

EXPERTISE IN FASTENERS RELATED MACHINERY

TOOLING
MACHINE SPARE PARTS



TURNKEY SOLUTION BUILT TO MEET THE SPECIFIC NEEDS



QUALITY
RELIABLE
AFFORDABLE

INDEX

WIRE COIL HANDLING

Pit Type Annealing Furnace	04
Handstand Type Wire Drawing Machine	05
Pointing Machine	05

FORMING

3/4/5 Station Bolt Former	06
5/6 Station Nut Former	12
6 Station Long Stroke Nut Former	14
5/6 Station Bolt/Nut Parts Former	16
Automatic Cutting & Flattening Forging Press	20
Servo Motor Drive Press	21

THREADING

Automatic Thread Rolling Machine	22
Hydraulic Thru Feed Circular Rolling Machine	23
Reciprocating Type Tapping Machine	24
Nut Tapping Machine	25
Flange Nut Tapping Machine	26

HEAT TREATMENT & PLATING

Continuous Heat Treatment Furnace- Electrical Type	27
Continuous Heat Treatment Furnace-Gas Type	28
Continuous Heat Treatment Furnace-Hybrid Type	29
Electric Plating Machine	30

PACKING

General Packing Machine	31
-------------------------	----

SUBSIDIARY MACHINERY

Glass Optical Sorting Machine	32
Electric Discharge Machine ZNC Type	33
Die Tightening Machine	34
Hydraulic Die Insert Machine	34
Nut / Special Parts Oil Degreasing Machine	35
Centrifugal Oil Cleaning Machine	36
Horizontal Type Wire Straightener	37
Nylon Nut Assembly Machine	37
NC Internal Grinding Machine	38
External Grinding Machine	39
Wire – Cutting EDM	40
Special Purpose Machine	41

TOOLING & MACHINE SPARE PARTS

Tooling & Machine Spare Parts	42
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ABOUT

ONY provides a full line service of fasteners manufacturing equipment and tooling technologies by integrating its resources and capabilities of quality, knowledge, innovation, to its customers worldwide. From the material, forming, tapping, threading, heat treatment, surface treatment, sorting to the final packing process, ONY comes up with the suitable solution in each process with the best quality machinery with affordable price that enable its customers to maximize production value and have the best return on investment.

ONY's mission is to bring extraordinary value to its customers with its principle "Quality, Reliable, Affordable".

TURNKEY SOLUTION BUILT TO MEET THE SPECIFIC NEEDS

From planning to production.

ONY provides a one source solution to the individual production needs. ONY's engineers will develop a turnkey process based on the specifications. Not only offer the suitable machinery solution itself, but also give the best support and service for the advanced tooling technologies. The results will allow its customers to complete jobs in an optimal and economical way. Work with ONY and you will be amazed at the possibilities.

Wire Annealing

Pickling & Phosphating

Wire Drawing

Forming

Secondary Operation

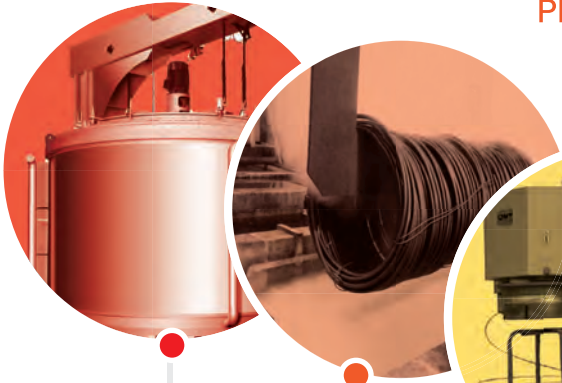
Threading

Tapping

Heat Treatment

Surface Treatment

Packing



Pit Type Annealing Furnace



Pit-type annealing furnace has a cylindrical housing welded with angle steel and steel plate. Inside housing, the pit-type furnace is made of light fire bricks. After work pieces that are to be heated are put into charging basket, they will be sent in or taken out through workshop hoisting equipment. Electrical equipments adopt controllable silicon, carrying out PID regulation and control by program control. It is suitable for the annealing of wire rod linear materials, copper pieces, stainless steel, and steel belt. Rush into nitrogen under vacuum state for annealing, non-nitriding, and non-decarburization, so as to make work pieces keep bright after annealing.

PURPOSE

- Provide annealing heat treatment for all kinds of steels at rated temperature.
- Annealing and tempering work after heat treatment quenching.
- Eliminate the stress of all kinds of steels or non-iron materials.

EQUIPMENT INTRODUCTION

- Movable-type furnace cover, equipped with PLC control system; excellent operability and accuracy.
- Welded by shaped steel and steel plate; bottom is made of high-alumina bricks; height and weight resistance.
- Furnace cover adopts guide rail combined move mode; go up and down by air pressure or oil pressure; good stability.
- Electronic type temperature control recorder; can observe and read history records, and make best monitoring at any time. Automatic control system and Human-Machine Management Interface; make management become more efficient.

* This pit type annealing furnace is customized basis, the specification is according to customer's requirements.

Handstand Type Wire Drawing Machine



DESCRIPTION

MODEL	INLET (mm)
HWD-600	Ø4mm - Ø7mm
HWD-800	Ø7mm - Ø12mm
HWD-1000	Ø12mm - Ø18mm
HWD-1200	Ø18mm - Ø25mm
HWD-1500	Ø25mm - Ø32mm
HWD-1600	Ø28mm - Ø36mm

Pointing Machine

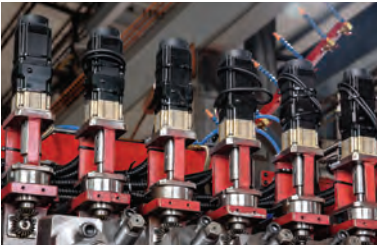
DESCRIPTION

MODEL	INLET (mm)
PM-12	Ø5.5mm - Ø12mm
PM-14	Ø6mm - Ø14mm

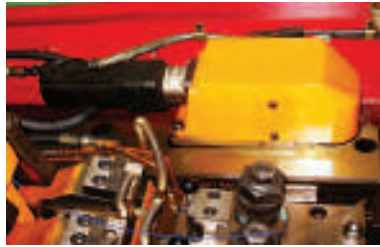
REVOLVING WIRE TWISTING MACHINE

MODEL	INLET (mm)
WTM-9	Ø3mm - Ø9mm
WTM-23	Ø8mm - Ø23mm
WTM-40	Ø22mm - Ø40mm

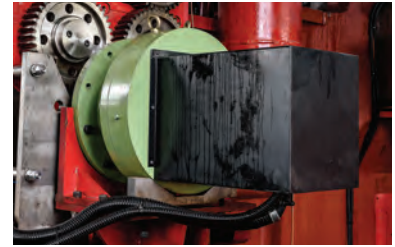




◆ **Servo Motor K.O. Adjustment:**
The adjustment can be combined onto the HMI monitor with very precise adjustment.



◆ **Servo Motor Stopper Mechanism:**
It can be controlled through HMI system, so much user friendly, precise and time saving than the regular hand tool or hand wheel adjustment.



◆ **Feed Length Servo Motor Adjustment:**
This servo motor feeding length adjustment can be controlled through HMI system, so it's very user friendly with very little tolerance, which is around 0.6% in weight difference between each cut-off blank. It is more precise than the traditional ratchet wheel feeding system.



POWERFUL FORGING LOAD



USER-FRIENDLY WITH HMI SYSTEM



MORE SAFETY FACTOR IN BODY FRAME



◆ **Main Slide Shim-Plated with Self-Lubricant Graphite:**
Using self-lubricant copper can maintain the lubrication of the main slider and keep the life and accuracy of the main slider.

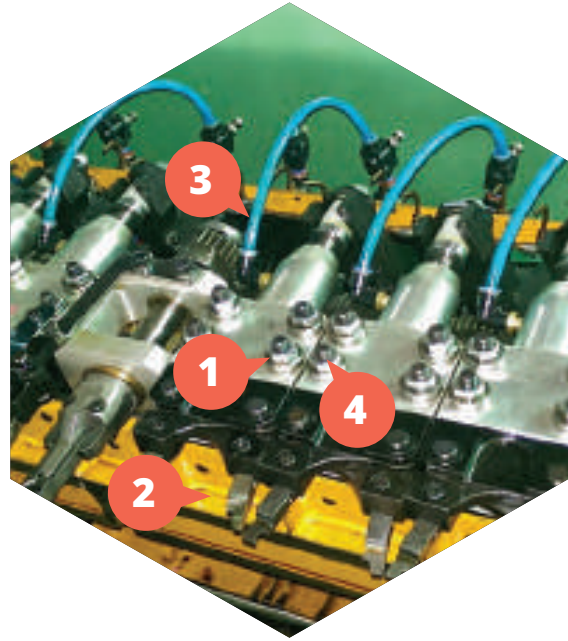


◆ **Back Shaft Mechanism:**
This back shaft reinforcement generates more forging power on the big size machine. Hence, many selected model of big size machine, such as OBF-30B4SXL can overload upon to M27 low carbon hex bolt (consider this is only a standard M20 machine).



◆ **Hoist Crane for Easy Tool Transportation Purpose (Standard from 30B onwards)**

3/4/5 Station Bolt Former



PRECISION FORMING TOLERANCE



◆ New Pneumatic Transfer Mechanism:

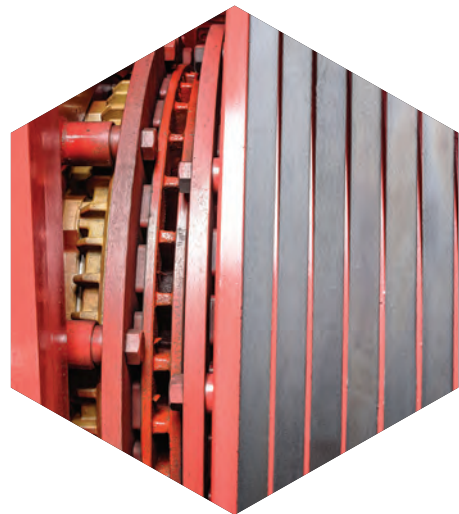
Both of vertical and horizontal alignment can be adjusted at the same time by simply loosen 4 bolts. In each station it requires less than 30 seconds to set up.

Step1 - Loosen 4 bolts

Step2 - Place the blank in the center of finger jigs

Step3 - Turn on the air cylinder to grip the blank

Step4 - Tighten 4 bolts



◆ Air Clutch on Main Motor Side:

The new patented system has been switched from right (big fly wheel side) to left hand side (main motor), which can avoid big vibration and oil mist created from the big fly wheel to shorten the life of air clutch. Also, it is easier for maintenance job.



