

# TWG-III A

## ROOL GROOVING MACHINE



### TWG-III A

- This machine is applicable for grooving of the end of 1"-4" steel pipes and 1"-2" plastic-lining pipes.
- The knurl shaft employs taper connection to facilitate the changing of knurl wheels.
- The unique integral hydraulic pump structure and groove depth limitation device ensure high channeling quality plus high working efficiency.

#### Technological Parameters

- **Processing Capability**  
 1"-4" (Φ33-Φ114) Steel pipe  
 1"-2" (Φ33-Φ60) Plastic-lining pipe  
 Max. wall thickness: 5mm  
 Output RPM: 23 rotations/m
- **Driving Power**  
 Three-phase motor, Voltage: 110-415V,  
 Power Capacity: 550W, Frequency: 50-60Hz  
 N.W.: 75kg  
 Packaging size: 640×580×1080mm
- Single-phase motor, Voltage: 110-240V,  
 Power capacity: 750W, Frequency: 50-60Hz  
 N.W.: 80kg  
 Packaging size: 690×580×1080mm

Order No.	Model	Description	Weight (kg)
G III A-001	TWG-III A	Three-phase 550W	117
G III A-002	TWG-III A	Single-phase 750W	120

#### Appendix

Drawing No.	Order No.	Model	Description	Weight (kg)
(3)	G III A05000	TWG-III A	Steel pipe support	17
(4)	G III A01008(Large)	TWG-III A	Knurl wheel(Φ57-Φ165)	1.06
(4)	G III A01006(Small)	TWG-III A	Knurl wheel(Φ33-Φ48)	0.6
(5)	G III A04007(Small)	TWG-III A	Pinch roll(Φ33-Φ48)	0.6
(5)	G III A04007(Large)	TWG-III A	Pinch roll(Φ57-Φ165)	0.6

# TWG-IV A

## ROOL GROOVING MACHINE



### TWG-IV A

- This machine is applicable for grooving of the end of 8"-24" steel pipes with a maximum wall thickness of 13 mm.
- Come with latest hydraulic pump plus stroke limitation devices to precisely and effectively control the depth of groove.
- The high-power high-performance gear reducing motor coupled with the steel pipe guide wheel ensures high channeling quality plus high working efficiency.
- Come with a foldable hydraulic steel support to contribute to easier operation and labor saving.

#### Technological Parameters

- **Processing Capability**  
8"-24" (Φ219-Φ630) Steel pipe  
Max. wall thickness: 12mm  
Output RPM: 14 rotations/m
- **Driving Power**  
Three-phase motor, Voltage: 110-415V,  
Power Capacity: 1500W, Frequency: 50-60Hz  
N.W.: 235kg  
Packaging size: 1010×810×1400mm  
  
Single-phase motor, Voltage: 110-240V,  
Power capacity: 2200-3000W, Frequency: 50-60Hz  
N.W.: 240kg  
Packaging size: 1060×810×1400mm
- **Standard Configuration**  
Hydraulic Steel pipe support, one piece (refer to fig. 3)  
A set of 8"-24" knurl wheel, 3 pieces, (refer to fig. 4)  
A set of 8"-24" pinch roll, 2 pieces, (refer to fig. 5)  
A set of guide wheel (refer to fig. 6)

Order No.	Model	Description	Weight(kg)
GIV A-001	TWG-IV A	Three-phase 1500W	350
GIV A-002	TWG-IV A	Single-phase 2200W	360

#### Appendix

Drawing No.	Order No.	Model	Description	Weight(kg)
(3)	GIV A04000	TWG-IV A	Hydraulic Steel pipe support	55
(4)	GIV A01018(Small)	TWG-IV A	Knurl wheel(Φ219-Φ325)	9
(4)	GIV A01018(Medium)	TWG-IV A	Knurl wheel(Φ377-Φ426)	8.7
(4)	GIV A01018(Large)	TWG-IV A	Knurl wheel(Φ480-Φ630)	8.3
(5)	GIV A01013(Small)	TWG-IV A	Pinch roll(Φ219-Φ530)	1
(5)	GIV A01013(Large)	TWG-IV A	Pinch roll(Φ630)	1
(6)	GIV A03000	TWG-IV A	Guide wheel	7.65

# TWG-V A

## ROOL GROOVING MACHINE



### TWG-V A

- Human-friendly design allows more convenient and safe moving of machine.
- The unique shaft-driving structure ensures easier assembling and servicing.
- Come with integral hydraulic pump, stroke limitation device and guide wheel, making it to be the most ideal machine for grooving of 2"-6" steel pipes.

