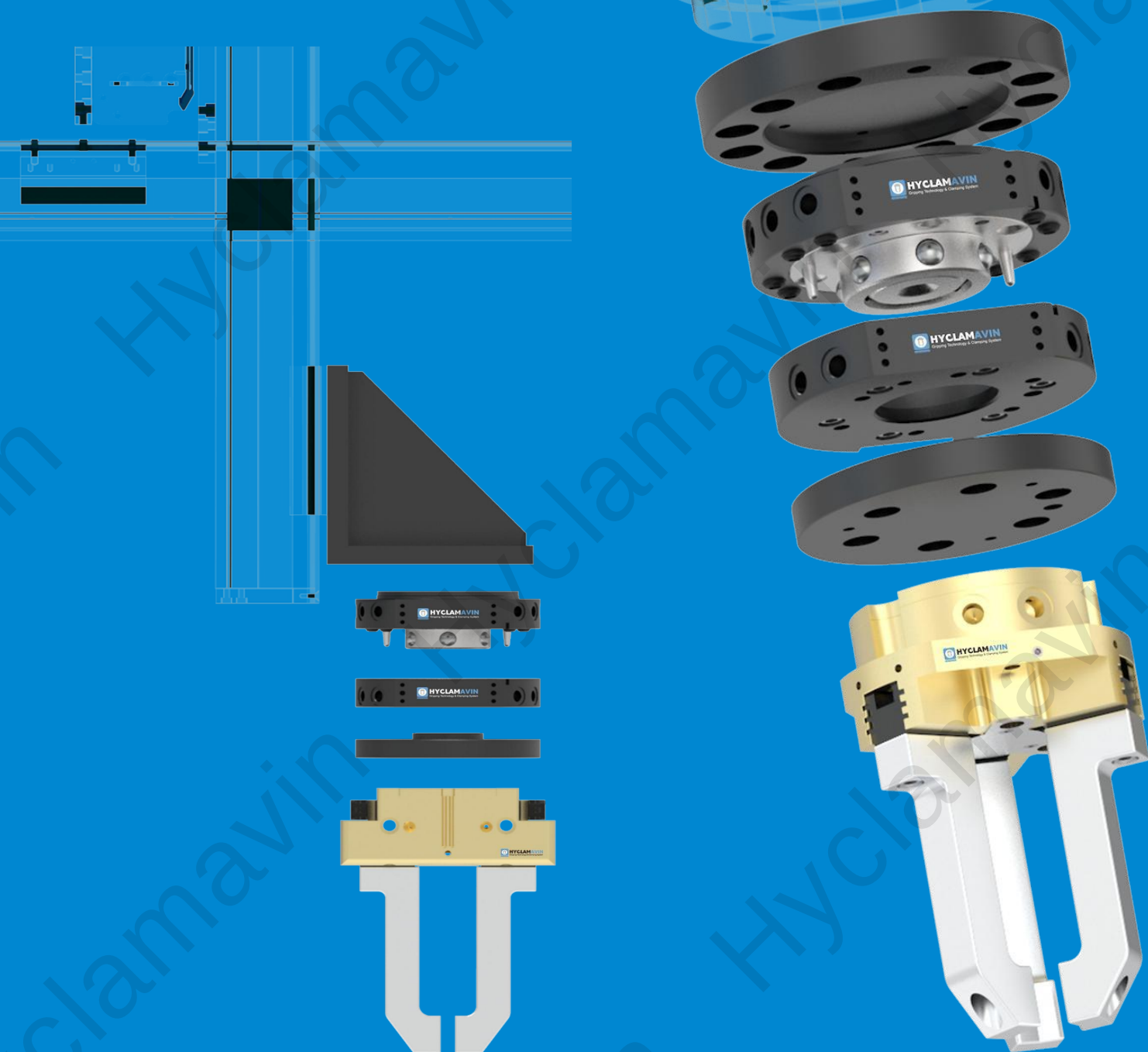


Full range of products

Selection manual



Reliable

可靠

Robust

强健

Revolutionary

创新

1

Pneumatic gripper

1

2-finger parallel gripper

TWN-P/multi-tooth guidance

2



TWN/multi-tooth guidance

10



TWT-P/T-slot guidance

18



TWT/T-slot guidance

24



TSC/economical

30



TWL/long stroke

34



TPL/long stroke

37



TPG/multi-tooth guidance/IP67

40

3-finger centering gripper

THN/multi-tooth guidance

46



THT/T-slot guidance

54

Catalog

Hyclamavin full range of products



THB/multi-tooth/hollow through

60

2-finger angular gripper



TAG/angular gripper

65

2

Quick-Change Tool Changers

69



SQC-A/Pneumatic locking

70



SQC-B/Spring locking

75



SEM/electrical modules

78

3

Non standard customization

81



According to customer needs, Customize all kinds of non-standard products

82



TWN-P

2-finger parallel motion/
multi-tooth guidance



TWN

2-finger parallel motion/
multi-tooth guidance



TWT-P

2-finger parallel motion/
T-slot guidance



TWT

2-finger parallel motion/
T-slot guidance



TSC

2-finger parallel motion/
economical



TWL

2-finger parallel motion/
long stroke



TPL

2-finger parallel motion/
long stroke



THN

3-finger centering/
multi-tooth guidance



THT

3-finger centering/
T-slot guidance



THB

3-finger centering/
multi-tooth/hollow through



TAG

2-finger angular gripper

Pneumatic gripper/TWN-P

2-finger parallel motion/multi-tooth guidance

TWN—P — 40A — 1/2 — AS/IS — SD — HT

Optional : High-temperature

Optional : Dust-tight /IP64

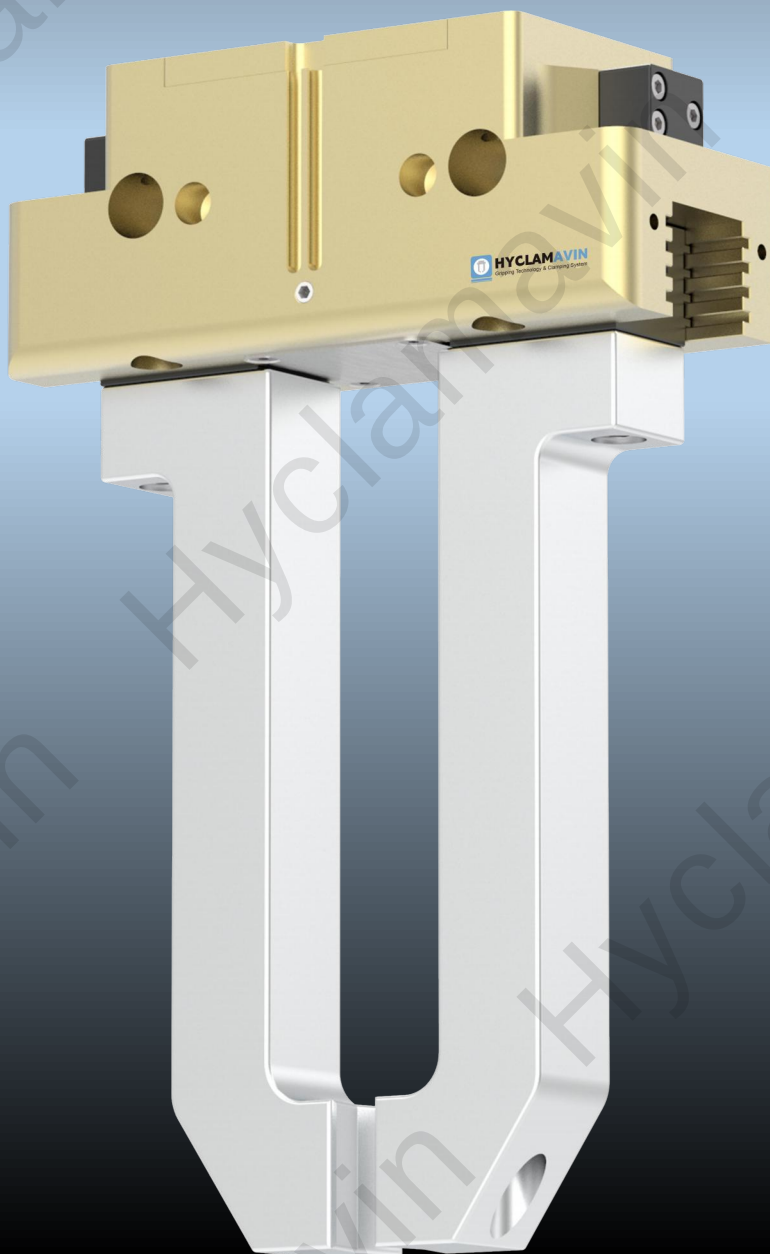
Optional: AS: closing maintenance
IS: opening maintenance

Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load

Model : 40A—380A

Enhanced

Serial number : 2-finger parallel motion/multi-tooth guidance



40A

50A

64A

80A

100A

125A

110A

160A

200A

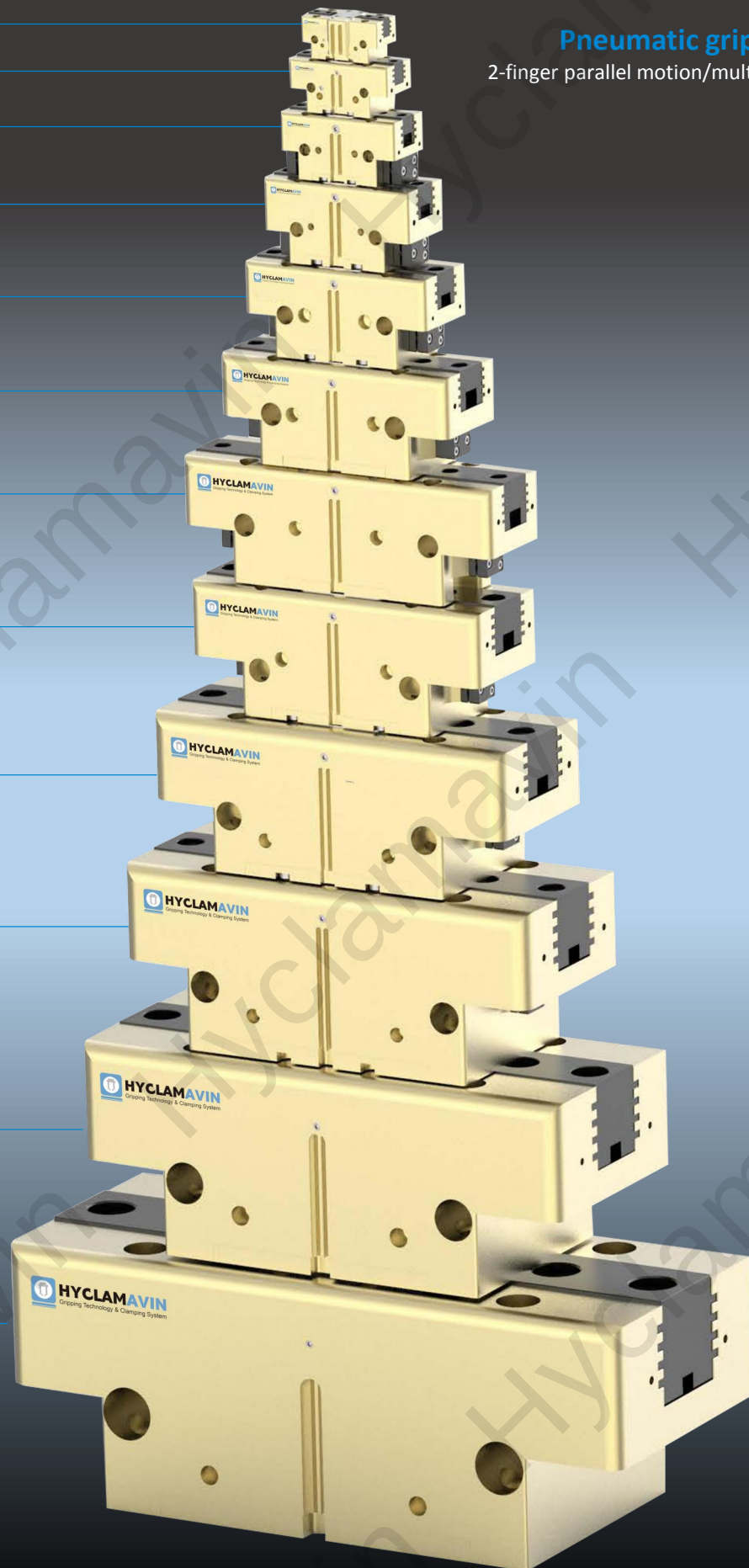
240A

300A

380A

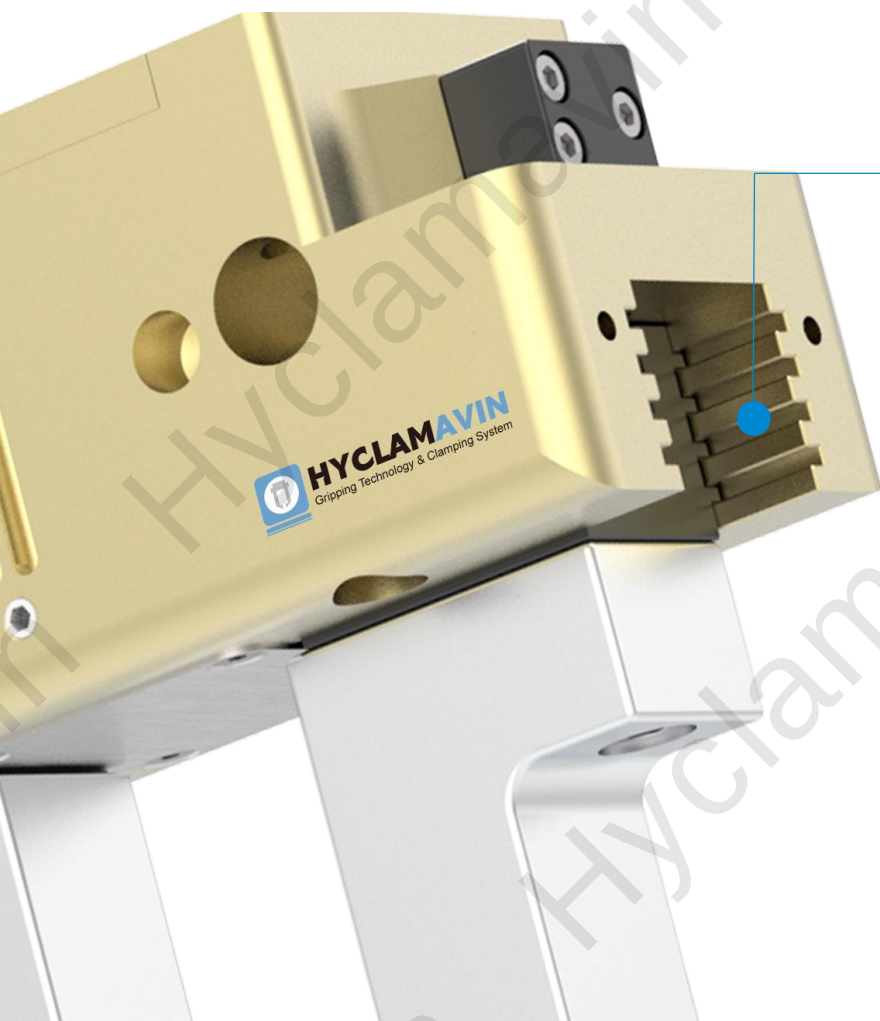
Pneumatic gripper/TWN-P

2-finger parallel motion/multi-tooth guidance



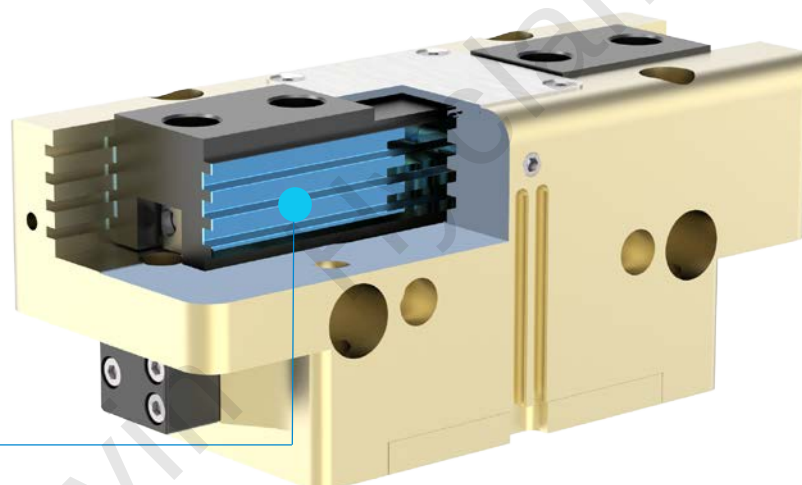
Excellent performance

- The TWN-P grippers adopt high precision, permanent lubrication, multi-tooth and straight groove guidance.



multi-tooth and
straight groove

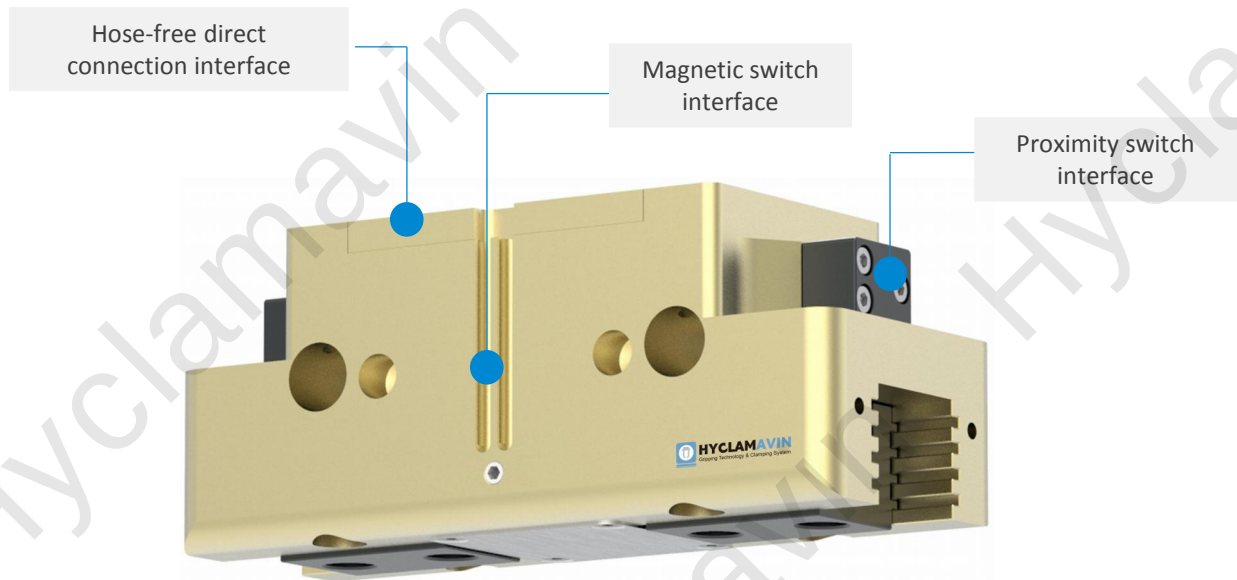
- ◆ Compact structure can be used for short stroke and heavy load
- ◆ The load is distributed to more surfaces to reduce the contact stress
- ◆ Grease can be distributed more quickly and evenly
- ◆ It can ensure enough motion rigidity and accuracy for a long time
- ◆ The oil storage structure in the multi tooth guide extends the service life
- ◆ Maximum finger length can be increased by 50%



The oil storage groove for
permanent lubrication

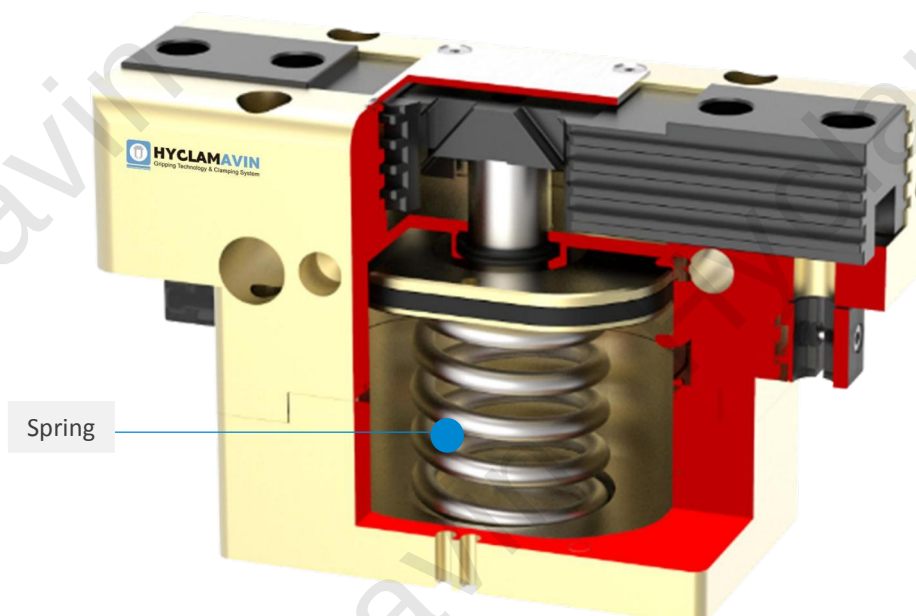
Excellent performance

- The TWN-P grippers have a variety of sensor interfaces and pneumatic interfaces.



Gripping force maintenance-AS/IS

- The TWN-P grippers can be equipped with gripping force maintenance, expanded to TWN-P-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.



Pneumatic gripper/TWN-P

2-finger parallel motion/multi-tooth guidance

Dust-tight version

- The TWN-P grippers can be equipped with dust-tight version, expanded to TWN-P-SD, and reach IP64.



High-temperature version

- The TWN-P grippers can be equipped with high temperature version, expanded to TWN-P-HT, the temperature tolerance range is increased from 5/90°C of the basic version to 5/130°C.

