

COMPANY INTRODUCTION



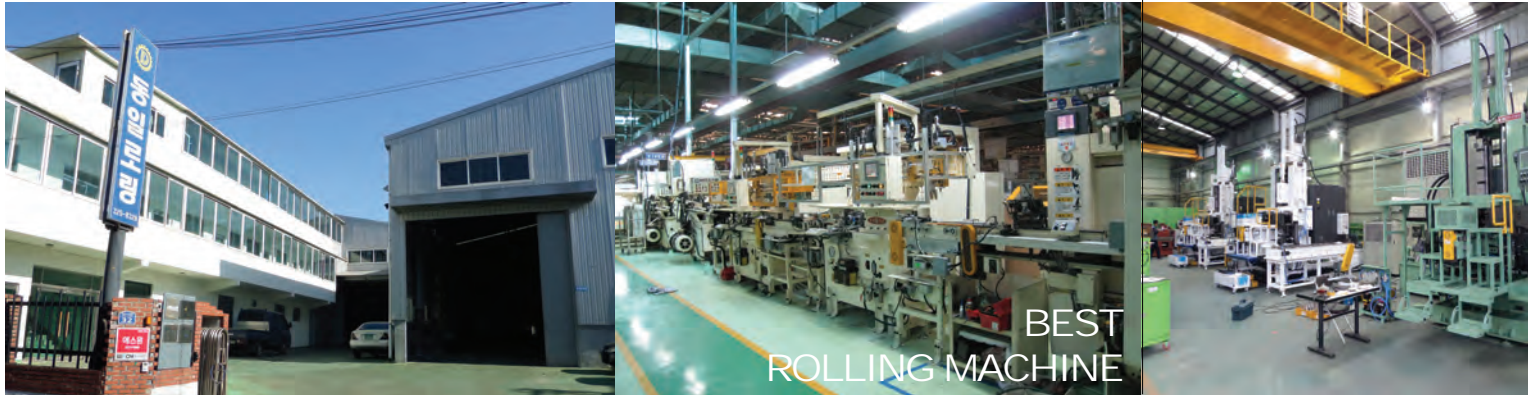
저희 동일로링은 전조기 및 각종 로링머신 제조 전문 선두주자로서
국내최다 기종을 보유하고 있습니다.
항상 미래를 지향하고 고객 제일주의, 품질 제일주의, 기술 제일주의를 경영 이념으로
무한한 가능성에 도전하는 끊임없는 기술개발과 인재 육성을 통한 가치 창조로
고객과 함께 발전하는 기업이 되기 위하여 노력을 기울이고 있습니다.

As we ring the same rolling machine and as a leader specializing in manufacturing various
rolling machine most stocks are domestic models.
Always future-oriented and customer First, Quality first, Technology first the management
philosophy endless possibilities to challenge
the development of technology and human resource development
to create value through companies
that develop with our customers to become are making unremitting efforts.

| 수상 및 인증 (Certificates) |

- 2002년 산업자원부 장관상 수상
- 2003년 의장등록(전조기용 다이스 결합체)
- 2005년 부산시장 표창
- 2010년 실용신안 등록(전조기용 아이들센터)
- 2010년 벤처기업인증
- 2013년 기업 부설 연구소 설립
- 2014년 고용우수기업 및 우수기업인 선정
- 2014년 뿌리기술 전문기업 인증

CORPORATE HISTORY



【主要沿革 (MAIN PRODUCT)】

- 2DIES ROLLING M/C
15, 20, 30, 40, 50, 60, 80, 100 TON
- 3DIES ROLLING M/C : 8, 15, 50 TON
- COUNTER FLOW
DCF- 400, 600, 750, 1000, 1100, 1200
- 2DIES 16TON SERVO, 16TON NC ROLLING M/C
- 3DIES 15TON NC ROLLING M/C
- 3DIES SERVO ROLLING M/C