#### Technological Parameters

- **Processing Capability**  
 2"-6" (Φ57-Φ168) Steel pipe  
 2"-3" (Φ57-Φ89) Plastic-lining pipe  
 Max. wall thickness: 6mm  
 Output RPM: 23 rotations/m
- **Driving Power**  
 Three-phase motor, Voltage: 110-415V,  
 Power Capacity: 550W, Frequency: 50-60Hz  
 N.W.: 58kg  
 Packaging size: 950×560×580mm  
  
 Single-phase motor, Voltage: 110-240V,  
 Power capacity: 750-1100W, Frequency: 50-60Hz  
 N.W.: 63kg  
 Packaging size: 1020×560×580mm
- **Standard Configuration**  
 Steel pipe support, one piece (refer to fig. 3)  
 A set of 2"-6" pinch roll, one pieces, (refer to fig. 4)  
 A set of 2"-6" knurl wheel, one pieces, (refer to fig. 4)  
 A set of guide wheel (refer to fig. 5)



Order No.	Model	Description	Weight (kg)
G V A-001	TWG- V A	Three-phase 550W	82
G V A-002	TWG- V A	Single-phase 750-1100W	85

#### Appendix

Drawing No.	Order No.	Model	Description	Weight (kg)
(3)	G V A06000	TWG- V A	Steel pipe support	7
(4)	G V A03006	TWG- V A	Pinch roll(Φ50-Φ168)	0.4
(4)	G V A01002	TWG- V A	Knurl wheel(Φ50-Φ168)	2
(5)	G V A05000	TWG- V A	Guide wheel	3.5

# ROLL GROOVING MACHINE



## TWG-VIA

- This machine is applicable for grooving of the end of 1"-12" steel pipes.
- The knurl shaft employs taper connection to facilitate the changing of knurl wheels.
- The unique foldable carriage allows the machine be folded and moved by one person.
- The split-type oil pump coupled with pedal switch enables safer and easier operation.

### Technological Parameters

- **Processing Capability**  
 1"-12" (Φ33-Φ325) Steel pipe  
 1"-3" (Φ33-Φ89) Plastic-lining pipe  
 Max. wall thickness: 10mm  
 Output RPM: 23-36 rotations/m
- **Driving Power**  
 Three-phase motor, Voltage: 110-415V,  
 Power Capacity: 1100W, Frequency: 50-60Hz  
 N.W.: 205kg  
 Packaging size: 1440×840×1180mm

Single-phase motor, Voltage: 110-240V,  
 Power capacity: 1500W, Frequency: 50-60Hz  
 N.W.: 208kg  
 Packaging size: 1440×840×1180

- **Standard Configuration**  
 Steel pipe support, one piece (refer to fig. 4)  
 A set of 1"-12" knurl wheel, 3 pieces, (refer to fig. 5)  
 A set of 1"-12" pinch roll, 3 pieces, (refer to fig. 6)  
 A set of guide wheel (refer to fig. 7)

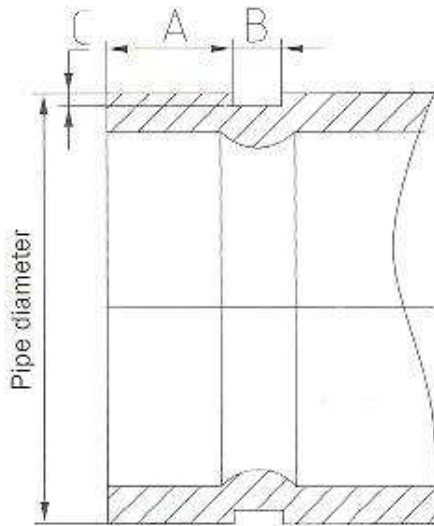


Order No.	Model	Description	Weight (kg)
GVI A-001	TWG-VIA	Three-phase 1100W	245
GVI A-002	TWG-VIA	Single-phase 1500W	248

