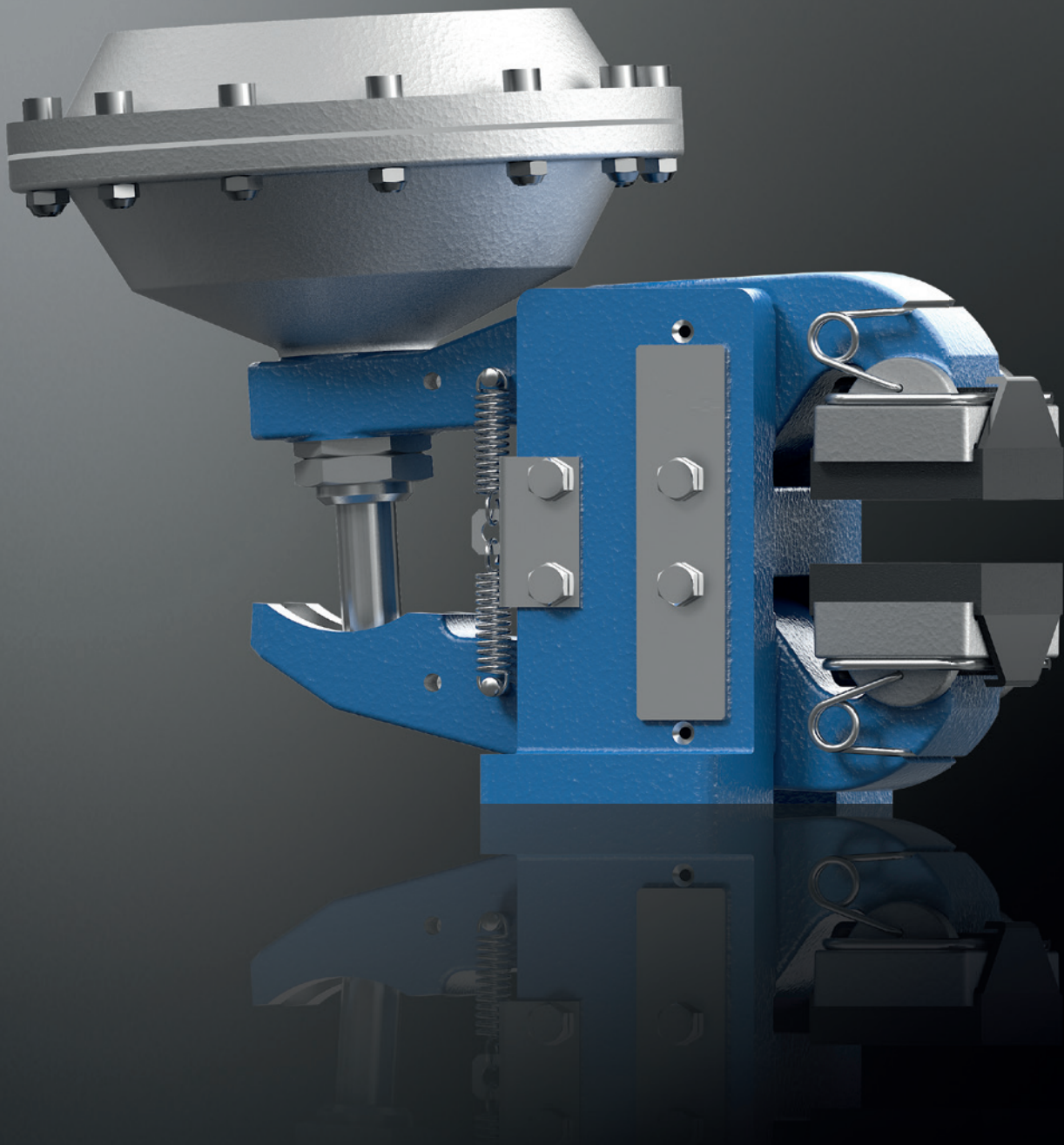


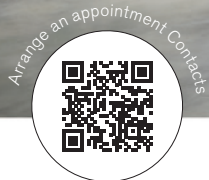
Made for Motion



KTR-STOP® PB

Pneumatic caliper brake

ktr.com



In the middle of the action: the KEC

In September 2023 we opened the "KTR Exhibition Center", in brief KEC, at our headquarters in Rheine. The generously glazed building with a surface of about 750 square metres is to be used in a variety of ways: as an exhibition space for KTR products, for customer and information events, workshops and trainings, but also as a meeting point for the KTR staff providing a kiosk and a terrace. KTR's CEO Nicola Warning: „The KEC is a multifunctional building providing a new platform for digital and analogue communication with customers, staff and stakeholders – whilst giving the staff a fancy meeting point that increases the attractiveness of their work location.“



Corporate Responsibility at KTR

Together for sustainable transformation:

With the new Corporate Responsibility department we meet the growing requirements of the market environment and regulatory specifications: The task of our team made up of HSE, Compliance and ESG officials is to ensure legal compliance (Compliance), strengthen the commitment for environment, social issues and governance (ESG) and improve the standards for health, safety and environment (HSE) in KTR Systems GmbH and its supply chain. Within the framework of reports, certifications, audits and ratings we make our progress measurable and will announce it to the public on our website in the future.

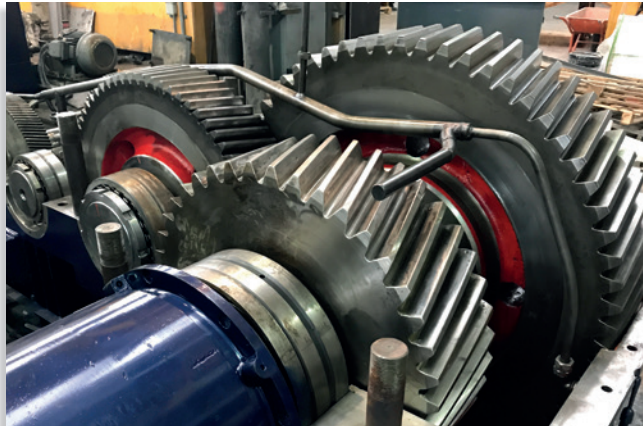
Do you have any questions about the subjects of compliance, occupational safety, environmental protection, carbon footprint, Supply Chain Due Diligence Act or sustainability reporting/CSRD?