Model and technical parameters

➤ Technical parameters

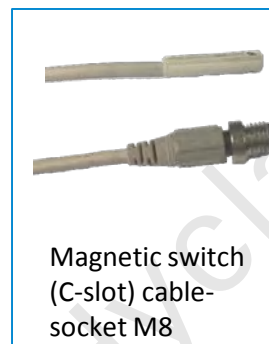
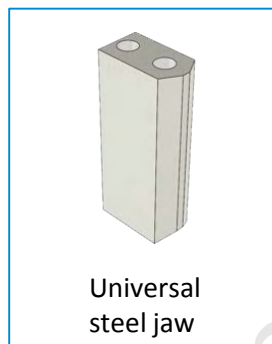
Model	Stroke per jaw [mm]	Closing/opening force[N]	Min. spring force[N]	Weight [kg]	Recommended workpiece weight[kg]	Closing/opening time[s]	Repeat accuracy [mm]	Protection class IP
TWN-P-40A-1	2.5	198/210		0.08	0.99	0.02/0.02	0.01	40/64
TWN-P-40A-1-AS	2.5	258/-	60	0.1	0.99	0.02/0.03	0.01	40/64
TWN-P-40A-1-IS	2.5	-/280	70	0.1	0.99	0.03/0.02	0.01	40/64
TWN-P-50A-1	4	240/255		0.16	1.2	0.02/0.02	0.01	40/64
TWN-P-50A-1-AS	4	330/-	90	0.2	1.2	0.02/0.03	0.01	40/64
TWN-P-50A-1-IS	4	-/345	90	0.2	1.2	0.03/0.02	0.01	40/64
TWN-P-50A-2	2	430/460		0.16	2.15	0.02/0.02	0.01	40/64
TWN-P-50A-2-AS	2	550/-	120	0.2	2.15	0.02/0.03	0.01	40/64
TWN-P-50A-2-IS	2	-/580	120	0.2	2.15	0.03/0.02	0.01	40/64
TWN-P-64A-1	6	360/388		0.26	1.8	0.02/0.02	0.01	40/64
TWN-P-64A-1-AS	6	515/-	155	0.36	1.8	0.02/0.04	0.01	40/64
TWN-P-64A-1-IS	6	-/543	155	0.36	1.8	0.04/0.02	0.01	40/64
TWN-P-64A-2	3	730/785		0.26	3.65	0.02/0.02	0.01	40/64
TWN-P-64A-2-AS	3	1040/-	310	0.36	3.65	0.02/0.04	0.01	40/64
TWN-P-64A-2-IS	3	-/1095	310	0.36	3.65	0.04/0.02	0.01	40/64
TWN-P-80A-1	8	565/630		0.52	2.82	0.04/0.04	0.01	40/64
TWN-P-80A-1-AS	8	805/-	240	0.6	2.82	0.03/0.05	0.01	40/64
TWN-P-80A-1-IS	8	-/870	240	0.6	2.82	0.05/0.03	0.01	40/64
TWN-P-80A-2	4	1145/1275		0.52	5.72	0.04/0.04	0.01	40/64
TWN-P-80A-2-AS	4	1535/-	390	0.6	5.72	0.03/0.05	0.01	40/64
TWN-P-80A-2-IS	4	-/1665	390	0.6	5.72	0.05/0.03	0.01	40/64
TWN-P-100A-1	10	930/995		0.9	4.65	0.07/0.07	0.01	40/64
TWN-P-100A-1-AS	10	1300/-	370	1.1	4.65	0.05/0.09	0.01	40/64
TWN-P-100A-1-IS	10	-/1345	350	1.1	4.65	0.09/0.05	0.01	40/64
TWN-P-100A-2	5	1860/2000		0.9	9.3	0.07/0.07	0.01	40/64
TWN-P-100A-2-AS	5	2400/-	540	1.1	9.3	0.05/0.09	0.01	40/64
TWN-P-100A-2-IS	5	-/2700	700	1.1	9.3	0.09/0.05	0.01	40/64
TWN-P-110A-1	20	1230/1330		2.2	6.15	0.15/0.15	0.01	40/64
TWN-P-125A-1	13	1475/1590		1.4	7.37	0.10/0.10	0.01	40/64
TWN-P-125A-1-AS	13	2125/-	650	1.9	7.37	0.08/0.12	0.01	40/64
TWN-P-125A-1-IS	13	-/2240	650	1.9	7.37	0.12/0.08	0.01	40/64
TWN-P-125A-2	6	2990/3220		1.4	14.95	0.10/0.10	0.01	40/64
TWN-P-125A-2-AS	6	4190/-	1200	1.9	14.95	0.08/0.12	0.01	40/64
TWN-P-125A-2-IS	6	-/4420	1200	1.9	14.95	0.12/0.08	0.01	40/64

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force[N]	Min. spring force[N]	Weight [kg]	Recommended workpiece weight[kg]	Closing/opening time[s]	Repeat accuracy [mm]	Protection class IP
TWN-P-160A-1	16	2600/2715		3	13	0.10/0.10	0.01	40/64
TWN-P-160A-1-AS	16	3550/-	900	3.8	13	0.10/0.20	0.01	40/64
TWN-P-160A-1-IS	16	-/3615	900	3.8	13	0.20/0.10	0.01	40/64
TWN-P-160A-2	8	5270/5500		3	26.35	0.10/0.10	0.01	40/64
TWN-P-160A-2-AS	8	6770/-	1500	3.8	26.35	0.10/0.20	0.01	40/64
TWN-P-160A-2-IS	8	-/7000	1500	3.8	26.35	0.20/0.10	0.01	40/64
TWN-P-200A-1	25	4300/4500		5.5	21.5	0.30/0.30	0.02	40/64
TWN-P-200A-1-AS	25	5600/-	1300	7	21.5	0.30/0.60	0.02	40/64
TWN-P-200A-1-IS	25	-/6000	1500	7	21.5	0.60/0.30	0.02	40/64
TWN-P-200A-2	14	7700/8100		5.5	38.5	0.30/0.30	0.02	40/64
TWN-P-200A-2-AS	14	10200/-	2500	7	38.5	0.30/0.60	0.02	40/64
TWN-P-200A-2-IS	14	-/10900	2800	7	38.5	0.60/0.30	0.02	40/64
TWN-P-240A-1	30	5450/5680		8.7	27.25	0.50/0.50	0.04	40/64
TWN-P-240A-1-AS	30	8200/-	2750	11.8	27.25	0.45/0.90	0.04	40/64
TWN-P-240A-1-IS	30	-/8430	2750	11.8	27.25	0.90/0.45	0.04	40/64
TWN-P-240A-2	17	9440/9850		8.9	47.2	0.50/0.50	0.04	40/64
TWN-P-240A-2-AS	17	14590/-	5150	12	47.2	0.45/0.90	0.04	40/64
TWN-P-240A-2-IS	17	-/15000	5150	12	47.2	0.90/0.45	0.04	40/64
TWN-P-300A-1	35	6850/7190		13.6	34.25	0.50/0.50	0.05	40/64
TWN-P-300A-1-AS	35	8600/-	1750	17.3	34.25	0.40/0.70	0.05	40/64
TWN-P-300A-1-IS	35	-/8940	1750	17.3	34.25	0.70/0.40	0.05	40/64
TWN-P-300A-2	20	11870/12460		13.6	59.35	0.50/0.50	0.05	40/64
TWN-P-300A-2-AS	20	15870/-	4000	17.3	59.35	0.40/0.70	0.05	40/64
TWN-P-300A-2-IS	20	-/16460	4000	17.3	59.35	0.70/0.40	0.05	40/64
TWN-P-380A-1	45	10700/11100		27	53.5	0.60/0.60	0.05	40/64
TWN-P-380A-1-AS	45	14300/-	3600	37	53.5	0.50/0.80	0.05	40/64
TWN-P-380A-1-IS	45	-/14800	3700	37	53.5	0.80/0.50	0.05	40/64
TWN-P-380A-2	26	20500/21300		27	102.5	0.60/0.60	0.05	40/64
TWN-P-380A-2-AS	26	27400/-	6900	37	102.5	0.50/0.80	0.05	40/64
TWN-P-380A-2-IS	26	-/28300	7000	37	102.5	0.80/0.50	0.05	40/64

Recommended accessories



Pneumatic gripper/TWN

2-finger parallel motion/multi-tooth guidance

TWN — 40A — 1/2 — AS/IS — SD — HT

Optional : High-temperature

Optional : Dust-tight /IP64

Optional: AS: closing maintenance
IS: opening maintenance

Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load

Model : 40A—380A

Serial number : 2-finger parallel motion/multi-tooth guidance



40A

50A

64A

80A

100A

125A

110A

160A

200A

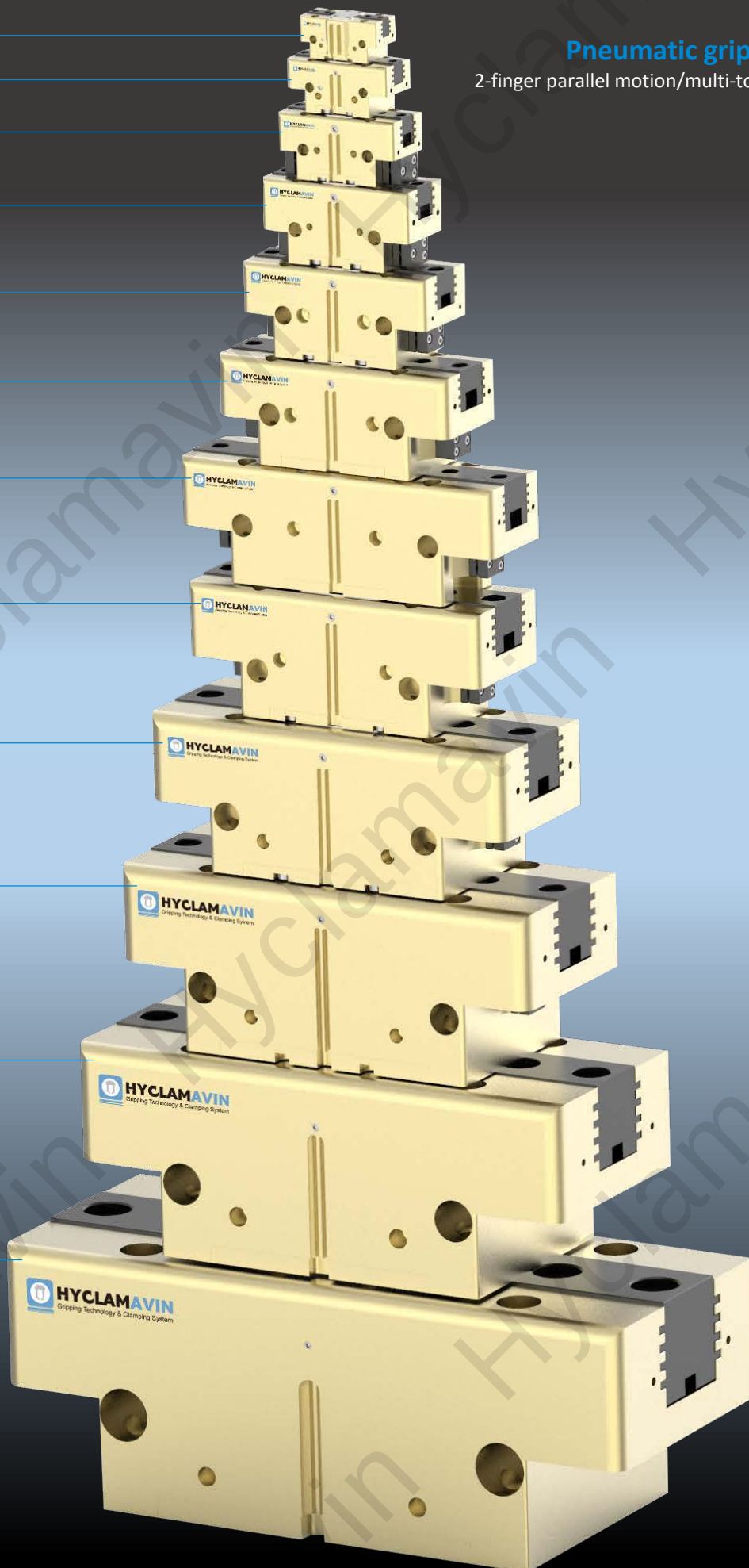
240A

300A

380A

Pneumatic gripper/TWN

2-finger parallel motion/multi-tooth guidance



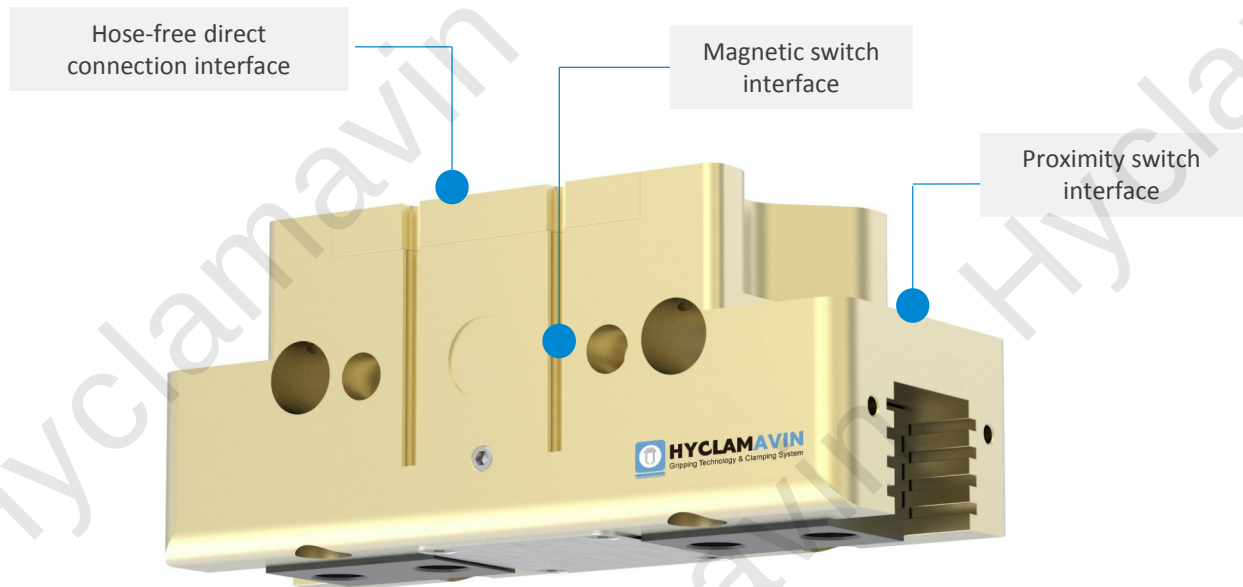
Excellent performance

- The TWN grippers adopt high precision, permanent lubrication, multi-tooth and straight groove guidance.



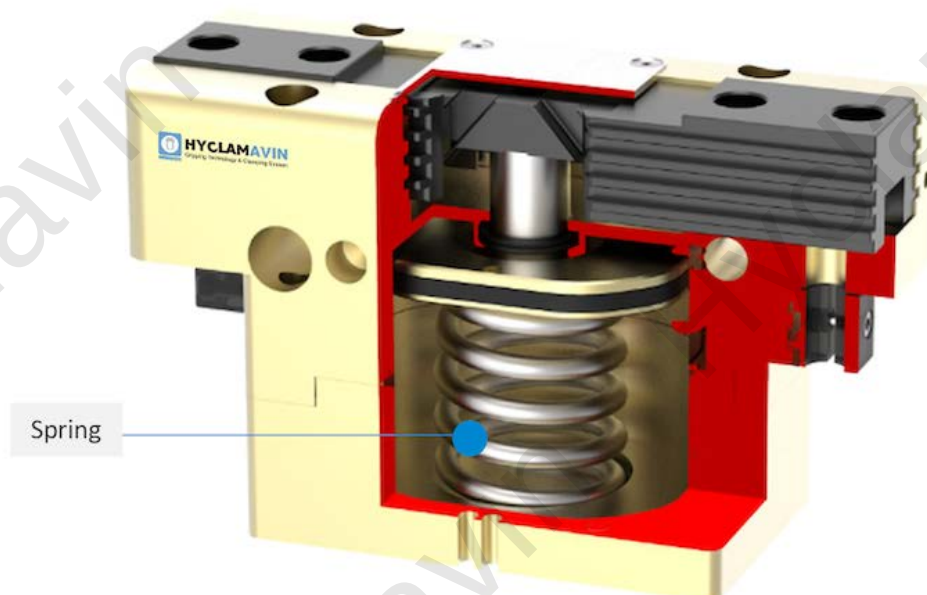
Excellent performance

- The TWN grippers have a variety of sensor interfaces and pneumatic interfaces.



Gripping force maintenance-AS/IS

- The TWN grippers can be equipped with gripping force maintenance, expanded to TWN-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.



Pneumatic gripper/TWN

2-finger parallel motion/multi-tooth guidance

Dust-tight version

- The TWN grippers can be equipped with dust-tight version, expanded to TWN-SD, and reach IP64.



High-temperature version

- The TWN grippers can be equipped with high temperature version, expanded to TWN-HT, the temperature tolerance range is increased from 5/90°C of the basic version to 5/130°C.

Model and technical parameters

► Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TWN-40A-1	2.5	130/140		0.08	0.65	0.02/0.02	0.01	40/64
TWN-40A-1-AS	2.5	170/-	40	0.1	0.65	0.02/0.03	0.01	40/64
TWN-40A-1-IS	2.5	-/190	50	0.1	0.65	0.03/0.02	0.01	40/64
TWN-50A-1	4	160/180		0.15	0.8	0.02/0.02	0.01	40/64
TWN-50A-1-AS	4	205/-	45	0.21	0.8	0.02/0.03	0.01	40/64
TWN-50A-1-IS	4	-/225	45	0.21	0.8	0.03/0.02	0.01	40/64
TWN-50A-2	2	330/370		0.15	1.65	0.02/0.02	0.01	40/64
TWN-50A-2-AS	2	425/-	95	0.21	1.65	0.02/0.03	0.01	40/64
TWN-50A-2-IS	2	-/465	95	0.21	1.65	0.03/0.02	0.01	40/64
TWN-64A-1	6	270/300		0.27	1.35	0.03/0.03	0.01	40/64
TWN-64A-1-AS	6	360/-	90	0.37	1.35	0.02/0.04	0.01	40/64
TWN-64A-1-IS	6	-/390	90	0.37	1.35	0.04/0.02	0.01	40/64
TWN-64A-2	3	560/620		0.27	2.8	0.03/0.03	0.01	40/64
TWN-64A-2-AS	3	750/-	190	0.37	2.8	0.02/0.04	0.01	40/64
TWN-64A-2-IS	3	-/810	190	0.37	2.8	0.04/0.02	0.01	40/64
TWN-80A-1	8	360/430		0.5	1.8	0.04/0.04	0.01	40/64
TWN-80A-1-AS	8	515/-	155	0.6	1.8	0.03/0.05	0.01	40/64
TWN-80A-1-IS	8	-/585	155	0.6	1.8	0.05/0.03	0.01	40/64
TWN-80A-2	4	745/890		0.5	3.72	0.04/0.04	0.01	40/64
TWN-80A-2-AS	4	1065/-	320	0.6	3.72	0.03/0.05	0.01	40/64
TWN-80A-2-IS	4	-/1210	320	0.6	3.72	0.05/0.03	0.01	40/64
TWN-100A-1	10	690/750		0.81	3.45	0.07/0.07	0.01	40/64
TWN-100A-1-AS	10	930/-	240	1	3.45	0.05/0.09	0.01	40/64
TWN-100A-1-IS	10	-/990	240	1	3.45	0.09/0.05	0.01	40/64
TWN-100A-2	5	1430/1550		0.81	7.15	0.07/0.07	0.01	40/64
TWN-100A-2-AS	5	1930/-	500	1	7.15	0.05/0.09	0.01	40/64
TWN-100A-2-IS	5	-/2050	500	1	7.15	0.09/0.05	0.01	40/64
TWN-110A-1	20	1050/1150		2.1	5.25	0.15/0.15	0.01	40/64
TWN-125A-1	13	1250/1400		1.24	6.25	0.10/0.10	0.01	40/64
TWN-125A-1-AS	13	1640/-	390	1.85	6.25	0.08/0.12	0.01	40/64
TWN-125A-1-IS	13	-/1790	390	1.85	6.25	0.12/0.08	0.01	40/64
TWN-125A-2	6	2590/2900		1.24	12.95	0.10/0.10	0.01	40/64
TWN-125A-2-AS	6	3390/-	800	1.85	12.95	0.08/0.12	0.01	40/64
TWN-125A-2-IS	6	-/3700	800	1.85	12.95	0.12/0.08	0.01	40/64

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TWN-160A-1	16	1710/1820		2.6	8.55	0.15/0.15	0.01	40/64
TWN-160A-1-AS	16	2280/-	570	3.6	8.55	0.12/0.25	0.01	40/64
TWN-160A-1-IS	16	-/2390	570	3.6	8.55	0.25/0.12	0.01	40/64
TWN-160A-2	8	3550/3780		2.6	17.75	0.15/0.15	0.01	40/64
TWN-160A-2-AS	8	4770/-	1220	3.6	17.75	0.12/0.25	0.01	40/64
TWN-160A-2-IS	8	-/5000	1220	3.6	17.75	0.25/0.12	0.01	40/64
TWN-200A-1	25	2810/2980		5	14	0.35/0.35	0.02	40/64
TWN-200A-1-AS	25	3720/-	910	7.5	14	0.30/0.60	0.02	40/64
TWN-200A-1-IS	25	-/3890	910	7.5	14	0.60/0.30	0.02	40/64
TWN-200A-2	14	5700/6000		5	28.5	0.35/0.35	0.02	40/64
TWN-200A-2-AS	14	7300/-	1600	7.5	28.5	0.30/0.60	0.02	40/64
TWN-200A-2-IS	14	-/7700	1600	7.5	28.5	0.60/0.30	0.02	40/64
TWN-220A-1	16	3700/4000		3.9	18.5	0.16/0.16	0.02	40/64
TWN-240A-1	30	4500/4750		7.7	22.5	0.45/0.45	0.04	40/64
TWN-240A-1-AS	30	5600/-	1100	11.8	22.5	0.35/0.65	0.04	40/64
TWN-240A-1-IS	30	-/5850	1100	11.8	22.5	0.65/0.35	0.04	40/64
TWN-240A-2	17	6970/7360		7.7	34.8	0.45/0.45	0.04	40/64
TWN-240A-2-AS	17	8810/-	1840	11.8	34.8	0.35/0.65	0.04	40/64
TWN-240A-2-IS	17	-/9200	1840	11.8	34.8	0.65/0.35	0.04	40/64
TWN-300A-1	35	6040/6330		13.5	30.2	0.50/0.50	0.05	40/64
TWN-300A-1-AS	35	7440/-	1400	17.2	30.2	0.40/0.70	0.05	40/64
TWN-300A-1-IS	35	-/7730	1400	17.2	30.2	0.70/0.40	0.05	40/64
TWN-300A-2	20	10400/10900		13.5	52	0.50/0.50	0.05	40/64
TWN-300A-2-AS	20	12600/-	2200	17.2	52	0.40/0.70	0.05	40/64
TWN-300A-2-IS	20	-/13100	2200	17.2	52	0.70/0.40	0.05	40/64
TWN-380A-1	45	10100/10450		25.5	50.5	0.60/0.60	0.05	40/64
TWN-380A-1-AS	45	13400/-	3300	36	50.5	0.50/0.80	0.05	40/64
TWN-380A-1-IS	45	-/13750	3300	36	50.5	0.80/0.50	0.05	40/64
TWN-380A-2	26	17300/18000		25.5	86.5	0.60/0.60	0.05	40/64
TWN-380A-2-AS	26	23000/-	5700	37	86.5	0.50/0.80	0.05	40/64
TWN-380A-2-IS	26	-/23700	5700	37	86.5	0.80/0.50	0.05	40/64

