



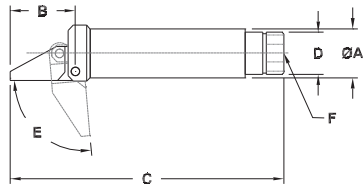
PART/SPRUE GRIPPERS, FINGERS AND LOCATORS

GRF... Gripper Finger (Spring Return)

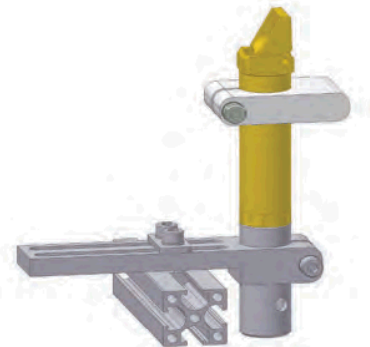
GRF... Greiffinger (doppelt wirkend)
GRF... フィンガーアタッチメント(スプリングリターン方式)



GRF-95



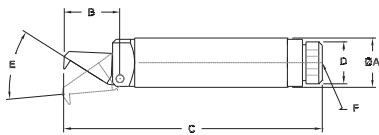
- Our popular gripper finger solution to secure difficult parts
- Normally is protected and located with our ZTS and backed-up with the ANF finger guide.
- Pneumatically single acting, spring return function
- Extendable for longer reach using VLR Arm Extensions
- Fully compatible with SAS's modular EOAT gripper system



	A	B	C	D	E (Degrees)	F	Force (N)	Weight (g)	Price
GRF 14-95	14	19	77	M12 x 1	95	M5	16	30	\$170.00
GRF 20-95	20	20	95	M17 x 1	95	G 1/8"	42	61	\$246.29
GRF 30-95	30	29	137	M27 x 1	95	G 1/8"	120	204	\$261.49



GRF-35

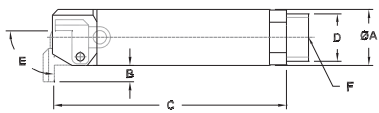


- Finger claw that securely flips & reaches around the part
- Especially designed for difficult part-removal applications
- Pneumatically single acting, spring return function
- Extendable for longer reach using VLR Arm Extensions
- Fully compatible with SAS's modular EOAT gripper system

	A	B	C	D	E (Degrees)	F	Force (N)	Weight (g)	Price
GRF 14-35	14	18.5	84	M12 x 1	35	G 1/8"	25	30	\$135.00
GRF 20-35	20	23	105	M17 x 1	35	G 1/8"	55	102	\$239.00
GRF 30-35	30	34	142	M27 x 1	35	G 1/8"	190	207	\$269.00



GRF-90

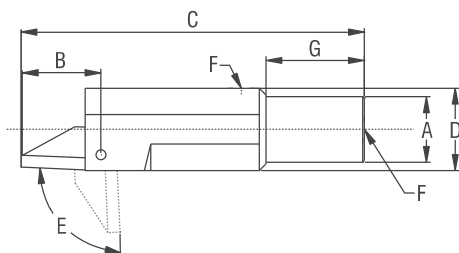


- Specially designed to flip and secure thin edges
- Normally is backed-up with our ANS finger guide
- Pneumatically single acting, spring return function
- Extendable for longer reach using VLR Arm Extensions
- Fully compatible with SAS's modular EOAT gripper system

	A	B	C	D	E (Degrees)	F	Force (N)	Weight (g)	Price
GRF 14-90	14	5	72	M12 x 1	90	M5	20	28	\$154.12
GRF 20-90	20	7	83	M17 x 1	90	G 1/8"	95	58	\$275.75
GRF 30-90	30	11	124	M27 x 1	90	G 1/8"	220	205	\$278.00

GRF...-D Gripper Finger (Double Acting)

GRF...-D Greiffinger (doppelt wirkend)
GRF...-D フィンガーアタッチメント(スプリングリターン方式)



- Pneumatically Double acting versions of our GRF 20-95, GRF 20-90, and GRF 20-35
- GRF 20-95 D secures difficult parts
- GRF 20-35 D finger claw flips and securely reaches around part
- GRF 20-90 D is specially designed to flip and secure thin edges
- Fully compatible with SAS's modular gripper system

	A	B	C	D	E (Degrees)	F	G	Weight (g)	Price
GRF 20-35 D	20	20	104	25	35	M5	30	102	\$195.00
GRF 20-90 D	20	11	92	25	90	M5	30	94	\$197.50
GRF 20-95 D	20	23	104	25	95	M5	30	97	\$220.00



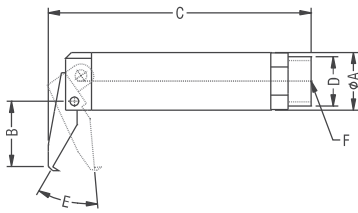
GRW... Gripper Finger (Spring Return)

GRW... Greiffinger (einfach wirkend)
GRW... フィンガーアタッチメント(スプリングリターン方式)



*Buy with confidence.
Find a lower price?
We'll match that price on
the spot. It's that simple.*