Please contact our Corporate Responsibility team at:
responsibility@ktr.com



KTR-STOP® PB PNEUMATIC CALIPER BRAKE

Examples of application



General drive technology



Automation



Packaging machinery



Test bench technology

KTR can also do pneumatically – The KTR-STOP® PB pneumatic caliper brake

We have complemented our portfolio of brakes by a pneumatic caliper brake turning us into one of the few manufacturers worldwide to supply three different brake systems: the hydraulic KTR-STOP®, the electromechanical EMB-STOP and the pneumatic KTR-STOP® PB. The new KTR-STOP® PB series can be used as a service or holding brake on brake disks for industrial applications being operated either as an active or passive brake. It is designed as a construction kit system and available in seven sizes with brake forces up to 31 kN. Main applications are general drive technology, automation, packaging machinery and test bench technology.

Our caliper brakes are made up of each two brake levers and an actuator. Our construction kit system allows to flexibly combine the brake calipers and actuators with each other, the caliper brakes being versatile in use. Depending on the number of brake calipers and the size of brake disk various braking torques can be generated.

If the caliper brake is designed as an active brake, the clamping force is generated applying compressed air on the actuator. The brake is released via the return springs in the actuating element and/or the return springs on the brake caliper as soon as the actuator is depressurized. If the caliper brake is designed as a passive brake, the clamping force is generated by pressure springs in the actuator. The brake is released by applying compressed air on the actuator.