Recommended accessories



Universal
steel jaw



Universal
aluminium jaw



Proximity switch M8



Magnetic switch
(C-slot) cable-
socket M8



90° rotatable air
pipe joint



Straight pipe
threaded joint

Pneumatic gripper/TWT-P

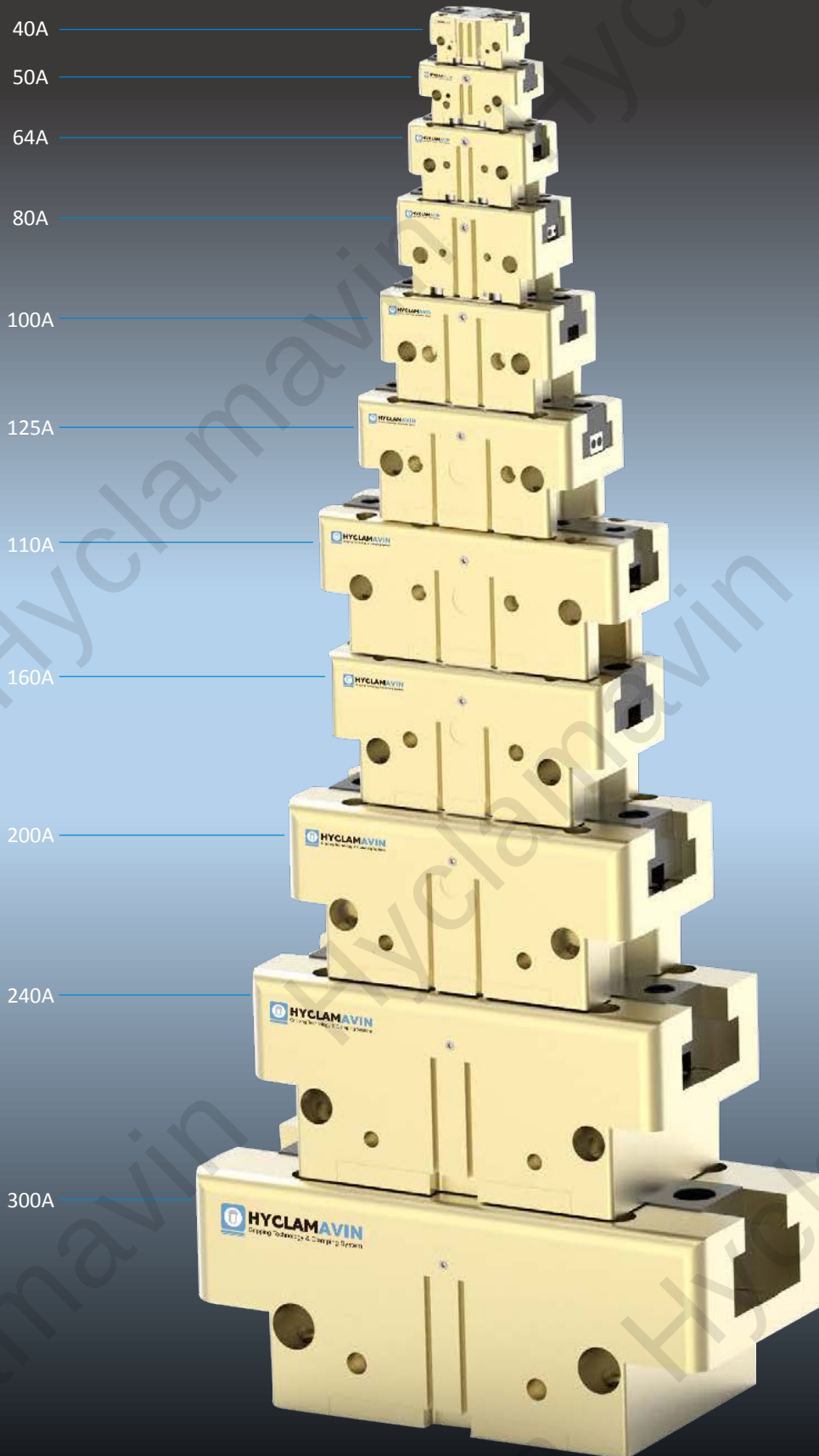
2-finger parallel motion/T-slot guidance

TWT—P — 40A — 1/2 — AS/IS

- Optional: AS: closing maintenance
IS: opening maintenance
- Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load
- Model : 40A—300A
- Enhanced
- Serial number : 2-finger parallel motion/T-slot guidance



Pneumatic gripper/TWT-P
2-finger parallel motion/T-slot guidance



Excellent performance

- The TWT-P grippers adopt high precision, T-slot guidance, which are compact, reliable and cost-effective.



T-slot guidance

- ◆ T-slot guidance, compact and reliable
- ◆ Economical gripper with higher cost performance

- The TWT-P grippers have a variety of sensor interfaces and pneumatic interfaces .

Hose-free direct connection interface

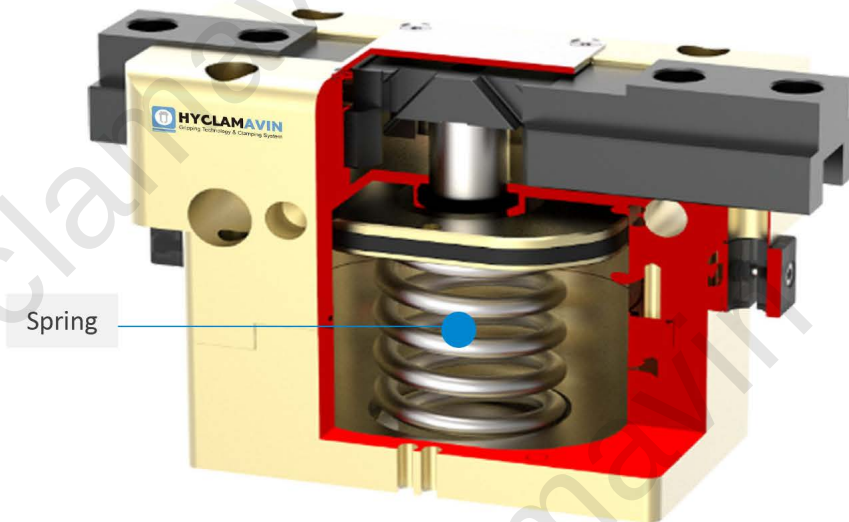


Proximity switch interface

Magnetic switch interface

Gripping force maintenance-AS/IS

- The TWT-P grippers can be equipped with gripping force maintenance, expanded to TWT-P-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.



Model and technical parameters

➤ Technical parameters

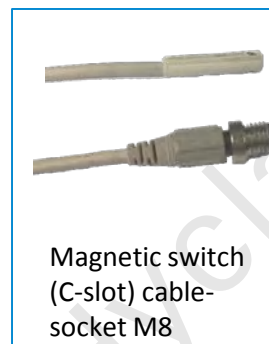
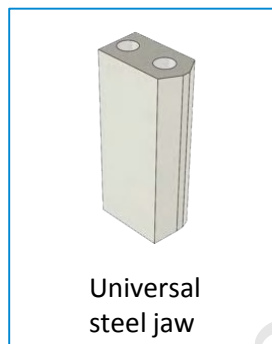
Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TWT-P-40A-1	2.5	198/210		0.08	0.99	0.02/0.02	0.01	40
TWT-P-40A-1-AS	2.5	258/-	60	0.1	0.99	0.02/0.03	0.01	40
TWT-P-40A-1-IS	2.5	-/280	70	0.1	0.99	0.03/0.02	0.01	40
TWT-P-50A-1	4	240/255		0.16	1.2	0.02/0.02	0.01	40
TWT-P-50A-1-AS	4	330/-	90	0.2	1.2	0.02/0.03	0.01	40
TWT-P-50A-1-IS	4	-/345	90	0.2	1.2	0.03/0.02	0.01	40
TWT-P-50A-2	2	430/460		0.16	2.15	0.02/0.02	0.01	40
TWT-P-50A-2-AS	2	550/-	120	0.2	2.15	0.02/0.03	0.01	40
TWT-P-50A-2-IS	2	-/580	120	0.2	2.15	0.03/0.02	0.01	40
TWT-P-64A-1	6	360/388		0.26	1.8	0.02/0.02	0.01	40
TWT-P-64A-1-AS	6	515/-	155	0.36	1.8	0.02/0.04	0.01	40
TWT-P-64A-1-IS	6	-/543	155	0.36	1.8	0.04/0.02	0.01	40
TWT-P-64A-2	3	730/785		0.26	3.65	0.02/0.02	0.01	40
TWT-P-64A-2-AS	3	1040/-	310	0.36	3.65	0.02/0.04	0.01	40
TWT-P-64A-2-IS	3	-/1095	310	0.36	3.65	0.04/0.02	0.01	40

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TWT-P-80A-1	8	565/630		0.52	2.82	0.04/0.04	0.01	40
TWT-P-80A-1-AS	8	805/-	240	0.6	2.82	0.03/0.05	0.01	40
TWT-P-80A-1-IS	8	-/870	240	0.6	2.82	0.05/0.03	0.01	40
TWT-P-80A-2	4	1145/1275		0.52	5.72	0.04/0.04	0.01	40
TWT-P-80A-2-AS	4	1535/-	390	0.6	5.72	0.03/0.05	0.01	40
TWT-P-80A-2-IS	4	-/1665	390	0.6	5.72	0.05/0.03	0.01	40
TWT-P-100A-1	10	930/995		0.9	4.65	0.07/0.07	0.01	40
TWT-P-100A-1-AS	10	1300/-	370	1.1	4.65	0.05/0.09	0.01	40
TWT-P-100A-1-IS	10	-/1345	350	1.1	4.65	0.09/0.05	0.01	40
TWT-P-100A-2	5	1860/2000		0.9	9.3	0.07/0.07	0.01	40
TWT-P-100A-2-AS	5	2400/-	540	1.1	9.3	0.05/0.09	0.01	40
TWT-P-100A-2-IS	5	-/2700	700	1.1	9.3	0.09/0.05	0.01	40
TWT-P-110A-1	20	1230/1330		2.2	6.15	0.15/0.15	0.01	40
TWT-P-125A-1	13	1475/1590		1.4	7.37	0.10/0.10	0.01	40
TWT-P-125A-1-AS	13	2125/-	650	1.9	7.37	0.08/0.12	0.01	40
TWT-P-125A-1-IS	13	-/2240	650	1.9	7.37	0.12/0.08	0.01	40
TWT-P-125A-2	6	2990/3220		1.4	14.95	0.10/0.10	0.01	40
TWT-P-125A-2-AS	6	4190/-	1200	1.9	14.95	0.08/0.12	0.01	40
TWT-P-125A-2-IS	6	-/4420	1200	1.9	14.95	0.12/0.08	0.01	40
TWT-P-160A-1	16	2600/2715		3	13	0.10/0.10	0.01	40
TWT-P-160A-1-AS	16	3550/-	900	3.8	13	0.10/0.20	0.01	40
TWT-P-160A-1-IS	16	-/3615	900	3.8	13	0.20/0.10	0.01	40
TWT-P-160A-2	8	5270/5500		3	26.35	0.10/0.10	0.01	40
TWT-P-160A-2-AS	8	6770/-	1500	3.8	26.35	0.10/0.20	0.01	40
TWT-P-160A-2-IS	8	-/7000	1500	3.8	26.35	0.20/0.10	0.01	40
TWT-P-200A-1	25	4300/4500		5.5	21.5	0.30/0.30	0.02	40
TWT-P-200A-1-AS	25	5600/-	1300	7	21.5	0.30/0.60	0.02	40
TWT-P-200A-1-IS	25	-/6000	1500	7	21.5	0.60/0.30	0.02	40
TWT-P-240A-1	30	5450/5680		8.7	27.25	0.50/0.50	0.04	40
TWT-P-240A-1-AS	30	8200/-	2750	11.8	27.25	0.45/0.90	0.04	40
TWT-P-240A-1-IS	30	-/8430	2750	11.8	27.25	0.90/0.45	0.04	40
TWT-P-300A-1	35	6850/7190		13.6	34.25	0.50/0.50	0.05	40
TWT-P-300A-1-AS	35	8600/-	1750	17.3	34.25	0.40/0.70	0.05	40
TWT-P-300A-1-IS	35	-/8940	1750	17.3	34.25	0.70/0.40	0.05	40

Recommended accessories



Pneumatic gripper/TWT

2-finger parallel motion/T-slot guidance

TWT— 40A — 1/2 — AS/IS

Optional: AS: closing maintenance
IS: opening maintenance

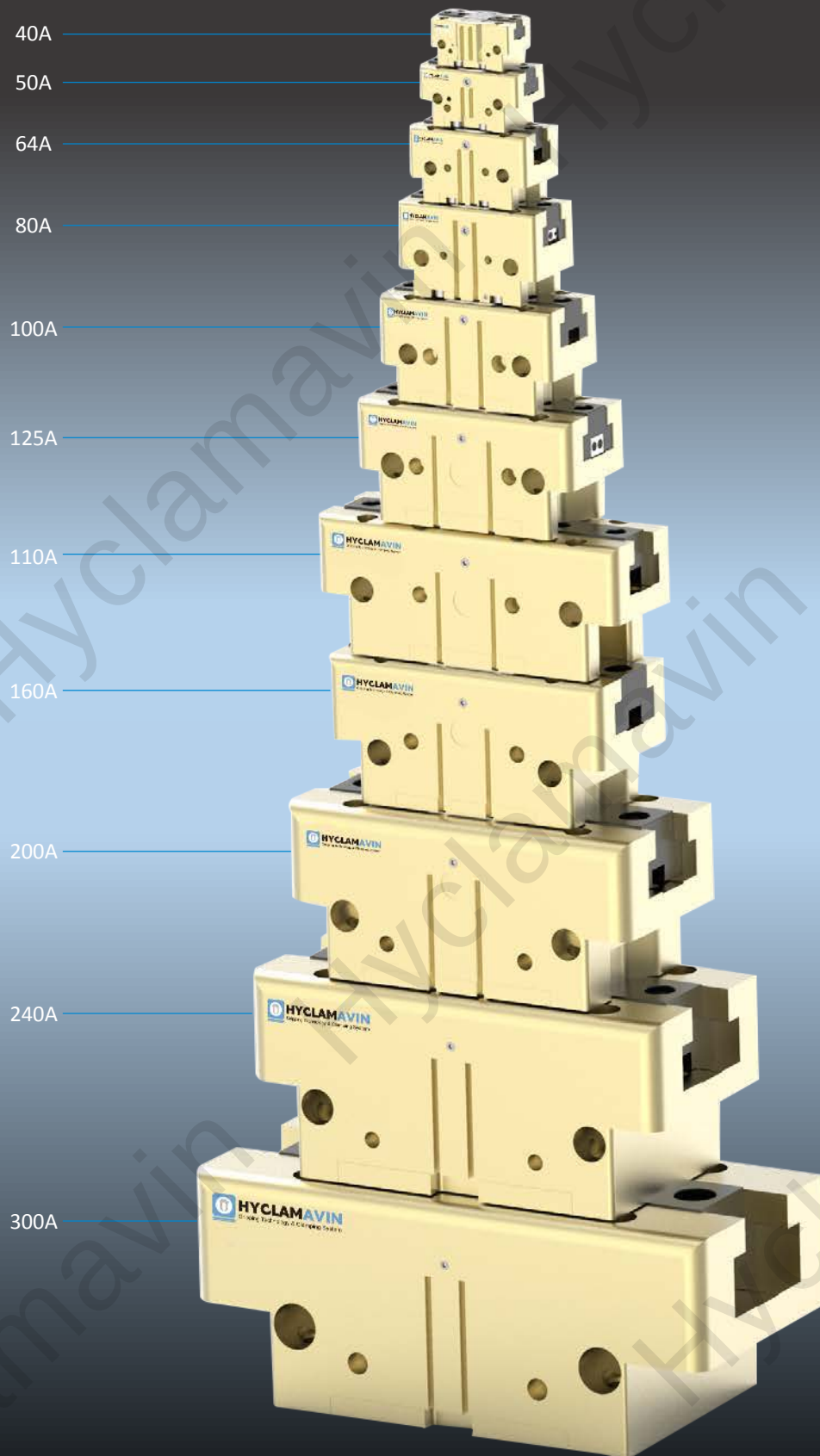
Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load

Model : 40A—300A

Serial number : 2-finger parallel motion/T-slot guidance



Pneumatic gripper/TWT
2-finger parallel motion/T-slot guidance



Excellent performance

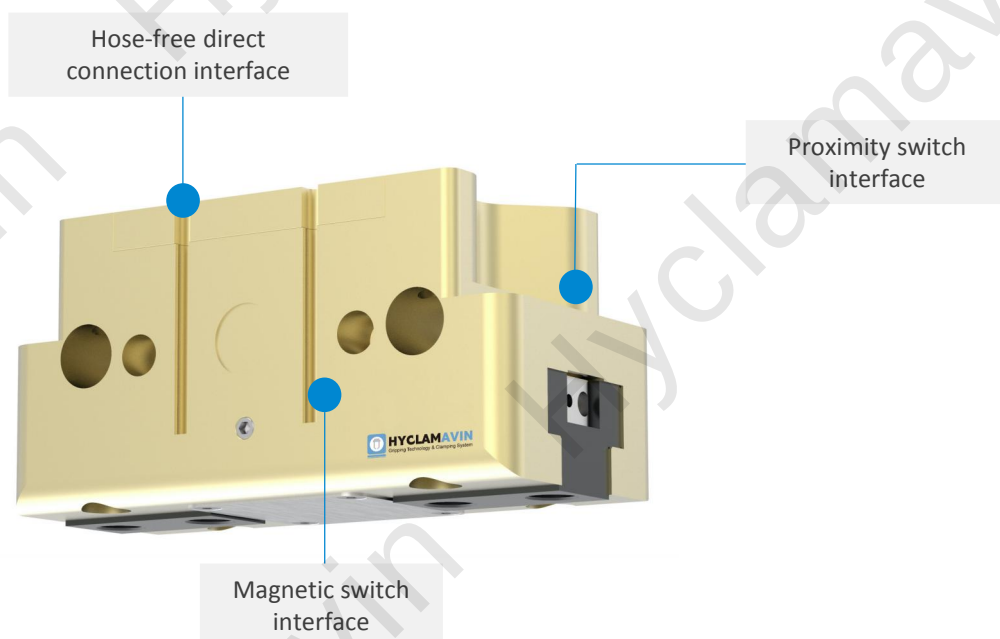
- The TWT grippers adopt high precision, T-slot guidance, which are compact, reliable and cost-effective.



T-slot guidance

- ◆ T-slot guidance, compact and reliable
- ◆ Economical gripper with higher cost performance

- The TWT grippers have a variety of sensor interfaces and pneumatic interfaces.



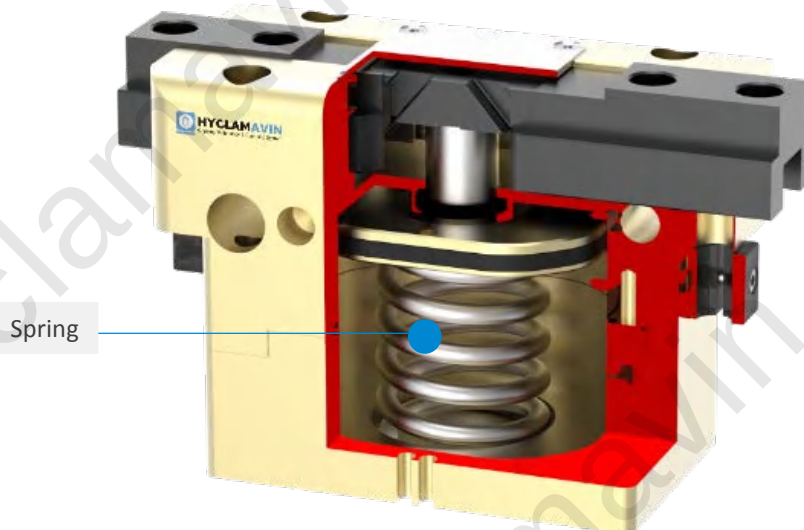
Hose-free direct connection interface

Proximity switch interface

Magnetic switch interface

Gripping force maintenance-AS/IS

- The TWT grippers can be equipped with gripping force maintenance, expanded to TWT-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.