【沿革 (CORPORATE HISTORY)】

1984年 東日機械工業社 設立	Established the Dongil Machine Industrial Company
1984~86年 15, 20, 40, 50TON 開發	Developed 15, 20, 40, 50Ton Rolling Machine
1987~88年 3DIES 8, 15TON 開發	Developed 3DIES 8, 15Ton Rolling Machine
1991年 東日 ROLLING 設立 (鶴章洞 工場移轉)	Established the Dongil Rolling (company moved hakjang-dong)
1992年 國際 볼트, 너트 展示會 出品	Put on International Bolt, Nut Exhibition
1993年 서울(京) 事務所 開設	Established seoul office
1994年 國際 自動化 展示會 出品	Put on International Automatic Machinery Exhibition
1996年 3DIES 50TON 開發	Developed 3DIES 50Ton Rolling Machine
1998年 國際 볼트, 너트 展示會 出品	Put on International Bolt, Nut Exhibition
1999年 COUNTER FLOW 開發着手	Counter Flow rolling m/c development beginning
2000年 COUNTER FLOW 開發完了	Counter Flow rolling m/c development
2001年 甘田洞 擴張移轉	Moved Extend Gamjeon-dong
2002年 2DIES 60, 80, 100TON 開發	Developed 2DIES 60, 80, 100Ton Rolling Machine
2002年 國際自動化精密機器展出品	International Factory Automation System Show 2002 Korea
2005年 釜山國際機械大展出品	Busan International Machinery Fair 2005
2012年 多大浦 擴張移轉	Moved Extend Dadaepo
2014年 4軸 NC 轉造機 開發	4-Axis NC Rolling Machine Development

COUNTER FLOW

DCF - 400

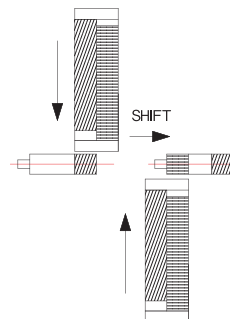


DCF SERIES 特性

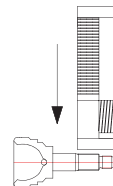
- 1) 精密小形機種에서 超強力形 機種까지
國內 最多 機種 保維
From superfine small type machine to superpower
type kinds of machine, domestic maximum kinds of
machine possession
- 2) 高精度度 報障(精密部品 輸入)
High precision (import precision parts)
- 3) BODY FCD 主調形으로 高耐久性和 安全性 報障
BODY FCD casting (High endurance, high safety)
- 4) 少量 多品種 生産 大量 自動生産 可能
Economical for any volum Production
- 5) 維持保守가 簡便하다.
Easy Maintenance

전조의 방식

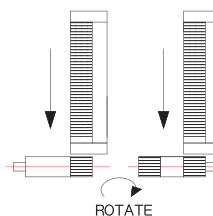
왕복 전조



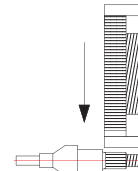
병렬 동시 전조



2 PASS 왕복 전조



직렬 동시 전조



COUNTER FLOW

DCF - 600



■ SPECIFICATION (사양)

구 분	DCF-400	DCF-600	DCF-750
스프라인가공지름 Rolled Dia. Range	Ø20	Ø30	Ø37
툴홀더 최대폭(mm) Max. Width of Dies Holders	105	150	150
스프라인 최대모듈 Spline Max. Module(M)	1.0	1.5	1.5
최대툴길이(mm) Max. Length of Dies	410	623.8	715.2
카운터 실린더 사이즈 Counter Cylinder Size	Ø80	Ø80	Ø100
		Ø100	Ø100
			Ø125
쿨런트유닛(ℓ) Coolant Unit	80	120	120
심간거리 Opening Section Distance(mm)	90	139.7	139.7
머신스페이스(유입탱크 제외)(mm) Machine Space Excluding Tank Unit	1.2×1.2	1.4×2.1	1.4×2.1
전높이 Height(mm)	2,400	3,100	3,500
작업높이 Parts Loading Height(mm)	950	1,200	1,300
기계중량 (ton<유입탱크제외>)(ton) Total Weight Excluding Tank Unit(Thousand Lbs)	3.5	7.0	8.5
옵션 사양	왕복전조 Two-Way Rolling	○	○
	오토로더 Auto-Loader	○	○
	병렬동시전조	○	○

* E-Type은 왕복전조시 WORK의 이송을 SERVOMOTOR로 한다.

