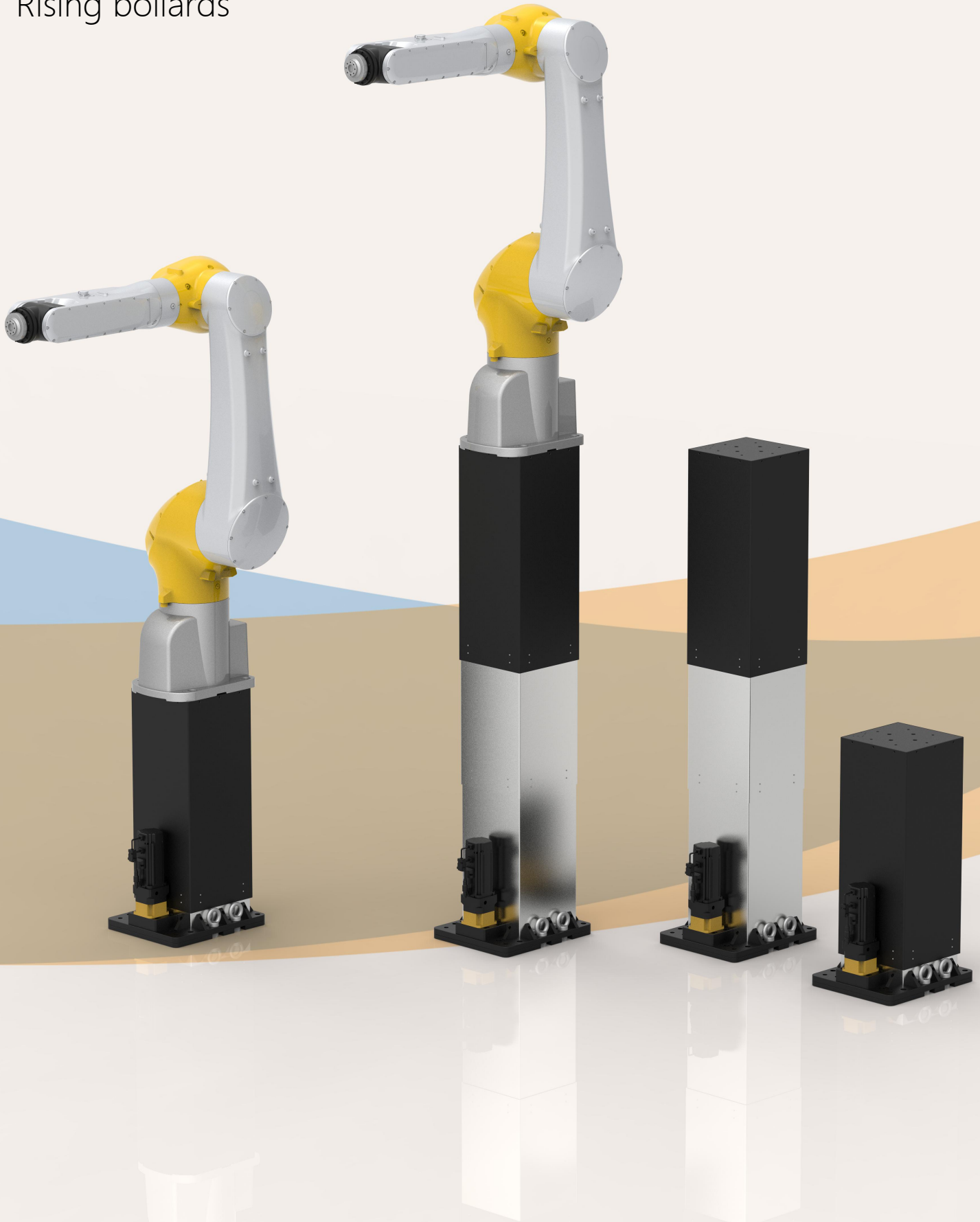


TG2/TG3

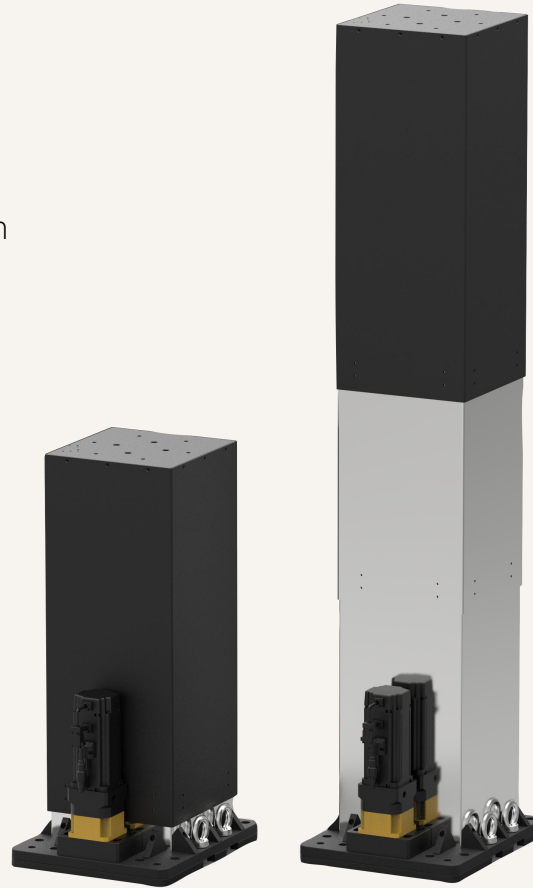
Series
Rising bollards



TG3

Series

The seventh axis of an industrial robot arm



Product Category

- 1、 Industrial applications
- 2、 Medical applications
- 3、 Furniture application