Quick Tooling Change
Feed Roller Adjustment



P.L.C. Electrical
Control



Main Slide & P.K.O System

3 Station Bolt Former

Specificatoin / Model	OBF-7B3S	OBF-10B3S	OBF-13B3S	OBF-13B3SL	OBF-17B3S	OBF-17B3SL	OBF-17B3SUL	OBF-19B3S
Forging Station	3	3	3	3	3	3	3	3
Cut-Off Dia. Max. (mm)	5	8	10	10	12	12	12	15
Cut-Off Length Max. (mm)	55	70	94	130	105	180	350	140
Kick-Out Length Max. (mm)	45	55	70	115	80	175	310	105
Punch Kick-Out Length Max. (mm)	10	12	16	30	20	35	40	25
Cut-Off Quill (dia x length) (mm)	20x30	28x46	35x56	38x79	40x66	40x80	40x100	46x80
Main Die (dia x length) (mm)	38x60	50x65	60x85	70x135	70x95	80x185	80x330	80x123
Center Distance Between Dies (mm)	48	60	87	87	93	93	93	114
Punch Hole (dia x length) (mm)	32x60	40x77	45x87	45x111	50x102	50x132	50x200	60x121
Ram Stroke (mm)	100	120	140	200	160	250	460	200
Forging Power (ton)	15	20	40	50	70	75	80	100
Products (mm)	3/16"(M4)	1/4"(M6)	5/16"(M8)	5/16"(M8)	3/8"(M10)	3/8"(M10)	3/8"(M10)	1/2"(M12)
Output Max. (pcs/min)	300	250	210	180	180	150	70	150
Main Motor (hp)	7.5	10	15	20	20	30	40	40
Approx. Wt (kg)	3,500	6,500	9,000	13,000	13,000	18,000	26,500	20,000



Control Panel with HMI System



Inverter



Horizontal Type Wire Straightener (30B onwards)

Specificatoin / Model	OBF-19B3SXL	OBF-19B3SUL	OBF-24B3S	OBF-30B3S	OBF-36B3S	OBF-41B3S	OBF-50B3S
Forging Station	3	3	3	3	3	3	3
Cut-Off Dia. Max. (mm)	15	15	18	23	29	34	44
Cut-Off Length Max. (mm)	240	350	185	260	260	320	380
Kick-Out Length Max. (mm)	230	310	175	220	220	280	360
Punch Kick-Out Length Max. (mm)	40	60	30	35	35	60	60
Cut-Off Quill (dia x length) (mm)	46x80	65x110	60x100	75x120	90x140	115x140	138x165
Main Die (dia x length) (mm)	93x240	93x350	100x190	125x240	160x240	175x294	230x390
Center Distance Between Dies (mm)	114	114	126	138	174	195	240
Punch Hole (dia x length) (mm)	60x200	65x192	75x185	90x197	105x197	130x232	146x245
Ram Stroke (mm)	340	460	280	360	360	440	520
Forging Power (ton)	120	160	160	220	320	500	800
Products (mm)	1/2"(M12)	1/2"(M12)	5/8"(M16)	3/4"(M20)	1"(M24)	1 1/8"(M27)	1 1/2"(M36)
Output Max. (pcs/min)	115	70	100	80	70	60	45
Main Motor (hp)	50	75	75	100	125	150	200
Approx. Wt (kg)	35,000	43,000	43,000	58,000	66,000	120,000	180,000

4 Station Bolt Former

Specificatoin / Model	OBF-10B4S	OBF-11B4SL	OBF-13B4S	OBF-17B4SL	OBF-17B4SUL	OBF-19B4S	OBF-19B4SXL	OBF-19B4SUL
Forging Station	4	4	4	4	4	4	4	4
Cut-Off Dia. Max. (mm)	10	10	12	12	12	15	15	15
Cut-Off Length Max. (mm)	94	130	105	180	350	140	240	400
Kick-Out Length Max. (mm)	70(80)	115	80(90)	175	310	105	230	340
Punch Kick-Out Length Max. (mm)	16	30	20	30	40	25	40	60
Cut-Off Quill (dia x length) (mm)	28x46	38x79	35x56	40x80	40x100	46x80	46x80	65x110
Main Die (dia x length) (mm)	50x85	60x135	70x95	80x185	80x330	80x123	93x240	93x400
Center Distance Between Dies (mm)	60	75	87	93	93	114	114	114
Punch Hole (dia x length) (mm)	40x77	45x111	45x87	50x132	50x200	60x121	60x200	65x192
Ram Stroke (mm)	140	200	160	250	460	200	340	500
Forging Power (ton)	50	55	80	85	100	120	140	200
Products	1/4"(M6)	5/16"(M8)	5/16"(M8)	3/8"(M10)	3/8"(M10)	1/2"(M12)	1/2"(M12)	1/2"(M12)
Output Max. (pcs/min)	210	180	180	150	70	120	90	70
Main Motor (hp)	15	25	20(30)	40	40	50	75	75
Approx. Wt (kg)	9,000	13,000	13,000	20,000	32,000	25,000	37,000	48,000

Specificatoin / Model	OBF-24B4S	OBF-30B4S	OBF-30B4SXL	OBF-33B4S	OBF-36B4S	OBF-41B4S	OBF-45B4S
Forging Station	4	4	4	4	4	4	4
Cut-Off Dia. Max. (mm)	18	23	23	29	29	38	44
Cut-Off Length Max. (mm)	185	260	430	270	320	330	450
Kick-Out Length Max. (mm)	175	220	400	220	280	280	390
Punch Kick-Out Length Max. (mm)	30	35	20/40/60	45	60	60	60
Cut-Off Quill (dia x length) (mm)	60x100	75x120	75x120	95x120	90x140	115x140	132x165
Main Die (dia x length) (mm)	100x175(190)	125x240	125x430	145x240	160x294	175x300	185x400
Center Distance Between Dies (mm)	126	138	138	156	174	195	195
Punch Hole (dia x length) (mm)	75x165	90x197	95x250	110x220	105x232	130x290	138x240
Ram Stroke (mm)	280	360	560	360	440	440	520
Forging Power (ton)	200	265	360	320	380	550	800
Products	5/8"(M16)	3/4"(M20)	3/4"(M20)	7/8"(M22)	1"(M24)	1 1/8"(M27)	1 1/2"(M36)
Output Max. (pcs/min)	100	80	60	70	60	50	40
Main Motor (hp)	75	100	125	125	125	175	200
Approx. Wt (kg)	45,000	66,000	98,000	85,000	110,000	150,000	210,000

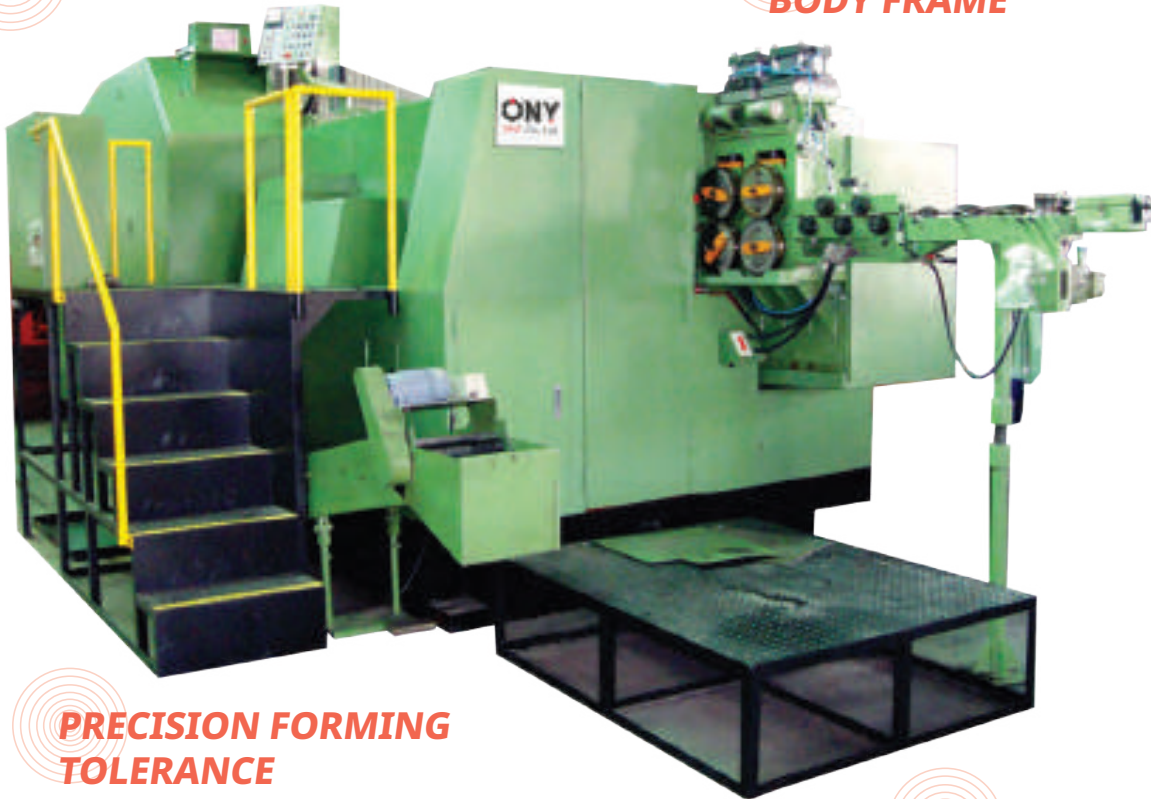
5 Station Bolt Former

Specificatoin / Model	OBF-10B5S	OBF-13B5S	OBF-17B5S	OBF-19B5S	OBF-24B5S	OBF-30B5S	OBF-33B5S	OBF-36B5S	OBF-41B5S
Forging Station	5	5	5	5	5	5	5	5	5
Cut-Off Dia. Max. (mm)	12	16	16	18	23	29	34	38	44
Cut-Off Length Max. (mm)	105	130	135	190	205	270	270	330	410
Kick-Out Length Max. (mm)	80	120	120	150	190	220	220	280	370
Punch Kick-Out Length Max. (mm)	20	20/35/50	35	35	40	45	50	55	60
Cut-Off Quill (dia x length) (mm)	35x56	46x80	46x80	60x100	80x100	90x140	90x140	105x140	115x155
Main Die (dia x length) (mm)	50x95	75x130	80x130	90x170	115x205	125x240	145x240	160x300	175x400
Center Distance Between Dies (mm)	60	87	93	114	126	138	156	174	195
Punch Hole (dia x length) (mm)	40x95	60x120	60x120	60x122	90x164	90x220	110x250	120x290	130x290
Ram Stroke (mm)	160	190	190	260	320	360	360	440	520
Forging Power (ton)	60	90	145	160	200	300	440	500	800
Products	5/16"(M8)	3/8"(M10)	1/2"(M12)	1/2"(M12)	5/8"(M16)	3/4"(M20)	1"(M24)	1 1/8"(M27)	1 1/4"(M30)
Output Max. (pcs/min)	150	130	120	110	90	70	70	60	50
Main Motor (hp)	20	30	40	50	100	125	150	175	200
Approx. Wt (kg)	13,000	18,000	25,000	42,000	58,000	80,000	100,000	130,000	180,000

5/6 Station Nut Former

POWERFUL FORGING LOAD

MORE SAFETY FACTOR IN BODY FRAME

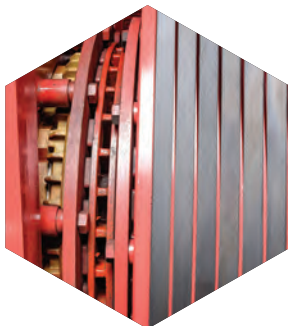


PRECISION FORMING TOLERANCE

USER-FRIENDLY WITH HMI SYSTEM

◆ Feed Length Servo Motor Adjustment:

This servo motor feeding length adjustment can be controlled through HMI system, so it's very user friendly with very little tolerance, which is around 0.6% in weight difference between each cut-off blank. It is more precise than the traditional ratchet wheel feeding system.