Model and technical parameters

➤ Technical parameters

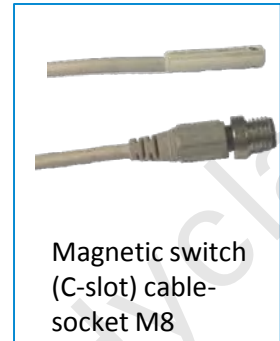
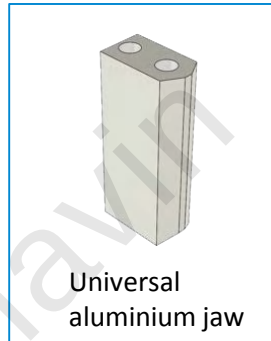
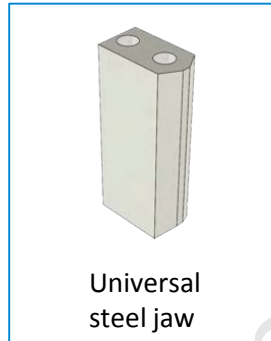
Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TWT-40A-1	2.5	130/140		0.08	0.65	0.02/0.02	0.01	40
TWT-40A-1-AS	2.5	170/-	40	0.1	0.65	0.02/0.03	0.01	40
TWT-40A-1-IS	2.5	-/190	50	0.1	0.65	0.03/0.02	0.01	40
TWT-50A-1	4	160/180		0.15	0.8	0.02/0.02	0.01	40
TWT-50A-1-AS	4	205/-	45	0.21	0.8	0.02/0.03	0.01	40
TWT-50A-1-IS	4	-/225	45	0.21	0.8	0.03/0.02	0.01	40
TWT-50A-2	2	330/370		0.15	1.65	0.02/0.02	0.01	40
TWT-50A-2-AS	2	425/-	95	0.21	1.65	0.02/0.03	0.01	40
TWT-50A-2-IS	2	-/465	95	0.21	1.65	0.03/0.02	0.01	40
TWT-64A-1	6	270/300		0.27	1.35	0.03/0.03	0.01	40
TWT-64A-1-AS	6	360/-	90	0.37	1.35	0.02/0.04	0.01	40
TWT-64A-1-IS	6	-/390	90	0.37	1.35	0.04/0.02	0.01	40
TWT-64A-2	3	560/620		0.27	2.8	0.03/0.03	0.01	40
TWT-64A-2-AS	3	750/-	190	0.37	2.8	0.02/0.04	0.01	40
TWT-64A-2-IS	3	-/810	190	0.37	2.8	0.04/0.02	0.01	40

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TWT-80A-1	8	360/430		0.5	1.8	0.04/0.04	0.01	40
TWT-80A-1-AS	8	515/-	155	0.6	1.8	0.03/0.05	0.01	40
TWT-80A-1-IS	8	-/585	155	0.6	1.8	0.05/0.03	0.01	40
TWT-80A-2	4	745/890		0.5	3.72	0.04/0.04	0.01	40
TWT-80A-2-AS	4	1065/-	320	0.6	3.72	0.03/0.05	0.01	40
TWT-80A-2-IS	4	-/1210	320	0.6	3.72	0.05/0.03	0.01	40
TWT-100A-1	10	690/750		0.81	3.45	0.07/0.07	0.01	40
TWT-100A-1-AS	10	930/-	240	1	3.45	0.05/0.09	0.01	40
TWT-100A-1-IS	10	-/990	240	1	3.45	0.09/0.05	0.01	40
TWT-100A-2	5	1430/1550		0.81	7.15	0.07/0.07	0.01	40
TWT-100A-2-AS	5	1930/-	500	1	7.15	0.05/0.09	0.01	40
TWT-100A-2-IS	5	-/2050	500	1	7.15	0.09/0.05	0.01	40
TWT-110A-1	20	1050/1150		2.1	5.25	0.15/0.15	0.01	40
TWT-125A-1	13	1250/1400		1.24	6.25	0.10/0.10	0.01	40
TWT-125A-1-AS	13	1640/-	390	1.85	6.25	0.08/0.12	0.01	40
TWT-125A-1-IS	13	-/1790	390	1.85	6.25	0.12/0.08	0.01	40
TWT-125A-2	6	2590/2900		1.24	12.95	0.10/0.10	0.01	40
TWT-125A-2-AS	6	3390/-	800	1.85	12.95	0.08/0.12	0.01	40
TWT-125A-2-IS	6	-/3700	800	1.85	12.95	0.12/0.08	0.01	40
TWT-160A-1	16	1710/1820		2.6	8.55	0.15/0.15	0.01	40
TWT-160A-1-AS	16	2280/-	570	3.6	8.55	0.12/0.25	0.01	40
TWT-160A-1-IS	16	-/2390	570	3.6	8.55	0.25/0.12	0.01	40
TWT-160A-2	8	3550/3780		2.6	17.75	0.15/0.15	0.01	40
TWT-160A-2-AS	8	4770/-	1220	3.6	17.75	0.12/0.25	0.01	40
TWT-160A-2-IS	8	-/5000	1220	3.6	17.75	0.25/0.12	0.01	40
TWT-200A-1	25	2810/2980		5	14	0.35/0.35	0.02	40
TWT-200A-1-AS	25	3720/-	910	7.5	14	0.30/0.60	0.02	40
TWT-200A-1-IS	25	-/3890	910	7.5	14	0.60/0.30	0.02	40
TWT-220A-1	16	3700/4000		3.9	18.5	0.16/0.16	0.02	40
TWT-240A-1	30	4500/4750		7.7	22.5	0.45/0.45	0.04	40
TWT-240A-1-AS	30	5600/-	1100	11.8	22.5	0.35/0.65	0.04	40
TWT-240A-1-IS	30	-/5850	1100	11.8	22.5	0.65/0.35	0.04	40
TWT-300A-1	35	6040/6330		13.5	30.2	0.50/0.50	0.05	40
TWT-300A-1-AS	35	7440/-	1400	17.2	30.2	0.40/0.70	0.05	40
TWT-300A-1-IS	35	-/7730	1400	17.2	30.2	0.70/0.40	0.05	40

Recommended accessories

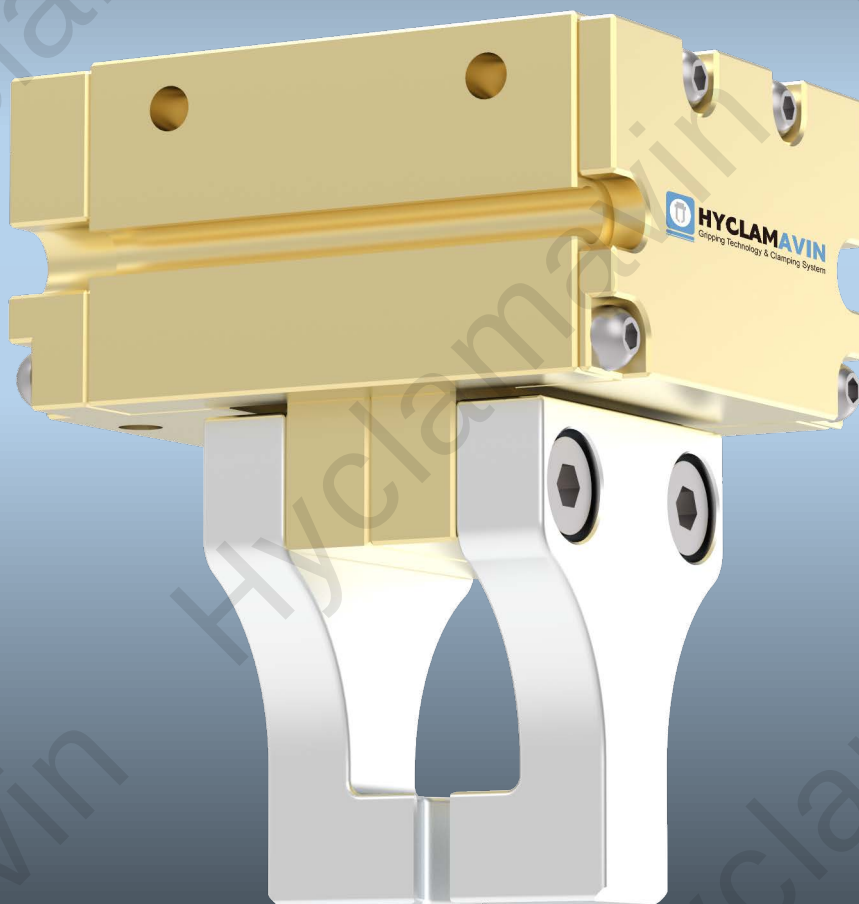


Pneumatic gripper/TSC
2-finger parallel motion/economical

TSC—25

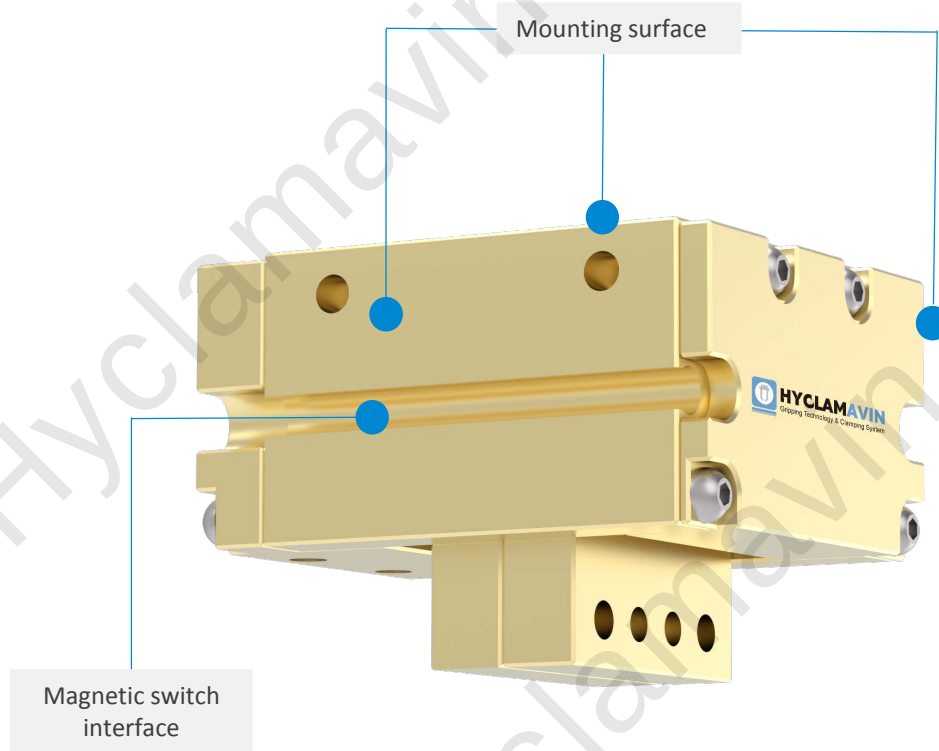
Model : 25-150

Serial number : 2-finger parallel motion/economical



Excellent performance

- The TSC grippers have magnetic switch interface and multiple installation methods.



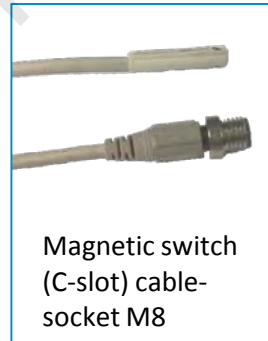
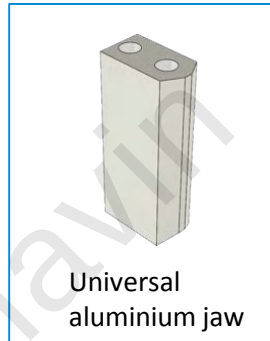
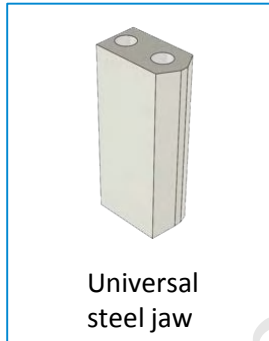
- ◆ The body is made of high strength aluminum alloy, which is lighter and stronger
- ◆ With six specifications, it is widely used for taking and placing of small parts
- ◆ with high price-performance ratio
- ◆ Magnetic switch interface
- ◆ Can be installed on three sides, flexible using

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TSC-25	2.5	16/16	0.05	0.08	0.03/0.03	0.02	30
TSC-40	4	50/50	0.14	0.25	0.05/0.05	0.02	30
TSC-75	7.5	110/110	0.20	0.55	0.06/0.06	0.02	30
TSC-100	10	170/170	0.33	0.85	0.09/0.09	0.02	30
TSC-120	12	240/240	0.53	1.2	0.10/0.10	0.02	30
TSC-150	15	370/370	0.92	1.85	0.11/0.11	0.02	30

Recommended accessories



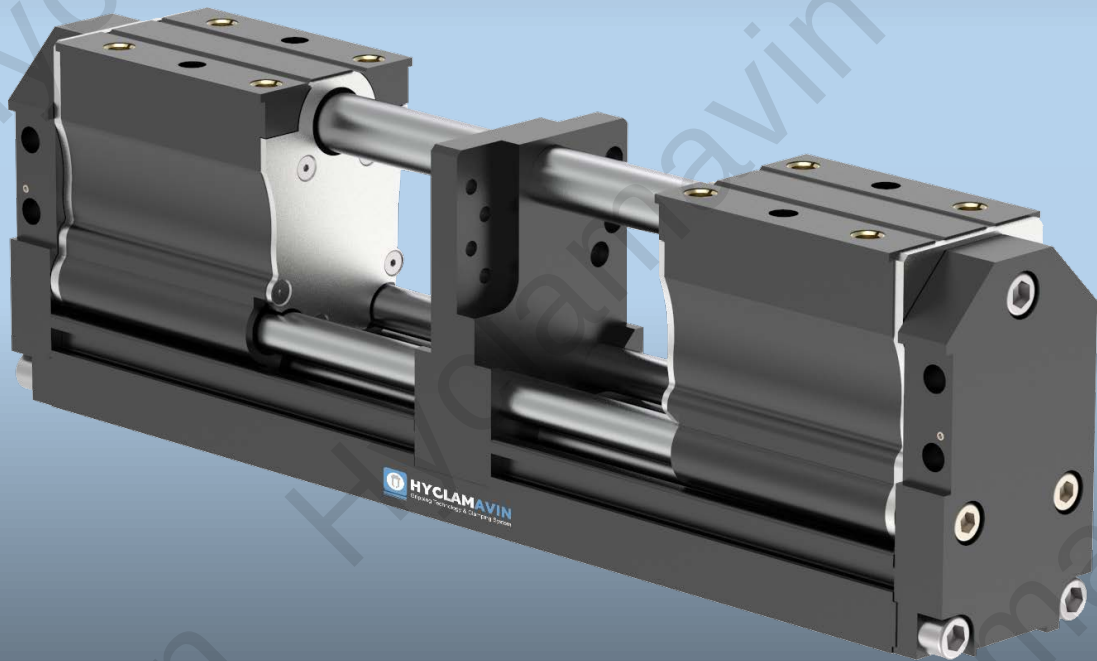
Pneumatic gripper/TWL
2-finger parallel motion/long stroke

TWL—63 — 75

Stroke per jaw: 75-175mm

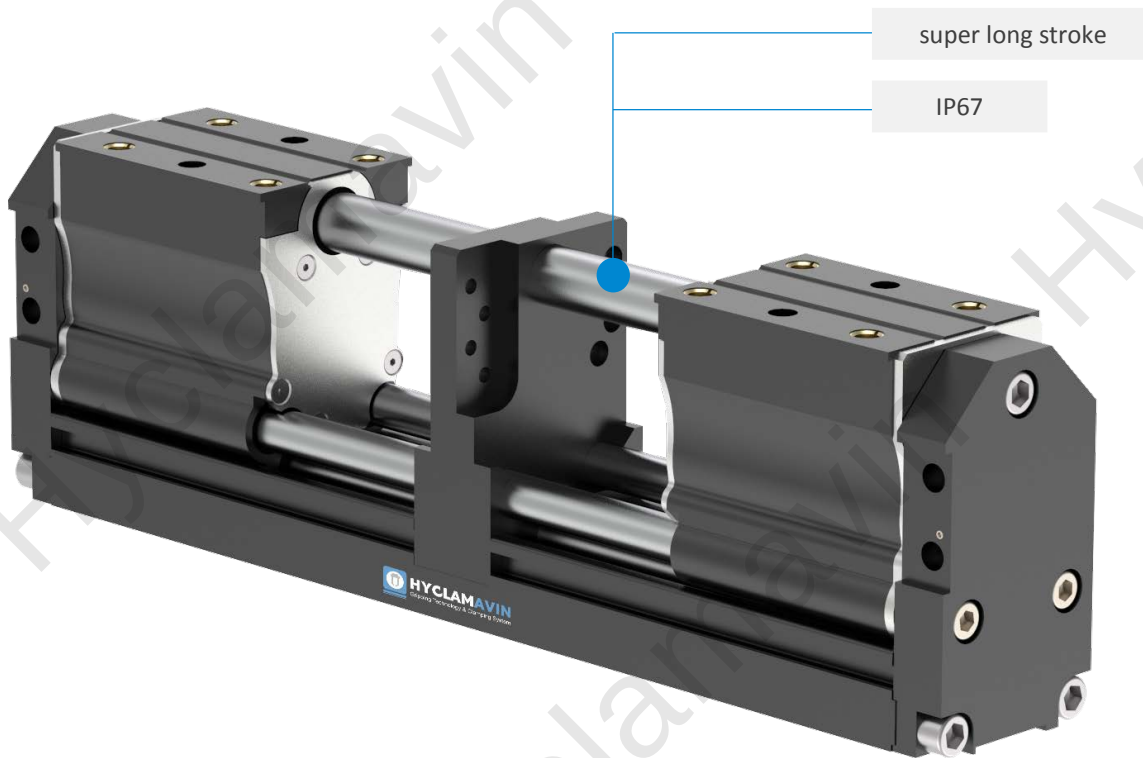
Model

Serial number : 2-finger parallel motion/long stroke



Excellent performance

- The TWL grippers have super long stroke, IP67.



- ◆ Meet the needs of large workpiece size and large stroke occasions
- ◆ Compact design provides high grip force and large moment capacities with low overall weight
- ◆ Rugged build withstands high impact and shock loads
- ◆ Double acting for both internal and external gripping
- ◆ Three large diameter jaw guides spanning the length of the gripper provide stable jaw travel, long allowable tooling length, and high moment capacities
- ◆ Class IP 67

Model and technical parameters

► Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Weight [kg]	Closing/opening time [s]	Allowable moments Mx [Nm]	Allowable moments My/Mz [Nm]	Allowable forces Fa [N]	Repeat accuracy [mm]	Protection class IP
TWL-63-75	75	3100/2790	12.6	0.28/0.28	880	720	15500	0.05	67
TWL-63-100	100	3100/2790	15	0.36/0.36	980	820	15500	0.05	67
TWL-63-125	125	3100/2790	17.7	0.42/0.42	980	820	15500	0.05	67
TWL-63-175	175	3100/2790	22.3	0.57/0.57	980	820	15500	0.05	67

Pneumatic gripper/TPL
2-finger parallel motion/long stroke

TPL—40A

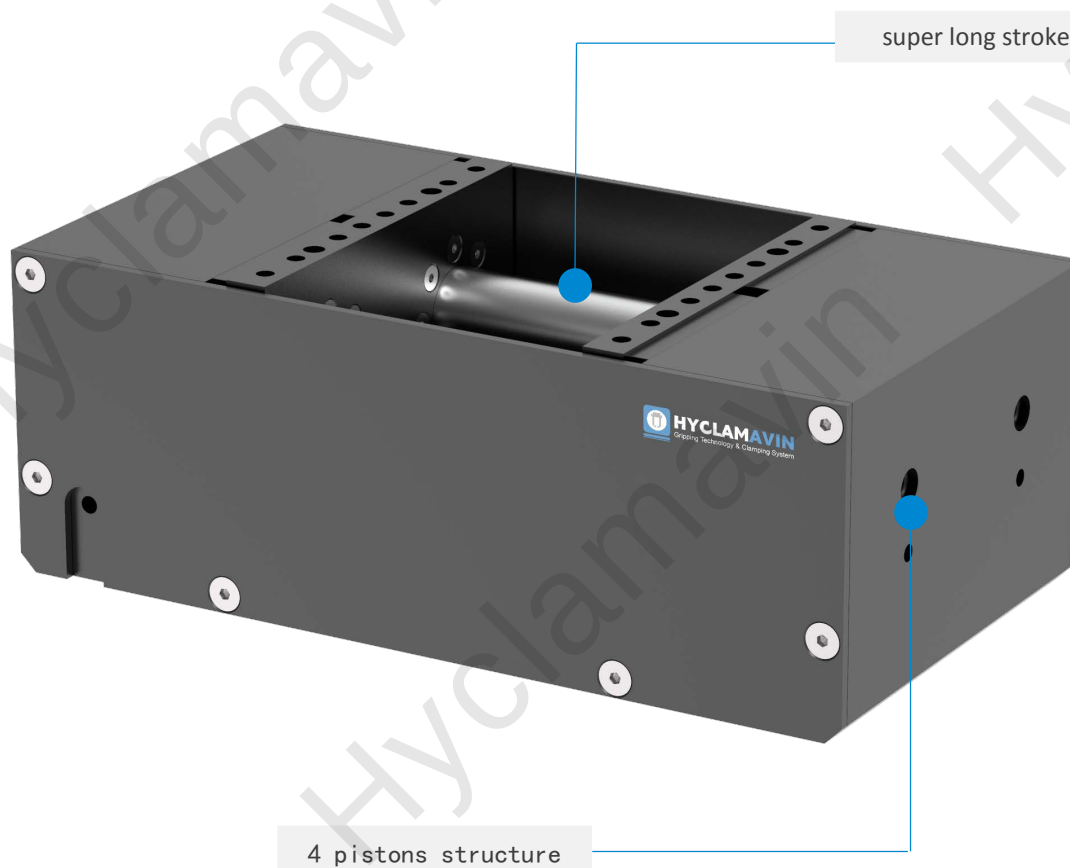
Model: 40A-70A

Serial number : 2-finger parallel motion/long stroke



Excellent performance

- The TPL grippers have super long stroke and 4 pistons structure.



