OPERATOR'S MANUAL

WORK SAFELY AT ALL TIMES WITH QUALIFIED OPERATORS ONLY.

QUALIFIED OPERATORS			
NAME	SHIFT	DATE	

SCOTCHMAN INDUSTRIES, INC. P.O. BOX 850 180 E. HIGHWAY 14 PHILIP, S.D. 57567-0850 (605) 859-2542 FAX # (605) 859-2499

MODEL SU-280 BAND SAW

written permission. Lesser quality parts may lead to injury.

SU-280 BAND SAW

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1.0 INTRODUCTION

This instruction manual has been made in compliance with Legislation according to the Machine's directive, 2006/42/CEE, and its subsequent amendments.

The instruction manual represents an integral part of the machine. It must be consulted before, during and after the machine is put into service, as well as whenever it is considered necessary, thereby respecting its content in each and every one of its parts.

This is the only way in which the fundamental objectives that have been established on the basis of this manual will be reached, such as accident prevention and making optimal use of the machine features. Within the framework of this manual, all aspects regarding safety and accident prevention on the job while using the machine have been considered in every detail, herein highlighting the information that is of greatest interest to the user.

○ ATTENTION

Carefully read this manual before installing the machine. The manual must be kept throughout the machine's lifetime in a place that is easy to find in the event that it is needed. In the event that a used machine is sold, the machine shall be sold together with this manual. In the event that the machine is scrapped, the identification plate and any other document supplied with the same shall be destroyed.

1.1 Legislation applicable to planning and construction

EN-12100-1 Machine Safety. Basic concepts, general design principles.

EN-12100-2 Machine Safety. Basic concepts, general design principles.

EN-13857 Safety distances to prevent dangerous zones from being reached by the upper extremities.

EN-60204/1 Electrical equipment of industrial machines.

EN-13850 Machine safety; emergency stop equipment.

2006/42/CEE on "Machine Safety."

93/68/CEE on the CE Marking (amendment)

73/23/CEE on "Safety of Electrical Material."

2004/108/CEE on "Electromagnetic Compatibility."

2.0 GENERAL MACHINE INFORMATION

Model:	SU-280
Serial number:	
Manufacture year:	
⊠ NOTE	
	ement parts, whether they are covered by the warranty or not, always state the of the machine, as well as the name of the part and the code that appear in the lews.

MAIN MOTOR POWER TRIF. 2 VEL MONOF.	1.5 HP
MOTOR SPEED	3000/1500 RPM - 1500 RPM
SHAVINGS PUMP POWER	0,09 Kw / 0,12 CV
CUTTING SPEED	80 / 40 m/min 262/131 FT/MIN
ANGLE OF CUT	30° RIGHT
BAND SAW BLADE DIMENSIONS	96.5 X 1 INCHES
CUT THICKNESS	1,5 mm
CLAMP; MAXIMUM OPENING	290 mm 11.5 INCHES

Noise level

At a distance of 60 cm

RUNNING OFF-LOAD MACHINING A 70x50 PROFILE 62 dB (A) Leq

83 dB (A) Leq

DIM	ENSIONS
WIDTH	55"
HEIGHT	69"
LENGTH	33.5"

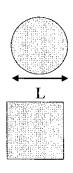




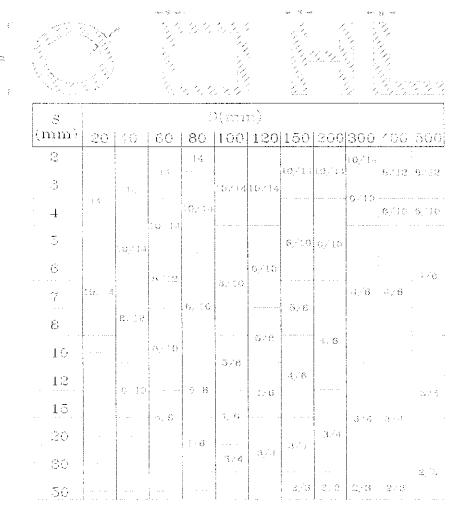




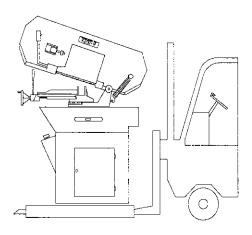
90°	8.5"	8.5"	11 X 7"
45° RIGHT	7"	6.25"	7 X 6.25"
30° RIGHT	7"	4.25"	4.25 X 4"

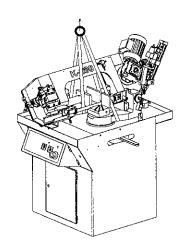


L (MM)	TEETH PER INCH
20MM 3/4"	10/14, 8/12
20 - 40MM 3/4 - 1-1/2"	6/10, 6
40 - 70MM 1-1/2 TO 2-3/4"	6, 4/6
70 - 140MM 2-3/4 TO 5-1/2"	4, 3/4
140 - 200MM 5-1/2 TO 7-3/4"	3/4, 3
200 - 400MM 7-3/4 TO 15-3/4"	3, 2/3
400MM 15-3/4"	1/2, 1.25



4. INFORMATION ABOUT TRANSPORT & STORAGE





Due to the size of the machine, it should be transported on a forklift or by a crane bridge, using slings. If the machine is left in storage for a long period of time, lubricate periodically.

Do not expose to the elements.

The machine is supplied in a properly designed and sized wood crate, and it is also supplied wrapped in plastic.

CAUTION

Do not improperly dispose of the packaging. Send the materials to be recycled or eliminated in accordance with current legislation.

5. INSTRUCTIONS FOR ANCHORING AND SERVICE START-UP

5.1 Anchoring instructions

The machine must first be checked in order to ensure that it has not suffered any damage during transport. If so, immediately contact the manufacturer.

The machine must be installed on a firm surface that is as level as possible in order to reduce vibrations during operation and so that it operates according to the parameters established by the manufacturer.

5.2 CONNECTION TO THE ELECTRIC SYSTEM

Ensure that the power supply voltage corresponds to the to the voltage and phase of the machine. Connect the cable $(4 \times 1.5 \text{ sleeve})$ to the electric system using a plug that is appropriate for the characteristics of the same, in accordance with the National Electric Code.

After the machine has been connected, verify that the rotation of the hydraulic power pack motor agrees with the direction indicated by the arrow shown on the same. If the motor rotation is not correct, reverse the two phase connections of the line and then check again.

The pneumatic connection must be made to the supply system using a tube that is appropriate for the spigot of the machine. Adjust the pressure at the filtering group.

5.3 INSTALLING THE BAND SAW BLADE

In order to install the band saw blade:

Lift the frame guard and remove the blade guide guards.

Loosen the tension adjuster.

Put on the band saw blade, sending it through the interior of the guides.

Re-tighten the tension adjuster.

Put on all of the guards.