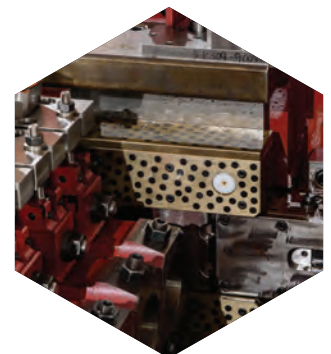


◆ Air Clutch on Main Motor Side:

The new patented system has been switched from right (big fly wheel side) to left hand side (main motor), which can avoid big vibration and oily created from the big fly wheel to shorten the life of air clutch. Also, it is easier for maintenance job.

◆ Main Slide Shim-Plated with Self-Lubricant Graphite:

Using self-lubricant copper can maintain the lubrication of the main slider and keep the life and accuracy of the main slider.



Specificatoin / Model	ONF-8B5S	ONF-10B5S	ONF-13B5S	ONF-14B5S	ONF-17B5S	ONF-17B6S	ONF-19B5S
Forging Station	5	5	5	5	5	6	5
Cut-Off Dia. Max. (mm)	8	10	13	14	17	19	19
Cut-Off Length Max. (mm)	6	8	10	12	13	14	14
Kick-Out Length Max. (mm)	10	13	15	18	20	25	25
Cut-Off Quill (dia x length) (mm)	37x45	45x55	55x65	62x75	72x80	72x90	80x90
Main Die (dia x length) (mm)	37x42	45x46	55x50	62x60	72x65	72x65	80x70
Center Distance Between Dies (mm)	37	45	55	62	72	72	80
Punch Hole (dia x length) (mm)	25x67	30x83	37x89	40x100	42x100	42x120	48x120
Ram Stroke (mm)	60	70	70	80	80	90	90
Forging Power (ton)	26	40	75	90	110	140	140
Products	#8 (M5)	#10(1/4") (M6)	#12(5/16") (M8)	3/8" (M8)	3/8" (M10)	3/8" (M10)	1/2" (M12)
Output Max. (pcs/min)	360	300	250	230	220	170	190
Main Motor (hp)	15	15	20	30	30	40	40
Approx. Wt (kg)	4,000	5,500	9,000	10,500	12,000	15,500	15,500

Specificatoin / Model	ONF-19B6S	ONF-24B5S	ONF-24B6S	ONF-28B5S	ONF-32B5S	ONF-36B5S
Forging Station	6	5	6	5	5	5
Cut-Off Dia. Max. (mm)	24	24	28	28	32	36
Cut-Off Length Max. (mm)	18	18	27	27	28	30
Kick-Out Length Max. (mm)	30	30	35	35	40	45
Cut-Off Quill (dia x length) (mm)	80x110	100x110	100x130	120x130	140x150	160x170
Main Die (dia x length) (mm)	80x70	100x90	100x90	120x105	140x120	160x135
Center Distance Between Dies (mm)	80	100	100	120	140	160
Punch Hole (dia x length) (mm)	48x135	60x135	60x160	72x160	84x180	96x220
Ram Stroke (mm)	120	120	140	140	160	180
Forging Power (ton)	220	220	280	280	400	500
Products	5/8" (M12)	5/8" (M16)	3/4" (M16)	3/4" (M18)	7/8" (M22)	1" (M24)
Output Max. (pcs/min)	140	145	120	130	110	100
Main Motor (hp)	50	50	75	75	100	125
Approx. Wt (kg)	22,000	22,000	36,000	36,500	52,000	80,000



Quick Tooling Change
Feed Roller Adjustment



P.L.C. Electrical
Control



Inverter



Control Panel with
HMI System

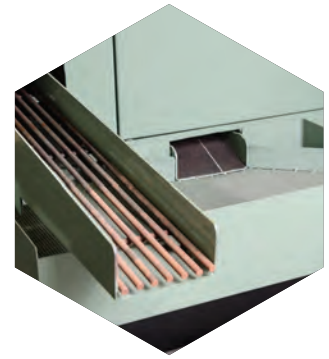


Main Slide &
P.K.O System



Horizontal Type
Wire Straightener
(30B onwards)

6 Station Long Stroke Nut Former



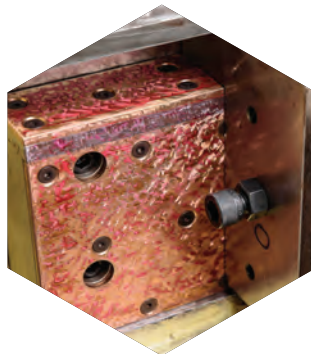
- ◆ **Production Conveyor**
Synchronized with cold Forming, the forging oil drains back to oil collector while products drop into collecting bin.



- ◆ **Box Type Wire Feeding Straightener (Optional)**

◆ Main Slide Tolerance Adjustable

The main slide has been made with taper groove in both sides. By adjusting main slide forward around 1mm, which would tighten the tolerance on both sides 0.02mm.



- ◆ **One-piece-formed main slide is made of alloy steel imported from Europe.**

Tolerance of micro-adjustable protecting plate: 0.015-0.02mm. Cast iron protecting plate, with hand-carved grooves on the surface, maintain well-lubricated, stress relief to protect main slide.



- ◆ **One Way Bearing**

Installed in the feeding mechanism to prevent material reversing, ensuring the stability of feeding mechanism.

6 Station Ultra Long Stroke Nut Former- SL Series

Specification/ Model	ONF-11B6SL	ONF-14B6SL	ONF-19B6SL	ONF-22B6SL	ONF-24B-6SL	ONF-32B6SL	ONF-36B6SL	ONF-41B6SL	ONF-45B6SL
Forging Station	6	6	6	6	6	6	6	6	6
Cut-Off Dia. Max. (mm)	12	17	20	22	26	32	36	42	46
Cut-Off Length Max. (mm)	30	45	60	70	75	85	90	95	100
PK.O. Length Max. (mm)	10	14	19	22	24	32	36	41	45
Kick-Out Length Max. (mm)	38	53	68	78	88	105	113	123	128
Cut-Off Quill (DxL) (mm)	27x30	35x40	47x40	50x50	58x60	78x70	98x80	118x90	128x100
Main Die Hole (DxL) (mm)	40x40	50x60	65x80	75x90	85x100	105x110	120x120	140x130	150x140
Dies Pitch (mm)	50	60	78	90	100	126	145	168	180
Punch Hole (DxL) (mm)	30x73	40x120	55x160	60x165	70x195	80x210	90x230	100x250	120x270
Ram Stroke (mm)	100	150	200	220	240	280	320	340	360
Forging Power (ton)	50	95	170	250	320	450	550	700	800
Products Specification	Ø11x35	Ø14x50	Ø20x65	Ø22x75	Ø26x85	Ø32x100	Ø36x110	Ø42x120	Ø45x125
Product	M5	M8	M12	M14	M16	M24	M27	M30	M33
Max. Output (pcs/min)	90	80	70	70	65	60	55	50	50
Main Motor (hp)	20	40	50	75	100	150	200	250	300
Lubricant Motor (hp)	1	1	1	2	2	2	2	2	2
Coolant Motor (hp)	0	0	1	1	1	1	1	1	1
Lubricant Oil (l)	150	150	200	250	350	350	400	400	450
Coolant Oil (l)	80	100	150	150	150	200	250	250	250
Air Pressure (kg/cm)	4	4	4	5	5	5	5	5	5
Approx. Wt. (ton)	6.5	10	20	30	38	58	80	110	130
Machinery Size (m)	3.0x1.8	3.6x2.1	5.0x2.6	5.5x3.0	6.3x3.3	7.35x3.9	7.7x4.2	9.8x5.0	8.5x5.5

6 Station Long Stroke Nut Former- S Series

Specification/ Model	ONF-11B6S	ONF-14B6S	ONF-19B6S	ONF-22B6S	ONF-24B6S	ONF-32B6S	ONF-36B6S	ONF-41B6S	ONF-45B6S
Forging Station	6	6	6	6	6	6	6	6	6
Cut-Off Dia. Max. (mm)	12	17	20	22	26	32	36	42	46
Cut-Off Length Max. (mm)	15	20	35	40	45	50	55	60	65
PK.O. Length Max. (mm)	10	14	19	22	24	32	36	41	45
Kick-Out Length Max. (mm)	23	28	43	48	55	58	63	68	73
Cut-Off Quill (DxL) (mm)	27x30	35x40	47x40	50x50	58x60	78x70	98x80	118x90	128x100
Main Die Hole (DxL) (mm)	40x40	50x60	65x80	75x90	85x100	105x110	120x120	140x130	150x140
Dies Pitch (mm)	50	60	78	90	100	126	145	168	180
Punch Hole (DxL) (mm)	30x73	40x120	55x160	60x165	70x195	80x210	90x230	100x250	120x270
Ram Stroke (mm)	80	90	120	140	150	160	180	190	200
Forging Power (ton)	50	95	170	250	320	450	550	700	800
Products Specification	Ø11x20	Ø16x25	Ø20x40	Ø22x45	Ø26x50	Ø32x55	Ø36x60	Ø42x65	Ø45x70
Product	M5	M8	M12	M14	M16	M24	M27	M30	M33
Max. Output (pcs/min)	140	125	100	85	80	70	65	55	55
Main Motor (hp)	20	30	50	75	100	150	200	250	300
Lubricant Motor (hp)	1	1	1	2	2	2	2	2	2
Coolant Motor (hp)	0	0	1	1	1	1	1	1	1
Lubricant Oil (l)	150	150	200	250	350	350	400	400	450
Coolant Oil (l)	80	100	150	150	150	200	250	250	250
Air Pressure (kg/cm)	4	4	4	5	5	5	5	5	5
Approx. Wt. (ton)	6	8.5	18	26	34	53	72	102	120
Machinery Size (m)	3.0x1.8	3.6x2.1	5.0x2.6	5.5x3.0	6.3x3.3	7.35x3.9	7.7x4.2	9.8x5.0	8.5x5.5

5/6 Station Bolt/Nut Parts Former



◆ Servo Motor K.O. Adjustment



◆ Servo Motor Stopper Mechanism



◆ Feed Length Servo Motor Adjustment



◆ Main Slide Shim-Plated with Self-Lubricant Graphite

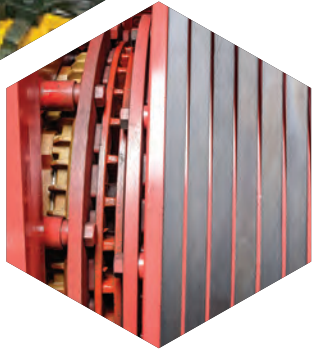
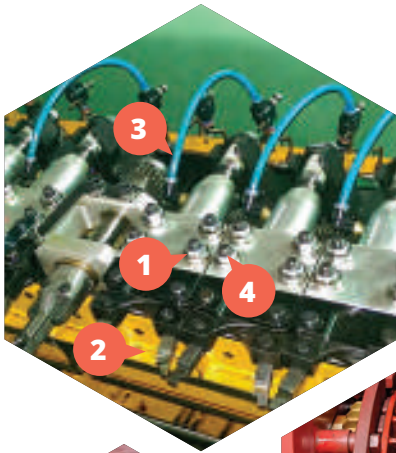


◆ Back Shaft Mechanism



◆ Big Fly Wheel Disk Brake (Selected model)

◆ New Pneumatic Transfer Mechanism



◆ Air Clutch on Main Motor Side



◆ Horizontal Type Wire Straightener (30B onwards)



Quick Tooling Change Feed Roller Adjustment



Main Slide & P.K.O System



Inverter



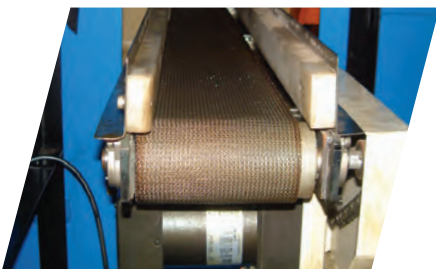
P.L.C. Electrical Control



Control Panel with HMI System



◆ Hoist Crane for Easy Tool Transportation Purpose (Standard from 30B onwards)



SP Conveyor (Soft Landed)

Anti-collision to avoid any damage on the part surface (Selected model).