- ◆ Longer stroke to meet the requirements of special working conditions
- ◆ Unique four-piston structure, smaller volume, higher gripping force

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/ opening force[N]	Weight [kg]	Recommended workpiece weight[kg]	Closing/ opening time[s]	Repeat accuracy [mm]	Protection class IP
TPL-40A	40	1790/1050	4.5	8.95	0.40/0.40	0.02	40
TPL-70A	70	4450/2940	9.1	22.25	0.70/0.70	0.02	40

Pneumatic gripper/TPG

2-finger parallel motion/multi-tooth guidance/IP67

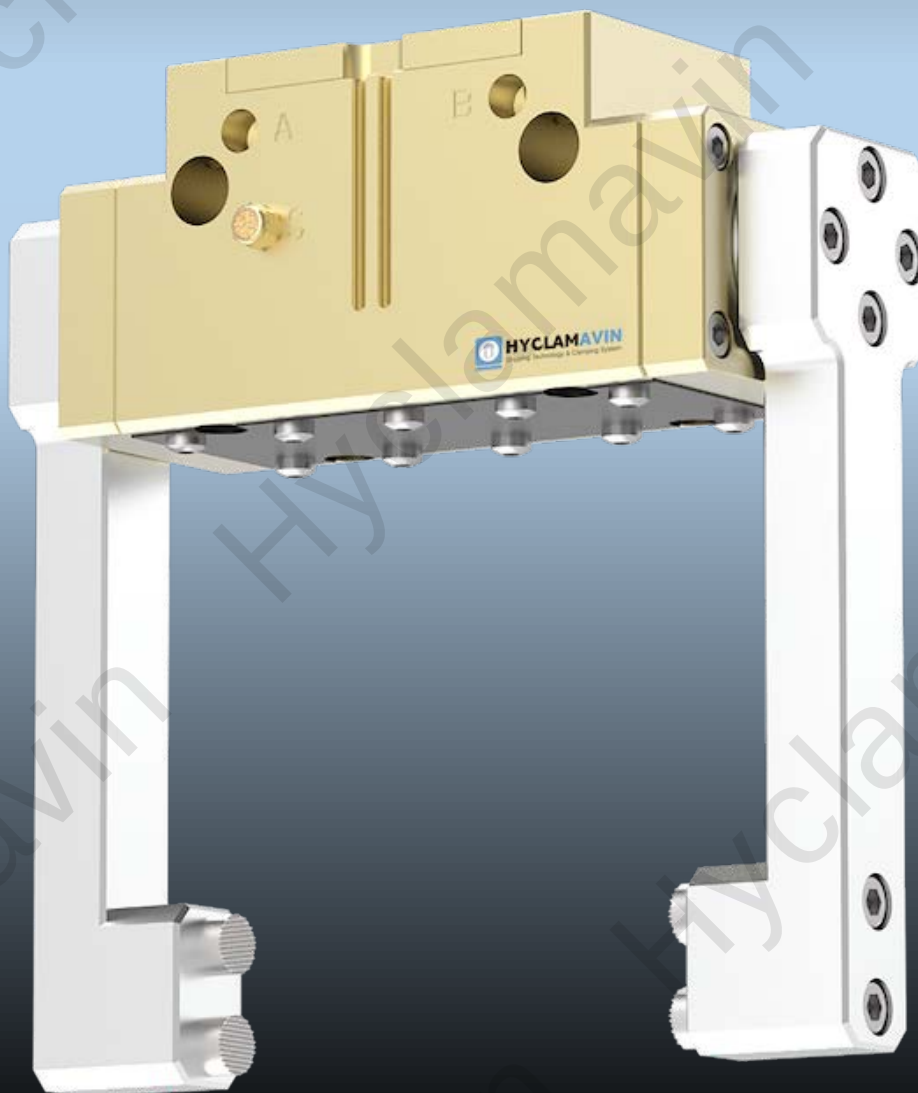
TPG— 40A — 1/2 — AS

Optional: AS: closing maintenance

Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load

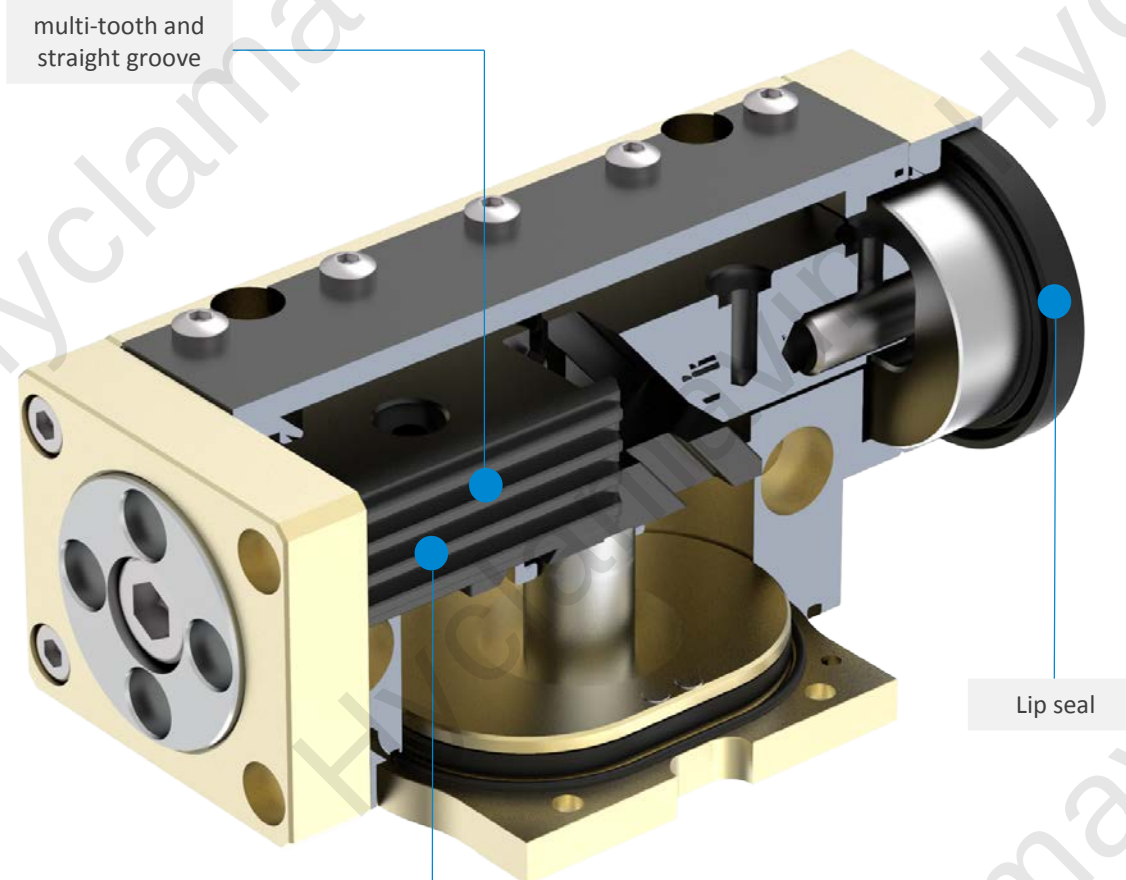
Model : 40A—380A

Serial number : 2-finger parallel motion/Multi-tooth/IP67



Excellent performance

- The TPG grippers adopt high precision, permanent lubrication, multi-tooth and straight groove guidance.



- ◆ Robust interior multi-tooth guidance can be used for heavy load
- ◆ The load is distributed to more surfaces to reduce the contact stress
- ◆ Lip seal at the outside round guidance for permanent, secure gripper sealing
- ◆ It can ensure enough motion rigidity and accuracy for a long time
- ◆ The oil storage structure in the multi tooth guide extends the service life
- ◆ The protection level of the TPG grippers reaches IP67

Excellent performance

- The TPG grippers have the magnetic switch interface and a variety of pneumatic interfaces.
- The protection level of the TPG grippers reaches IP67.



High-temperature version-HT

- The TPG grippers can be equipped with high temperature version, expanded to TPG-HT, the temperature tolerance range is increased from 5/90°C of the basic version to 5/130°C.

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TPG-40A-1	2.5	130/140		0.12	0.65	0.03/0.03	0.01	67
TPG-40A-1-AS	2.5	173/-	43	0.14	0.65	0.03/0.05	0.01	67
TPG-40A-1-IS	2.5	-/193	53	0.14	0.65	0.05/0.03	0.01	67
TPG-50A-1	4	150/160		0.25	0.75	0.03/0.03	0.01	67
TPG-50A-1-AS	4	198/-	48	0.3	0.75	0.03/0.05	0.01	67
TPG-50A-1-IS	4	-/208	48	0.3	0.75	0.05/0.03	0.01	67
TPG-50A-2	2	308/330		0.25	1.54	0.03/0.03	0.01	67
TPG-50A-2-AS	2	408/-	100	0.3	1.54	0.03/0.05	0.01	67
TPG-50A-2-IS	2	-/430	100	0.3	1.54	0.05/0.03	0.01	67
TPG-64A-1	6	262/285		0.39	1.31	0.04/0.04	0.01	67
TPG-64A-1-AS	6	360/-	98	0.46	1.31	0.03/0.06	0.01	67
TPG-64A-1-IS	6	-/383	98	0.46	1.31	0.06/0.03	0.01	67
TPG-64A-2	3	540/590		0.39	2.7	0.04/0.04	0.01	67
TPG-64A-2-AS	3	740/-	200	0.46	2.7	0.03/0.06	0.01	67
TPG-64A-2-IS	3	-/790	200	0.46	2.7	0.06/0.03	0.01	67
TPG-80A-1	8	438/488		0.68	2.19	0.05/0.05	0.01	67
TPG-80A-1-AS	8	594/-	156	0.8	2.19	0.04/0.07	0.01	67
TPG-80A-1-IS	8	-/644	156	0.8	2.19	0.07/0.04	0.01	67
TPG-80A-2	4	900/1010		0.68	4.5	0.05/0.05	0.01	67
TPG-80A-2-AS	4	1230/-	330	0.8	4.5	0.04/0.07	0.01	67
TPG-80A-2-IS	4	-/1340	330	0.8	4.5	0.07/0.04	0.01	67
TPG-100A-1	10	732/805		1.1	3.66	0.09/0.09	0.01	67
TPG-100A-1-AS	10	997/-	265	1.35	3.66	0.07/0.12	0.01	67
TPG-100A-1-IS	10	-/1070	265	1.35	3.66	0.12/0.07	0.01	67
TPG-100A-2	5	1520/1670		1.1	7.6	0.09/0.09	0.01	67
TPG-100A-2-AS	5	2065/-	545	1.35	7.6	0.07/0.12	0.01	67
TPG-100A-2-IS	5	-/2215	545	1.35	7.6	0.12/0.07	0.01	67
TPG-125A-1	13	1200/1300		1.9	6	0.13/0.13	0.01	67
TPG-125A-1-AS	13	1640/-	440	2.35	6	0.11/0.16	0.01	67
TPG-125A-1-IS	13	-/1740	440	2.35	6	0.16/0.11	0.01	67
TPG-125A-2	6	2480/2685		1.9	12.4	0.13/0.13	0.01	67
TPG-125A-2-AS	6	3380/-	900	2.35	12.4	0.11/0.16	0.01	67
TPG-125A-2-IS	6	-/3585	900	2.35	12.4	0.16/0.11	0.01	67

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
TPG-160A-1	16	1810/1960		3.65	9.05	0.19/0.19	0.01	67
TPG-160A-1-AS	16	2410/-	600	4.65	9.05	0.16/0.33	0.01	67
TPG-160A-1-IS	16	-/2560	600	4.65	9.05	0.33/0.16	0.01	67
TPG-160A-2	8	3515/3810		3.65	17.57	0.19/0.19	0.01	67
TPG-160A-2-AS	8	4990/-	1475	4.65	17.57	0.16/0.33	0.01	67
TPG-160A-2-IS	8	-/5285	1475	4.65	17.57	0.33/0.16	0.01	67
TPG-200A-1	25	2900/3100		7.3	14.5	0.45/0.45	0.02	67
TPG-200A-1-AS	25	3890/-	990	9.5	14.5	0.40/0.80	0.02	67
TPG-200A-1-IS	25	-/4290	1190	9.5	14.5	0.80/0.40	0.02	67
TPG-200A-2	14	5000/5620		7.3	25	0.45/0.45	0.02	67
TPG-200A-2-AS	14	6710/-	1710	9.5	25	0.40/0.80	0.02	67
TPG-200A-2-IS	14	-/7680	2060	9.5	25	0.80/0.40	0.02	67
TPG-240A-1	30	3930/4150		11.5	19.65	0.60/0.60	0.04	67
TPG-240A-1-AS	30	4920/-	990	14.6	19.65	0.50/1.00	0.04	67
TPG-240A-1-IS	30	-/5140	990	14.6	19.65	1.00/0.50	0.04	67
TPG-240A-2	17	6120/6460		11.5	30.6	0.60/0.60	0.04	67
TPG-240A-2-AS	17	7780/-	1660	14.6	30.6	0.50/1.00	0.04	67
TPG-240A-2-IS	17	-/8120	1660	14.6	30.6	1.00/0.50	0.04	67
TPG-300A-1	35	5640/5870		19.6	28.2	0.70/0.70	0.05	67
TPG-300A-1-AS	35	6940/-	1300	23.6	28.2	0.60/1.00	0.05	67
TPG-300A-1-IS	35	-/7170	1300	23.6	28.2	1.00/0.60	0.05	67
TPG-300A-2	20	9800/10300		19.6	49	0.70/0.70	0.05	67
TPG-300A-2-AS	20	12000/-	2200	23.6	49	0.60/1.00	0.05	67
TPG-300A-2-IS	20	-/12500	2200	23.6	49	1.00/0.60	0.05	67
TPG-380A-1	45	8430/8740		42	42.15	1.10/1.10	0.05	67
TPG-380A-1-AS	45	11630/-	3200	52	42.15	0.95/1.10	0.05	67
TPG-380A-1-IS	45	-/11940	3200	52	42.15	1.10/0.95	0.05	67

Recommended accessories



90° rotatable air
pipe joint



Straight pipe
threaded joint



Magnetic switch
(C-slot) cable-
socket M8

Pneumatic gripper/THN

3-finger centering/multi-tooth guidance

THN— 40A — 1/2 — AS/IS — SD — HT

Optional : High-temperature

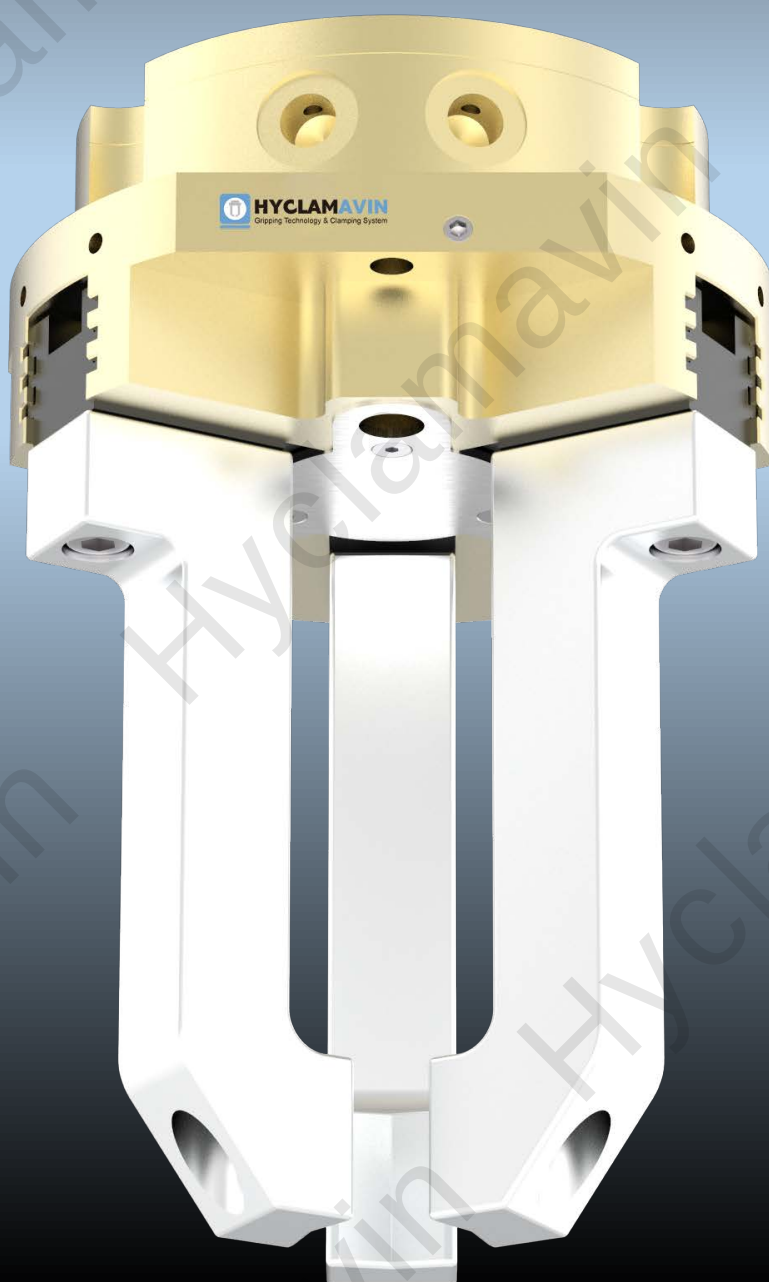
Optional : Dust-tight /IP64

Optional: AS: closing maintenance
IS: opening maintenance

Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load

Model: 40A—380A

Serial number: 3-finger centering/multi-tooth



40A

50A

64A

80A

100A

125A

160A

200A

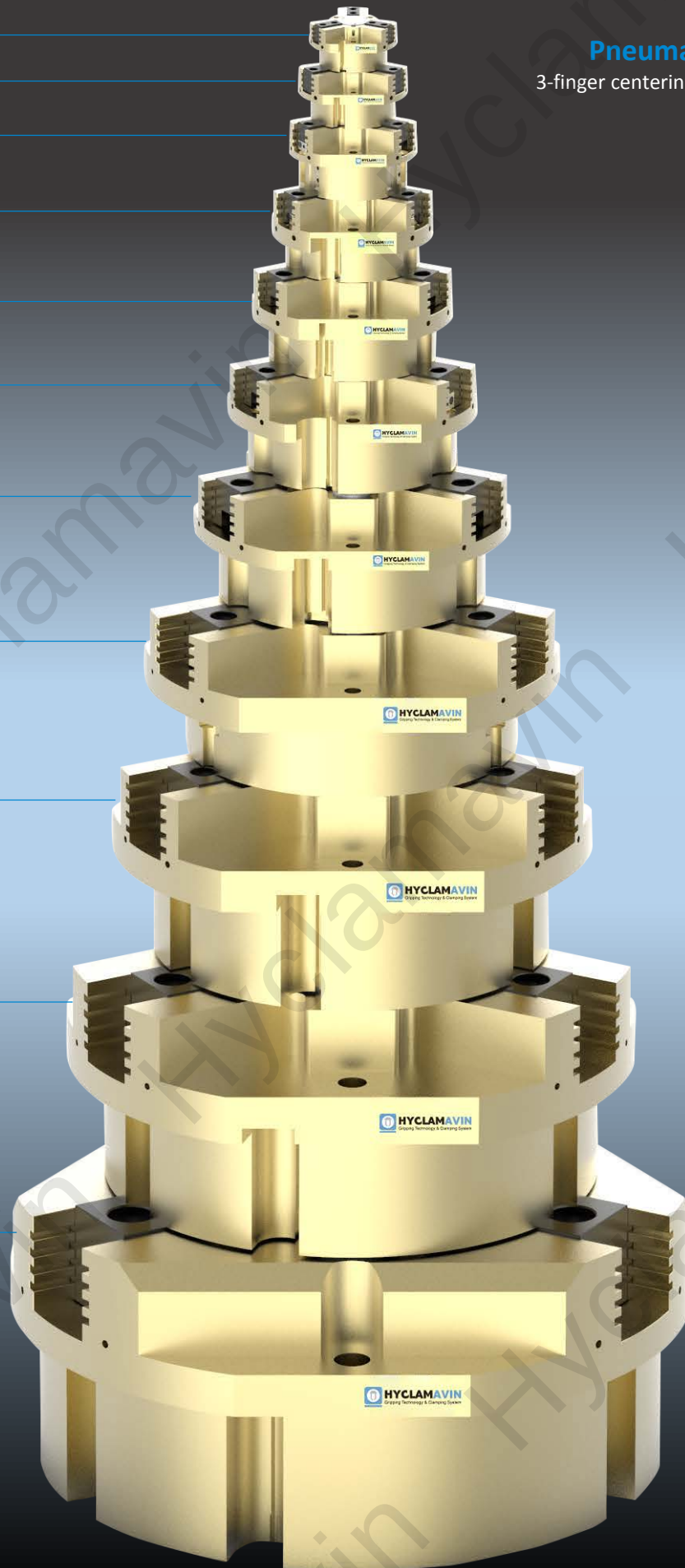
240A

300A

380A

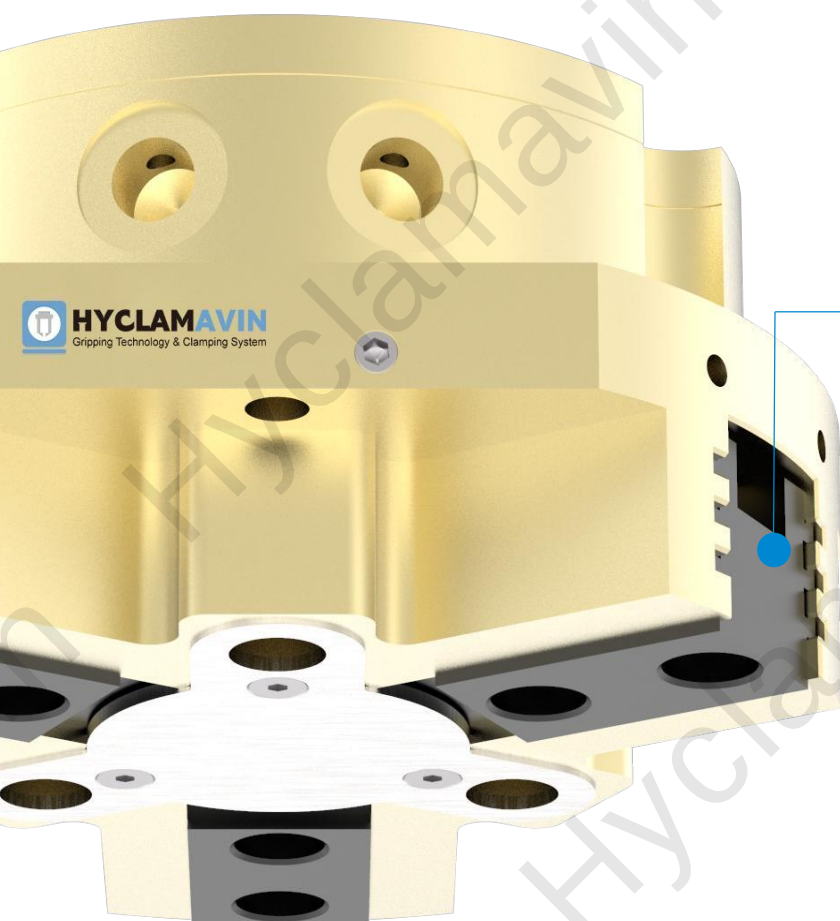
Pneumatic gripper/THN

3-finger centering/multi-tooth guidance



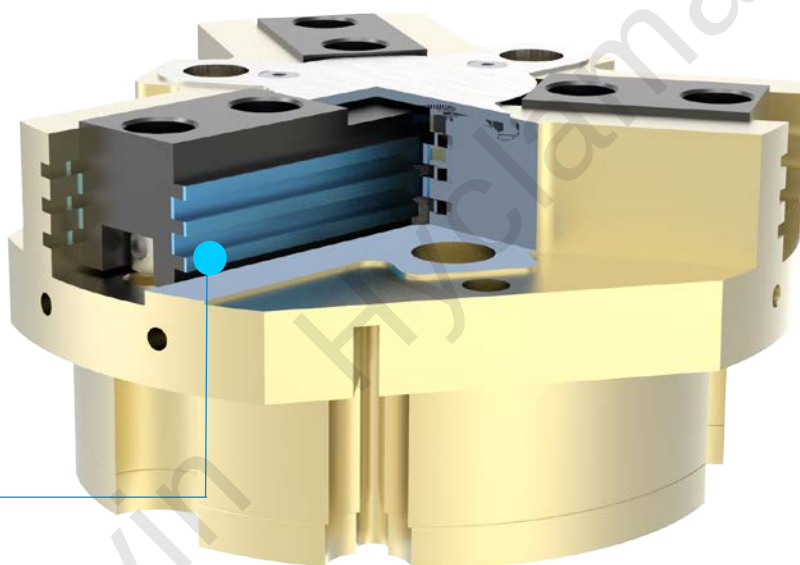
Excellent performance

- The THN grippers adopt high precision, permanent lubrication, multi-tooth and straight groove guidance.