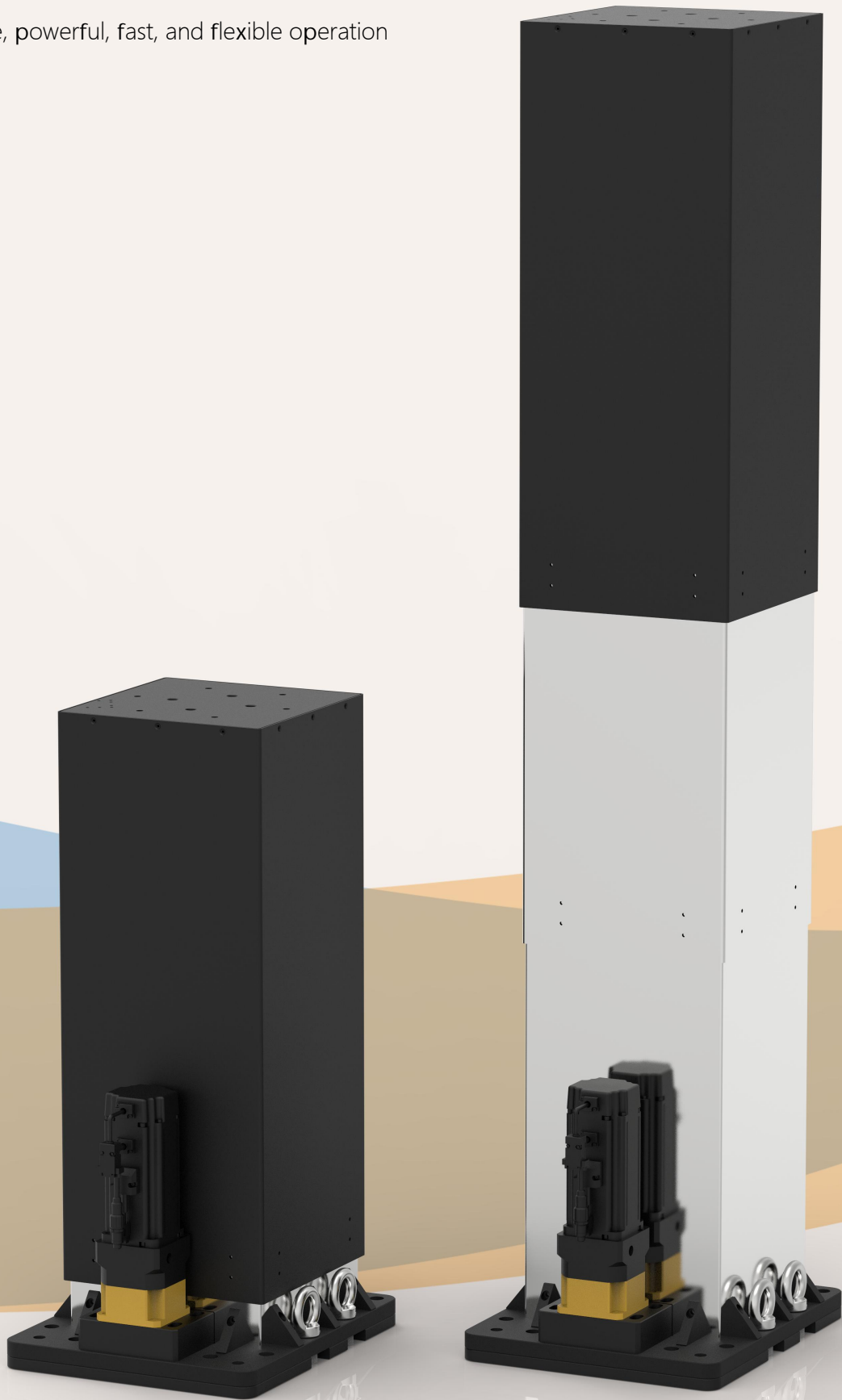
Function Overview

Voltage range:	48V DC or 220V or 380V AC
Maximum load:	15KN
Speed at full load:	0-200mm / s (load 15KN-5KN)
Itinerary range:	600 - 3000 MM
Retract to initial height:	stroke/2+ 350MM(stroke>2000 MM+400MM)
Dynamic lateral moment:	5500 Nm
Static lateral moment:	8000 Nm
Positioning repeatability accuracy:	±0.2~1 MM
Robot compatibility:	Any robot
Body weight:	0 stroke 460KG,@100MM stroke weight+25KG
Security Certification:	obey ISO9001-2008,
Operating temperature range:	-35 ° C ~ + 75 ° C
Integrity performance temperature range:	+5 ° C ~ + 45 ° C
Screw selection:	High-precision ball screw
Lead screw:	20MM or 40MM
Limit function:	Mechanical self-locking limit switches at upper and lower origins
Control options:	Soft start and stop - for smooth operation