Turn the saw manually and use a brush to lubricate in between the two guides using SAE 30 lubricating oil.

- **○** ATTENTION: When replacing the band saw blade, always use protective gloves.
- DANGER: After changing the band saw blade, put on all guards again. It is absolutely prohibited to work with them removed.

5.4 CUTTING COOLANT

When filling the cutting coolant, only use WATER SOLUBLE SYNTHETIC cutting oil mixed in a 7 to 1 ratio and pour it in through the coolant down-tube on the machine mount.

☒ CAUTION

When it is necessary to empty the liquid coolant tank, do not improperly dispose of the coolant.

ATTENTION

The use of any other kinds of coolants may cause irreparable damage to the machine, as well as diminish the quality of the cut and reduce the life of the saw.

6. INSTRUCTIONS FOR USE

6.1 PROPER AND IMPROPER USE

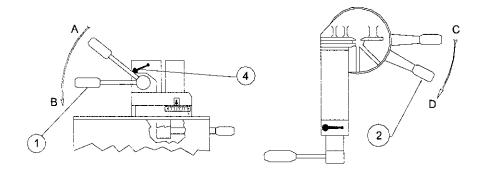
Band saw machine for cutting all kinds of ferrous materials.

Use of the machine for cutting other materials is prohibited. Such use may cause damage to the machine and risk the safety and health of the worker.

DANGER

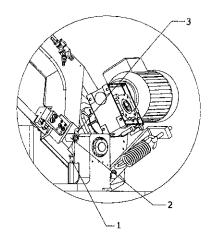
We are hereby not liable for any possible accident caused by the failure to comply with the aforementioned provision.

6.2 FUNCTION OF THE OPERATING MECHANISMS



- 1. The vise is closed using lever no. 1. Work with the vise jaws less than ¼ inch (6 mm) from the material to be secured.
- 2. Angle locking lever. Set to position C to allow angled rotation.

6.3. RAISING AND LOWERING THE STOP



The machine is fitted with lowering stops and a mechanical safety

Stop. Use the washer on the arc bolt to adjust the height.

- **○** WARNING: When performing the cut, it is important that the saw should be lowered at a constant rate, with no sharp changes of speed. If the saw becomes jammed in the material, release the rotation control and raise the head.
- ☑ IMPORTANT: Always secure the material with the vise jaws and never by hand.

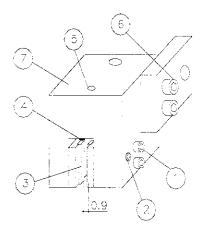
7. TROUBLESHOOTING/CORRECTIVE MAINTENANCE

POSSIBLE CAUSES
Check that the main switch is connected to the power sup-
ply.
Motor fuse has blown.
2A fuse has blown.
The rear arc guard has not activated the safety micro-switch, or this is not working properly.
Check the operating contactor, start-up control and transformer.

Tension too low or too high. See Section 5.3
Condition of the cutting saw.
Coolant liquid used. PURE SYNTHETIC must be used.
Condition of the blade guide plates.
Guide adjustment. See Section 7.1
Tension too low or too high. See Section 5.3
Guide plates worn.
Excessive pressure from upper plate. See Section 7.1
Downwards feed in high or batch cutting.
Quality or pitch of blade unsuitable for the material or sec-
tion to be cut.
Coolant liquid used. PURE SYNTHETIC must be used.
State of blade guides. See Section 7.2
Excessive tension in cutting saw.
Bearings no. 26, 46 Figure 10.3
State of the cutting saw.
Top up with hydraulic oil (viscosity 32); to do so, the pressure
gauge must be removed.
Check for oil leaks. State of internal flanges.
Tensing mechanism. Flywheel and bearing.

7.1 ADJUSTMENT OF CUTTING BLADE GUIDES

In order to obtain a correctly squared cut, you must make sure that there is a distance of .035 thousandths of an inch (0.9 mm) between the side plates (3), so that they are all in contact with the blade.



To adjust this distance, follow the instructions given below:

- 1. Loosen screws (1)
- 2. Place a .035 (0.9 mm) gauge or sheet between the plates and adjust the distance using the stud (2). The gauge must slide smoothly but without wobbling. (If a gauge is not available, a piece of the cutting blade from the machine may be used.)

The upper plate may also be exerting excessive pressure on the cutting blade, resulting in a widening at the upper edge. To prevent this, loosen the screws (6) and slightly raise the blade guide (7).

The guide must be positioned so that after rotating the saw when it is not in contact with any material, the plate (4) must not exert any downward pressure on the cutting blade when at rest (there should be a clearance of .004 (0.1 mm) with the blade).

7.2. CHANGING THE GUIDE PLATES

Over time, the side plates (3) and the upper plate (4) may need to be replaced. To do so, follow the steps indicated below:

- 1. Loosen the screws (1) on both sides of the guide and remover the lateral plates.
- 2. Tap the plate (4) through the hole (5) until it comes out of its housing.
- 3. Fit the upper plate and then the side plates (3).
- 4. Adjust the lateral clearance of the plates, as explained in the previous section, Adjustment of cutting blade guides.

8.0 RECOMMENDATIONS & MAINTENANCE

8.1 TYPE & FREQUENCY OF REVIEWS

LUBRICATION POINTS	TYPE OF GREASE/OIL	FREQUENCY
Arc turning bolt Fig. 10.2	BEARING GREASE	YEARLY
Long blade-guide bracket Fig. 10.3	SAE 30	WEEKLY
Bearings no. 26, 46 Fig. 10.3	BEARING GREASE	WEEKLY
СНЕСК	MATERIALS TO USE	FREQUENCY
Saw blade tension.	100 BARS	DAILY
Check level of coolant liquid	Top up with WHITE COOLANT	DAILY
Cleanliness of machine	Diluted mild degreasing fluid	WEEKLY
Cleanliness of coolant tank	Damp cloth, brush	MONTHLY
Condition of nylon shavings guard Fig.10.4	Replace if necessary	MONTHLY
Saw blade guides.	Sections 7.1 and 7.2	MONTHLY

9.0 GENERAL RULES & SAFETY CHECKS

- Before using the machine, check the effectiveness and perfect operation of the safety devices. Check that the moving parts of the machine are not blocked, that there are no damaged elements and that all of the machine components are positioned correctly and that they work properly.
- · Verify that the motor-guard switch works correctly by testing it during a no-load cycle of the machine.
- · It is absolutely prohibited to manipulate any safety device.
- It is absolutely prohibited to work without the guards in place.
- · It is mandatory to use gloves when changing the saw blade.
- It is mandatory to use officially approved work clothing, which must be fastened.
- Before starting work, the operator must be sure to remove all tools and wrenches that have been used for any maintenance or adjustments.
- In the event of fire, use powder extinguishers and disconnect the machine from the electric system.