multi-tooth and straight groove

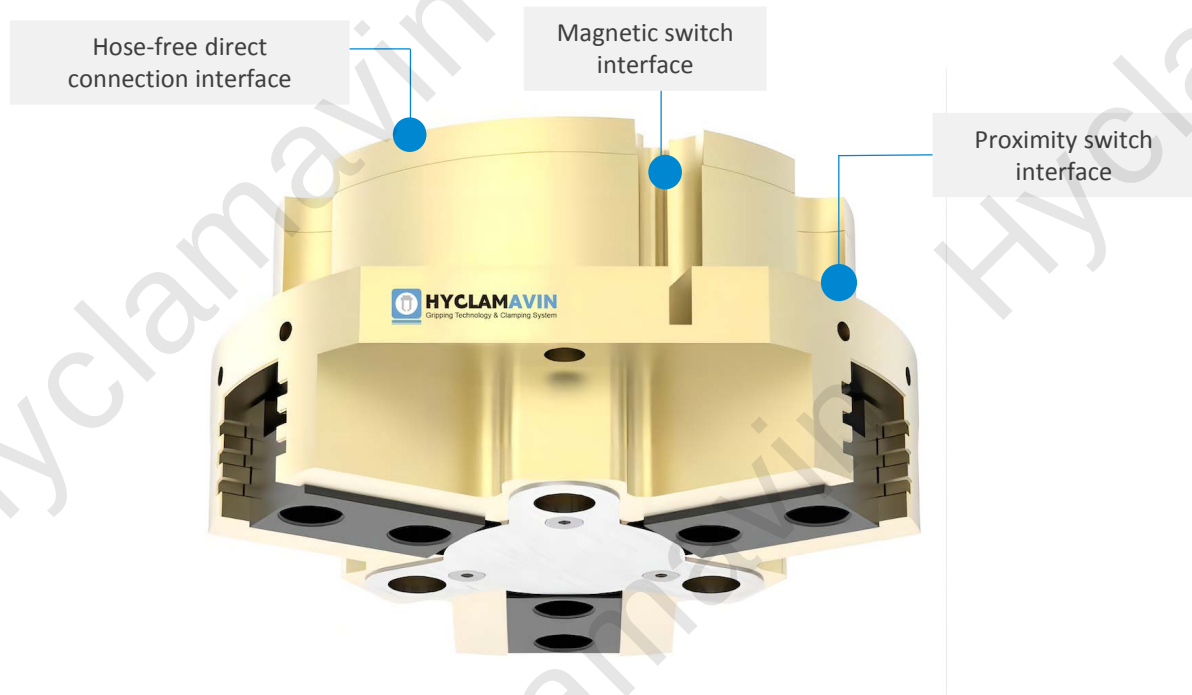
- ◆ Compact structure can be used for short stroke and heavy load
- ◆ The load is distributed to more surfaces to reduce the contact stress
- ◆ Grease can be distributed more quickly and evenly
- ◆ It can ensure enough motion rigidity and accuracy for a long time
- ◆ The oil storage structure in the multi tooth guide extends the service life



The oil storage groove for permanent lubrication

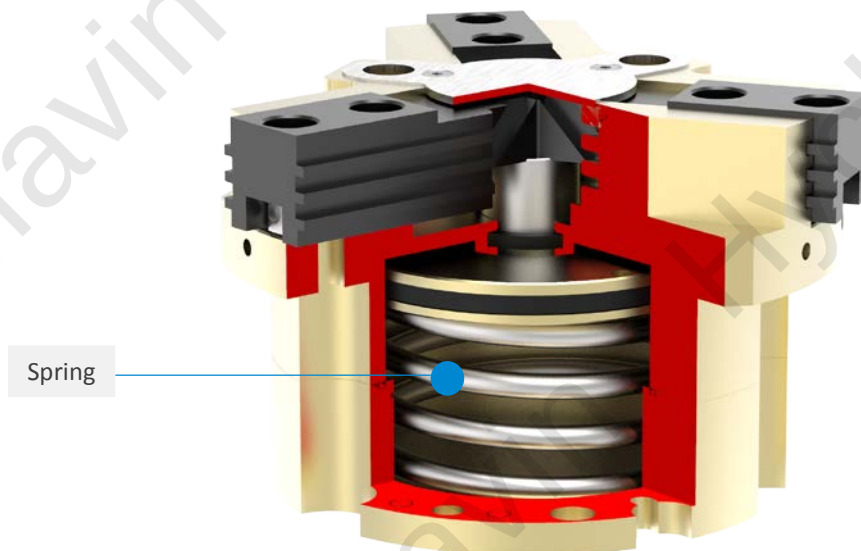
Excellent performance

- The THN grippers have a variety of sensor interfaces and pneumatic interfaces.



Gripping force maintenance-AS/IS

- The THN grippers can be equipped with gripping force maintenance, expanded to THN-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.



Pneumatic gripper/THN

3-finger centering/multi-tooth guidance

Dust-tight version

- The THN grippers can be equipped with dust-tight version, expanded to THN-SD, and reach IP64.



High-temperature version

- The THN grippers can be equipped with high temperature version, expanded to THN-HT, the temperature tolerance range is increased from 5/90°C of the basic version to 5/130°C.

Model and technical parameters

➤ Technical parameters

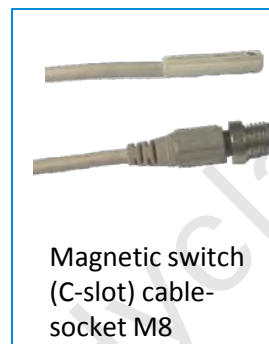
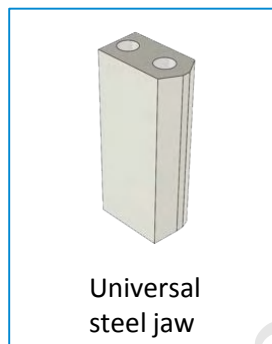
Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
THN-40A-1	2.5	295/325		0.13	1.47	0.03/0.03	0.01	40/64
THN-40A-1-AS	2.5	395/-	100	0.15	1.47	0.02/0.04	0.01	40/64
THN-40A-1-IS	2.5	-/425	100	0.15	1.47	0.04/0.02	0.01	40/64
THN-50A-1	4	385/430		0.24	1.92	0.03/0.03	0.01	40/64
THN-50A-1-AS	4	505/-	120	0.35	1.92	0.02/0.04	0.01	40/64
THN-50A-1-IS	4	-/580	150	0.35	1.92	0.04/0.02	0.01	40/64
THN-50A-2	2	800/890		0.24	4	0.03/0.03	0.01	40/64
THN-50A-2-AS	2	1045/-	245	0.35	4	0.02/0.04	0.01	40/64
THN-50A-2-IS	2	-/1200	310	0.35	4	0.04/0.02	0.01	40/64
THN-64A-1	6	700/750		0.41	3.5	0.03/0.03	0.01	40/64
THN-64A-1-AS	6	885/-	185	0.54	3.5	0.02/0.04	0.01	40/64
THN-64A-1-IS	6	-/970	220	0.54	3.5	0.04/0.02	0.01	40/64
THN-64A-2	3	1190/1270		0.41	5.95	0.03/0.03	0.01	40/64
THN-64A-2-AS	3	1505/-	315	0.54	5.95	0.02/0.04	0.01	40/64
THN-64A-2-IS	3	-/1730	460	0.54	5.95	0.04/0.02	0.01	40/64
THN-80A-1	8	1250/1400		0.7	6.25	0.05/0.05	0.01	40/64
THN-80A-1-AS	8	1600/-	350	0.95	6.25	0.03/0.05	0.01	40/64
THN-80A-1-IS	8	-/1770	370	0.95	6.25	0.06/0.04	0.01	40/64
THN-80A-2	4	2600/2900		0.7	13	0.05/0.05	0.01	40/64
THN-80A-2-AS	4	3330/-	730	0.95	13	0.03/0.05	0.01	40/64
THN-80A-2-IS	4	-/3660	760	0.95	13	0.06/0.04	0.01	40/64
THN-100A-1	10	2200/2400		1.4	11	0.10/0.10	0.01	40/64
THN-100A-1-AS	10	2920/-	720	1.95	11	0.10/0.20	0.01	40/64
THN-100A-1-IS	10	-/3180	780	1.95	11	0.20/0.10	0.01	40/64
THN-100A-2	5	4800/5300		1.4	24	0.10/0.10	0.01	40/64
THN-100A-2-AS	5	6300/-	1500	1.95	24	0.10/0.20	0.01	40/64
THN-100A-2-IS	5	-/6920	1620	1.95	24	0.20/0.10	0.01	40/64
THN-125A-1	13	3700/4000		2.1	18.5	0.20/0.20	0.01	40/64
THN-125A-1-AS	13	4750/-	1050	3.3	18.5	0.17/0.35	0.01	40/64
THN-125A-1-IS	13	-/5070	1070	3.3	18.5	0.35/0.17	0.01	40/64
THN-125A-2	6	6900/7500		2.1	34.5	0.20/0.20	0.01	40/64
THN-125A-2-AS	6	9070/-	2170	3.3	34.5	0.17/0.35	0.01	40/64
THN-125A-2-IS	6	-/9710	2210	3.3	34.5	0.35/0.17	0.01	40/64
THN-135A-1	35	3700/4000		4.9	18.5	1.30/1.30	0.01	40/64

Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
THN-160A-1	16	5000/5400		4.35	25	0.50/0.50	0.02	40/64
THN-160A-1-AS	16	6990/-	1990	7.5	25	0.40/0.80	0.02	40/64
THN-160A-1-IS	16	-/7490	2090	7.5	25	0.80/0.40	0.02	40/64
THN-160A-2	8	9200/9930		4.35	46	0.50/0.50	0.02	40/64
THN-160A-2-AS	8	13210/-	4010	7.5	46	0.40/0.80	0.02	40/64
THN-160A-2-IS	8	-/14270	4340	7.5	46	0.80/0.40	0.02	40/64
THN-200A-1	25	8200/8700		10.5	41	1.20/1.20	0.05	40/64
THN-200A-1-AS	25	10900/-	2700	15.5	41	1.00/1.50	0.05	40/64
THN-200A-1-IS	25	-/11660	2960	15.5	41	1.50/1.00	0.05	40/64
THN-200A-2	14	14600/15500		10.5	73	1.20/1.20	0.05	40/64
THN-200A-2-AS	14	19280/-	4680	15.5	73	1.00/1.50	0.05	40/64
THN-200A-2-IS	14	-/20500	5000	15.5	73	1.50/1.00	0.05	40/64
THN-240A-1	30	9500/10000		14.5	47.5	1.25/1.25	0.05	40/64
THN-240A-1-AS	30	13720/-	4220	20	47.5	1.10/2.10	0.05	40/64
THN-240A-1-IS	30	-/14770	4770	20	47.5	1.70/1.10	0.05	40/64
THN-240A-2	17	19700/20700		14.5	98.5	1.25/1.25	0.05	40/64
THN-240A-2-AS	17	26500/-	6800	20	98.5	1.10/2.10	0.05	40/64
THN-240A-2-IS	17	-/27900	7200	20	98.5	1.70/1.10	0.05	40/64
THN-300A-1	35	17200/17900		32	86	1.30/1.30	0.05	40/64
THN-300A-1-AS	35	23700/-	6500	43	86	1.20/2.50	0.05	40/64
THN-300A-1-IS	35	-/25400	7500	43	86	2.00/1.20	0.05	40/64
THN-300A-2	20	30300/31500		32	151	1.30/1.30	0.05	40/64
THN-300A-2-AS	20	40300/-	10000	43	151	1.20/2.50	0.05	40/64
THN-300A-2-IS	20	-/42000	10500	43	151	2.00/1.20	0.05	40/64
THN-380A-1	45	29000/29900		64	145	2.20/2.20	0.05	40/64
THN-380A-1-AS	45	35400/-	6400	75	145	1.90/3.00	0.05	40/64
THN-380A-1-IS	45	-/36400	6500	75	145	4.60/1.90	0.05	40/64
THN-380A-2	26	53900/55600		66	269	2.20/2.20	0.05	40/64
THN-380A-2-AS	26	65800/-	11900	77	269	1.90/3.00	0.05	40/64
THN-380A-2-IS	26	-/67600	12000	77	269	4.60/1.90	0.05	40/64

Recommended accessories



Pneumatic gripper/THT

3-finger centering/T-slot guidance

THT— 40A — 1 — AS/IS

Optional: AS: closing maintenance
IS: opening maintenance

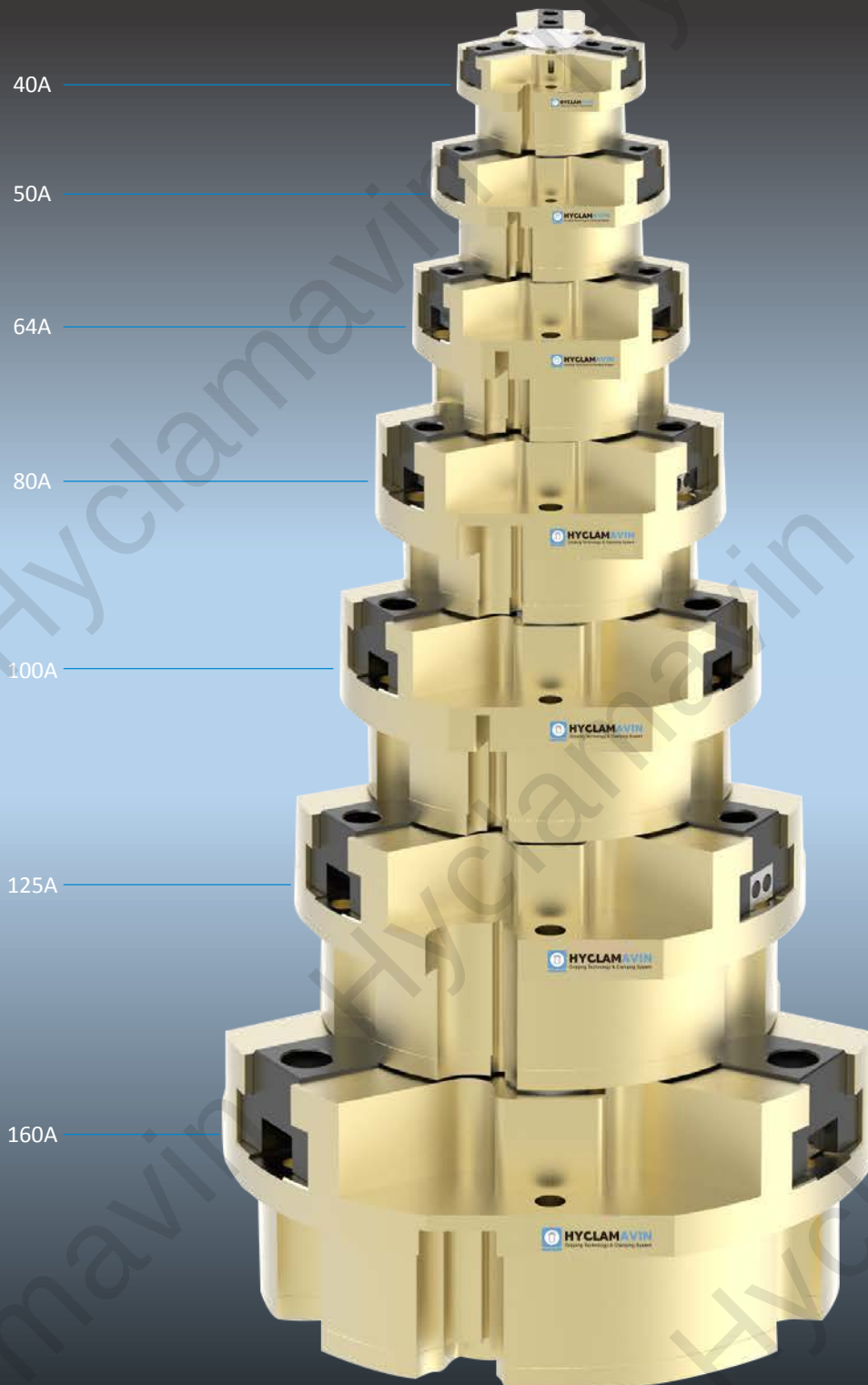
Type number: 1: basic type: long stroke/small load

Model: 40A—160A

Serial number: 3-finger centering/T-slot guidance



Pneumatic gripper/THT
3-finger centering/T-slot guidance



Excellent performance

- The THT grippers adopt high precision, T-slot guidance, which are compact, reliable and cost-effective.

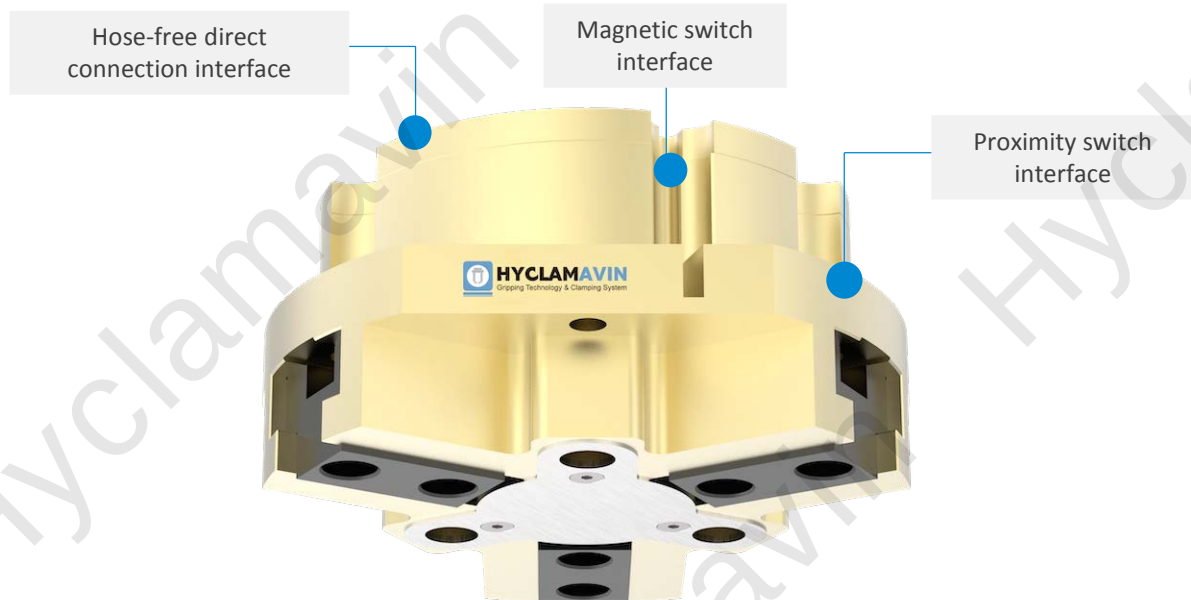


T-slot guidance

- ◆ T-slot guidance, compact and reliable
- ◆ Economical gripper with higher cost performance

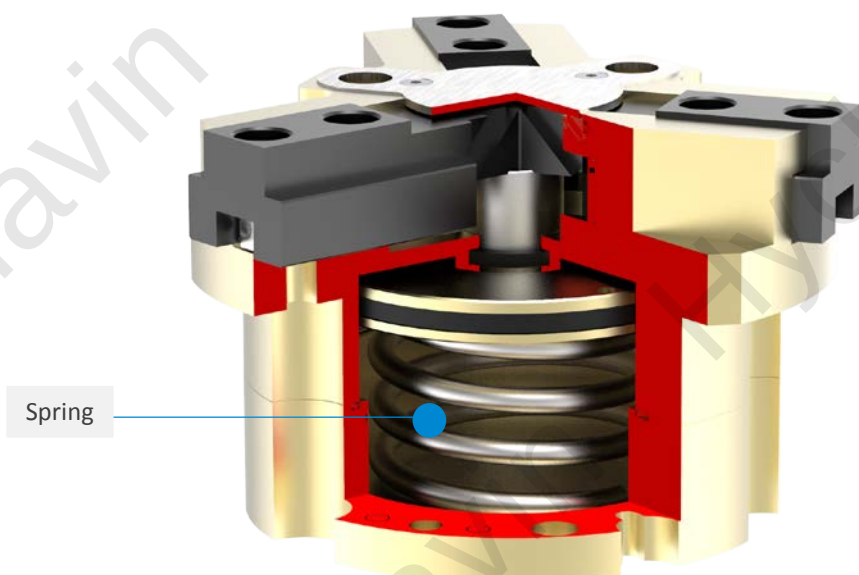
Excellent performance

- The THT grippers have a variety of sensor interfaces and pneumatic interfaces.



