

Innovation > Perfection > Reliability



**Fixed Rake Angle
Hydraulic Shears**

Trimans™

Trimans™ FIXED RAKE ANGLE HYDRAULIC SHEARS



Fixed Rake Angle Hydraulic Shear

Cap.: 3.15 mm x 1500 mm

Model: FR-315



Rear View of Fixed Rake Angle Hydraulic Shear

Model: FR-315

Standard Accessories:

- Main drive motor.
- Electrical control panel mounted on side frame.
- Movable foot switch to operate shear from convenient position.
- Manual back gauge.
- Cutting length adjustment device.
- Lever operated blade clearance arrangement calibrated in mm on both sides.*
- Hold-down cylinders to prevent slippage of sheet.*
- Precision left squaring arm Range-600 mm.
- Two front sheet supports.
- Four edge HCHCr blade mounted on machine. (Not covered under warranty Subject to wear and tear).
- Hardened transfer bars on table for easy handling of sheets.*
- Finger guard.*
- Comprehensive instruction & maintenance manual.

Optional Accessories:

- Motorized back gauge with DRO.
- NC back gauge with lead screw.
- Pads on hold-downs to avoid marks on soft sheet.
- Longer back gauge of 1000 mm range.
- Ball Transfer.
- Back gauge with automatic contact shearing.
- Rear sheet support mechanism (R.S.S.M.).*
- First fill of hydraulic oil.
- Photo-electric finger safety guards.
- Cut to length shears.
- High speed shears.

* Not available on 2 mm shears.



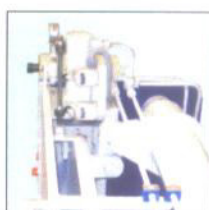
Motorized back gauge with lead screw (optional)



HENGSTLER DRO for motorised B.G. (optional)



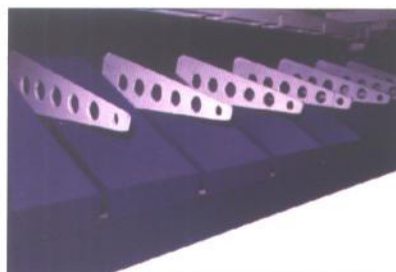
Ball transfer (optional)



cylinder synchronization by torque tube



Hold down cylinders



Rear sheet support mechanism (optional)



Messing display for NC B.G. (optional)

TECHNICAL SPECIFICATIONS

METRIC TECHNICAL SPECIFICATIONS FOR TRIMMINS™ FIXED RAKE ANGLE HYDRAULIC SHEARS (EUROPE & ASIA)

TRIMMINS MODEL	CUTTING CAPACITY-THICKNESS		CUTTING LENGTH mm	FIXED RAKE ANGLE degree	STROKES PER MINUTE no.	HOLD DOWNS unit	B.G. RANGE mm	MOTOR (kw) hp	OVER ALL DIMENSIONS			WEIGHT Aprx. Kg.
	M.S. UTS-45 kg/mm ²	S.S. UTS-72 kg/mm ²							LENGTH mm	WIDTH mm	HEIGHT mm	
FR 215	2	1.6	1500	1.25	25	SPRING LOADED	600	(1.5) 2	2000	1800	1500	1500
FR 220	2	1.6	2000	1.25	24	HYDRO PNEUMATIC	600	(2.2) 3	2600	2000	1700	2100
FR 225	2	1.6	2500	1.25	22	HYDRO PNEUMATIC	600	(2.2) 3	3200	2200	1900	2500
FR 315	3.15	2.5	1500	1.5	14	9	600	(2.2) 3	2200	2100	1750	2200
FR 320	3.15	2.5	2000	1.5	18	11	600	(3.7) 5	2600	2200	1850	3000
FR 325	3.15	2.5	2500	1.5	14	13	600	(3.7) 5	3350	2350	2000	4000
FR 330	3.15	2.5	3000	1.5	10	16	600	(3.7) 5	3700	2400	2200	4500
FR 415	4	3.15	1500	1.6	20	9	600	(5.5) 7.5	2100	2050	2000	3400
FR 615	6	4	1500	1.75	13	9	600	(7.5) 10	2400	2100	2200	3600
FR 815	8	6	1500	2.2	9	9	600	(7.5) 10	2500	2250	2300	4000
FR 1015	10	8	1500	2.2	6	9	600	(7.5) 10	2500	2300	2400	5500