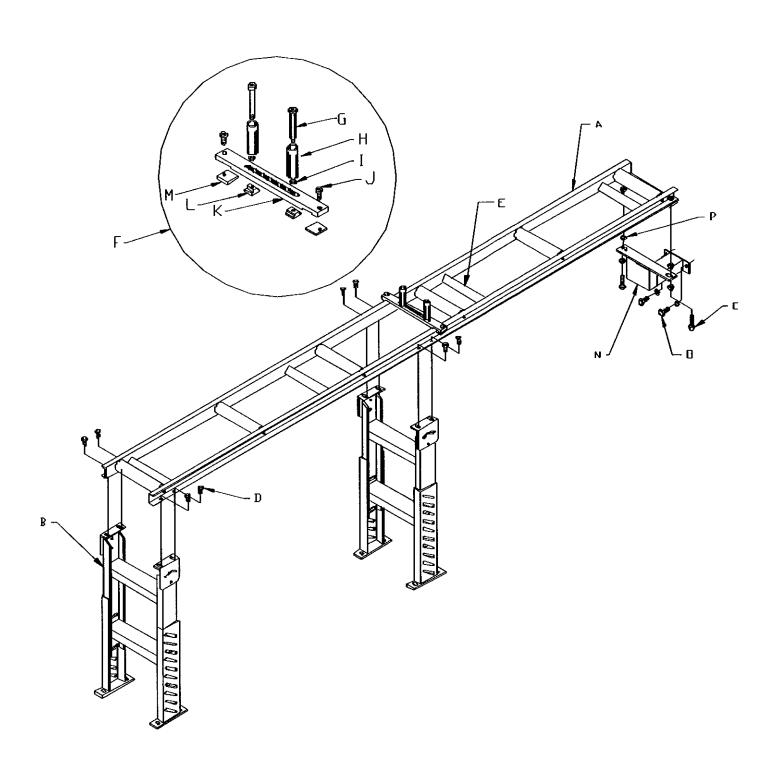
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10.1 MATERIAL SUPPLY TRACKS

A ten foot roller supply track, that can be bolted to the input side of the saw to support longer pieces of material, is an available option for this saw. The supply tracks can also be bolted end to end, to supply longer tracks, if needed. The ten foot supply track bolts to the machine on the left side of the base casting.

SEE THE DRAWING ON THE FOLLOWING PAGE.

- 1. Attach the roller support bracket (N) to the left side of the base casting with the 10 x 30mm hex head bolts and lock washers provided.
- 2. Bolt the legs (B) to the rail assembly (A) with the remaining 10 x 30mm hex head bolts.
- 3. Place the two remaining 10×80 mm hex bolts through the end of the rail assembly and lock them in place with the hex nuts.
- 4. Thread another nut on each bolt and attach the track to the support bracket with the remaining two 10mm hex nuts.
- 5. Space the rollers along the rail at an even spacing.
- 6. Adjust the supply track so that the rollers are at the same level as the bed of the material vise on the saw. The track is adjusted by loosening the bolts in the legs and the bolts that attach the support Bracket to the track.
- 7. The track may be anchored to the floor, using the mounting holes provided.
- 8. The optional vertical guide assembly (F) can be used as a guide for materials that do not lay flat on the feed roller.



10.2 DISCHARGE TRACKS WITH SCALES

Roller discharge tracks equipped with either a right or left hand quick-loc are available in two lengths:

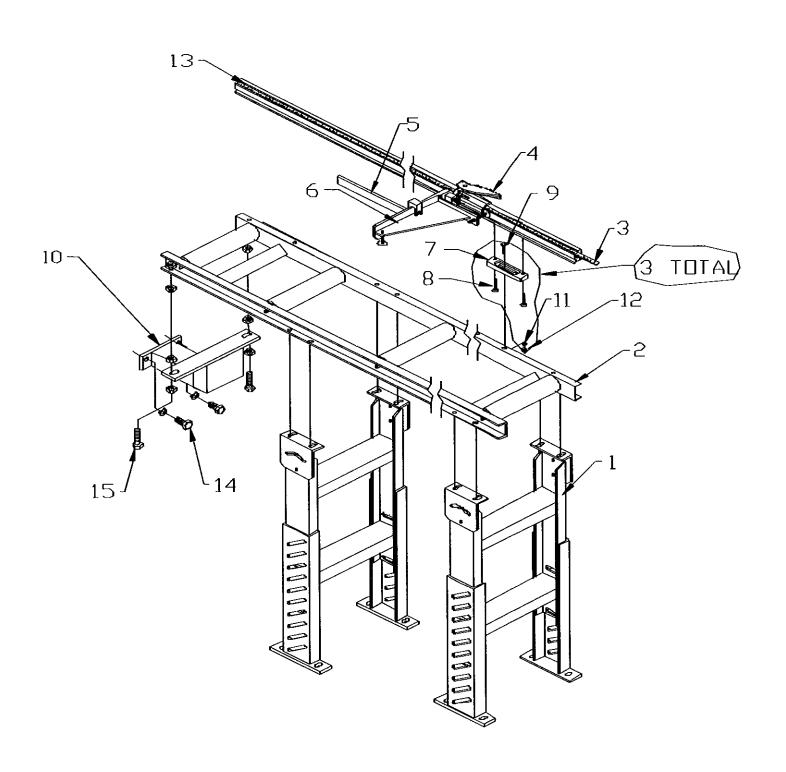
60" and 120" (122 & 303 CM).

The discharge tracks mount to the machine in place of the 30 inch (76 CM) stop that was provided with

the machine. The discharge tracks allow fast set-up and accuracy for various lengths of cuts.

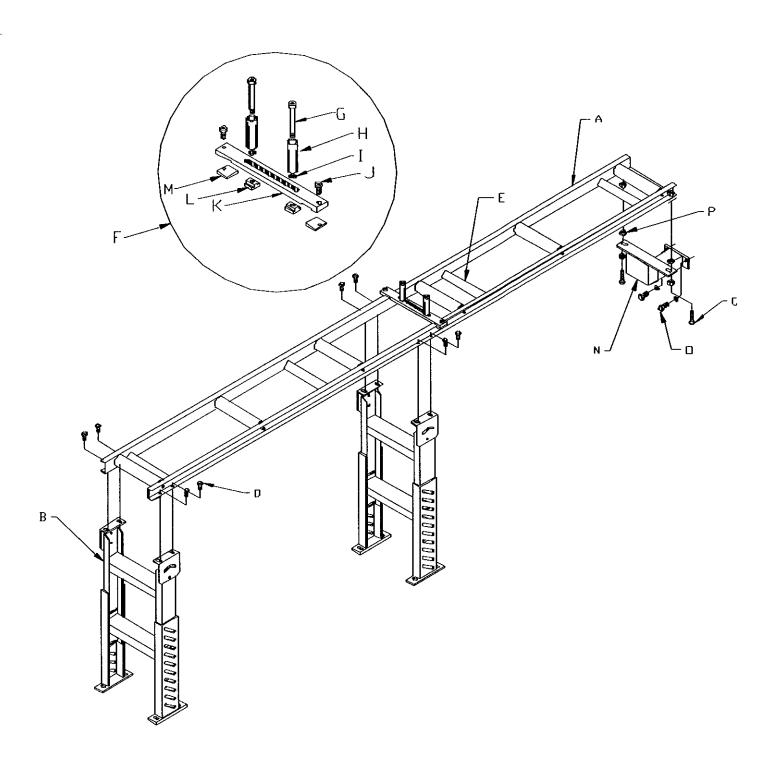
SEE THE DRAWING ON THE FOLLOWING PAGE.