COUNTER FLOW

DCF - 1000E



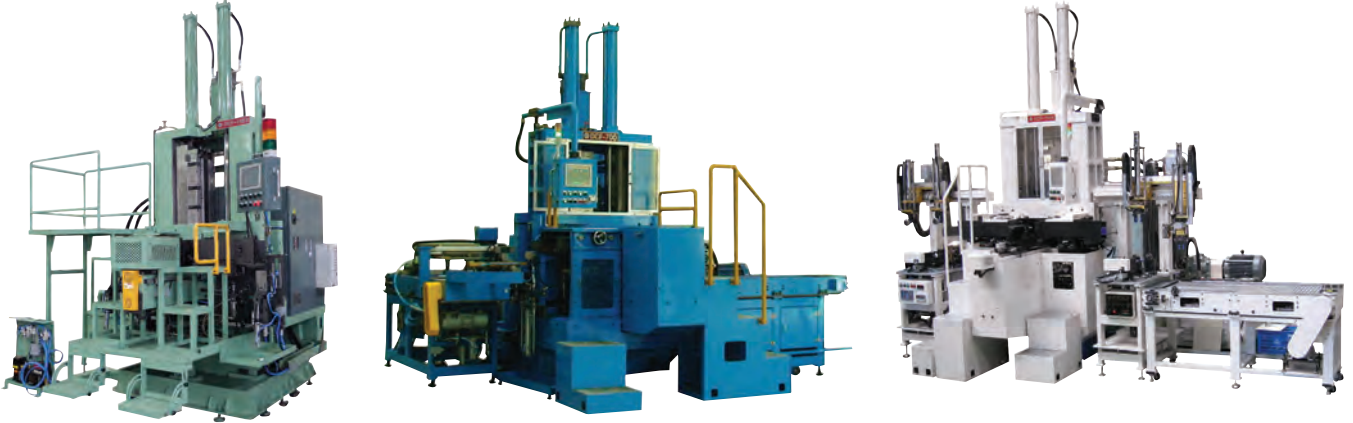
■ SPECIFICATION (사양)

구 분	DCF-1000	DCF-1100	DCF-1200
스프라인가공지름 Rolled Dia. Range	Ø45	Ø50	Ø50
틀홀더 최대폭(mm) Max. Width of Dies Holders	250	250	250
스프라인 최대모듈 Spline Max. Module(M)	1.5	1.5	1.75
최대틀 길이(mm) Max. Length of Dies	928.3	1,050	1,220
카운터 실린더 사이즈 Counter Cylinder Size	Ø100	Ø100	Ø100
	Ø125	Ø125	Ø125
쿨런트 유니트(ℓ) Coolant Unit	120	120	120
심간거리 Opening Section Distance(mm)	139.7	139.7	152.4
머신스페이스(유입탱크 제외) (m) Machine Space Excluding Tank Unit	1.4×2.1	1.4×2.1	1.7×3.5
전높이 Height(mm)	4,000	4,350	4,750
작업높이 Parts Loading Height(mm)	1,450	1,580	1,700
기계중량 (ton<유입탱크제외>) (ton) Total Weight Excluding Tank Unit(Thousand Lbs)	9.5	11	12
옵션 사양	왕복전조 Two-Way Rolling	○	○
	오토로더 Auto-Loader	○	○
	병렬동시전조	○	○

* E-Type은 왕복전조시 WORK의 이송을 SERVOMOTOR로 한다.