Gripping force maintenance-AS/IS

- The THT grippers can be equipped with gripping force maintenance, expanded to THT-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.

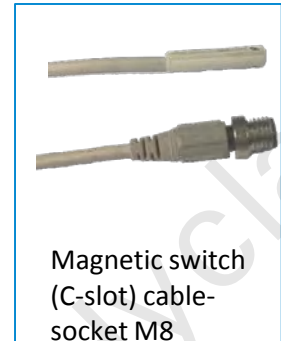
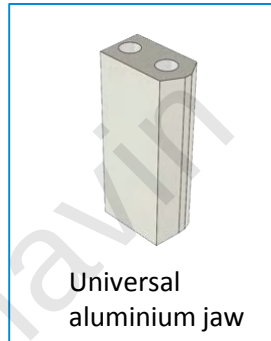
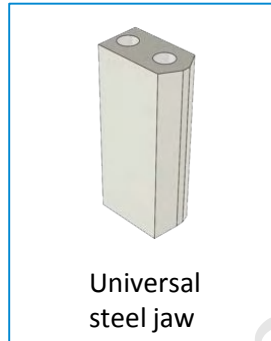


Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
THT-40A-1	2.5	295/325		0.13	1.47	0.03/0.03	0.01	40
THT-40A-1-AS	2.5	395/-	100	0.15	1.47	0.02/0.04	0.01	40
THT-40A-1-IS	2.5	-/425	100	0.15	1.47	0.04/0.02	0.01	40
THT-50A-1	4	385/430		0.24	1.92	0.03/0.03	0.01	40
THT-50A-1-AS	4	505/-	120	0.35	1.92	0.02/0.04	0.01	40
THT-50A-1-IS	4	-/580	150	0.35	1.92	0.04/0.02	0.01	40
THT-64A-1	6	700/750		0.41	3.5	0.03/0.03	0.01	40
THT-64A-1-AS	6	885/-	185	0.54	3.5	0.02/0.04	0.01	40
THT-64A-1-IS	6	-/970	220	0.54	3.5	0.04/0.02	0.01	40
THT-80A-1	8	1250/1400		0.7	6.25	0.05/0.05	0.01	40
THT-80A-1-AS	8	1600/-	350	0.95	6.25	0.03/0.05	0.01	40
THT-80A-1-IS	8	-/1770	370	0.95	6.25	0.06/0.04	0.01	40
THT-100A-1	10	2200/2400		1.4	11	0.10/0.10	0.01	40
THT-100A-1-AS	10	2920/-	720	1.95	11	0.10/0.20	0.01	40
THT-100A-1-IS	10	-/3180	780	1.95	11	0.20/0.10	0.01	40
THT-125A-1	13	3700/4000		2.1	18.5	0.20/0.20	0.01	40
THT-125A-1-AS	13	4750/-	1050	3.3	18.5	0.17/0.35	0.01	40
THT-125A-1-IS	13	-/5070	1070	3.3	18.5	0.35/0.17	0.01	40
THT-135A-1	35	3700/4000		4.9	18.5	1.30/1.30	0.01	40
THT-160A-1	16	5000/5400		4.35	25	0.50/0.50	0.02	40
THT-160A-1-AS	16	6990/-	1990	7.5	25	0.40/0.80	0.02	40
THT-160A-1-IS	16	-/7490	2090	7.5	25	0.80/0.40	0.02	40

Recommended accessories



Pneumatic gripper/THB

3-finger centering/multi-tooth guidance/hollow through

THB— 50A — 1/2 — AS/IS

Optional: AS: closing maintenance
IS: opening maintenance

Type number: 1: basic type: long stroke/small load
2: enhanced type: short stroke/large load

Model : 50A—300A

Serial number: 3-finger centering/multi-tooth/hollow through



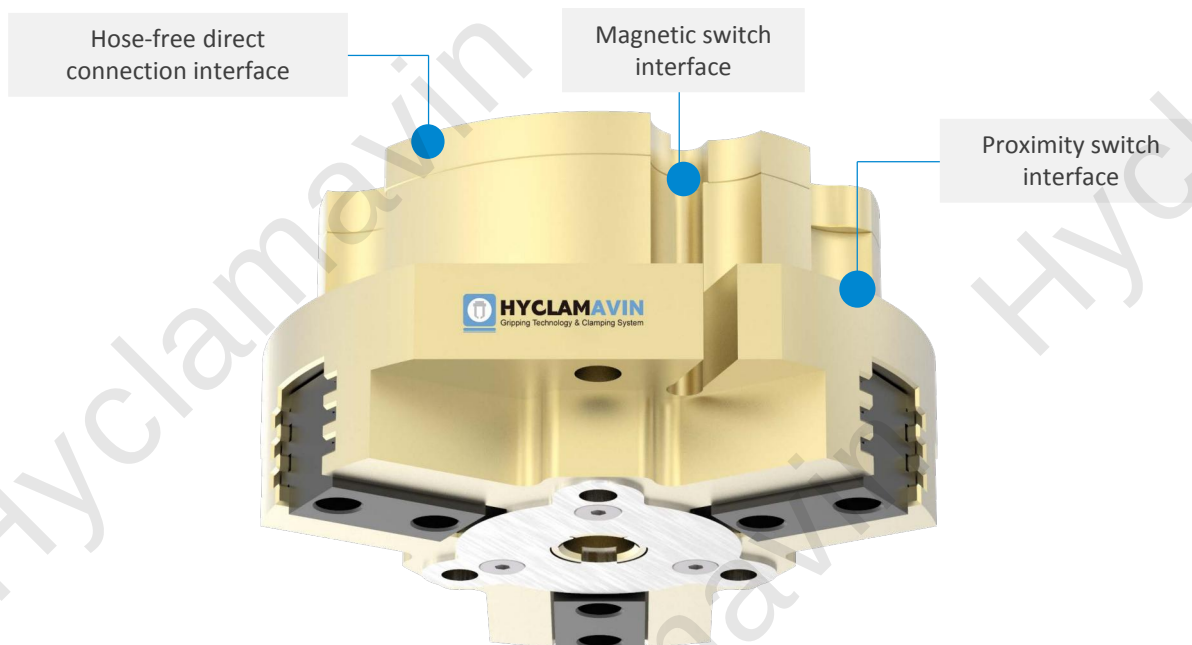
Excellent performance

- The THB grippers adopt high precision, permanent lubrication, multi-tooth and straight groove guidance ;
- The THB grippers have hollow through structure.



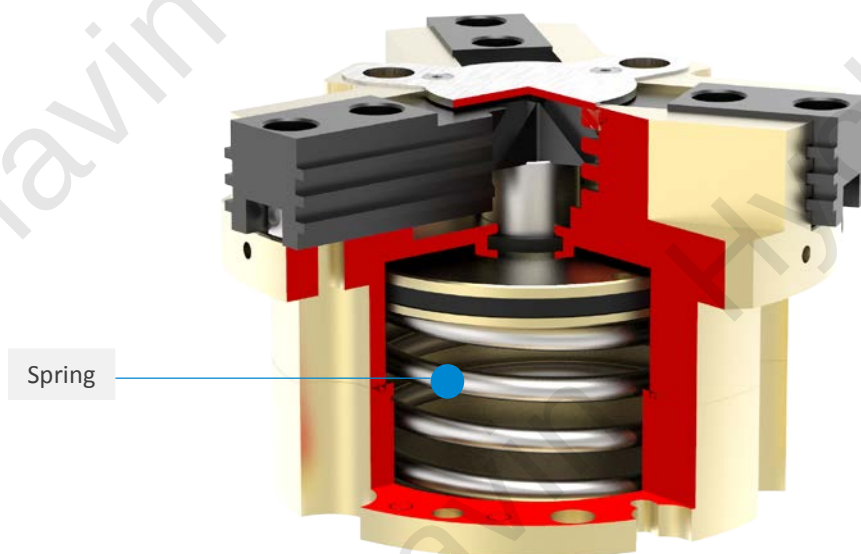
Excellent performance

- The THB grippers have a variety of sensor interfaces and pneumatic interfaces.



Gripping force maintenance-AS/IS

- The THB grippers can be equipped with gripping force maintenance, expanded to THB-AS/IS (AS: closing maintenance, IS: opening maintenance) .
- The spring is used as the holding accumulator, gripping force maintenance ensure a minimum clamping force in the event of a pressure drop.

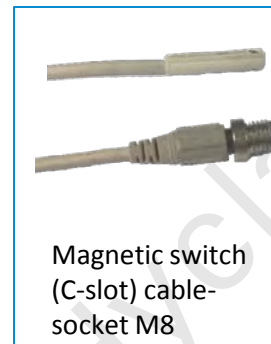
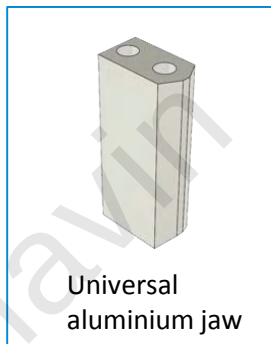
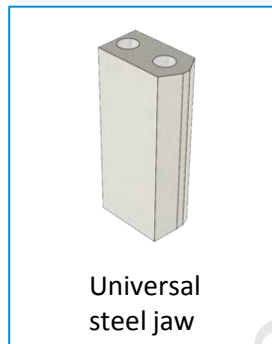


Model and technical parameters

➤ Technical parameters

Model	Stroke per jaw [mm]	Closing/opening force [N]	Min. spring force [N]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time [s]	Repeat accuracy [mm]	Protection class IP
THB-50A-1	2.5	370/400		0.26	1.85	0.03/0.03	0.01	40
THB-50A-1-AS	2.5	490/-	120	0.36	1.85	0.02/0.04	0.01	40
THB-50A-1-IS	2.5	-/540	140	0.36	1.85	0.04/0.02	0.01	40
THB-64A-1	4	550/650		0.5	2.75	0.03/0.03	0.01	40
THB-64A-1-AS	4	680/-	130	0.62	2.75	0.02/0.04	0.01	40
THB-64A-1-IS	4	-/820	170	0.62	2.75	0.04/0.02	0.01	40
THB-64A-2	2	910/930		0.5	4.55	0.03/0.03	0.01	40
THB-64A-2-AS	2	1190/-	280	0.62	4.55	0.02/0.04	0.01	40
THB-64A-2-IS	2	-/1210	280	0.62	4.55	0.04/0.02	0.01	40
THB-80A-1	6	900/1000		0.8	4.5	0.05/0.05	0.01	40
THB-80A-1-AS	6	1120/-	220	1.1	4.5	0.04/0.06	0.01	40
THB-80A-1-IS	6	-/1200	200	1.1	4.5	0.06/0.04	0.01	40
THB-80A-2	3	1370/1520		0.8	6.8	0.05/0.05	0.01	40
THB-80A-2-AS	3	1730/-	360	1.1	6.8	0.04/0.06	0.01	40
THB-80A-2-IS	3	-/1920	400	1.1	6.8	0.06/0.04	0.01	40
THB-100A-1	8	1700/1920		1.45	8.5	0.10/0.10	0.01	40
THB-100A-1-AS	8	2200/-	500	2.2	8.5	0.10/0.20	0.01	40
THB-100A-1-IS	8	-/2600	680	2.2	8.5	0.20/0.10	0.01	40
THB-100A-2	4	3400/3630		1.45	17	0.10/0.10	0.01	40
THB-100A-2-AS	4	4300/-	900	2.2	17	0.10/0.20	0.01	40
THB-100A-2-IS	4	-/5130	1500	2.2	17	0.20/0.10	0.01	40
THB-125A-1	10	3100/3500		2.4	15.5	0.20/0.20	0.01	40
THB-125A-1-AS	10	3750/-	650	3.9	15.5	0.17/0.35	0.01	40
THB-125A-1-IS	10	-/4250	750	3.9	15.5	0.35/0.17	0.01	40
THB-125A-2	5	5400/6100		2.4	27	0.20/0.20	0.01	40
THB-160A-1	13	4600/6000		4.7	23	0.50/0.50	0.02	40
THB-160A-1-AS	13	5400/-	900	7.2	23	0.40/0.80	0.02	40
THB-160A-1-IS	13	-/7500	1500	7.2	23	0.80/0.40	0.02	40
THB-300A-1	35	13000/13800		37	65	1.30/1.30	0.05	40
THB-300A-1-AS	35	17400/-	4400	52	65	1.20/2.50	0.05	40
THB-300A-1-IS	35	-/17400	3600	52	65	2.50/1.20	0.05	40
THB-300A-2	20	22000/23500		37	110	1.30/1.30	0.05	40
THB-300A-2-AS	20	29700/-	7700	52	110	1.20/2.50	0.05	40
THB-300A-2-IS	20	-/29800	6300	52	110	2.50/1.20	0.05	40

Recommended accessories



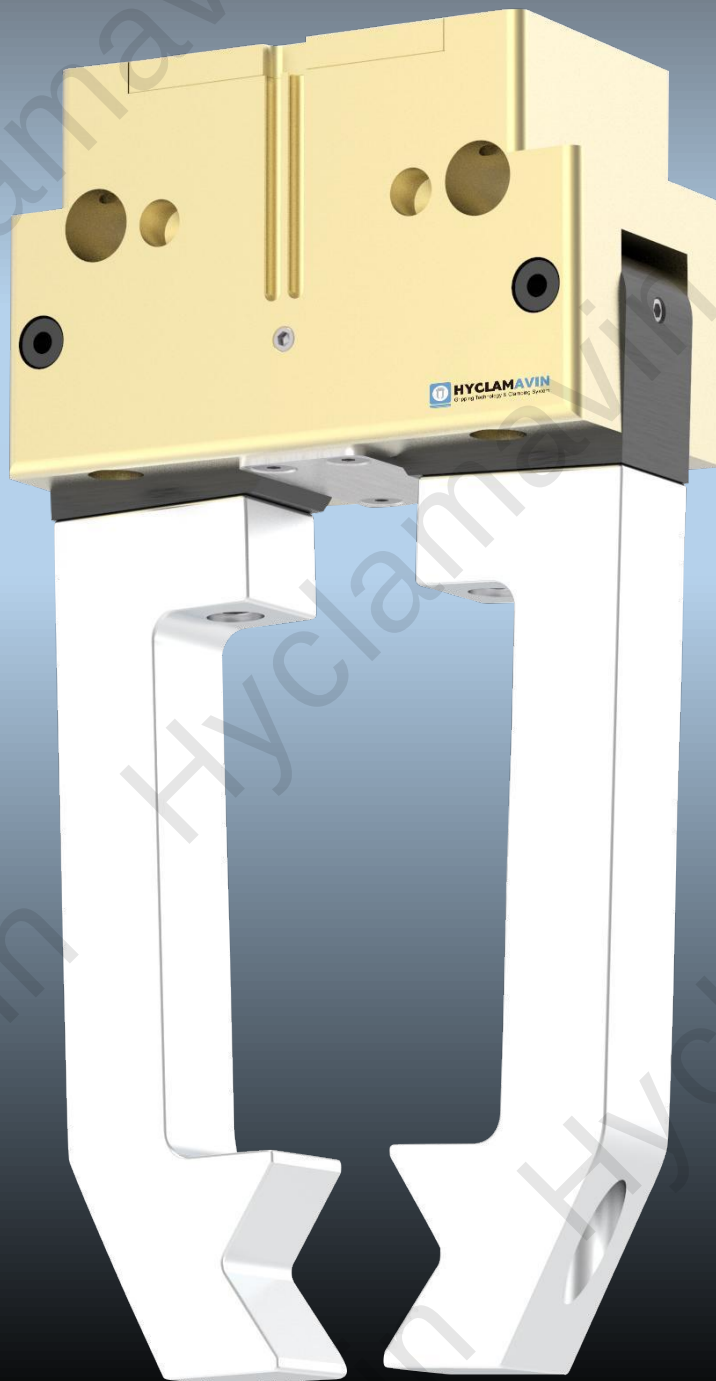
Pneumatic gripper/TAG
2-finger angular gripper

TAG — 50A — AS

Optional: closing maintenance

Model: 50A-240A

Serial number: 2-finger angular gripper



Excellent performance

- The TAG grippers have a variety of sensor interfaces and pneumatic interfaces.



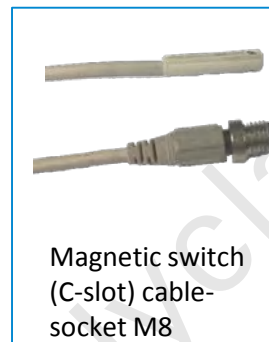
- ◆ Stable gripping force maintenance
- ◆ Optional available for confined spaces and short cycle times
- ◆ Magnetic switch interface
- ◆ Hose-free direct connection interface
- ◆ Reserved interface of proximity switch mounting base

Model and technical parameters

➤ Technical parameters

Model	Opening/closing angle per jaw[°]	Closing moment[Nm]	Closing moment generated by spring[Nm]	Weight [kg]	Recommended workpiece weight [kg]	Closing/opening time[s]	Repeat accuracy [mm]	Protection class IP
TAG-50A	15/3	3.28		0.13	0.4	0.06/0.06	0.02	30
TAG-50A-AS	15/3	4.14	0.86	0.17	0.4	0.06/0.10	0.02	30
TAG-64A	15/3	6.82		0.24	0.65	0.07/0.07	0.02	30
TAG-64A-AS	15/3	9.37	2.55	0.33	0.65	0.07/0.13	0.02	30
TAG-80A	15/3	12.6		0.38	0.97	0.08/0.08	0.02	30
TAG-80A-AS	15/3	16.9	4.3	0.48	0.97	0.08/0.15	0.02	30
TAG-100A	15/3	23.1		0.76	1.4	0.12/0.12	0.02	30
TAG-100A-AS	15/3	31.2	8.1	0.95	1.4	0.12/0.18	0.02	30
TAG-125A	15/3	57.2		1.34	2.78	0.14/0.14	0.02	30
TAG-125A-AS	15/3	72.2	15	1.83	2.78	0.14/0.20	0.02	30
TAG-160A	15/3	100		2.1	3.86	0.16/0.16	0.02	30
TAG-160A-AS	15/3	129	29	3.1	3.86	0.16/0.22	0.02	30
TAG-200A	15/3	252		4.85	8	0.32/0.32	0.02	30
TAG-200A-AS	15/3	318	66	6.95	8	0.25/0.40	0.02	30
TAG-240A	15/3	440		7.7	11.5	0.32/0.32	0.02	30
TAG-240A-AS	15/3	580	140	11.2	11.5	0.3/0.5	0.02	30