- 1. Bolt the support bracket (A) to the side of the base casting with the 10 x 30mm head bolts and lock washers provided.
- 2. Bolt the legs (B) to the rail assembly (C) with the remaining 10 x 30mm hex head bolts.
- 3. Place the two remaining 10×80 mm hex bolts through the end of the rail assembly and lock them in place with the hex nuts.
- 4. Thread another nut on each bolt and attach the track to the support bracket with the remaining two 10mm hex nuts.
- 5. Space the rollers along the rail at an even spacing.
- 6. Adjust the discharge track so that the rollers are at the same level as the bed of the material vise on the saw. The track is adjusted by loosening the bolts in the legs and the two bolts that attach the rail to the support bracket.
- 7. After a discharge track is mounted, the scale should be calibrated. To do this, draw the saw head down and set the quick-loc extension (6) ten inches from the blade. Install the scale so that the ten inch mark lines up to the quick-loc pointer. When the quick-loc extension (5) is used, you have to add ten inches to the length of the part that you want to cut. If the stop requires fine adjustments, remove the quick-loc handle from the track and turn it over. There is a fine adjustment on the bottom side of the quick-loc handle.



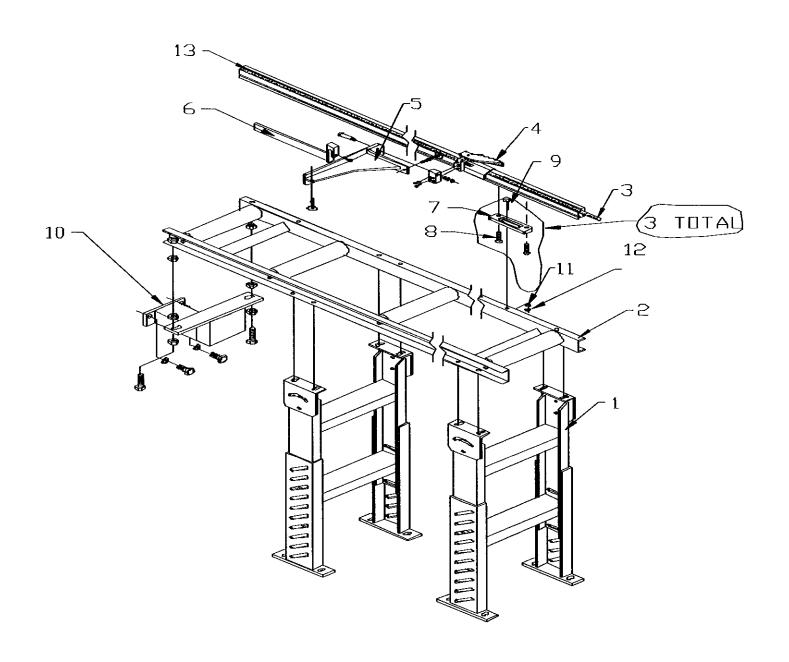
10.3 TEN FOOT (304 CM) SUPPLY TRACK

ITEM	PART #	DESCRIPTION
A	029243	Conveyor Assembly
В	029244	Leg Assembly
C	204230	M-10 x 100 HHCS
D	221210	M-10 x 25 HHCS
E	029245	Roller
F	076938	Optional Guide Assembly
G	229225	M-10 x 70 Shoulder Bolt
Н	043003	Guide Roller
I	214012	M-10 Washer
J	221120	M-8 x 25 SHCS
K	076943	Mounting Plate
L	026619	Tee Nut
M	076941	Guide Bar
N		Mount Support
0	203212	M-10 x 30 HHCS
P	208012	M-10 Hex Nut
Q	029989	Complete 10' Supply Track
R	029995	Complete 20' Supply Track

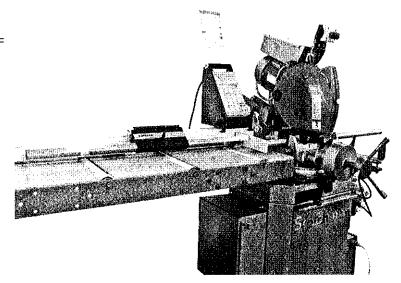


10.4 DISCHARGE TRACKS W/QUICK-LOC (60 & 120 INCH)

ITEM	PART#	DESCRIPTION
	COMMON PARTS	
1	029244	Leg Assembly
2	029241	60" Roller Conveyor
2A	029243	120" Roller Conveyor
5	029114	Quick-Loc Arm Extension
7	029175	Rail Mounting Bracket
8	130107	5/16 x 18 x FSHCS
9	130212	3/8 x 16 x 1-1/4 C-Bolt
10		Mounting Bracket
11	114011	5/16 Washer
12	108012	3/8 x 16 Hex Nut
14	203212	M-10 x 30 HHCS
15	204230	M-10 X 100 HHCS
	60" RIGHT HAND	
3	029226	Tape
4	029232	RH Quick-Loc
6	029100	RH Quick-Loc Extension
13	029201	60" Main Rail
	60" LEFT HAND	
3	029220	Tape
4	029230	LH Quick-Loc
6	029100	LH Quick-Loc Extension
13	029201	60" Main Rail
	120" RIGHT HAND	
3	029226	Tape
4	029232	RH Quick-Loc
6	029100	RH Quick-Loc Extension
13	029206	120" Main Rail
	120" LEFT HAND	
3	029220	Tape
4	029230	LH Quick-Loc
6	029100	LH Quick-Loc Extension
13	029206	120" Main Rail
	COMPLETE ASS'Y	
	029220	60" RH
	029998	60" LH
	029990	120" RH
	029992	120" LH



Scotchman SG Measuring System



Stop pulling a tape! Stop marking! Stay productive!

Quick. easy installation

Simple keypad design ~ makes every operator your best

Works the way you do: Enter feet, inches, fractions & decimal fractions, or switch to metric mode

Adjustable stop

Flip stop ~ can be flipped up, away from table to back feed

Portable power head ~ quickly detaches from rail

List storage: Holds 10 lists with up to 10 moves each

Quick and easy calibration

Options include: Roller conveyors, flat tables, Brackets to mount to saw, or legs for free standing tables.