COUNTER FLOW

DCF - AUTO



2 DIES ROLLING M/C

Rolling Machine DIR - 15 TON



精密小形機種으로서 일반나사, 소형정밀나사, 소형웜나사, 너어링 등 小形精密 나사에 적합하며 多量의 製品을 生産할 수 있는 油壓式 機種입니다.

It is an oil pressure mechanical type to be produced a lot of product to be adapted for the small precise mechanical types such as General screw, small precise screw, small worm screw and knurling etc.

▣ SPECIFICATION (사양)

ITEM	MODEL	15 TON	ITEM	MODEL	15 TON	
轉造加能工作物 Construction Thing Available for Manufacture by Rolling	最大外徑 Max. Outside Diameter	50 φ	轉造力 Rolling Manufacture Power	最 大 Max.	15ton	
	最 大 長 Max. Length	150mm		主軸驅動用 For Mation of Main Spindle	3.7kw	
	最大 피치 Max. Pitch	4mm		電 動 機 Electromotor	油 壓 用 For Oil Pressure	2.2kw
	伸 率 Max. Elongation	10%		工作油用 For Working	0.1kw	
Roll Dies	軸 徑 Hole Diameter	54 φ	本體外形치수 External form Meas urement of this body	主軸中心高 Center Height of Main Spindle(mm)	920	
	最大外徑 Max. Outside Diameter	180 φ		總 高 Total Height(mm)	1,500	
	幅 Max. Width	150mm		面 積 Machine space(mm)	1,600x2000	
주축간거리	Distance Between the Spindle	130~230mm	重 量	Weight	2,200kg	

2 DIES ROLLING M/C

Rolling Machine DIR - 20, 30 TON



超精密 中形 機種으로서 Worm, Serration, Knuring, Burnishing 一般나사 등의 生産에 最適機種입니다.

It is a superfine middle type machine to be conformity with the production of Worm, Serration, Knuring, Burnishing and general screw etc.

■ SPECIFICATION (사양)

ITEM	MODEL	20TON	30TON	ITEM	MODEL	20TON	30TON	
轉造加能工作物 Construction Thing Available for Manufacture by Rolling	最大外徑 Max. Outside Diameter	75φ		轉造力 Rolling Manufacture Power	最 大Max.	20ton	30ton	
	最 大 長 Max. Length	150mm			電動機 Electromotor	主軸 驅動用 For Motion of Main Spinde	5.5kw	11kw
	最大피치 Max. Pitch	5mm				油 壓 用 For Oil Pressure	2.2kw	3.7kw
	伸 率 Max. Elongation	10%				工作油用 For Working	0.11kw	0.1kw
Roll Dies	軸 徑 Hole Diameter	54 φ		本體外形치수 External form Measurement of this body	主軸中心高 Center Height of Main Spindle(mm)	930	930	
	最大外徑 Max. Outside Diameter	200 φ			總 高 Total Height (mm)	1,450	1,600	
	幅 Max. Width	150mm			面 積 Machine space (mm)	1,420x1,500	1,600x2,400	
주축간거리	Distance Between the Spindle	140~240mm		重 量	Weight	3,500kg	4,000kg	

2 DIES ROLLING M/C

Rolling Machine DIR - 40, 50, 60 TON



超強力形 스타일의機種으로 나사의 最大外徑 130φ 轉造加能하며 Serration, Worm, TM나사, 전나사等 轉造機로서의 모든 전조능력을 갖춘機種입니다.

It is a superfine gravity type machine which is possible up to $\phi 130$ rolling of the screw maximum outside diameter and has all the functions as a rolling machine for all kinds of screws such as worm screw, TM screw and stopper screw etc.