### Appendix

Drawing No.	Order No.	Model	Description	Weight (kg)
(4)	GVI A08000	TWG-VIA	Steel pipe support	22.5
(5)	GVI A01005(Small)	TWG-VIA	Knurl wheel(Φ33-Φ48)	2.6
(5)	GVI A01005(Medium)	TWG-VIA	Knurl wheel(Φ60-Φ168)	3.3
(5)	GVI A01005(Large)	TWG-VIA	Knurl wheel(Φ219-Φ325)	4
(6)	GVI A02005(Small)	TWG-VIA	Pinch roll(Φ33-Φ48)	1.5
(6)	GVI A02005(Medium)	TWG-VIA	Pinch roll(Φ60-Φ168)	1.5
(6)	GVI A02005(Large)	TWG-VIA	Pinch roll(Φ219-Φ325)	1
(7)	GVI A05000	TWG-VIA	Guide wheel	6.7

# Pipe Rolled Basic Dimension & Balance Sheet

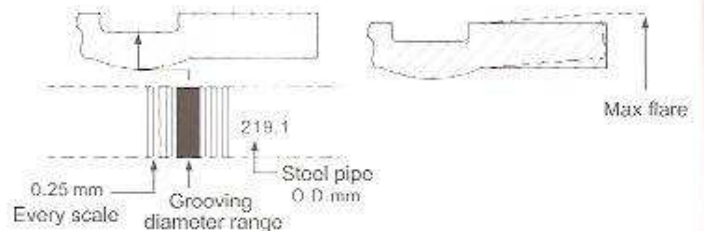
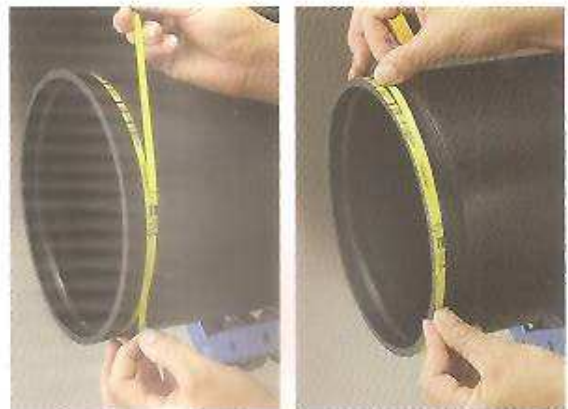


The grooved size of pipe

Nominal Pipe Dimension		Actual Pipe Dimension mm	A + 0.5 mm	B + 0.5 mm	C + 0.5 mm	Diameter of Groove Bottom		Max. Allow Flare Dia. mm
inch	mm					Max.	Min.	
1"	25	33	15.88	7.14	1.65	30.23	29.83	36.3
1 1/4"	32	42	15.88	7.14	1.65	38.99	38.61	45.0
1 1/2"	40	48	15.88	7.14	1.65	45.09	44.70	51.1
2"	50	57	15.88	8.74	1.65	53.85	53.47	60.1
2"	50	60	15.88	8.74	1.65	57.15	56.77	63.0
2 1/2"	65	76	15.88	8.74	1.98	72.26	71.88	78.7
3"	80	89	15.88	8.74	1.98	84.94	84.48	91.4
4"	100	108	15.88	8.74	2.11	103.73	103.22	110.5
4"	100	114	15.88	8.74	2.11	110.08	109.57	116.8
5"	125	133	15.88	8.74	2.11	129.13	128.62	135.9
5"	125	140	15.88	8.74	2.11	135.48	134.97	143.8
6"	150	159	15.88	8.74	2.16	153.21	152.45	161.3
6"	150	165	15.88	8.74	2.16	160.78	160.22	167.6
6"	150	168	15.88	8.74	2.16	163.96	163.40	170.9
8"	200	219	19.05	11.91	2.34	214.40	213.76	223.5
10"	250	273	19.05	11.91	2.39	268.68	267.59	277.4
12"	300	325	19.05	11.91	2.77	318.29	317.53	328.2
14"	350	377	23.83	11.91	2.94	371.12	370.36	381.0
16"	400	426	23.83	11.91	3.22	419.46	418.57	430.0
18"	450	480	25.40	11.91	3.45	473.10	472.20	484.1
20"	500	530	25.40	11.91	3.73	522.53	521.64	534.2
24"	600	630	25.40	13.46	4.37	621.26	620.37	635.0

## π Ruler

π ruler is a tool to measure the diameter of circular pipe in a simple, easy and accurate way. The diameter of pipe can be determined by wiring the π ruler around the pipe. π ruler is very useful in determining the depth of a groove. Henceforth, π ruler is a necessity for pipe installation.