Ideally suited for these machines:

Cold Saws

Aluminum cutting saws

Abrasive saws

Drill presses

Iron workers

Wood saws

Anywhere you are pulling a tape measure to mark a measurement

System Specifications

Sizes:

8' and 12' working lengths

Speed:

125 ft/min.

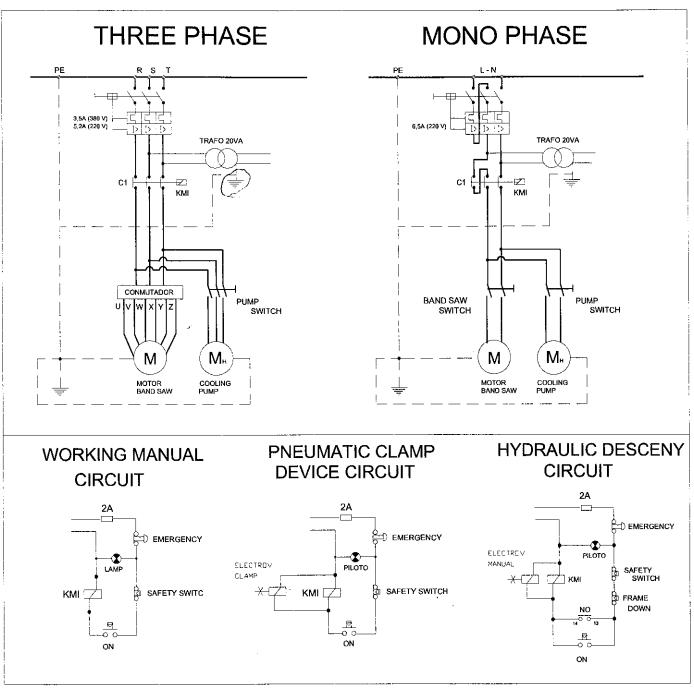
Accuracy:

Repeatable accuracy of +/-.008

Voltage:

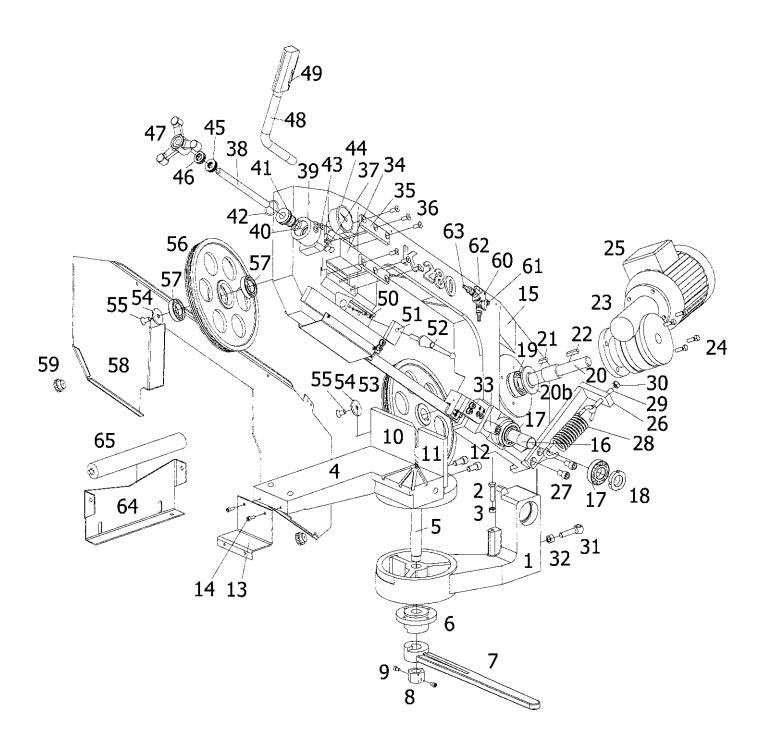
110 VAC

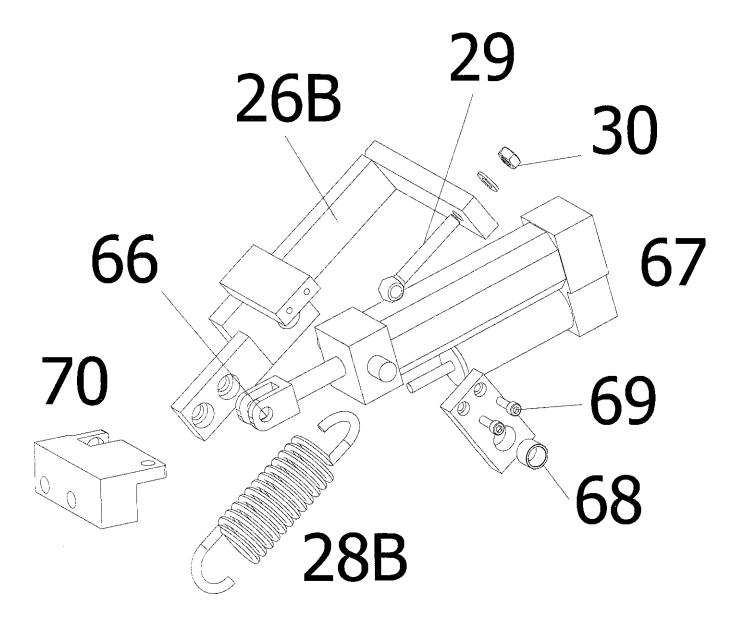
11.0 DRAWINGS & SCHEMATICS



DESCRIPTION	CODE	DESCRIPTION	CODE
MAIN SWITCH		1,3 HP MONO PHASE MOTOR	2K280000M3
EMERGENCY	£0000000010	COOLING PUMP	2K20000051
SAW BLADE ON	2K20000071	FUSE 2 A	E000000024
SAFETY SWITCH	E00000D681	GREEN INDICATOR 24 V.	E000000030
MINICONTACTOR 4 KW N.O.	E000000013	PUMPO SWITCH	2K30000131
CONMUTADOR 1-0-2	2K30000141	BAND SAW SWITCH	2K30000131
1,5/1,1 HP MOTOR III 380V - III 220 V	2K280000M1	TRANSFORMER 20 VA	E000000021
	2K280000M2		
END-OF-TRAVEL FRAME DOWN	E000000025		