■ SPECIFICATION (사양)

ITEM	MODEL	40TON	50TON	60TON
轉造加能工作物 Construction Thing Available for Manufacture by Rolling	最大外徑 Max. Outside Diameter	110φ	120φ	130φ
	最大長 Max. Length	200mm		
	最大피치 Max. Pitch	10mm		
	伸率 Max. Elongation	10%		
Roll Dies	軸徑 Hole Diameter	85 φ		
	最大外徑 Max. Outside Diameter	250 φ	265 φ	
	幅 Max. Width	200mm		
주축간거리	Distance Between the Spindle	170~350mm	170~330mm	170~410mm

ITEM	MODEL	40TON	50TON	60TON
轉造 Rolling Manufacture Power	最大 Max.	40ton	50ton	60ton
	電動機 Electromotor			
電動機 Electromotor	主軸驅動用 For Motion of Main Spindle	15kw	19kw	22kw
	油壓用 For Oil Pressure	3.7kw	5.5kw	7.5kw
	工作油用 For Working	0.18kw		
本體外形尺寸 External form Measurement of this body	主軸中心高 Center Height of Main Spindle(mm)	970	1,070	
	總高 Total Height(mm)	1,650		
	面積 Machine space(mm)	2,800x2,500	2,850x2,500	2,900x2,500mm
重量	Weight	4,600kg	6,000kg	7,500kg

2 DIES ROLLING M/C

Rolling Machine DIR - 80, 100 TON



超強力形 스타일의機種으로 나사의最大외경 230φ 轉造加能하며 Serration, Worm, TM나사, 전나사等 轉造機로서의 모든 전조능력을 갖춘機種입니다.

It is a superfine gravity type machine which is possible up to φ230 rolling of the screw maximum outside diameter and has all the functions as a rolling machine for all kinds of screws such as worm screw, TM screw and stopper screw etc.

■ SPECIFICATION (사양)

ITEM		80TON	100TON
轉造加能工作物 Construction Thing Available for Manufacture by Rolling	最大外徑 Max. Outside Diameter	200φ	200~230φ
	最大長 Max. Length	250mm	
	最大피치 Max. Pitch	10mm	
	伸 率 Max. Elongation	10%	
Roll Dies	軸 徑 Hole Diameter	85φ	100φ
	最大外徑 Max. Outside Diameter	280φ	
	幅 Max. Width	250mm	280mm
주축간거리	Distance Between the Spindle	180~450mm	180~450mm

ITEM	MODEL	80TON	100TON
轉造力 Rolling Manufacture Power	最 大 Max.	80ton	100ton
	主軸 驅動用 For Motion of Main Spindle	30kw	37.5kw
電動機 Electromotor	油 壓 用 For Oil Pressure	7.5kw	11kw
	工作油用 For Working	0.18kw	
本體外形尺寸 External form Measurement of this body	主軸中心高 Center Height of Main Spindle(mm)	980	
	總 高 Total Height(mm)	1,810	
	面 積 Machine space(mm)	3,020 x 3,050	
重 量	Weight	10,000kg	11,000kg

NC ROLLING M/C

16 TON 2축 Servo Rolling Machine



다이스회전은 Servo Motor 2개를 설치하여 피치조정이 자유로우며 원하는 각도로 자유로이 다이스를 회전할 수 있어 Worm 가공후 버니싱 작업에 탁월하다.