P.K.O. Length Cam Adjustment

Newly patented design; P.K.O stroke can be individually adjusted simply setting on each station, the P.K.O cam with 3 positions, tools change can be done in short time.



Universal Transfer Finger Mechanism

Combine with rotation type, the chuck finger enables to turn 180° or straight across movement. Also, it can be used lifting type finger for large head parts.

5 Station Bolt Parts Former

Specificatoin / Model	OBP-10B5S	OBP-13B5S	OBP-17B5S	OBP-19B5S	OBP-24B5S	OBP-30B5S	OBP-33B5S	OBP-36B5S	OBP-41B5S
Forging Station	5	5	5	5	5	5	5	5	5
Cut-Off Dia. Max. (mm)	12	16	16	18	23	30	34	38	44
Cut-Off Length Max. (mm)	105	130	135	190	205	270	270	330	410
Kick-Out Length (Rotation/Straight) (mm)	40/80	40/120	40/120	50/150	60/190	80/220	80/220	100/280	170/370
Punch Kick-Out Length Max. (mm)	20	20/35/50	35	35	40	45	50	55	60
Cut-Off Quill (dia x length) (mm)	35x56	46x80	46x80	60x100	80x100	95x120	95x140	105x140	115x155
Main Die (dia x length) (mm)	50x95	75x130	80x130	90x170	115x205	125x240	145x240	160x300	175x400
Center Distance Between Dies (mm)	60	87	93	114	126	138	156	174	195
Punch Hole (dia x length) (mm)	40x95	60x120	60x120	60x122	90x164	90x220	110x250	120x290	130x290
Ram Stroke (mm)	160	190	190	260	320	360	360	440	520
Forging Power (ton)	60	90	145	160	200	300	440	500	700
Output Max. (pcs/min)	150	130	120	110	90	70	70	60	50
Main Motor (hp)	20	30	40	50	100	125	150	175	175
Approx. Wt (kg)	13,000	18,000	25,000	42,000	58,000	80,000	100,000	130,000	180,000

6 Station Bolt Parts Former

Specificatoin / Model	OBP-10B6S	OBP-11B6S	OBP-13B6S	OBP-17B6S	OBP-19B6S	OBP-24B6S	OBP-30B6S	OBP-33B6S	OBP-36B6S
Forging Station	6	6	6	6	6	6	6	6	6
No. of Fingers	6	6	7	7	7	7	7	7	7
Cut-Off Dia. Max. (mm)	12	16	16	18	23	30	34	38	41
Cut-Off Length (Min/Max) (mm)	105	130	15/135	20/190	20 / 165	30/200	40/270	45/330	50/410
Kick-Out Length (Rotation/Straight) (mm)	40/80	40/120	40/120	50/150	50/150	80/160	80/220	100/280	170/370
Punch Kick-Out Length Max. (mm)	20	30	20/35/50	35	20/35/50	20/40/60	25/50/75	25/55/80	30/60/90
Cut-Off Quill (dia x length) (mm)	35x56	46x80	46x80	46x100	68x100	95x120	100x120	105x140	115x155
Main Die (dia x length) (mm)	50x95	60x130	75x130	80x170	100x165	116x184	125x240	145x300	160x400
Center Distance Between Dies (mm)	60	75	87	93	114	126	138	156	174
Punch Hole (dia x length) (mm)	40x95	40x111	60x120	60x122	75x142	95x176	100x220	110x250	120x290
Ram Stroke (mm)	160	190	190	260	260	320	360	440	520
Forging Power (ton)	80	90	145	160	230	320	440	500	700
Output Max. (pcs/min)	180	130	120	110	90	90	70	60	50
Main Motor (hp)	30	30	40	50	75	100	125	150	175
Approx. Wt (kg)	15,000	18,000	25,000	42,000	52,000	65,000	100,000	130,000	180,000

5/6 Station Nut Parts Former

Specificatoin / Model	ONP 10B6S	ONP 11B6S	ONP 13B5S	ONP 13B6S	ONP 19B5S	ONP 19B6S	ONP 24B5S	ONP 24B6S	ONP 30B6S	ONP 33B6S	ONP 36B5S	ONP 36B6S	ONP 41B5S	ONP 41B6S	ONP 45B5S
Forging Station	6	6	5	6	5	6	5	6	6	6	5	6	5	6	5
Cut-Off Dia. Max. (mm)	12	16	16	18	20	24	24	26	29	34	34	41	41	44	44
Cut-Off Length Max. (mm)	50	60	60	60	60	70	70	80	100	150	150	150	150	150	150
Kick-Out Length (Rotation/Straight) (mm)	20/50	30/70	30/70	30/70	30/70	50/100	50/100	60/125	80/125	80/150	80/150	80/150	80/150	80/160	80/160
Punch Kick-Out Length Max. (mm)	12	16	16	16	16	30	30	30	40	45	45	45	45	60	60
Cut-Off Quill (Dia x Length) (mm)	28x46	46x80	46x80	46x80	46x80	70x75	70x75	85x90	95x100	110x155	110x155	110x155	130x155	138x165	138x165
Main Die (Dia x Length) (mm)	50x65	60x110	70x110	70x110	100x110	100x140	110x140	110x160	125x190	145x220	163x220	150(163)x220	178x220	178x250	195x250
Center Distance Between Dies (mm)	60	75	87	87	114	114	126	126	138	156	174	174	195	174	210
Punch Hole (Dia x Length) (mm)	40x77	45x90	50x90	50x90	50x90	75x122	75x122	75x155	90x200	110x220	110x220	110x220	120x220	120x280	135x280
Ram Stroke (mm)	120	140	140	140	140	160	160	200	240	280	280	280	280	260	260
Forging Power (ton)	60	100	100	135	160	220	270	300	420	520	560	620	620	750	750
Output Max. (pcs/min)	160	130	130	130	110	110	90	90	70	60	60	60	55	55	60
Main Motor (hp)	30	30	30	40	50	75	100	100	125	150	150	150	150	200	200
Approx. Wt (kg)	13,000	18,000	18,000	23,000	23,000	46,000	46,000	60,000	85,000	105,000	105,000	140,000	140,000	180,000	180,000

5/6 Station Parts Former

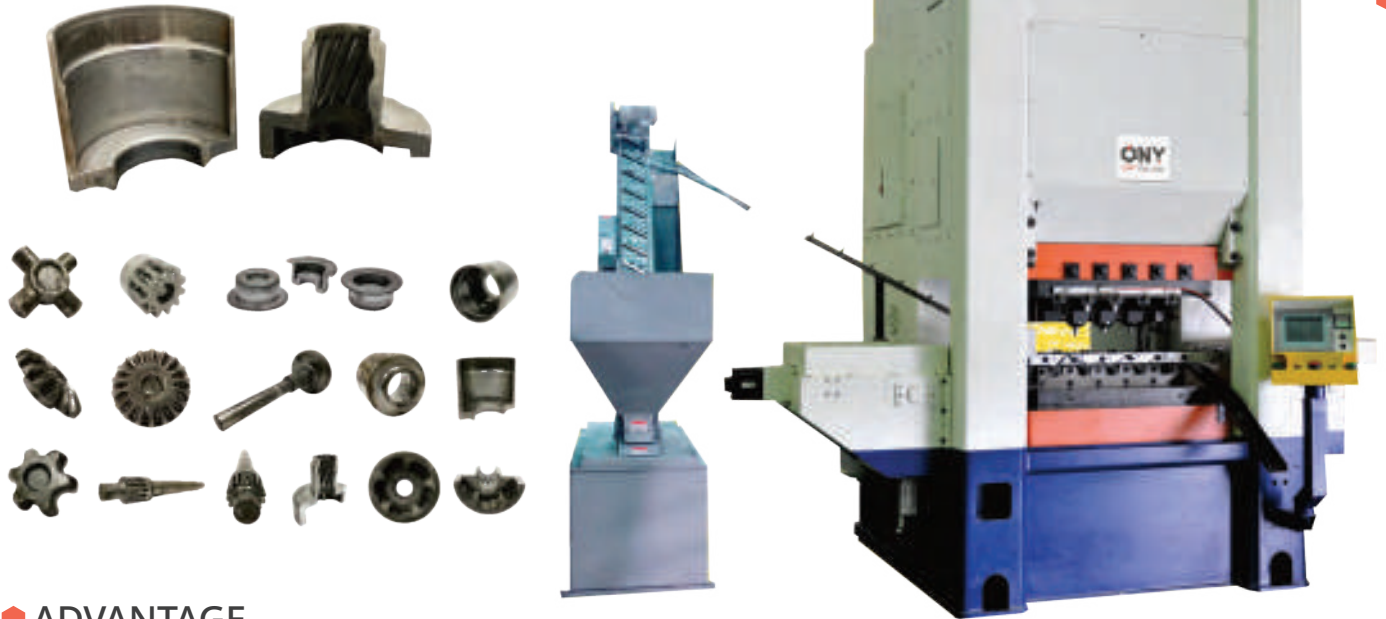
Specificatoin / Model	OPF 8B5S	OPF 8B6S	OPF 11B5S	OPF 13B6S	OPF 15B5S	OPF 17B6S	OPF 19B5S	OPF 21B6S	OPF 25B5S	OPF 28B6S	OPF 36B5S	OPF 36B6S	OPF 45B5S	OPF 45B6S	OPF 55B5S
Forging Station	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5
Cut-Off Dia. Max. (mm)	8	11	11	15	15	19	19	24	24	32	32	36	36	45	45
Cut-Off Length Max. (mm)	12	18	18	35	35	50	50	70	70	100	100	150	150	150	150
Cutter Type	Open Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type	Close Type
Transfer Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type	Rotating Type
Kick-Out Length Max. (mm)	16	30	30	42	42	70	70	80	80	120	120	120	120	130	130
Punch Kick-Out Length Max. (mm)	8	8	10	20	20	25	25	30	30	35	35	40	40	50	50
Cut-Off Quill (dia x length) (mm)	36x60	35x56	35x56	46x80	46x80	70x75	70x75	80x90	80x90	95x100	95x100	110x155	110x155	132x155	132x155
Main Die (dia x length) (mm)	37x42	37x70	45x70	55x90	65x90	72x72	80x72	93x110	114x110	120x160	156x160	156x220	195x220	195x330	235x330
Center Distance Between Dies (mm)	37	37	45	55	65	72	80	93	114	120	156	156	195	195	235
Punch Hole (Dia x Length) (mm)	25x67	25x67	30x80	40x90	40x90	42x120	48x120	60x120	75x122	75x155	110x155	110x220	120x220	120x312	135x312
Ram Stroke (mm)	75	90	90	185	185	200	200	240	240	250	250	260	260	260	260
Forging Power (ton)	30	60	60	100	100	165	165	250	250	460	460	600	600	900	900
Output Max. (pcs/min)	200	170	170	150	150	100	100	90	90	70	70	55	55	45	45
Main Motor (hp)	15	20	20	30	30	50	50	100	100	150	150	175	175	300	300
Approx. Wt (kg)	6,000	8,000	8,000	14,000	14,000	23,000	23,000	42,000	42,000	66,000	66,000	105,000	105,000	180,000	180,000