IMPERIAL TECHNICAL SPECIFICATIONS FOR TRIMMINS™ FIXED RAKE ANGLE HYDRAULIC SHEARS (U.S.A. & CANADA)

TRIMMINS MODEL	CUTTING CAPACITY-THICKNESS		CUTTING LENGTH inch	FIXED RAKE ANGLE degree	STROKES PER MINUTE no.	HOLD DOWNS unit	B.G. RANGE inch	MOTOR (kw) hp	OVER ALL DIMENSIONS			WEIGHT Aprx. lb.
	M.S. UTS-65 kpsi	S.S. UTS-105 kpsi							LENGTH inch	WIDTH inch	HEIGHT inch	
FR 215	5/64 (0.078)	1/16 (0.062)	60	1.25	25	SPRING LOADED	24	(1.5) 2	79	71	59	3300
FR 220	5/64 (0.078)	1/16 (0.062)	80	1.25	24	HYDRO PNEUMATIC	24	(2.2) 3	102	79	67	4600
FR 225	5/64 (0.078)	1/16 (0.062)	99	1.25	22	HYDRO PNEUMATIC	24	(2.2) 3	126	87	75	5500
FR 315	1/8 (0.125)	3/32 (0.093)	60	1.5	14	9	24	(2.2) 3	87	83	69	4800
FR 320	1/8 (0.125)	3/32 (0.093)	80	1.5	18	11	24	(3.7) 5	102	87	73	6600
FR 325	1/8 (0.125)	3/32 (0.093)	99	1.5	14	13	24	(3.7) 5	132	93	79	8800
FR 330	1/8 (0.125)	3/32 (0.093)	120	1.5	10	16	24	(3.7) 5	146	95	87	9900
FR 415	5/32 (0.156)	1/8 (0.125)	60	1.6	20	9	24	(5.5) 7.5	83	81	79	7500
FR 615	1/4 (0.25)	5/32 (0.156)	60	1.75	13	9	24	(7.5) 10	95	83	87	7900
FR 815	5/16 (0.312)	1/4 (0.25)	60	2.2	9	9	24	(7.5) 10	98	89	91	8800
FR 1015	3/8 (0.375)	5/16 (0.312)	60	2.2	6	9	24	(7.5) 10	98	91	95	12000

Other Products



Conventional Hydraulic Press Brakes
Range : 20 MT.x 1500 MM
to 500 MT. x 5000MM

NC Hydraulic Press Brakes
Range : 30 MT. x 2000 MM.
to 500 MT. x 5000 MM.



CNC Synchro Hydraulic Press Brakes
Range : 60 MT. x 1500 MM
to 500 MT. x 5000 MM

Fix Rake Angle Hydraulic Shear
Range : 2 MM. x 1500 MM
to 10 MM. x 1500 MM



Extra Edge Hydraulic Shear
Range : 20 MM. x 3000 MM
to 32 MM. x 5000 MM

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17, Changodar Industrial Estate, Sarkhej-Bawla Highway,
Town Changodar - 382210 Ta. Sanand,
Dist. : Ahmedabad (Gujarat) India.
Phone : +91 - 2717 - 250963 / 250964 Fax : +91 - 2717 - 250310
E-mail : info@nugenindia.com Web Site : www.nugenindia.com

Trimans™



Nugen Machineries Ltd. based near Ahmedabad, India, is an ISO 9001:2000 certified manufacturer of Hydraulic Press Brakes and Hydraulic Shears. Nugen specializes in the manufacture of conventional, NC, CNC, Press Brakes and Shears for bending and shearing of plates in thin and heavy gauge. Nugen has large user base supported by a sound network of agents and representatives within India & abroad. Nugen has exported machines to over 18 countries. Nugen takes pride on being at the forefront of the sheet metal working technology, a position in intends to maintain and strengthen.



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