Communication protocol:	EtherCAN/modbus rtu, (Customization)
Origin signal:	Built-in high and low limit signals (PNP)

The HTG series is designed specifically for industrial robotic arms, offering vertical lifting up to 3000 mm. With a compact retracted height, it features a robust column design suitable for industrial applications, vibration-free movement, and a plug-and-play solution requiring virtually no maintenance. It boasts a hardware interface compatible with any robot, CAN control via TCP/IP, cost savings, and increased productivity. Combined with the GeMin lifting system, collaborative robots provide a cost-effective solution for upgrading existing assembly lines, transitioning from manual operation to fully automated production lines.

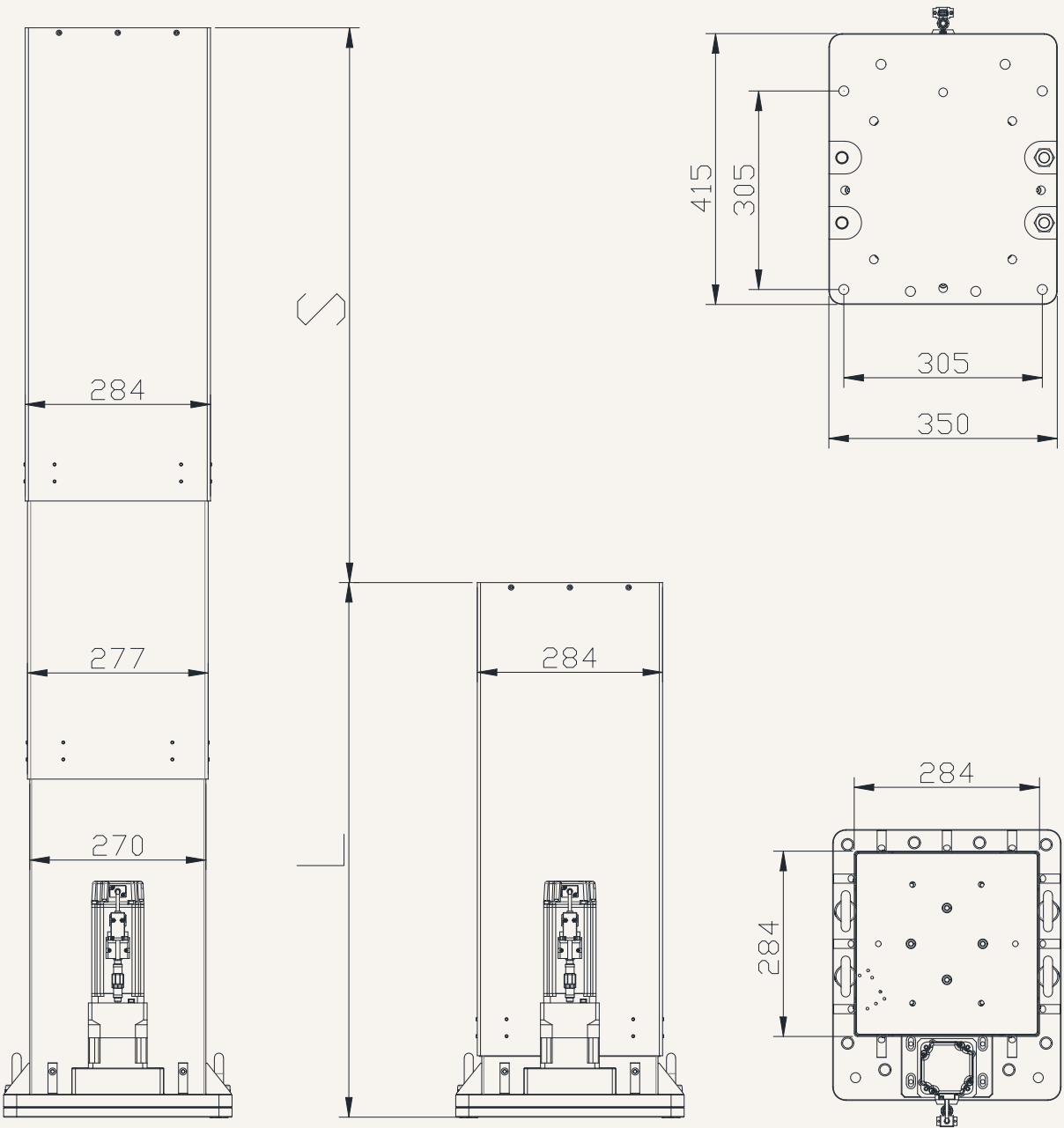
Application system of the seventh lifting axis of industrial robotic arm