Automatic Cutting & Flattening Forging Press



Specificatoin / Model	CF-320	CF-360	CF-420	CF-600
Capacity (mn)	2000	3000	4000	6000
Tonnage Rating Point (Above B.D.C) (mm)	7	8	10	10
Stroke Length (mm)	150	180	200	220
Stroke Per Minute (spm)	50-55	40-45	35-40	30-35
Slide Adjustment (mm)	15	15	15	15
Max Diameter Cutting (mm)	15-28	20-35	25-42	30-50
Length Cutting (mm)	15-35	15-50	25-60	25-60
Min Thinkness of Product (mm)	6.0	8.0	8.0	10
Max Diameter of Product (mm)	42	55	65	80
Main Motor (kw)	20	37.5	55	75
Required Air Pressure (kg/cm ²)	5	5	5	5

Servo Motor Drive Press



◆ ADVANTAGE

- Quick tooling change mechanism by hydraulic unit. This mechanism allows switching over totally different set of tooling within 30 minutes.
- By replacing the big flywheel along with air clutch brake into a main servomotor, which eliminates maintenance job and cost on air clutch.
- Designed to handle today's high strength materials with controlled slide motions that can eliminate many secondary operations.
- Meets the increasing demand for cost effective, consistent and reliable manufacturing.
- Less power consumption than a traditional mechanical press.

Specificatoin / Model	SP-345	SP-363	SP-380	SP-3100	SP-545	SP-563	SP-580	SP-5100
Forging Station	3	3	3	3	5	5	5	5
Capacity (mm)	4500	6300	8000	10000	4500	6300	8000	10000
Tonnage Rating Point (Above B.D.C) (mm)	8	8	8	10	8	8	8	10
Stroke Length (mm)	180	220	250	250	180	220	250	250
Stroke Per Minute (spm)	35	30	30	30	35	30	30	30
Die Height (mm)	550	600	700	700	550	600	700	700
Slide Adjustment (mm)	12	12	12	12	12	12	12	12
Slide Area (LR*BF) (mm)	700*750	900*800	1000*850	1050*850	1150*750	1300*800	1400*850	1450*850
Bolster Area (LR*BF) (mm)	800*860	1000*910	1100*1000	1150*1000	1250*860	1400*930	1500*1000	1550*1000
Bed Knockout Capacity (mm)	60	80	100	100	60	80	100	100
Slide Knockout Capacity (mm)	40	45	50	50	40	45	50	50
Bolster Surface (mm)	1000	1100	1200	1200	1150	1250	1400	1400
Main Motor (kw)	55	75	110	132	55	75	110	132
Required Air Pressure (kg/cm ²)	5	5	5	5	5	5	5	5

Automatic Thread Rolling Machine

FEATURES



Pitch Adjustment Meter
Easy to adjust the pitch and record for future production.



Rolling Die Adjustment meter
Easy for die adjustment and record for future production.



Rolling Monitor Plus Counting Function (Optional)
To protect rolling die and related mechanism from any failure rolling process. It shuts down the roller once it encounters any problem.



Protect-Die Equipment



Feeding Tray Vibrator



Model	TR-5	TR-6	TR-8	TR-8+	TR-10	TR-10+
Blank Diameter (mm)	3-5	4-6	5-8	5-8	8-10	8-10
Blank Length Max. (mm)	8-40	10-50	16-75	16-100	20-100	20-150
Blank Thread Length Max. (mm)	40	50	60	60	75	75
Motor(hp)	3	7.5	15	15	20	20
Output (pcs/min)	200/300	88/140/210/280	75/120/180/240	69/110/165/220	56/90/135/180	50/80/120/160
Dimension (mm) (L*W*H)	1540*1280*1290	1500*1830*1450	2300*1500*1500	2300*1500*1550	2630*1460*1560	2630*1460*1600
Weight (kg)	1100	1700	2700	3000	3800	4200
Thread Rolling Die Size (mm)	25*45*75/ 90	25*55*90/ 105	25*80*127/ 140	25*105*127/ 140	25*105*150/ 165	25*155*150/ 165

Model	TR-12	TR-12+	TR-18	TR-20	TR-24
Blank Diameter (mm)	10-12	10-12	12-18	14-20	16-24
Blank Length Max. (mm)	25-150	25-180	30-150	30-200	50-180
Blank Thread Length Max. (mm)	100	120	120	150	150
Motor(hp)	30	30	40	50	60
Output (pcs/min)	93/140	80/120	63/95	50/75	43/65
Dimension (mm) (L*W*H)	3500*2400*1910	3500*2400*1950	4200*2600*1980	4800*2800*2200	5600*3400*2300
Weight (kg)	6500	7000	9500	11500	18500
Thread Rolling Die Size (mm)	35*155*190/ 215	35*180*190/ 215	38*155*230/ 265	50*210*290/ 330	50*180*380/ 420

Hydraulic Thru Feed Circular Rolling Machine

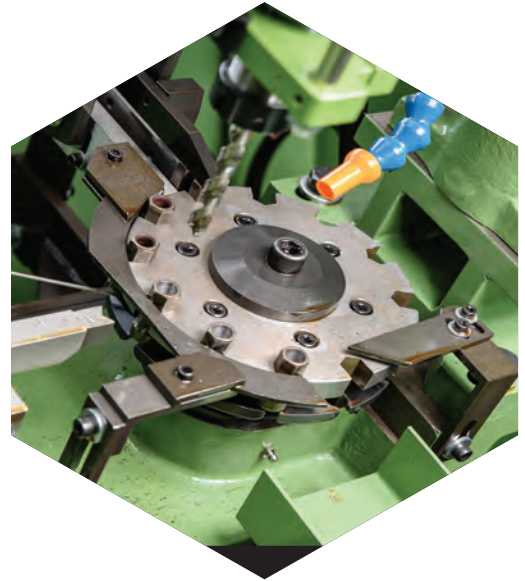


FEATURES

- Thru feed and in feed both available: The rolling time and rolling length are adjustable by limited switches with "hydraulic thru feed type" thread rolling machines.
- Powerful rolling pressure: The slide way feeding is driven by hydraulic unit which is ensured accurate position, and avoided the distortion of feeding power.
- Solid structure: Heat treatment of high tension cast iron FC-25 frame is durable.
- Steady feed motion: Square rail slide cased and accurately ground can avoid the jumping, vibration, and wear away.
- Perfect transmission: Heat-treat and thread-ground worm with phosphoric bronze worm wheel gear completely and smooth.
- Specially suitable for: Long length screws, ACME screws, Ball screws, machine parts, tool and automobile / motorcycle parts.

Specificatoin / Model		CR-75	CR-50
Work Piece Diameter (mm)		Ø10 ~ Ø75	Ø6 ~ Ø50
Axial Pitch for ISO Threads (mm)		1.0P ~ 10.0P	1.0P ~ 6.35P
Length of Thread Rolling (mm)		Plunge rolling (In feed) : 148 (75A : 200) Thru feed rolling : no limited	Plunge rolling (In feed) : 148 Thru feed rolling : no limited
Spindle Speed		20 ~ 50 r.p.m variable speed	25 ~ 55 r.p.m variable speed
Thread Rolling Die (mm)	Diameter	Ø200 (75A=Ø250) MAX	Ø180 (50A=Ø200) MAX
	Bore	Ø70 (75A=Ø85)	Ø54 (50A=Ø70)
	Length	35,70,100,150 (75A=70,100,150,200)	35,70,100,150
	Keyway	14 x 7 (75A= 18 x 9)	10 x 5 (50A= 14 x 7)
Distance of The Rolling Spindles (mm)		275 ~ 195 (75A : 300 ~ 220)	155 ~ 255
Output (pcs/min)		4 ~ 20	4 ~ 20
Swivel of Roll-Axis		± 6°	± 7°
Main Power Motor		25HP (18.75 kw) (75A=30HP)	15HP (11 kw)
Hydraulic Motor		7 1/2HP (5.5 kw) (75A=10HP)	5HP (3.7 kw)
Max Rolling Pressure		60 ton	40 ton
Net Weight		6000 kgs	3250 kgs
Gross Weight		6500 kgs	3600 kgs
Operation Required Space		2600 mm x 2600 mm x 2400 mm	1900 mm x 2300 mm x 2300 mm
Shipping Measurement		2700 mm x 2500 mm x 2230 mm	1790 mm x 2270 mm x 2230 mm

Reciprocating Type Tapping Machine



APPLICATION

Tapping for blind-hole nuts and special shape nuts, increase the uniformity of tapping quality.

FEATURES

- Fully automatic in tapping reversible way, work piece fixed which tooling/ mold can be simplified.
- Equipped with servo motor system and screw-lead tapper which increase tapping precision and efficiency.
- With cooling oil dispensing, prolong life time of tapper.
- Tapping holder equipped with limit switch to prevent breakage of nib taps.
- Easy to change thread pitches: Simplified tooling (fixture), quick tooling/mold change.
- Improving product quality: Torque monitoring, prevent the irregularity from blunt tapper. (It's advanced technology leading in tapping machines)
- Accurate tapping depth: Tapping depth is adjustable and controlled precisely.
- Man-machine operation interface: The reduction console switch and the display, reduce the components to lose, make the operation to be simpler user-friendly.