KTR-STOP® PB P-200-Axx-xx

ACTIVE CALIPER BRAKES

Pneumatic brake system

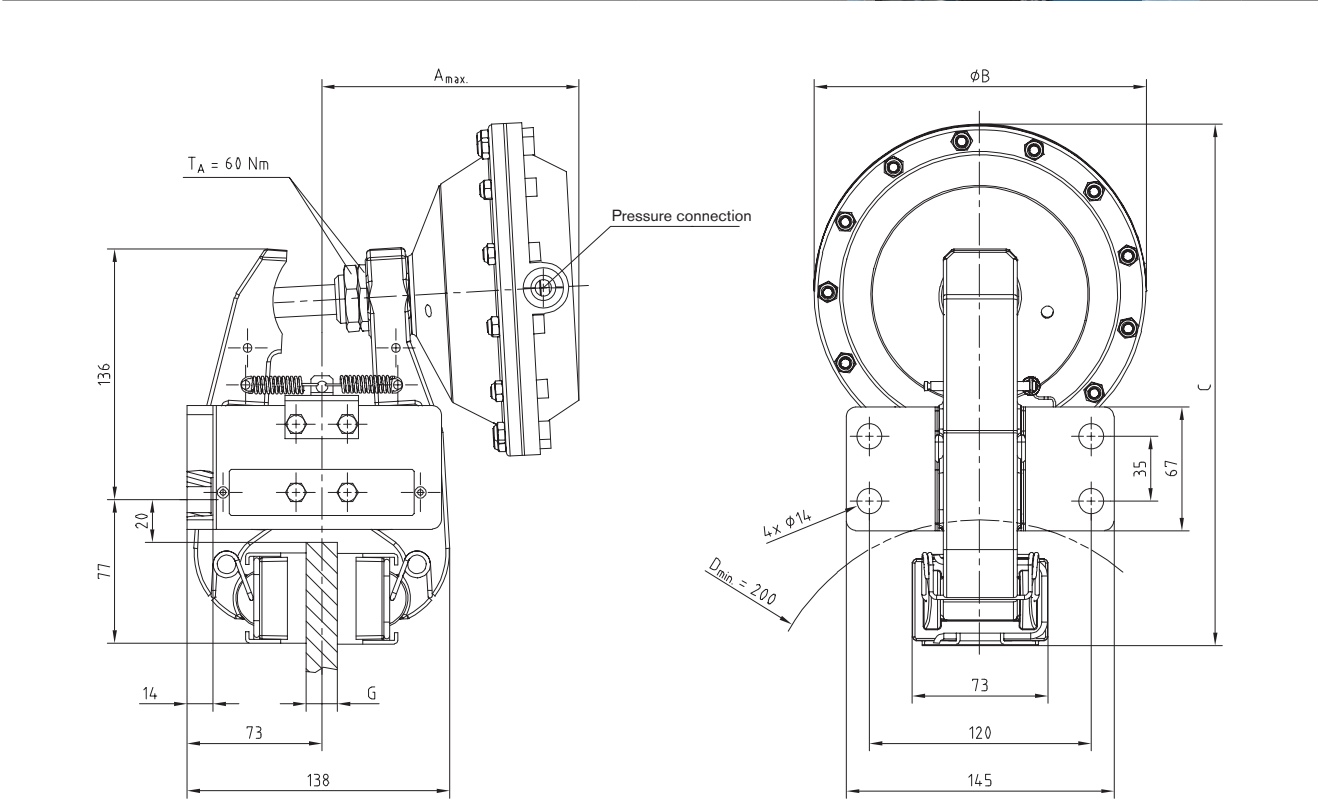
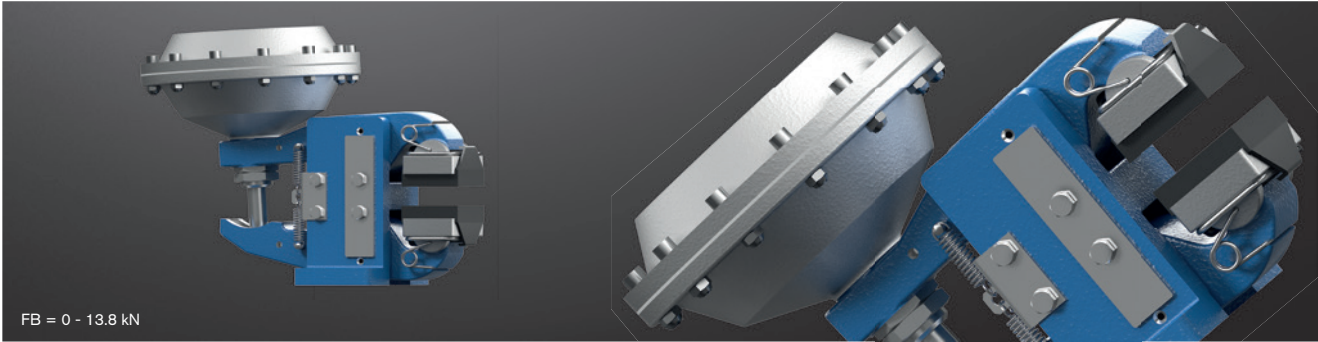