Recommended accessories



Quick-Change Tool Changers/full range of quick change



SQC-A

Pneumatic locking



SQC-B

Spring locking



SEM-K19

19 core electrical modules



SEM-K9

9 core electrical modules



SEM-R19

19 core electrical modules



SEM-R26

26 core electrical modules

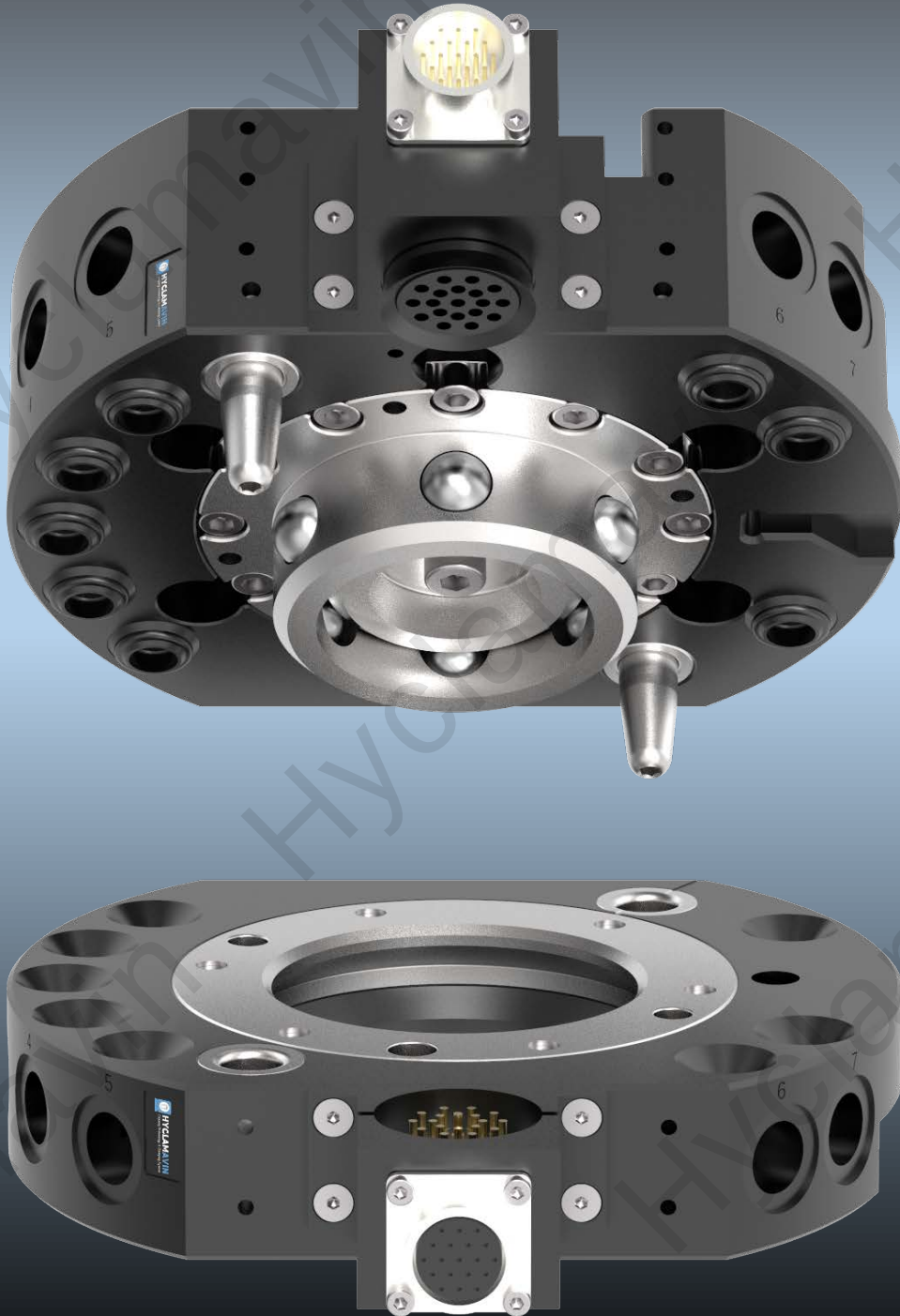
Quick-Change Tool Changers/SQC-A

Pneumatic locking

SQC—1A

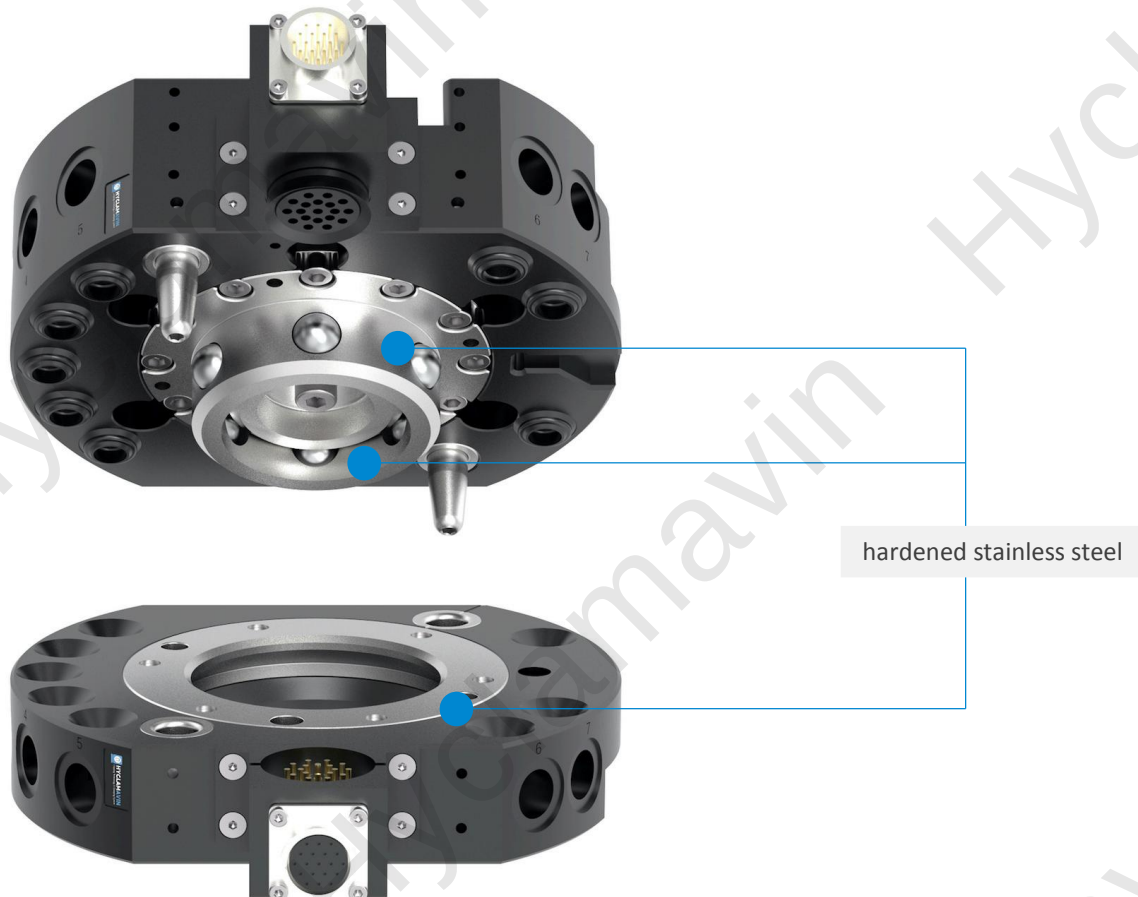
Model : 1A-160A/Pneumatic locking

Serial number : Quick-Change Tool Changers



Excellent performance

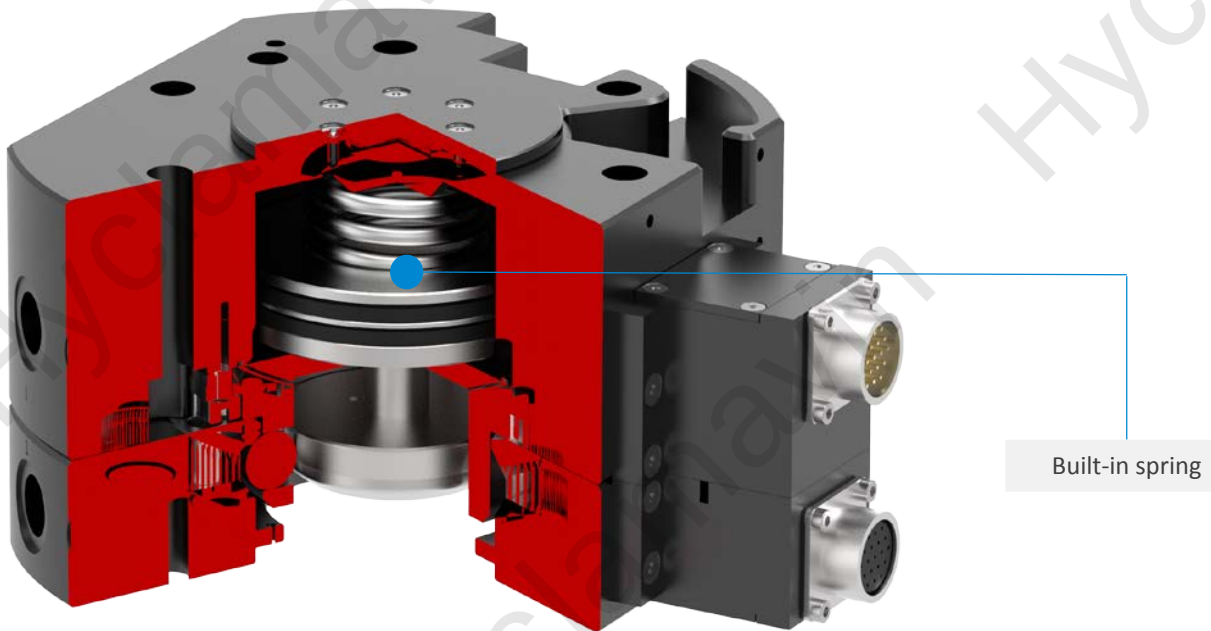
- SQC-A quick-change tool changers change tools automatically, with failure protection mechanism to prevent gas cut-off and falling off.



- ◆ Fail-Safe locking mechanism design results in low force acting on the piston, even if the gas is cut off, the tool plate will not break away
- ◆ A large piston diameter and an outside clamping locking increases the permissible moment capacity
- ◆ All functional components made from hardened stainless steel
- ◆ Manual emergency unlocking possible no counter-forces from springs
- ◆ Tools changed in seconds for maintenance and repair can reduce tool changing time
- ◆ Operator safety increased by changing tools automatically

Optional spring

- SQC-A quick-change tool changers can be equipped with a built-in spring to prevent falling off when the air is cut off and have double insurance.



- ◆ The built-in spring increases the locking force of quick change
- ◆ The built-in spring can prevent the tool plate from falling off when the air is cut off, and has double insurance function with the fail-safe locking mechanism

Model and technical parameters

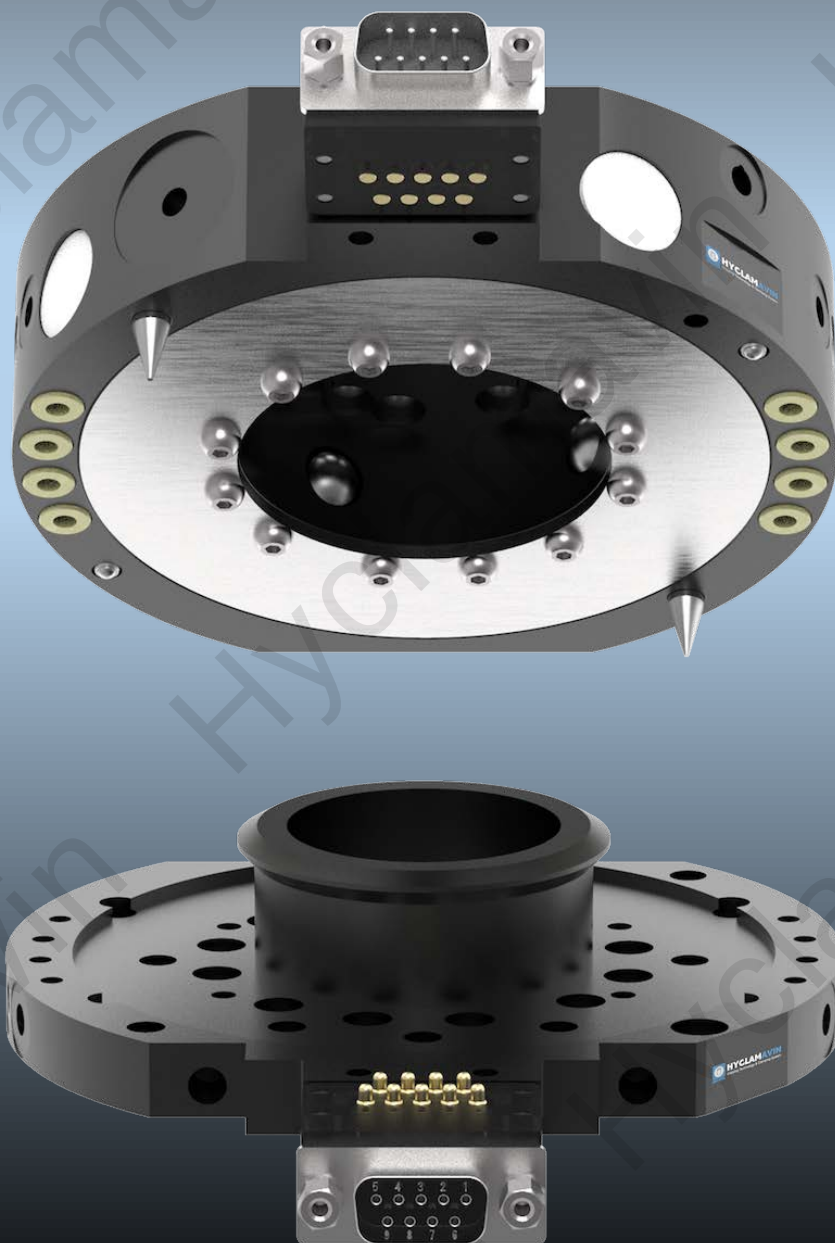
➤ Technical parameters

Model	Recommended handling weight [Kg]	Locking force (5.5bar) [N]	Repeat accuracy [mm]	Master plate weight [kg]	Tool plate weight [kg]	Max. moment My/Mx [Nm]	Max. moment Mz [Nm]	Air connection thread Pneumatic feed-through
SQC-1A	1.4	170	0.01	0.04	0.03	2.75	3.43	4-M5
SQC-5A	8	690	0.02	0.29	0.15	37	50	6-M5
SQC-11A	16	1100	0.02	0.14	0.09	76	105	6-M5
SQC-20A	25	2300	0.02	0.51	0.33	170	218	12-M5
SQC-21A	25	2300	0.02	0.51	0.33	170	229	8-G1/8"
SQC-40A	50	4500	0.02	1.12	0.61	673	673	8-G1/8"
SQC-41A	50	4500	0.02	1.4	0.7	473	649	6-G3/8" 4-G1/8"
SQC-60A	75	7400	0.02	1.3	0.7	586	315	8-G1/8"
SQC-71A	79	8100	0.02	1.86	1.34	1188	840	8-G1/4"
SQC-76A	100	12000	0.02	2.3	1.4	1625	2100	5-G3/8"
SQC-110A	150	12000	0.02	4	2.1	2350	2350	8-G3/8"
SQC-150A	200	16000	0.02	4.85	2.75	4075	1840	10-G3/8"
SQC-160A	300	31000	0.02	6.45	2.9	7165	3810	5-G3/8" 4-G1/2"
SQC-300A	450	35000	0.02	11.86	7.34	9870	8450	10-G3/8"

SQC—15B

Model : 15B-35B/Spring locking

Serial number : Quick-Change Tool Changers



Excellent performance

- SQC-B quick-change tool changers change tools automatically, which are spring locking and do not need air supply after locking



- ◆ The working state (locking state) is in the gas cut-off state, and no need for gas supply, so it is very suitable for the occasions with low switching frequency, energy saving, safety, and no gas cut-off drop risk
- ◆ The housing material is aluminium alloy, and it has lighter weight; The surface is treated with special hardening treatment, which has excellent wear resistance and impact resistance
- ◆ The special ejection spring locking structure does not need continuous air supply after locking, so as to avoid tool plate falling off because of accidental gas breaking
- ◆ All locking parts are made of high strength and high hardness steel
- ◆ Tools changed in seconds for maintenance and repair, can reduce tool changing time
- ◆ Operator safety increased by changing tools automatically

Model and technical parameters

➤ Technical parameters

Model	Recommend ed handling weight [Kg]	Locking force (0bar) [N]	Repeat accuracy [mm]	Master plate weight [kg]	Tool plate weight [kg]	Max. moment My/Mx [Nm]	Max. moment Mz [Nm]	Air connection thread Pneumatic feed- through
SQC-15B	20	1768	0.02	0.9	0.6	51	72	8-M5
SQC-35B	50	3730	0.02	3.2	1.6	155	216	8-G1/8"

Quick-Change Tool Changers/SEM

Electrical modules

SEM — K9— K /A

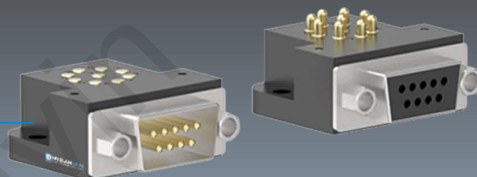
K: robot side/A: tool side

Model : K9/K19/R19/R26, The number represents the number of cores

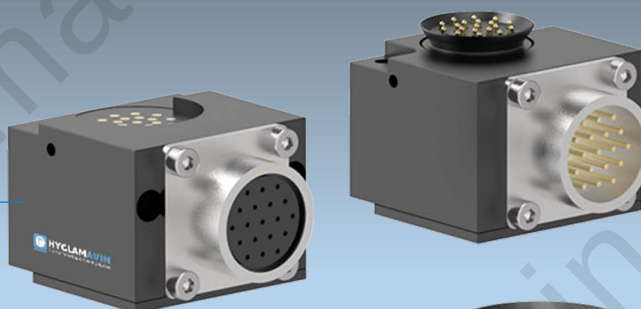
Serial number : electrical modules



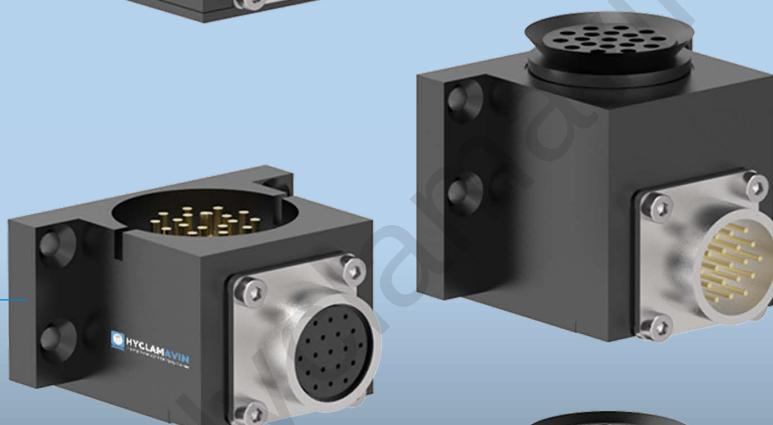
K9



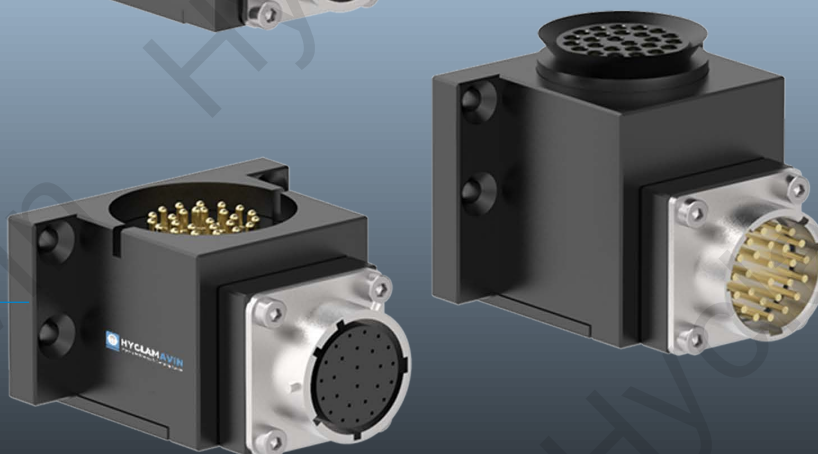
K19



R19



R26



Model and technical parameters

➤ Technical parameters

Model	Number of pin contacts	max. power supply [A]	max. voltage [V]
SEM-K9-K	9	2	24
SEM-K9-A	9	2	24
SEM-K19-K	19	3	50
SEM-K19-A	19	3	50
SEM-R19-K	19	3	50
SEM-R19-A	19	3	50
SEM-R26-K	26	3	50
SEM-R26-A	26	3	50



THT-56B

3-finger inner support gripper



FON-56B

4-finger inner support gripper



FON-125A

4-finger gripper / multi-tooth guidance



THT-100L

4-finger gripper / super long stroke



TWT-80B

2-finger inner support gripper

more



According to customer needs

Customize all kinds of non-standard products

Non standard customization/According to customer needs, Customize all kinds of non-standard products



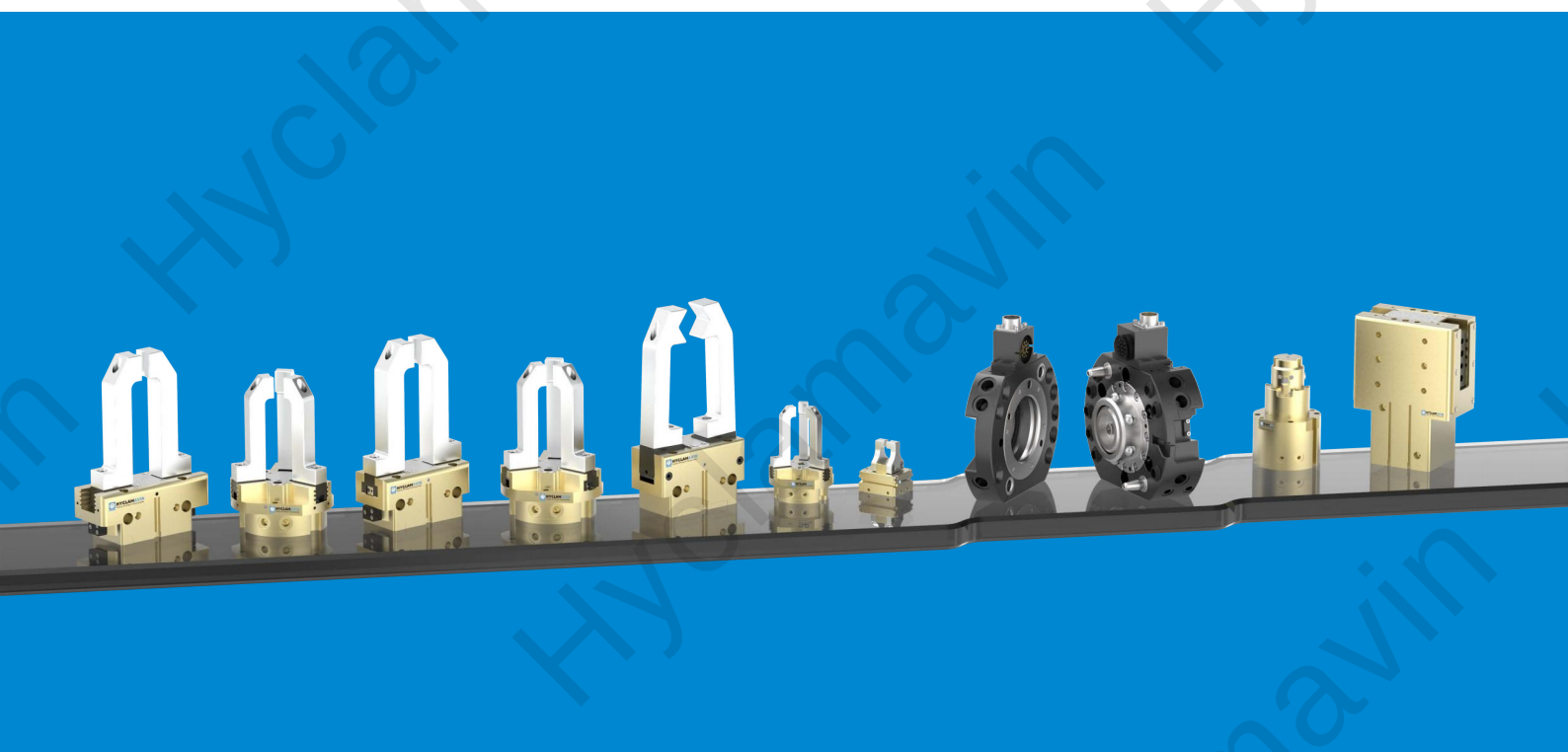


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