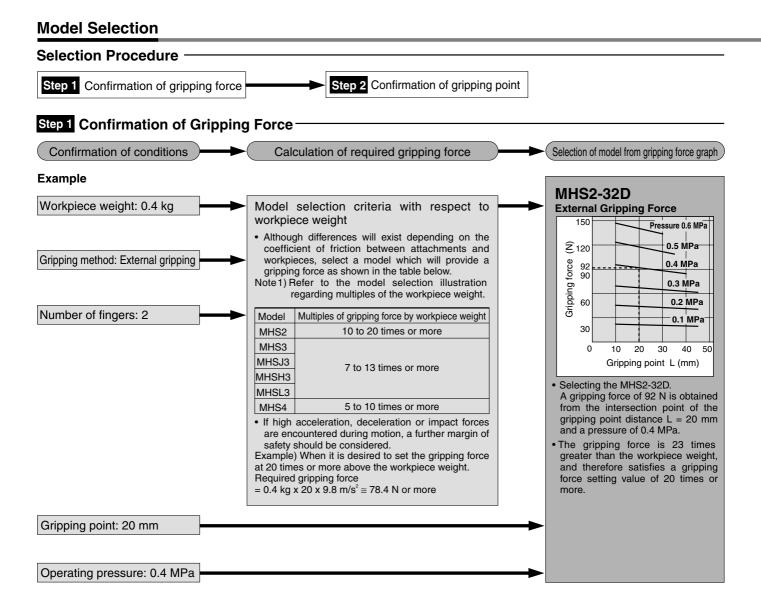
Series MHS Model Selection



Note) For Step 2, refer to the gripping point for the effective gripping force of each model.

3 Finger Parallel Style Air Gripper Through-hole Type Series MHSH3

Model/Specifications

Without center pusher

Center pusher/Cylinder type

Center pusher/Spring type







Air Gripper Specifications

Model		MHSH3-16D	MHSH3-20D	MHSH3-25D	MHSH3-32D	MHSH3-40D	MHSH3-50D	MHSH3-63D	MHSH3-80D	
Cylinder bore size (mm)		16	20	25	32	40	50	63	80	
Fluid		Air								
Operating pressure (MPa)		0.2 to 0.6			0.1 to 0.6					
Ambient and fluid temperature (°C)		-10 to 60								
Repeatability (mm)		±0.01								
Max. operating frequency (c.p.m.)		120			60				30	
Lubrication		Not reguired								
Action		Double acting								
Effective gripping force N ⁽¹⁾ at 0.5 MPa	External hold	9	21	36	62	97	155	280	400	
	Internal hold	15	26	45	77	118	187	329	490	
Through hole diameter (mm)		ø3H10 ^{+0.040}	ø3H10 ^{+0.040}	ø4H10 ^{+0.048}	ø6H10 ^{+0.048}	ø10H10 ^{+0.058}	ø12H10 +0.070	ø16H10 +0.070	ø20H10 +0.084	
Opening/Closing stroke (dia.) (mm)		4	4	6	8	8	12	16	20	
Weight (g)		90	140	220	410	570	970	1,650	2,920	

Note 1) Values for ø16 to ø25 are with gripping point L = 20 mm, for ø32 to ø63 with gripping point L = 30 mm, and for ø80 with gripping point L = 50 mm. Refer to "Effective Gripping Force" data on pages 12-7-34 through 12-7-36 for the gripping force at each gripping position.

Center Pusher (Cylinder type) Specifications

Model		MHSH3-32DA	MHSH3-40DA	MHSH3-50DA	MHSH3-63DA	MHSH3-80DA		
Pusher cylinder bore size (mm)		12	20 25		32	40		
Fluid		Air						
Operating pressure (MPa)		0.2 to 0.6 0.1 to 0.6						
Ambient and fluid temperature (°C)		-10 to 60						
Pusher maximum operating frequency (c.p.m.)			30					
Lubrication		Not required						
Action		Double acting						
Pusher stroke (mm)		5	5	10	10	15		
Pusher thrust (N) at 0.5 MPa	Extention	45	130	204	335	524		
Weight (g)		530	770	1,330	2,300	4,000		

Center Pusher (Spring type) Specifications

Model	MHSH3-32DB	MHSH3-40DB	MHSH3-50DB	MHSH3-63DB	MHSH3-80DB
Pusher stroke (mm)	5	5	10	10	15
Pusher spring force (N)	6 to 10	11 to 15	20 to 25	29 to 34	49 to 59
Weight (g)	500	740	1,290	2,250	4,000

Weight

	ø32	ø40	ø50	ø63	ø80
Through-hole with dust cover MHSHJ3- □ D	430	600	1,020	1,710	3,040
Center pusher (cylinder type) with dust cover MHSHJ3-□DA	550	800	1,380	2.360	4,120
Center pusher (spring type) with dust cover MHSHJ3-□DB	520	770	1,340	2.310	4.120

SMC

MHZ

MHF

MHL MHR

МПЛ

MHK

MHS

МПЭ

MHC

MHY

MHW

MRHQ

Misc. D-

20-