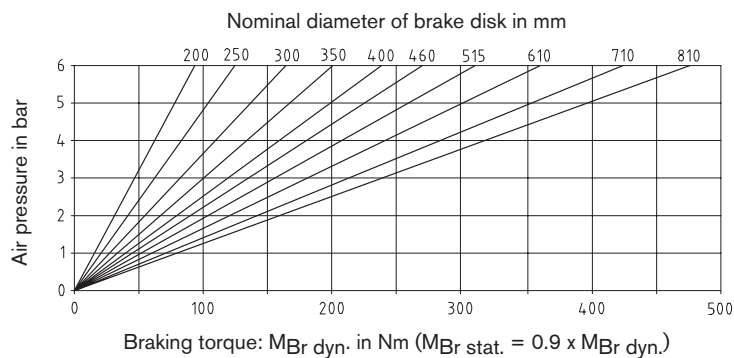
Illustration exemplary. The actuator design may vary depending on the combination.
Horizontal mounting position. Please consult with us in case of deviations.
The standard is a cylinder mounted on the right - for mounting on the flange side please specify in your order.

KTR-STOP® PB P-200-Axx-xx								
KTR-STOP® PB type	A in mm	Ø B in mm	C in mm	V / stroke in dm³	Weight in kg	Pressure connection	Thickness of brake disk G in mm	Operating temperature in °C
P-200-A02-xx	155	97	236	0.07	8.2	G 1/4	12 - 15	-20 to +80
P-200-A03-xx	151	120	248	0.15	8.6			
P-200-A05-xx		144	260	0.30	8.8	G 3/8		
P-200-A07-xx	165	180	278	0.43	9.6			

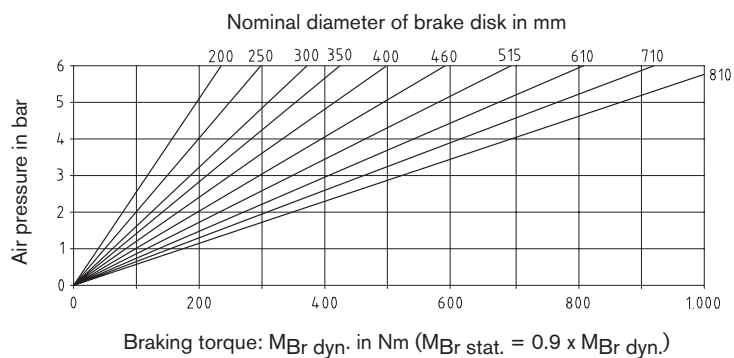
Ordering example:	KTR-STOP® PB	P	-	200	-	A	02	-	12.7
	KTR brake	Pneumatic		Size		Active	Actuator		Thickness of brake disk in mm