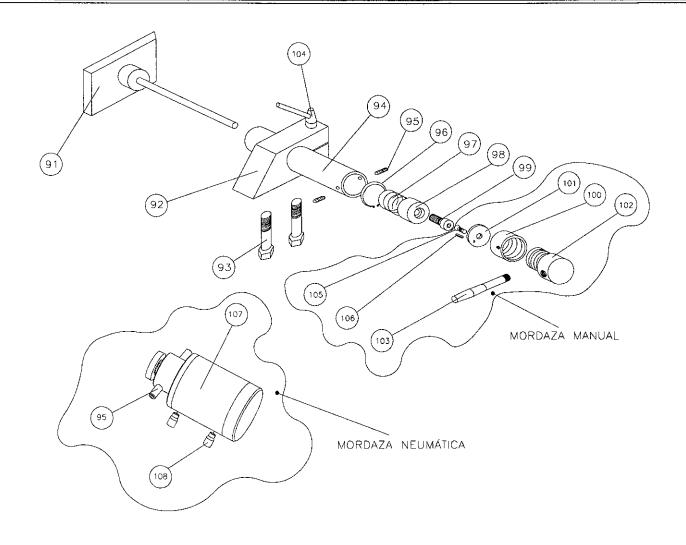
11.2 MACHINE EXPLODED VIEW





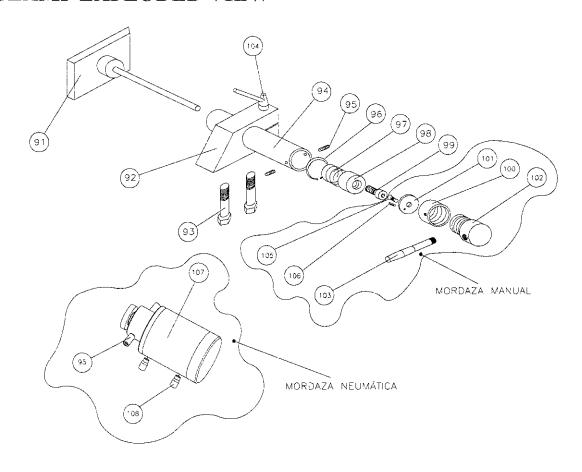
13 CLAMP FIX PLATE 2K28000151 46 51103 BEARING 2K26000721 14 M-6x16 DIN 912 SCREW TD91206016 47 M-16 WHEEL B000000140 15 ALUMINIUM ARCH K-280 2K28000005 49 OPERATE BAND SAW 2K20000071 17 30206 BEARING 2C30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT T00TCM3015 51 MOVIL GUIDE BRAKE 2K20000481 19 6206 2RS BEARING 2K20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2K20000151 53 REDUCTER DISC 2K28000311 20 BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K26000422 22 8x7x35 PIN 2K20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000041 57 CROSS STREW TD79911020 22 8x7x35 PIN 2K20000041 57 ALUMP STREW STR					<u> </u>	
M-10-AGO DIN 933 SCREW 1D93330040 35 ADJUST GUIDES 2K20000661 35 NUI DIN 934 M-10 1D93400010 36 M-8-20 DINN7991 SCREW 1727910820 4 CLAMP MOLTEN IRON BASE 2K28000021 37 M-16 DIN 934 NUT 1D93400016 5 BCOCKADE AXIS K-280 2K28000021 38 TENSION SHAFT M 16x215 2K26000101 7 BLOCKADE AXIS K-280 2K28000221 38 TENSION SHAFT M 16x215 2K26000161 7 BLOCKADE AXIS K-280 2K28000281 40 62 2k 28 k 4,5 HYDRAULIC SEAL 2K2600741 8 BLOCKADE NUT DEGRESS 2K28000281 40 62 2k 28 k 4,5 HYDRAULIC SEAL 2K2600741 10 LEFT REST PLATES 2K28000111 43 K*ROUND TO0000M614 11 REFT REST PLATES 2K2800111 43 K*ROUND TO0000M614 11 REFT REST PLATES 2K2800111 40 150 K*ROUND TO0000M614 11 REFT REST PLATES 2K28001151 40 150 K*ROUND TO0000M614 11 REFT REST PLATES 2K28001151 40 150 K*ROUND TO0000M614 11 REFT REST PLATES 2K28001151 40 150 K*ROUND TO0000M614 11 REFT REST PLATES 2K28000151 40 150 K*ROUND TO0000M614 11 REFT REST PLATES 2K28000151 40 150 K*ROUND TO0000M614 40 150 K*ROUND TO00000M614 40 150 K*ROUND TO00000M614 40 150 K*ROUND TO00000014 40 150 K*ROUND TO000000014 40 150 K*ROUND TO000000014	Nº	DESCRIPTION	CODE	Νō	DESCRIPTION	CODE
3	1	ARCH SUPPORT	2K28000061	34	TENSION ADJUSTER CARRIAGE	2K28000291
4 CLAMP MOLTEN/RON BASE 2X28000011 37 M-16 DIN 934 NUT 1D93400016 5 BLOCKADE AXIS K-280 2X28000021 38 TENSION CYLINDER 2X2000311 6 ECCENTRIC 2X20000681 39 TENSION CYLINDER 2X2000311 7 BLOCKADE LEVER DEGRESS 2X20000671 41 TENSION CYLINDER 2X2000741 8 BLOCKADE RUIT DEGRESS 2X20000671 41 TENSION CYLINDER PISTON 2X37000321 9 M-SKID DIN 912 SCREW TD912106010 42 Ø 35 x 45 x 6 HYDRAULIC SEAL 2X26001741 10 LEFT REST PLATES 3X28000171 43 X" ROUND TD0000MB14 11 RIGHT REST PLATES 2X28000181 44 0-160 N" MANOMETER 2X30000121 12 M-12220 DIN 912 SCREW TD91210200 45 A-3-1,5 (4) SPRING SOCKET 2X3000011 13 CLAMP FIX PLATE 2X28000151 46 \$1103 BEARING 2X26000721 14 M-6016 DIN 912 SCREW TD91210200 47 M-16 WHEEL 800000000140	2	M-10x40 DIN 933 SCREW	TD93310040	35	ADJUST GUIDES	2K20000461
5 BLOCKADE AXIS K-280 2X28000021 38 TENSION SHAFT M-16/215 2X20000101 6 ECCENTRIC 2X20000681 39 TENSION CYUNDER 2X37003313 7 BLOCKADE LEVER DEGRESS 2X28000281 40 0 22 x 28 x 4,5 HYDRAULIC SEAL 2X2000741 8 BLOCKADE NUT DEGRESS 2X20000671 41 TENSION CYUNDER PISTON 2X3700321 9 M-6x10 DIN 912 SCREW T091206010 42 33 x 45 x 6 HYDRAULIC SEAL 2X26001741 10 LEFT REST PLATES 2X2800181 44 0.160 W MANOMETER 2X3000121 11 RIGHT REST PLATES 2X2800151 46 51103 REARING 2X3000011 12 M-12x20 DIN 912 SCREW T091212020 45 A-31,5 (4) SPRING SOCKET 2X37000011 13 CLAMP FIX PLATE 2X28000151 46 51103 REARING 2X26000721 14 M 6x16 DIN 912 SCREW T091206016 47 M-16 WHEEL B000000140 15 ALUMINIUM ARCH K-280 XX28000151 48 LEVER OF DESCENT 2X2000021 <td>3</td> <td>NUT DIN 934 M-10</td> <td>TD93400010</td> <td>36</td> <td>M-8x20 DINN7991 SCREW</td> <td>TZ79910820</td>	3	NUT DIN 934 M-10	TD93400010	36	M-8x20 DINN7991 SCREW	TZ79910820
EXECUTIFIC 2K20000681 39 TENSION CYLINDER 2K37005311 7 8IOCKADE LEVER DEGRESS 2K28000281 40 60 22 x 28 x 4,5 HYDRAULIC SEAL 2K26000741 8 8IOCKADE NUT DEGRESS 2K20000671 41 TENSION CYLINDER PISTON 2K37005321 9 M-6x10 DIN 912 SCREW TD91206010 42 69 35 x 45 x 6 HYDRAULIC SEAL 2K26001741 33 35" ROUND T00000M614 34" ROUND T00000M614 34" ROUND T00000M614 34" ROUND T00000M614 35" ROUND T000000M614 35" ROUND T00000M614 35" ROUND T000000M614 35" ROUND T000000M614 35" ROUND T000000M614 35" ROUND T000000M614 35" ROUND T0000000M614 35" ROUND T000000M614 35" ROUND T0000000M614 35" ROUND T0000000M614 35" ROUND T0000000M614 35" ROUND T0000000M614 35" ROUND T00000000M614 35" ROUND T00000000M614 35" ROUND T00000000M614 35" ROUND T00000000M614 35" ROUND T000000000 T0000000000000000000000	4	CLAMP MOLTEN IRON BASE	2K28000011	37	M-16 DIN 934 NUT	TD93400016