Specificatoin / Model	RT-12S Vertical	RT-22S Vertical
Adjustable Pole of Tapper Diameter	Ø65	Ø80
Main Spindle Slope	JT 6#	MT 3#
Tooling/Mold Diameter (mm)	120	180
Main Spindle Stroke (mm)	65	85
Distance From Main Spindle to Pole (mm)	210	250
Distance From Main spindle to Work Plate (mm)	320	430
Thread Pitch (thread count)	Customized	Customized
Tapping Capability	Max : M12	Max : M22
Diameter of Main Spindle	Ø52	Ø85
Base Dimension D x W (mm)	1270 x 1420 x 1900	1330 x 1640 x 2000
Motor	2000W AC Servo Motor	3000W AC Servo Motor
Pneumatic-Hydraulic	Clamp device by hydraulic, Feeder by Pneumatic	Hydraulic for both clamp and feeder
Diameter of Clamp Device	Ø32	Ø40
Cooling Motor	1/4HP	1/4HP
Oil Pressure Motor	1HP	1HP
Max Tapping OD (mm)	Ø27	Ø43

Nut Tapping Machine



ADVANTAGES

- Steady feeding of material by air pressure.
- Easy adjustment and maintenance of belts.
- Raise 30%~40% life-time of tap than conventional tap.
- Higher efficiency, easy to change tap and can work separately by single shaft.
- Stop feeding when tap is blunt or bad bore diameter.
- Air pressure cylinder pulls back detecting abnormal operation.
- Easy to change the speed of tapping by using our air pressure cylinder.

Specificatoin / Model	HTM08B	HTM13B	HTM19B	HTM24B	HTM32B	HTM38B	HTM46B (Two spindle)	HTM60B (Two spindle)
Product Range	M3-M5 #3-#8	M5-M8 #8-5/16	M8-M12 5/16-1/2	M12-M16 1/2-5/8	M16-M22 5/8-7/8	M18-M24 3/4-1	M24-M30 1-1 & 1/4	M30-M39 1 & 1/4-1 & 1/2
Shaft Speed (rpm)	3200-3000	3100-1700	2100-1400	1600-1100	1000-750	950-660	770-500	370-190
Tap Length*R (mm)	M125*20R	M215*25R	M300*30R	M320*35R	M400*45R	M480*55R	M600*70R	M606*85R
Output (pcs/min)	600-500	400-200	320-200	180-120	140-90	120-70	45-26	20-10
Main Moter (hp)	1/2HP*4P*4	1HP*4P*4	2HP*4P*4	3HP*4P*4	5HP*6P*4	7.5HP*6P*4	10HP*6P*2	10HP*6P*2
Total Power (kw)	2.1	3.95	7.15	10.3	16.35	23.55	16.5	16.5
Oil Tank Capacity (l)	400	420	500	650	750	850	650	650
Net Weight (kg)	850	900	980	1700	3800	4600	3850	3900
Length*Width*Height (cm)	120*165*185	140*166*181	156*181*186	153*180*185	187*223*213	215*235*248	224*186*248	224*186*248

Flange Nut Tapping Machine



ADVANTAGES

- Steady feeding of material by air pressure.
- Easy adjustment and maintenance of belts.
- Higher efficiency , easy to change tap and can work separately by single shaft.
- Raise 30%~40% life-time of tap than conventional tap.
- Stop feeding when tap is blunt or bad bore diameter.
- Air pressure cylinder pulls back automatically to ready position while detecting abnormal operation.
- Easy to change the speed of tapping by using our air pressure cylinder.
- Economically save more power and less space requirement.
- Change the tooling and parts, the machine could use for "hex nut".

Specificatoin / Model	FNM11B	FNM17B	FNM19B	FNM24B	FNM32B	FNM46B (Two spindle)
Product Range	M5-M6 3/16-1/4	M8-M10 5/16-3/8	M8-M12 5/16-1/2	M12-M16 1/2-5/8	M16-M20 3/4-7/8	M22-M30 1"-1 1/4"
Shaft Speed (rpm)	2040-1700	1629-1275	1269-1250	1259-881	883-684	675-300
Tap Length*R (mm)	M225*20R	M305*30R	M320*30R	M380*35R	M460*50R	M680*75R
Output (pcs/min)	200-136	160-100	160-80	126-68	80-56	30-12
Main Moter (hp)	1HP*4P*4	2HP*4P*4	3HP*4P*4	3HP*4P*4	5HP*6P*4	10HP*6P*2
Total Power (kw)	3.8	7.5	10.3	10.3	17.8	16.5
Oil Tank Capacity (l)	400	500	500	600	750	650
Net Weight (kg)	980	1220	1220	2150	4000	3900
Length*Width*Height (cm)	136*156*186	156*181*191	156*181*191	176*206*206	190*240*242	225*190*263

Continuous Heat Treatment Furnace- Electrical Type



Carburizing And Quenching Furnace:

Specificatoin / Model	CQ-150	CQ-200	CQ-300	CQ-400	CQ-600	CQ-900	CQ-1300
Capacity (kg/hr)	150	200	300	400	600	900	1300
Electric Power (kw)	120	140	190	260	340	450	540
Length (mm)	4800	5000	6000	8000	9500	10000	10000
Mesh Belt Width (mm)	500	600	700	700	700	1000	1200
Atmosphere Consumption (m2/h)	15	20	25	35	40	45	60

Tempering Furnace:

Specificatoin / Model	TM-150	TM-200	TM-300	TM-400	TM-600	TM-800
Electric Power (kw)	60	80	140	180	240	300
Mesh Belt Width (mm)	700	800	900	900	1000	1200
Length (mm)	5000	5000	7000	8000	8000	10000

* This furnace is customized basis. We will supply the furnace according to customers' requirments..

Continuous Heat Treatment Furnace- Gas Type



* This furnace is customized basis . We will supply the furnace according to customers' requirments.

OPTIONAL FEATURES

Endothermic Gas Generator

Exothermic Gas Generator

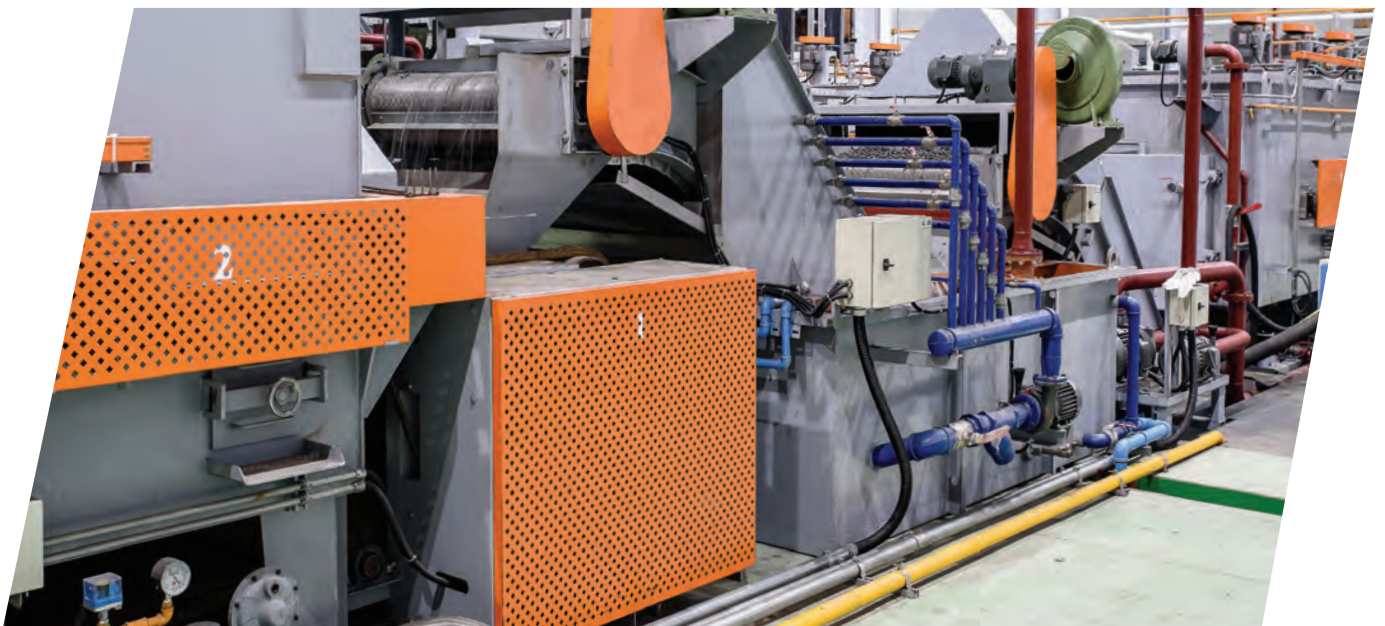


Continuous Heat Treatment Furnace- Hybrid Type



ADVANTAGES

- Energy Saving.
- Low Maintenance.
- Low Heat Treatment Cost.



* This furnace is customized basis . We will supply the furnace according to customers' requirements.

Electric Plating Machine

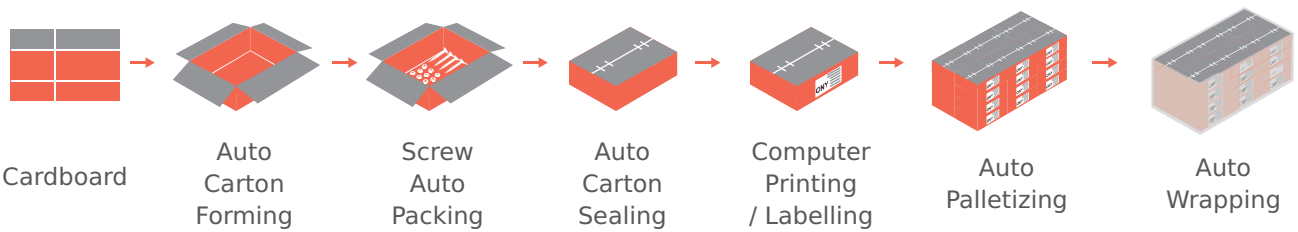


* This furnace is customized basis . We will supply the furnace according to customers' requirments.

PLATED PRODUCTS



General Packing Machine



* This furnace is customized basis . We will supply the furnace according to customers' requirments.

Glass Optical Sorting Machine



Measurement Item:

1. Diameter, hole diameter
2. Length
3. Width
4. Height, thickness
5. Surface defect
6. Deformed, broken
7. Different shape
8. Crack
9. Burrs, chips
10. Across corner
11. Across flat
12. Chamfer angle
13. Included angle
14. Arc radius
15. Center to edge
16. Point to line
17. Center to center
18. Punch depth
19. Concentricity
20. Roundness
21. With coating
22. With mark
23. With cut
24. Parallel edge length
25. Broken pin, plug
26. With thread
27. Fine or coarse thread
28. Thread numbers
29. Pitch
30. Slanted thread
31. Minor diameter
32. Major diameter
33. Bending screw
34. Thread damage
35. Defect on different shape
36. Line crack

Machine Character:

Simultaneously measuring both top and bottom side view throughout glass plate, designed for products which can stand on glass firmly, such as nut, small screw, O-ring, rubber part and auto part. Larger size of glass is available to install 6 to 9 cameras.