Precise, powerful, fast, and flexible operation



External motor - Engineering

Standard dimensions (MM)

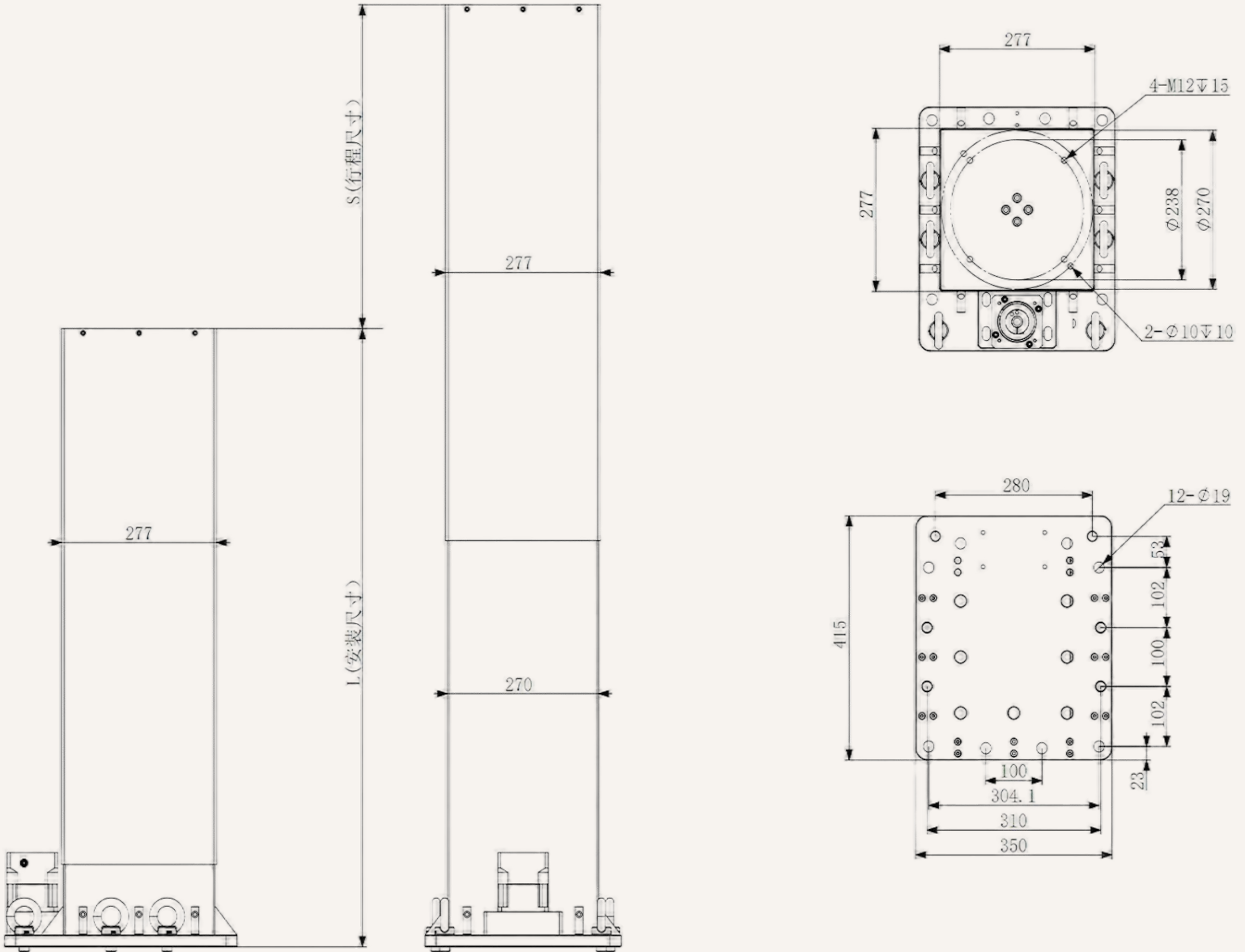


S: Stroke

L: Retracted length

$$L = \text{Stroke} / 2 + 350 \text{ MM}$$

Greater than 900mm stroke, installation dimensions $L = \text{Stroke} / 2 + 400 \text{ MM}$



S: Stroke

L: Retracted length

$L = \text{Stroke} + 350 \text{ MM}$

Greater than 900mm stroke, installation dimensions $L = \text{Stroke} + 400 \text{ MM}$

HTG3 Model Explanation Selection Code Table

TG	-	19	N	6F	-	24	A	***	***	-	O1	O1	0	1	T	N	N	30
①		②	③	④		⑤	⑥	⑦	⑧		⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
①	Model Prefix	TG2 = Two-stage		TG3 = Three-section														
②	Pipe diameter	28= 284X284 MM Pipes		27= 277X277 MM Pipes														
③	Motor placement	N = Built-in motor		W = External motor														
④	Motor type	S08= 80 flange 750 servo motor		S09= 80 flange 1000W servo motor		S10= 120 flange 1800W servo motor												
		S11= 120 flange 2500W servo motor																
		SK = Customization (customer provides the motor)																
⑤	Voltage	48= 48V DC		22= 220V AC		38= 380V AC												
⑥	Loading (n) @ Speed (mm/s)																	
⑦	stroke(mm)																	
⑧	Installation dimensions(mm)	Note: Please refer to the valid parameter table before selecting a size!																