7 BLOCKADE LEVER DEGRESS 2X28000281 AD Ø 22 × 28 × 4,5 HYDRAULIC SEAL 2X20000721 8 BLOCKADE NUT DEGRESS 2X20000671 41 TENSION CYLINDER PISTON 2X37005321 9 M - ØLI DIN 912 SCREW TD91206010 42 Ø 35 × 45 × 6 HYDRAULIC SEAL 2X26001741 10 LEFT REST PLATES 2X28000181 43 X" ROUND T00000MB14 11 RIGHT REST PLATES 2X28000181 44 0-160 W" MANOMETER 2X30000121 12 M-12x20 DIN 912 SCREW TD91210200 45 A-31,5 (4) SPRING SOCKET 2X3700MU31 13 CLAMP FIX PLATE 2X28000151 46 51103 BEARING 2X26000721 14 M-6x16 DIN 912 SCREW TD91206016 47 M-16 WHEEL B0000000140 15 ALUMINIUM ARCH K-280 2X28000011 48 LEVER OF DESCENT 2X20000061 16 ARCH BOLT 2X28000005 49 OPPRATE RAND SAW 2X20000061 18 M-30x1,5 SAFETY NUT T00TCM3015 51 MOVIL GUIDE BRAKE 2X20000	5	BLOCKADE AXIS K-280	2K28000021	38	TENSION SHAFT M-16x215	2K26000101
B	6	ECCENTRIC	2K20000681	39	TENSION CYLINDER	2K37005311
9	7	BLOCKADE LEVER DEGRESS	2K28000281	40	Ø 22 x 28 x 4,5 HYDRAULIC SEAL	2K26000741
10 LEFT REST PLATES 2X28000171 43 X" ROUND T00000MB14 11 RIGHT REST PLATES 2X28000181 44 0-160 X" MANOMETER 2X30000121 12 M-12x20 DIN 912 SCREW TD91212C20 45 A-31,5 (4) SPRING SOCKET 2X3700MU31 13 CLAMP FIX PLATE 2X28000151 46 51103 BEARING 2X28000011 14 M-6x16 DIN 912 SCREW TD91206016 47 M-16 WHEEL B000000140 15 ALUMINIUM ARCH K-2B0 2X28000101 48 LEVER OF DESCENT 2X20000061 16 ARCH BOLT 2X28000005 49 OPERATE BAND SAW 2X20000071 17 30206 BEARING 2C30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT T001CM3015 51 MOVIL GUIDE BRAKE 2X20000481 19 6206 2RS BEARING 2X20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2X20000151 53 REDUCTER DISC 2X280003R1 20 BEARING REDUCER COVER 2X2600041 55 M-10x20 DIN7991 SCREW TD79911020 21 8x7x35 PIN 2X2000041 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2X2000041 55 G006 2RS BEARING 2X28000311 23 T50 REDUCTOR 1/30 THREE - 1/15 MONO 2X28000041 55 M-6 WHEEL B0000P1025 24 M-8x25 DIN 933 SCREW TD93308055 56 RECH PROTECTOR 2X28000311 25 1,5/1,1 HP 3000/1500 RPM MION PLASE MOTOR 2X280000M3 2,1 HP 19000/1500 RPM MION PLASE MOTOR 2X280000M3 2,1 HP 1900/1500 RPM MION PLASE MOTOR 2X280000M3 2,1 HP 19000/1500 RPM MION PLASE MOTOR 2X280000M3 2,1 HP 190	8	BLOCKADE NUT DEGRESS	2K20000671	41	TENSION CYLINDER PISTON	2K37005321
11 RIGHT REST PLATES 2X28000181 44 0-160 % MANOMETER 2X30000121 12 M-12x20 DIN 912 SCREW TD91212C20 45 A-31,5 (4) SPRING SOCKET 2X3700MU31 13 CLAMP FIX PLATE 2X28000151 46 51103 BEARING 2X28000721 14 M-6x16 DIN 912 SCREW TD91206016 47 M-16 WHEEL B0000000140 15 ALUMINIUM ARCH K-280 2X28000101 48 LEVER OF DESCENT 2X20000061 16 ARCH BOLT 2X28000005 49 OPERATE BAND SAW 2X20000071 17 30206 BEARING 2C30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT TO0TCM3015 51 MOVIL GUIDE BRAKE 2X20000481 19 G206 2RS BEARING 2X20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2X20000151 53 REDUCTER DISC 2X28000381 2X20000491 24 Bx7x25 PIN 2X20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2X20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2X20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2X20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2X20000041 57 6006 2RS BEARING 2X28000311 55 M-10x20 DIN7991 SCREW TD79911020 2X28000311 57 6006 2RS BEARING 2X280003	9	M-6x10 DIN 912 SCREW	TD91206010	42	Ø 35 x 45 x 6 HYDRAULIC SEAL	2K26001741
12	10	LEFT REST PLATES	2K28000171	43	¼" ROUND	T00000MB14
13 CLAMP FIX PLATE 2K28000151 46 51103 BEARING 2K26000721 14 M-6x16 DIN 912 SCREW TD91206016 47 M-16 WHEEL 8000000140 15 ALUMINIUM ARCH K-280 2K28000101 48 LEVER OF DESCENT 2K20000051 16 ARCH BOLT 2K28000005 49 OPERATE BAND SAW 2K20000071 17 30206 BEARING 2C30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT T00TCM3015 51 MOVIL GUIDE BRAKE 2K20000481 19 6206 2RS BEARING 2K20000291 52 M-10x25 LEVER 80000P1025 20 REDUCER SHAFT 2K20000151 53 REDUCTER DISC 2K280003R1 20b BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K26000422 21 8x7x25 PIN 2K20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000441 57 6006 2RS BEARING 2K28000311 23 TSO REDUCTOR 1/30 THREE – 1/15 MOND 2K26000041 57 6006 2RS BEARING 2K28000014 24 M-8x25 DIN 933 SCREW TD93308025 56 ARCH PROTECTOR 2K28000312 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,3 HP 1500 RPM MOND PHASE MOTOR 2K280000M2 2K28000012 2K280000012 2K280000012 2K280000012 2K280000012 2K280000012 2K280000012 2K280000012 2K280000012 2K2800000012 2K280000012 2K280000012 2K2800000012 2K2800000012 2K2800000012 2K2800000012 2K2800000000000000000000000000000000000	11	RIGHT REST PLATES	2K28000181	44	0-160 ¼" MANOMETER	2K30000121