Dimensions:



Diameter / Hole diameter / Roundness



Major / Minor diameter / Pitch / Slanted thread



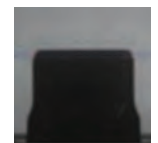
Length / Width / Thickness



Across Corner / Across Flat



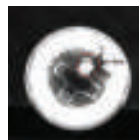
Arc radius



Chamfer / Included



Concentricity



Plug



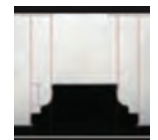
Dimension for Special Product



With Thread / Thread Number



Dimension for Special Product



Multi-Dimensions

Electric Discharge Machine ZNC Type



Specificatoin / Model	320	430	430A	540
Work Tank Internal Dimensions (W x D x H) (mm)	880 x 500 x 320	1000 x 600 x 400	1000 x 600 x 400	1200 x 700 x 430
Max. Workpiece Dimensions (W x D x H) (mm)	650 x 350 x 270	800 x 500 x 350	800 x 500 x 350	960 x 560 x 380
Max. Workpiece Weight (kg)	400	600	600	1000
Max. Electrode Weight (kg)	100	100	100	120
X / Y Axis Stroke (mm)	300 x 225	400 x 300	400 x 300	500 x 400
Z Axis Stroke (mm)	200	200	200	250
Z Back Slide Travel (mm)	200	200	200	200
Table Dimensions (W x D) (mm)	600 x 300	800 x 450	800 x 450	900 x 650
Distance Between Plate and Table (mm)	210 ~ 610	290 ~ 690	290 ~ 690	350 ~ 800
Machine Tool Dimensions (W x D) (mm)	1790 x 1610	1370 x 1410	1790 x 1880	1660 x 1650
Machine Tool Dimensions (H) (mm)	2100	2120	2200	2270
Machine Tool Weight (Kg)	1450	1665	2050	2070
Oil Tank Capacity (l)	200	400	400	500

Die Tightening Machine

APPLICATION

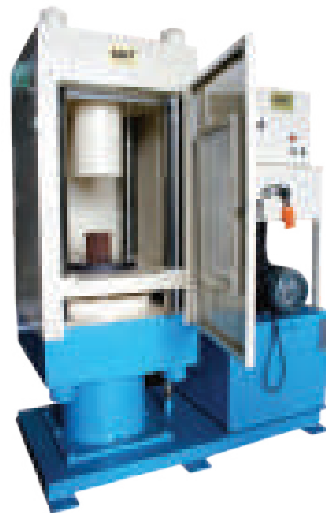
This equipment is designed to tighten die assembling process. The tightening mechanism has 2 tightening devices (electric and hydraulic system). To ensure the die has been tightened up.

SPECIFICATION

- Machine Dimensions (mm): 1300 x 730 x 1075
- Net Weight (kg): 1650
- Main Motor: 3HP*4P
- Die Tightening Area (mm): 220 x 200 x 200
- Oil Type: 140



Hydraulic Die Insert Machine



Specificatoion / Model	HTD-65T	HTD-100T	HTD-200T
Stroke (mm)	300	300	400
Dimensions of the Machine (mm)	1400 x 750 x 1635	1550 x 850 x 1670	1800 x 900 x 2030
Usable Surface (mm)	550 x 600	650 x 700	750 x 100
Horsepower (hp)	5 x 4P	7.5 x 4P	7.5 x 6P
Diameter of Processed Item (mm)	180	200	300

Nut / Special Parts Oil Degreasing Machine



 Air Cylinder

MAIN SCOPE

Designed for removing the surface oil of the parts after the forging and tapping process.

ADVANTAGES

- Link up with cold forging machine or any equipment to shorten the extra lengthy oil degreasing preparation job before next process.
- Equipped with PLC control.
- Equipped with inverter for different speed adjustment.
- With air cylinder in feeding chute, it controls the amount of parts precisely for each cycle.
- The drained oil can be recycled usage.

Specificatoin / Model	POD200	POD400
Machine Size (mm)	1050x1050x1675	1330x1500x2250
In Feed Height (mm)	1580	2247
Exit Height (mm)	600	635
Net Weight (kg)	324	800
Product Range	Bolt: M4x5~M8x50 Nut: M3~M10	Bolt: M8x13~M12x77 Nut: M14~M18
Motor	1HPx4P	3HPx6P

Centrifugal Oil Cleaning Machine

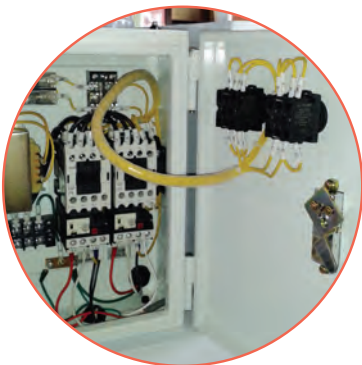


APPLICATION

General cold forging machine for bolt and nut, heading machine, press, grinding machine & thread rolling machine.

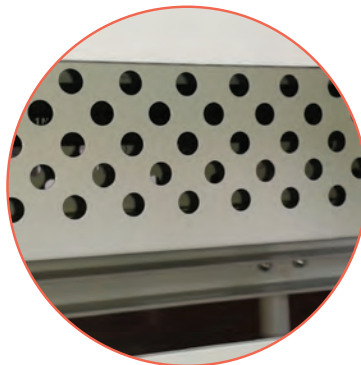
Model	40L-WT
Motor Power	2HP-4P 1/2HP-6P
Pump (pt)	1/2"
Flow Rate (l/min)	1~40
R.P.M	3000
Size (cm)	50*65*115
Weight (kg)	150

FEATURES



Electric box

There are fuses installed in electrical box to prevent any damage to the short circuit.



Safety net

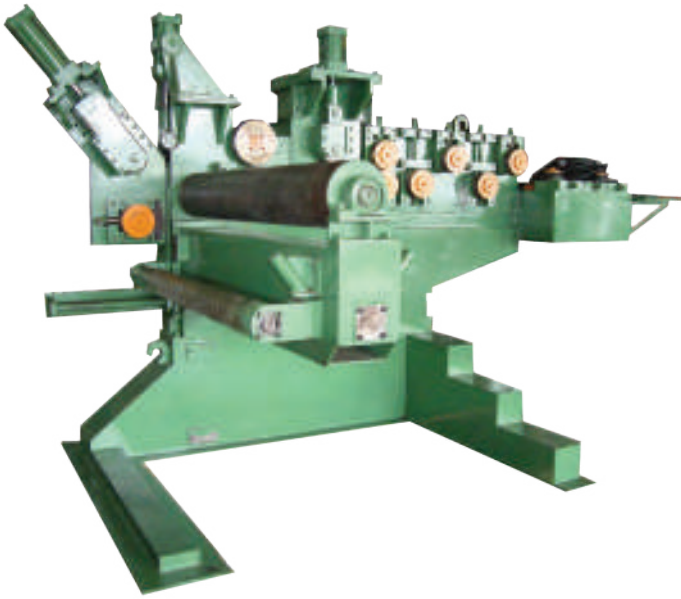
The safety steel net built in under the centrifugal disc to prevent any careless action while the cleaner is running.



Safety pin

Lid open main motor shuts off.

Horizontal Type Wire Straightener



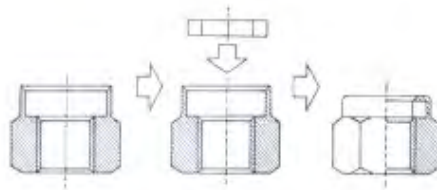
Specification / Model	24B	30B	41B
Wire Diameter (mm)	Ø8~Ø20	Ø12~Ø32	Ø18~Ø42
Pressure Roller Type	Pneumatic	Pneumatic / Hydraulic	Hydraulic
Roller Height (mm)	1436	1846	2400
Weight (kg)	1600	2500	3000

This machine can be customized to meet special requirements!

Nylon Nut Assembly Machine



ASSEMBLING PROCESS



Assemble hex nut and nylon ring, and form self-lock nylon nut.

MACHINE FEATURES

- Equipped with inverter for various speed adjustment.
- Automatic-inspection on or off functionality of nylon ring.
- Inspection sensor installed to shut down the machine while encountering any problem.

Model	NA-10B	NA-17B	NA-24B	NA-30B	NA-36B	
Product Size	M3-M6	M8-M10	M12-M14	M16-M22	M20-M24	
Main Motor	hp	2	3	5	5	10
	pole	6	6	6	6	6
Lubricating Motor	hp	1/4	1/4	1/4	1/4	1/4
	pole	4	4	4	4	4
Lubricating Oil (l)	20	25	30	35	45	
Output Max. (pcs/min)	350	300	230	200	150	
Approx Wt (kg)	1,260	2,200	2,900	3,600	6,500	
Machine Size (L x W x H)(m)	1.3 x	1.5 x	1.8 x	2.1 x	3 x	
	0.9 x	1.4 x	1.6 x	1.6 x	2 x	
	1.2	1.6	1.7	1.7	2	

NC Internal Grinding Machine



FEATURES

- Equipped with a NC controller in combination with the use of touch-screen permits easy operation.
- Workpiece is clamped securely by a 3-jaw chuck allowing for rapid feed.
- Rugged machine structure assures maximum stability during grinding.
- X, Y-axis automatic feeds are driven by individual servo motor.
- Variable speed change for the wheel spindle and the work spindle.
- High wheel speed dramatically increases machining efficiency and improves surface finish.
- Double "V" slideways are hardened. Way surfaces are precision ground, coated with Turcite-B and hand scraped.
- 3-color warning lamp indicate the current operation condition.
- 6" spindle speed 50,000 rpm.
- 8" spindle speed 30,000 rpm.



Work Head

- The work head movement (X, Y-axis) is driven by a servo motor.
- The entire work head can be swiveled in the range of 22.5°(single side).



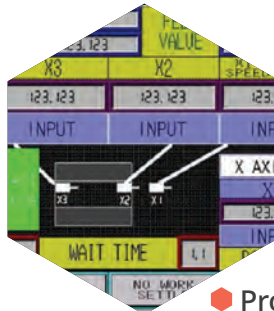
Highly Rigid Wheel Head

The grinding wheel head is ruggedly constructed to exhibit outstanding stability during the wheel spindle runs at a high speed. As a result, high machining accuracy is ensured.



3-Jaw Chuck

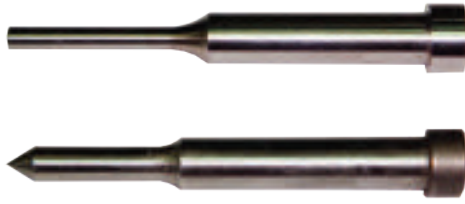
- The work head is equipped with a 3-jaw chuck for clamping the workpiece.
- Size: 6" (NC-150), 8" (NC-200).



Program

- X, Y axis automatic feeds are driven by individual servo motors.
- The program can set for position mode or length mode, suitable for blind hole and hollow hole, etc.

External Grinding Machine



FEATURES

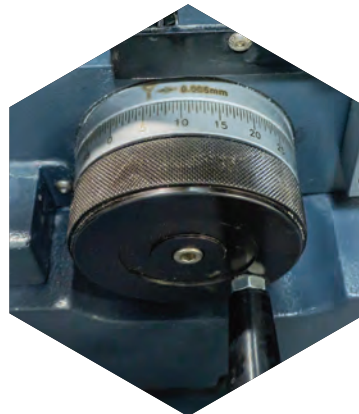
- Workpiece is held by rollers.
- X, Y-axis feeds are manually operated.
- Work head can be swiveled $\pm 5^\circ$.
- Double "V" slideways are hardened. Way surfaces are precision ground, coated with Turcite-B and hand-scraped.

