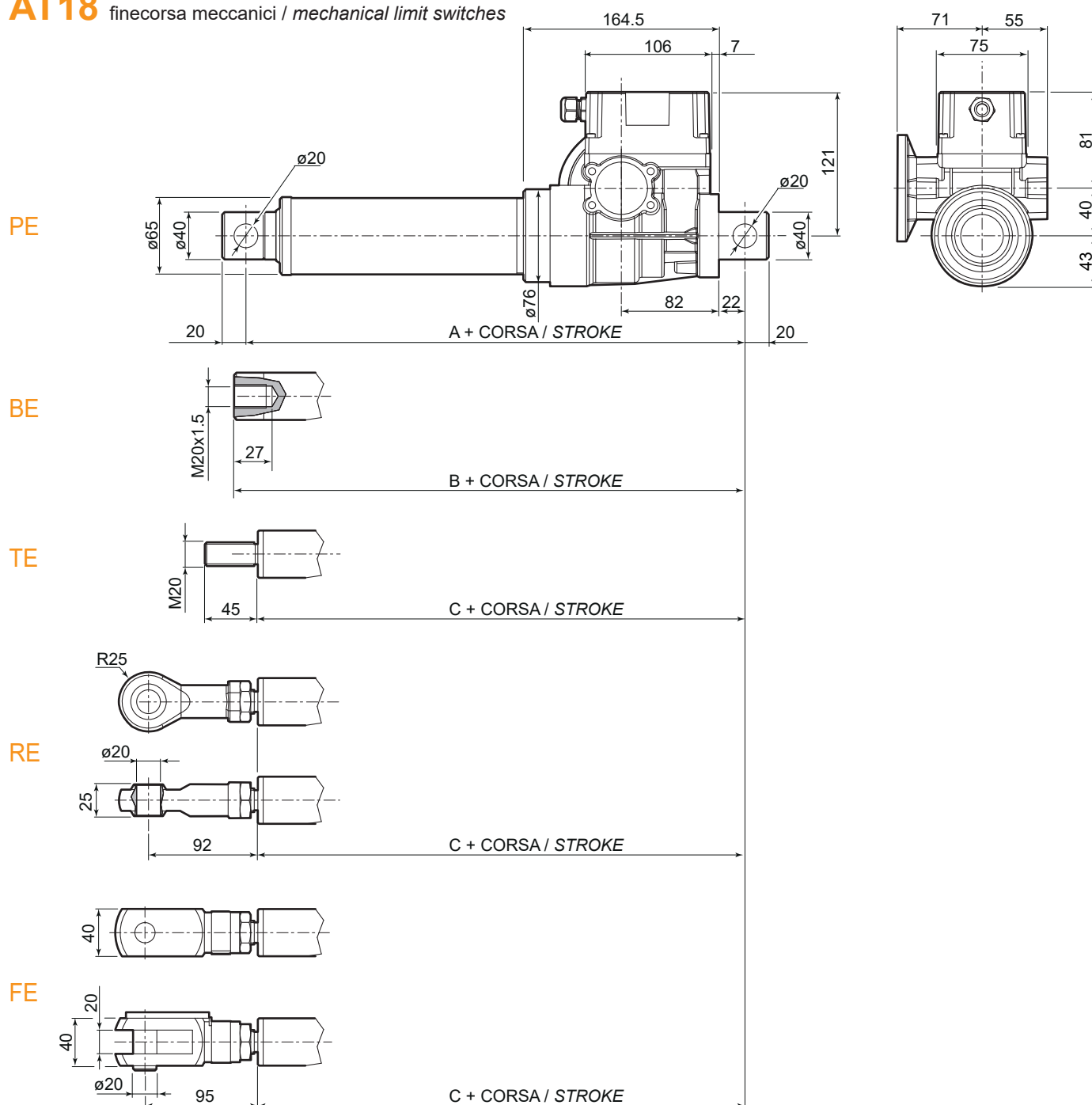


Corsa / Stroke C [mm]	AT18 con finecorsa magnetici with magnetic limit switches		
	Dimensioni / Dimensions		
	A	B	C
< 500	320	330	310
500 ÷ 700	335	345	325
> 700	420	430	410

Dimensioni

Dimensions

AT18 finecorsa meccanici / *mechanical limit switches*

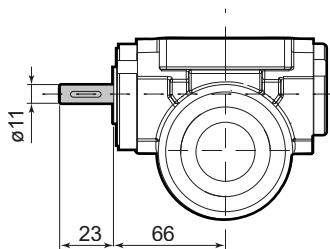


AT18 senza finecorsa without limit switches			
Dimensioni / Dimensions			
Corsa / Stroke C [mm]	A	B	C
< 500	270	280	260
500 ÷ 700	285	295	275
> 700	370	380	360