Braking torques

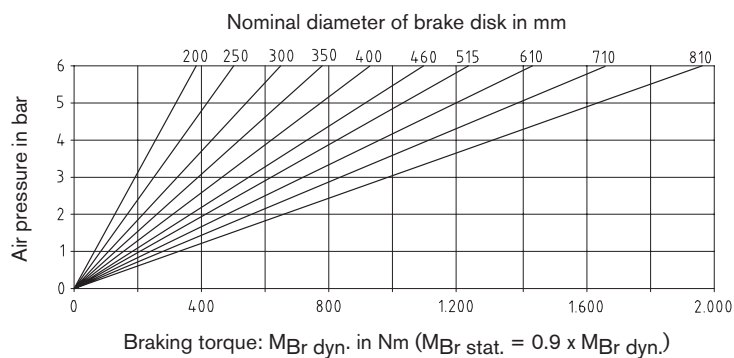
KTR-STOP® PB P-200-A02-xx



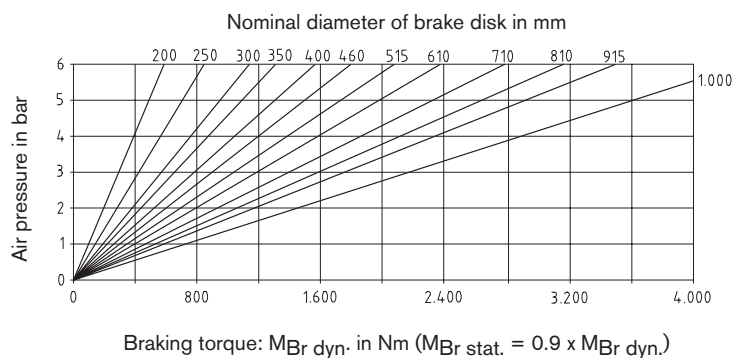
KTR-STOP® PB P-200-A03-xx



KTR-STOP® PB P-200-A05-xx



KTR-STOP® PB P-200-A07-xx



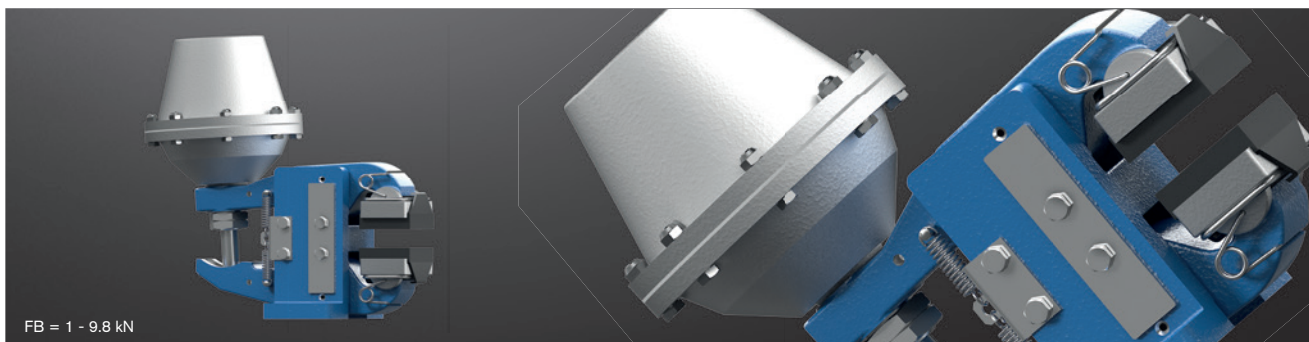
The braking torques specified in the diagrams are based on a theoretical friction coefficient of $\mu = 0.3$.

For other sizes and for continuously updated data refer to www.ktr.com

KTR-STOP® PB P-200-Pxx-xx

PASSIVE CALIPER BRAKES

Pneumatic brake system



KTR-STOP® PB P-200-Pxx-xx												
KTR-STOP® PB type	Pmin in bar	Pmax in bar	Amax. in mm	Ø B in mm	C in mm	Dmax. in mm	E in mm	V / stroke in dm³	Weight in kg	Pressure connection	Thickness of brake disk G in mm	Operating temperature in °C
P-200-P05-xx (100%)	5	10	200	144	81	82.5	260	0.12	10.4	G 3/8	12 - 15	-20 to +80
P-200-P05-xx (66%)	3.3											
P-200-P05-xx (33%)	1.7											
P-200-P06-xx (100%)	5		230	180	110	97.5	278	0.43	11.9			
P-200-P06-xx (66%)	3.3											
P-200-P06-xx (33%)	1.7											