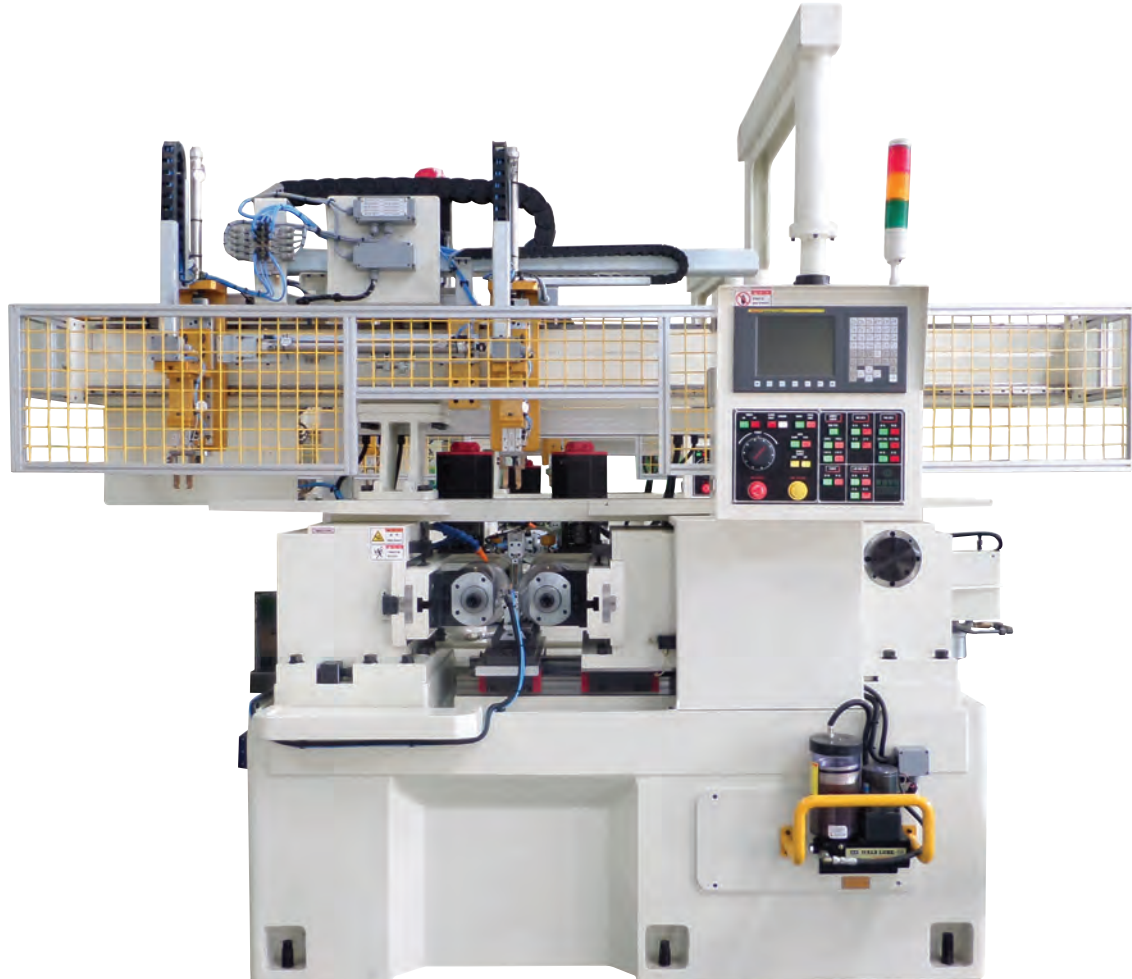
Dies turning establishes 2 servo motors and adjust of pitch is free
Because can rotate dice freely by angle that want, is excellent in burishing work after worm processing.

▣ SPECIFICATION (사양)

ITEM	MODEL	16 TON	ITEM	MODEL	16 TON
轉造加能工作物 Construction Thing Available for Manufacture by Rolling	最大外徑 Max. Outside Diameter	50 φ	轉造力 Rolling Manufacture Power	最 大 Max.	16ton
	最 大 長 Max. Length	130mm	電 動 機 Electromotor	主軸驅動用 For Motion of Main Spindle	3kw x 2
	最大 피치 Max. Pitch	5mm		油 壓 用 For Oil Pressure	2.2kw
	伸 率 Max. Elongation	10%		工作油用 For Working	0.1kw
Roll Dies	軸 徑 Hole Diameter	54 φ	本體外形치수 External form Measurement of this body	主軸中心高 Center Height of Main Spindle(mm)	920
	最大外徑 Max. Outside Diameter	200 φ		總 高 Total Height(mm)	1,900
	幅 Max. Width	130mm		面 積 Machine space(mm)	1,900x1,800
주축간거리	Distance Between the Spindle	140~240mm	重 量	Weight	2,200kg

NC ROLLING M/C

16 TON 4축 NC Servo Rolling Machine



다이소회전은 Servo Motor 2개를 설치하여 피치조정이 자유로우며 원하는 각도로 자유로이 다이스를 회전할 수 있어 Worm 가공후버니싱 작업에 탁월하다. 또한 진입 깊이를 서보로 제어하여 자유로운 세팅을 가능케하여 위상각 제품의 전조에 탁월한 설비입니다.