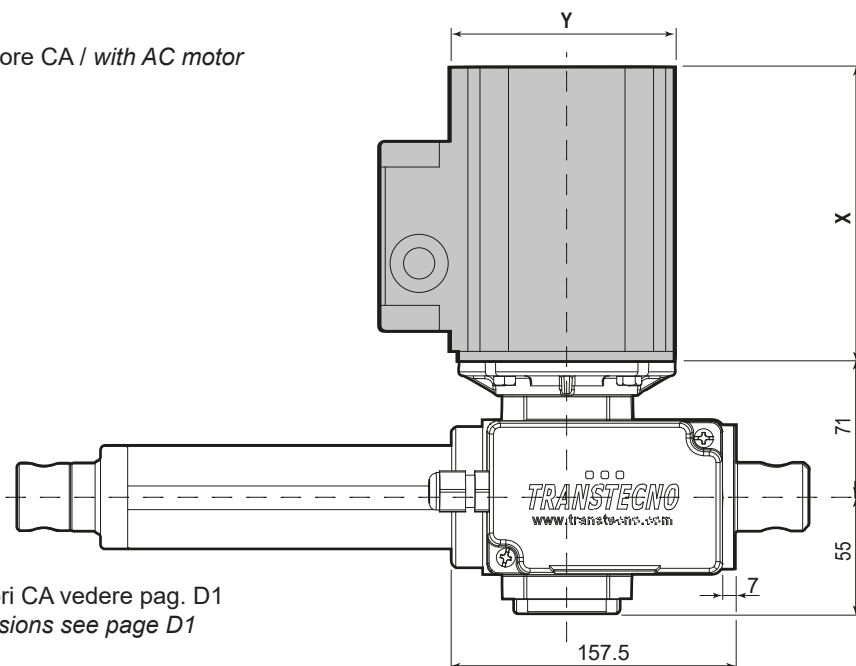
Dimensioni

Dimensions

AT18 albero maschio in ingresso / male input shaft

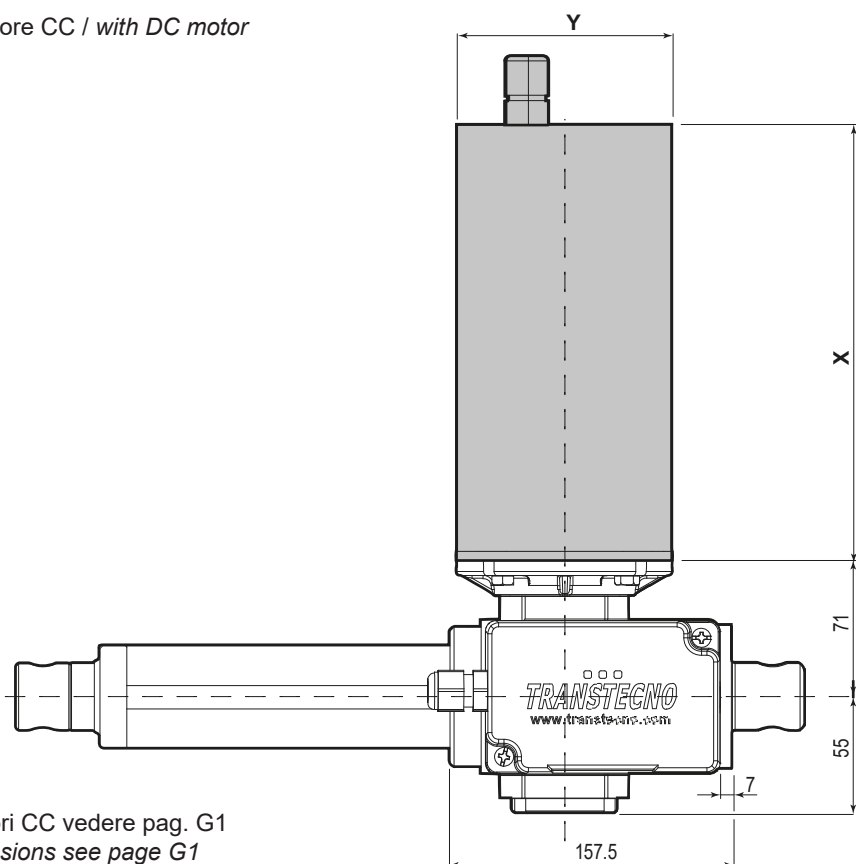


AT18 con motore CA / with AC motor



Per dimensioni motori CA vedere pag. D1
For AC motor dimensions see page D1

AT18 con motore CC / with DC motor



Per dimensioni motori CC vedere pag. G1
For DC motor dimensions see page G1

Note/Notes

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