Braking torques of KTR-STOP® P-200-P05-xx											
Spring force	Nominal diameter of brake disk in mm										
	200	250	300	350	400	460	515	610	710	810	915
	Braking torque: M _{Br} dyn. in Nm (M _{Br} stat. = 0.9 x M _{Br} dyn.)										
100%	235	315	390	470	550	645	730	880	1,040	1,195	1,350
66%	155	210	260	310	365	425	480	580	685	790	890
33%	80	105	130	155	180	210	240	290	345	395	445

Braking torques of KTR-STOP® P-200-P06-xx											
Spring force	Nominal diameter of brake disk in mm										
	200	250	300	350	400	460	515	610	710	810	915
	Braking torque: M _{Br} dyn. in Nm (M _{Br} stat. = 0.9 x M _{Br} dyn.)										
100%	415	555	685	825	970	1,135	1,285	1,550	1,830	2,100	2,390
66%	275	365	450	545	640	750	850	1,025	1,210	1,385	1,575
33%	135	185	225	270	320	375	425	510	605	695	790

The braking torques specified in the diagrams are based on a theoretical friction coefficient of $\mu = 0.3$.

Ordering example:	KTR-STOP® PB P - 200 - P 05 - 12.7 - (100%)						
	KTR brake	Pneumatic	Size	Passive	Actuator	Thickness of brake disk in mm	Spring force

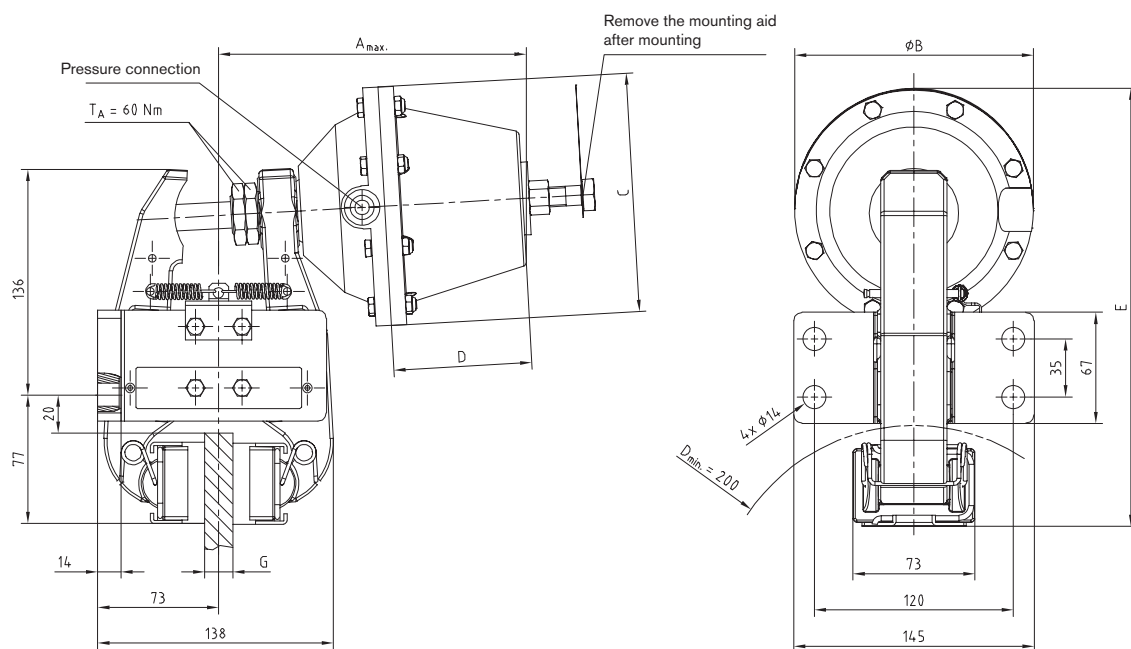


Illustration exemplary. The actuator design may vary depending on the combination.
 Horizontal mounting position. Please consult with us in case of deviations.
 The standard is a cylinder mounted on the right - for mounting on the flange side please specify in your order.

NOTES

NOTES

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