Dies tuning establishes 2 servo motors and adjust of pitch is free
Because can rotate dice freely by angle that want, is excellent in burnishing work after worm processing.

■ SPECIFICATION (사양)

ITEM	MODEL	16TON
轉造加能工作物 Construction Thing Available for Manufacture by Rolling	最大外徑 Max. Outside Diameter	45 φ
	最大長 Max. Length	150mm
	最大피치 Max. Pitch	5mm
	伸率 Max. Elongation	10%
Roll Dies	軸徑 Hole Diameter	54 φ
	最大外徑 Max. Outside Diameter	200 φ
	幅 Max. Width	150mm
주축간거리	Distance Between the Spindle	145~265mm

ITEM	MODEL	16TON
轉造力 Rolling Manufacture Power	最大 Max.	16ton NC
電動機 Electromotor	主軸驅動用 For Motion of Main Spindle	3kw x 2
	전·후진 Servo Motor	우측이동서보 모터 4kw
	工作油用 For Working	0.1kw
本體外形치수 External form Measurement of this body	主軸中心高 Center Height of Main Spindle(mm)	920
	總高 Total Height(mm)	1,300
	面積 Machine space(mm)	1,870x1,600
重量	Weight	3,500kg

2 DIES AUTO M/C

GANTRY AUTO M/C



통과전조 AUTO M/C

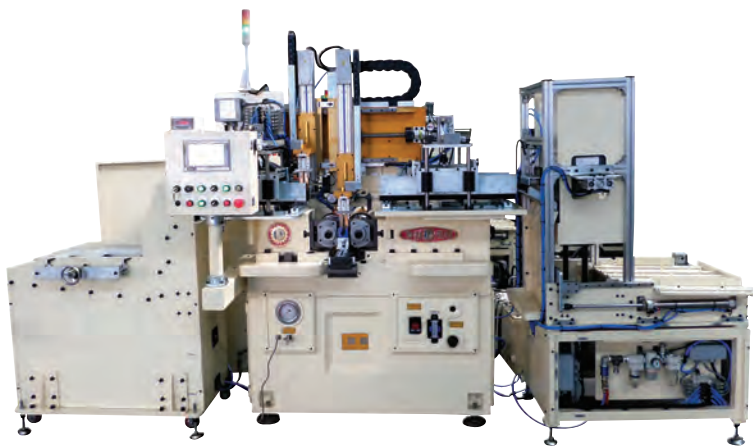


LIFT & CARRY,
GANTRY AUTO M/C



2 DIES AUTO M/C

15 TON AUTO M/C (3축 Servo) GANTRY AUTO M/C



15 TON AUTO M/C



3 DIES ROLLING M/C

3 DIES - 8, 15 TON



DIES 3개를 이용한 轉造方式으로서 中空製品, 엘보製品, 나사외경에 비례하여 제품 길이가 짧은 제품 등에 적합하며 CAM方式이 아닌 油壓 작동방식으로서 제품교환이 용이하며 轉造時 내경의 변화가 없으며 동심도 유지가 정확하여 轉造효율을 最大한 발휘할 수 있는機種입니다.

This is the Rolling System utilized with 3DIES and it is conformity with short length products compared with the screw outside diameter of hollow products and elbow products, and the products exchange is simple as oil pressure system, not CAM system. There is no diameter change in the time of Rolling and correct concentric maintenance, and it is the machine of which the Rolling efficacy can be shown.