STANDARD ACCESSORIES

1. Grinding Wheel *1 ($\text{Ø}100 \times \text{Ø}25.4 \times 20\text{t}$) *1pc
2. Grinding Wheel flange *1pc
3. Flange spacer (thick, thin) *1pc/each
4. Flange remover *1pc
5. Arc Dressing Base *1set
6. Tool box & Accessories *1set
7. Working lamp
8. T Type Wrench

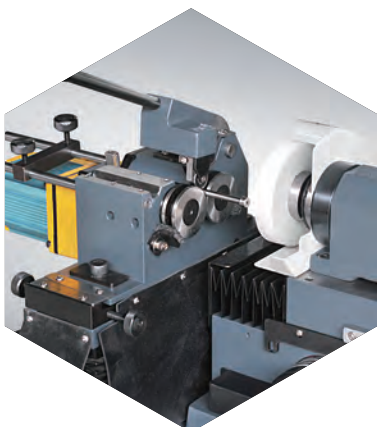
OPTIONAL ACCESSORIES

1. Vacuum cleaner
2. Coolant System (Standard)
3. RDO scale (1u)
4. ± 45 Rotary indexing table
5. Work-Piece Support (work-piece range 500mm)
6. Dual roller workhead
7. Diamond Grinding Wheel, CBN Grinding Wheel
8. Hydraulic pressuring dressing attachment
9. Arc dressing base



Wheel Head Movement (X, Y-axis)

The grinding wheel head movement is controlled by a feed handle.



Workpiece Held by Rollers

The workpiece is held on the rollers and can be adjusted vertically to achieve an accurate alignment between the workpiece and the grinding wheel.

Work Head Swiveling

The entire work head can be swiveled in the range of $\pm 5^\circ$.

Wire - Cutting EDM



◆ A rugged cast iron machine structure is the foundation of precision.



◆ Graphical Interface: The HMI panel is easy to operate using class leading ergonomic technology.



STANDARD ACCESSORIES

1. Ion exchange resin
2. Paper filter
3. Diamond guide
4. Flushing nozzle
5. Power feed contact
6. Brass wire
7. Clamping jig
8. Power feed measurement
9. Alignment jig
10. Toolbox

OPTIONAL ACCESSORIES

1. XY axis linear scale
2. AWT
3. Auto voltage regulator (15KVA)
4. Transformer
5. Short message service (SMS)
6. Remote monitor system
7. Super finish circuit
8. Multi-level cutting
9. Jumbo feeder (L-50A)
10. W axis
11. Wide angle nozzle

Specificatoin / Model	350
Maximum Workpiece	700 x 500 x 215 mm (27.6" x 19.7" x 8.5")
Max. Work Piece Weight	450kg (992 lb)
Travel Of X/Y Axes	350 x 250 mm (13.8"x 9.8")
Travel Of U/V Axes	80 x 80 mm (3.1"x 3.1")
Travel Of Z Axis	220mm (8.7")
Wire Diameter	0.15~0.3mm (0.004"~0.012")
Number Of Axis Controlled	5 Axis AC Servo Motor
Max Taper Angle	±22°/ 80mm (±22°/ 3.1") with wide diamond guide and nozzle
Machine Size	2020 x 2200 x 2170 mm (79.5" x 86.6" x 85.4")
Machine Weight	2700kg (5952 lb)
Water Tank Capacity	600L

* The content of this catalogue is subject to be changed by the factory.

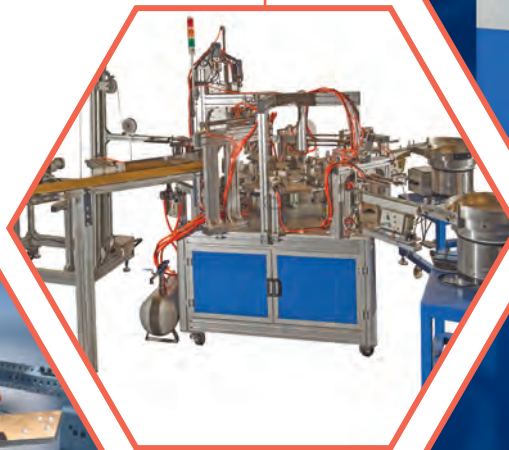
Special Purpose Machine

Depending on the customer required specifications, ONY could design and manufacture special purpose machines for a large range of applications.

ROBOTIC ARM APPLICATION



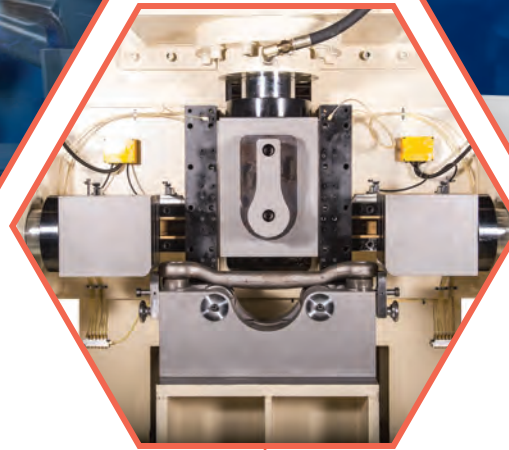
INDEX ASSEMBLY MACHINE



DOUBLE SPINDLE MACHINE



NC CONTROLLED DRILLING MACHINE IN MULTIPLE ANGLES

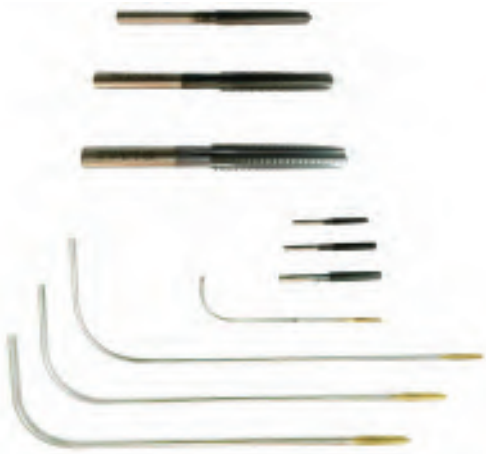


SHACKLE FORMING MACHINE

Tooling & Machine Spare Parts

ONY provides a wide range of high quality tooling and machine spare parts with best service and punctual delivery. Through years dedication and efforts, we successfully developed incredible reputation in fastener industry.

BENT SHANK TAP



GENERAL TOOLING



CIRCULAR ROLLING DIE



SEGMENT DIE



CARBIDE TIPPED PIERCING PUNCH PIN



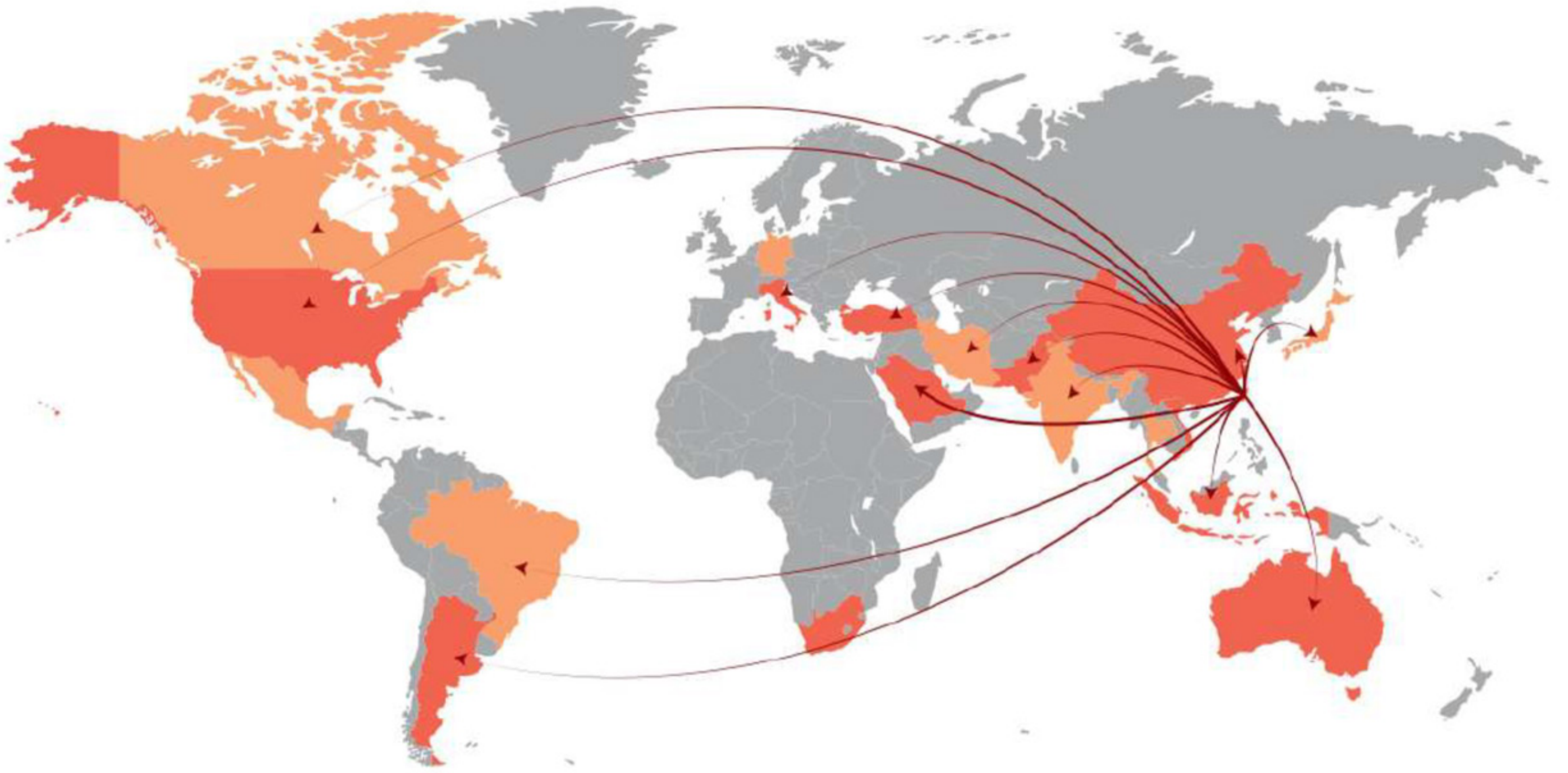


CARBIDE INSERT CUTTER



THREAD ROLLING DIE





MIDDLE EAST REGION

- Iran
- Saudi Arabia

AMERICAN REGION

- America
- Argentina
- Brazil
- Canada
- Mexico

AFRICA REGION

- South Africa

ASIAN REGION

- China
- India
- Indonesia
- Japan
- Pakistan
- Thailand
- Vietnam

EUROPEAN REGION

- Italy
- Turkey
- Germany

AUSTRALIA REGION

- Australia



ONY Co., Ltd.

www.ony-fasteners.com

✉ kenan@ony-fasteners.com

☎ +905373950077

☎ +902324200965

📍 Menderes Mah.
118/3 Sokak No:27
K:1 D:1
Buca/Izmir/Turkey