⑨	Upper type	O1 = Standard panel, 8mm mounting holes		O2 = For standard pipe types, use M8 mounting screws with a 30mm countersunk setting.		K = Customization												
⑩	Lower type	O1 = Standard panel, 8mm mounting holes		O2 = For standard pipe types, use M8 mounting screws with a 30mm countersunk setting.		K = Customization												
⑪	Qualifying Position	0=upper plate top		1=upper side		2=lower side		3=Internal wiring panel										
		4=Side of the inner wiring		5=inner side of the line														
⑫	Type of qualification	1 =bare wire		2 = O1 Straight plug		4 =Four-pin straight insertion		6 = Six-pin straight insertion										
		7 =Waterproof plug		0=Servo standard drive cable		K=Customization												
⑬	Screw options	T = Trapezoidal Screw (Default preferred)		G=ball screw														
⑭	Control method	N= No control required		C = CAN communication control		T = Synchronization control												
		Y =Built-in controller with wired control		W=Built-in controller for wireless remote control		K= Customization												
⑮	Signal output options	N = 0		H =Hall sensor		D = potentiometer signal		U=Active signal										
		07 =Line length 0.7 M		10 = Line length 1.0 M		15 =Line length 1.5 M		20= Line length 2.0 M										
⑯	Line length	30 =Line length 3.0 M		40 =Line length 4.0M		50 =Line length 5.0 M		60= Line length 6.0M										
		70 =Line length 7.0 M		70 =Line length 8.0 M		90 =Line length 9.0 M		00 =Customization										