15 TUWEI PIPE MACHINERY

# TWQ-III A PIPE CUTTING MACHINE



(1)



(3)



(4)



(5)

## TWQ-III A

- TWQ-III A Pipe Cutting Machine is applicable for cutting 2"-12" pipes of 10mm wall. The oil pump is particularly designed to shorten the idle stroke and reduce the cutting time.
- A 4" pipe can be cut within 60 seconds by only one person. The cut steel pipe has clean and tidy end. No sparks, dusts and dangerous metal chips are produced in the process of cutting.
- Come with human-friendly wheel to allow easy moving.

### Technological Parameters

#### Processing Capability

2"-12" (Φ60-Φ325) Steel pipe  
Max. wall thickness: 10mm  
Output RPM: 23 rotations/m

#### Driving Power

Three-phase motor, Voltage: 110-415V,  
Power Capacity: 750W, Frequency: 50-60Hz  
N.W.: 106kg  
Packaging size: 780×720×980mm

Single-phase motor, Voltage: 110-240V,  
Power capacity: 750-1100W, Frequency: 50-60Hz  
N.W.: 108kg  
Packaging size: 780×720×980mm

#### Standard Configuration

Steel pipe support, one piece (refer to fig. 4)  
Alloy blade, one pieces, (refer to fig. 5)

Order No.	Model	Description	Weight (kg)
QIII A-001	TWQ-III A	Three-phase 750W	154
QIII A-002	TWQ-III A	Single-phase 750W	157

### Appendix

Drawing No.	Order No.	Model	Description	Weight (kg)
(4)	QIII A02000	TWQ-III A	Steel pipe support	14
(5)	QIII A01014	TWQ-III A	Alloy blade	1.35

# TWK-III A

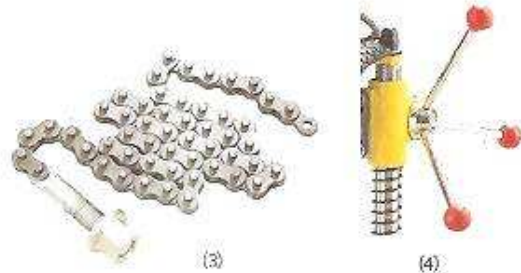
## HOLE CUTTING TOOL



(1)



(2)



(3)



(4)

## TWK-III A

- This machine is applicable for tapping of holes with diameter up to 4 1/2" (Φ114) on a steel pipe. Come with a high-performance low-noise gear motor to offer high torque.
- Best for tapping operation on pipes in mechanical and fire-fighting sectors.

Order No.	Model	Description	Weight (kg)
K III A-001	TWK-III A	Three-phase 550W	29
K III A-002	TWK-III A	Single-phase 550W	29

### Appendix

Drawing No.	Order No.	Model	Description	Weight (kg)
(3)	K III A-003	TWK-III A	Tightening chain	1
(4)	K III A-010	TWK-III A	Handle, 1 set	0.4

### Technological Parameters

- **Processing Capability**  
5/8"-4 1/2" (Φ16-Φ114)  
Output RPM: 110 rotations/m
- **Driving Power**  
Three-phase motor, Voltage: 110-415V,  
Power Capacity: 550W, Frequency: 50-60Hz  
N.W.: 20kg  
Packaging size: 340×340×620mm  
  
Single-phase motor, Voltage: 110-240V,  
Power capacity: 550-800W, Frequency: 50-60Hz  
N.W.: 20kg  
Packaging size: 340×340×620mm
- **Standard Configuration**  
Tightening chain, one piece (refer to fig 3)  
Handle, 1 set (refer to fig 4)