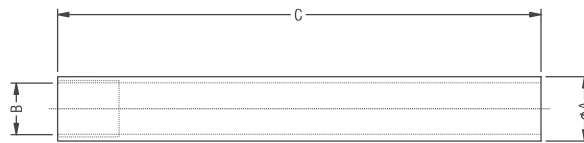
- Finger claw that flips and grips securely around the part
- Especially designed for difficult part-removal applications
- Pneumatically single acting, spring return function
- Extendable for longer reach using VLR Arm Extensions
- Fully compatible with SAS's modular EOAT gripper system



	A	B	C	D	E (Degrees)	F	Force (N)	Weight (g)	Price
GRW 20-35	20	20	85	M17 x 1	35	G 1/8"	50	62	\$259.00
GRW 30-35	30	34	123	M27 x 1	35	G 1/8"	160	203	\$269.00

VLR... Arm Extension

VLR... Verlängerungsrohr
VLR... フィンガー延長部品



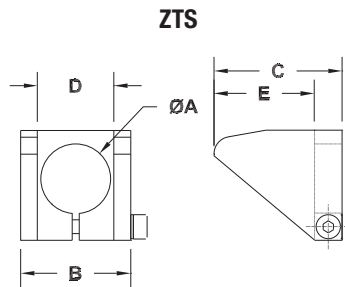
	A	B	C	Weight (g)	Price
VLR 10-90	10	M8 x 1	90	9	\$6.75
VLR 14-120	14	M12 x 1	120	19	\$6.75
VLR 20-150	20	M17 x 1	150	46	\$8.75
VLR 30-200	30	M27 x 1	200	94	\$14.00

- Extends GRF and GRW gripper fingers
- Attaches to ADZ and ADG cylinder adapters and to ZTB locators
- Tightening hole for securing connection to mating parts



ZTS/ANS/ANF... Delrin Finger Accessories

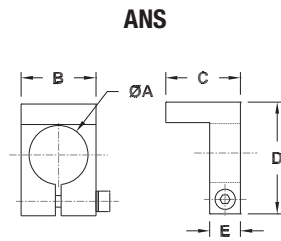
ZTS/ANS/ANF... Zentrierstück/Anschlagstück
ZTS/ANS/ANF...フィンガー アクセサリー



- Aligns part to finger
- Protects both part and finger
- Sensored Version (C-Type) detects actuation of finger

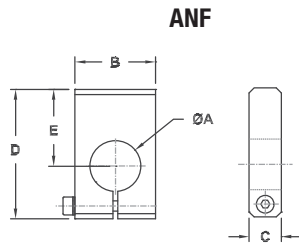
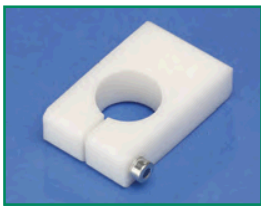
	A	B	C	D	E	Gripper Finger	Weight (g)	Price
ZTS 14	14	25	35	17	27	GRF 14-95	13	\$22.45
ZTS 20-95	20	32	37	22	29	GRF 20-95	21	\$24.55
ZTS 20-95 C*	20	32	37	22	29	GRF 20-95	65	\$59.95
ZTS 30-95	30	45	65	32	53	GRF 30-95	84	\$53.05

* See "Sensors, Connectors, and Accessories" section for sensor specifications and offerings.



- Used with GRF...-90 to back up the finger for a firm mechanical grip
- Made of delrin to protect part

	A	B	C	D	E	Gripper Finger	Weight (g)	Price
ANS 14	14	19	23	31	10	GRF 14-95	10	\$23.10
ANS 20	20	25	25	38	10	GRF 20-90	17	\$25.25
ANS 20 D	25	32	25	47	10	GRF 20-90 D	24	\$25.25
ANS 30	30	38	38	57	11	GRF 30-90	30	\$29.00

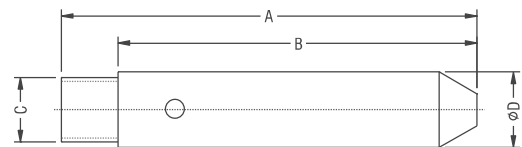


- Used as a finger backup and locator
- Made of delrin to protect part

	A	B	C	D	E	Gripper Finger	Weight (g)	Price
ANF 14	14	22	10	42	25	GRF 14-95	13	\$31.00
ANF 20	20	32	13	51	30	GRF 20-95 / GRW 20-35	26	\$35.00
ANF 30	30	38	19	66	42	GRF 30-95 / GRW 30-35	52	\$39.75

ZTB... Delrin Locator Pin

ZTB... Zentrierbolzen
ZTB...デルリン位置決めピン



- Aligns and locates EOAT to parts
- Clamps directly into standard mounting clamps and mates to VLR Arm Extensions
- Tightening hole for secure connection to VLR's

	A	B	C	D	Extension	Weight (g)	Price
ZTB 10	50	40	M8 x 1	10	VLR 10-L	4	\$19.00
ZTB 14	110	95	M12 x 1	14	VLR 14-L	19	\$20.00
ZTB 20	110	95	M17 x 1	20	VLR 20-L	44	\$21.00
ZTB 30	100	85	M27 x 1	30	VLR 30-L	91	\$24.00