■ SPECIFICATION (사양)

ITEM	MODEL	8TON	15TON	ITEM	MODEL	8TON	15TON	
轉造加能工作物 Rolling Possible Works	最大外徑 Max. Outside Diameter	50φ	80φ	轉造力 Rolling Manufacture Power	最大 Max.	8ton	15ton	
	最大長 Max. Length	40mm			電動機 Electromotor	主軸用 For Spindle Use	3.7kw	5.5kw
	最小外徑 Min. Outside Diameter	10φ (9φ)	14φ			油壓用 For Oil Pressure	1.5kw	2.2kw
Roll Dies	內徑 Internal Diameter	40φ (7/8")	40φ	工作油用 For Working Use		0.1kw		
	最大外徑 Max. Outside Diameter	108φ	130φ	外形尺寸 Outside Dimension	主軸中心高 Center Height of Main Spindle (mm)	850		
	最大幅 Max. Width	40 (30)	40		總高 Total Height (mm)	1,650	1,650	
제품중심에서 주축중심 최대 (Max. Spindle Center from the Products Center)	75 (60)	85	面積 Machine space (mm)		1,300 x 1,900	1,400 x 2,100		
제품중심에서 주축중심 최소 (Min. Spindle Center from the Products Center)	38 (27)	45	重量 Weight	1,800kg		2,100kg		

3 DIES ROLLING M/C

3 DIES - 50 TON



DIES 3개를 이용한 전조방식으로 중공제품의 길이가 긴 제품 전조에 적합하며 산업용 및 건축용의 삼각나사, TM나사, 각나사 등의 전조에 용이하다.

This is rolling way to use 3 DIESs. Length is long hollow product, and is easy to rolling of industry and thread screw for construction, TM screw, all screw etc.

▣ SPECIFICATION (사양)

ITEM	MODEL	3 DIES
轉造加能工作物 Rolling Possible Works	最大外徑 Max. Outside Diameter	100 φ
	最大長 Max. Length	10M
	最小外徑 Min. Outside Diameter	25 φ
Roll Dies	內徑 Internal Diameter	60 φ
	最大外徑 Max. Outside Diameter	230 φ
	最大幅 Max. Width	110
주축 회전각도 Max. Inclination of Spindles		9°
심간거리 Distance with Spindle and Workpiece		80~360

ITEM	MODEL	3 DIES	
轉造力 Rolling Manufacture Power	最大 Max.	50ton	
	主軸用 For Spindle Use	15kw	
	油壓用 For Oil Pressure	5.5kw	
電動機 Electromotor	工作油用 For Working Use	0.18kw	
	外形寸수 Outside Dimension	主軸中心高 Center Height of Main Spindle(mm)	1,000
		總高 Total Height(mm)	2,000
	面積 Machine space(mm)	1,770x2640	
重量	Weight	6,500kg	

3 DIES AUTO M/C

3 DIES AUTO M/C
(VERTICAL TYPE)



3 DIES AUTO M/C
(PUSHING TYPE)

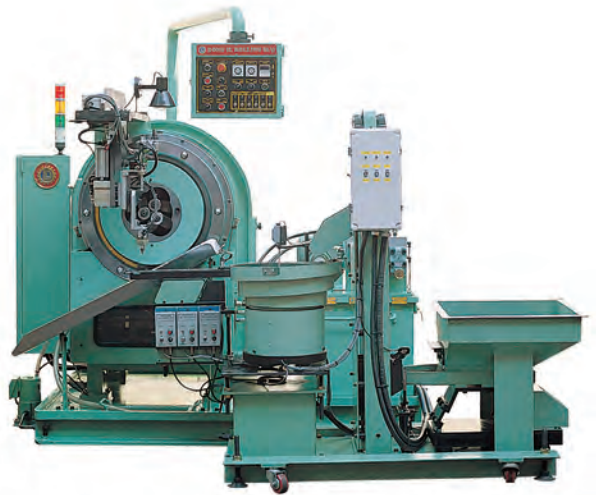


3 DIES AUTO M/C (HORIZONTAL TYPE)



3 DIES AUTO M/C

3 DIES AUTO M/C





東日 ROLLING

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