14 M-6x16 DIN 912 SCREW TD91206016 47 M-16 WHEEL B000000140 15 ALUMINIUM ARCH K-280 2k28000101 48 LEVER OF DESCENT 2k20000061 16 ARCH BOLT 2k28000005 49 OPERATE BAND SAW 2k20000071 17 30206 BEARING 2c30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT TD0TCM3015 51 MOVIL GUIDE BRAKE 2k20000481 19 6206 2RS BEARING 2k20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2k20000151 53 REDUCTER DISC 2k280003R1 20 BEARING REDUCER COVER 2k280000121 54 Ø40x6 ROCKET 2k26000A02 21 8x7x25 PIN 2k2000041 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2k20000041 56 TENSION DISC 2k28000311 23 T50 REDUCTOR 1/30 THREE – 1/15 MOND 2k26000041 57 6006 2RS BEARING 2k2800031 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR I,13/H 19 3000/1500 RPM III 320V MOTOR I,13/H,14 P 3000/1500 RPM III 320V MOTOR I,13	12	M-12x20 DIN 912 SCREW	TD91212C20	45	A-31,5 (4) SPRING SOCKET	2K3700MU31
15 ALUMINIUM ARCH K-280 2K28000001 48 LEVER OF DESCENT 2K20000061 16 ARCH BOLT 2K28000005 49 OPERATE BAND SAW 2K20000071 17 30206 BEARING 2C30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT TD0TCM3015 51 MOVIL GUIDE BRAKE 2K20000481 19 6206 2RS BEARING 2K20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2K20000151 54 Ø40x6 ROCKET 2K26000311 20 BEARING REDUCER COVER 2K26000041 54 Ø40x6 ROCKET 2K26000402 21 8x7x25 PIN 2K2000041 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K2000041 57 6006 2RS BEARING 2K28000311 23 T50 REDUCTOR 1/30 THREE – 1/15 MOND 2K26000041 57 6006 2RS BEARING 2K2800031 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K2800031 25	13	CLAMP FIX PLATE	2K28000151	46	51103 BEARING	2K26000721
16 ARCH BOLT 2K28000005 49 OPERATE BAND SAW 2K20000071 17 30206 BEARING 2C30000031 50 M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT T00TCM3015 51 MOVIL GUIDE BRAKE 2K20000481 19 6206 2RS BEARING 2K20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2K20000151 53 REDUCTER DISC 2K280003R1 20b BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K26000402 21 8x7x25 PIN 2K2000041 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K2000041 56 TENSION DISC 2K28000311 23 T50 REDUCTOR 1/30 THREE – 1/15 MONO 2K26000041 57 6006 2RS BEARING 2K28000311 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K28000331 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,8/280000M1 59 M-6 WHEEL 8000000005 2	14	M-6x16 DIN 912 SCREW	TD91206016	47	M-16 WHEEL	B000000140
17 30206 BEARING 2C30000031 5D M-8x10 SCREW TD93308010 18 M-30x1,5 SAFETY NUT T00TCM3015 51 MOVIL GUIDE BRAKE 2K20000481 19 6206 2RS BEARING 2K20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2K20000151 53 REDUCTER DISC 2K280003R1 20b BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K2600A02 21 8x7x25 PIN 2K20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000451 56 TENSION DISC 2K280003T1 23 T50 REDUCTOR 1/30 THREE − 1/15 MONO 2K20000041 57 6006 2RS BEARING 2K20000041 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K2800033T1 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M2 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M2 2K280000M2 26 TENSION ADJUSTER SPRING 2K280000M2 2K280000M2 2K280000M2 2K280000M2 2K280000M2 2K28000M2 2K28000M3 50 M-6 WHEEL 8000000005 26 TENSION ADJUSTER SPRING 2K280000M2 2K280000M2 2K280000M2 2K280000M2 2K280000M3 50 M-6 WHEEL 80000000005 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 2K280000M1 64 K-280 SUPPORT ROLLER 2K28000461 2K28000001 64 K-280 SUPPORT ROLLER 2K28000461 2C48000045 65 STEEL ROLLER Ø40×300 Ø10 2230000111 64 K-280 SUPPORT ROLLER 2K28000461 2M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 64 K-280 SUPPORT ROLLER 2K28000465 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 69 M-10x75 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 69 M-10x75 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 69 M-10x75 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37802016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	15	ALUMINIUM ARCH K-280	2K28000101	48	LEVER OF DESCENT	2K20000061
18 M-30x1,5 SAFETY NUT TOOTCM3015 51 MOVIL GUIDE BRAKE 2K20000481 19 6206 2RS BEARING 2K20000291 52 M-10x25 LEVER B0000P1025 20 REDUCER SHAFT 2K20000151 53 REDUCTER DISC 2K280003R1 20b BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K2600A402 21 8x7x25 PIN 2K20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000451 56 TENSION DISC 2K280003T1 23 T50 REDUCTOR 1/30 THREE − 1/15 MOND 2K26000041 57 6006 2RS BEARING 2K20000041 24 M-8x25 DIN 933 SCREW TD3933 SCREW 2K280000M1 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,3 HP 1500 RPM MOND PHASE MOTOR 2K280000M3 26 TENSION ADJUSTER SPRING 2K280000M3 26 TENSION ADJUSTER SPRING 2K280000M3 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ6 SPRING 2K28000001 64 K-280 SUPPORT ROLLER 2K28000611 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40x300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 31 M-12 ZD DIN 934 NUT TD93400010 68 A-620 DIN 912 SCREW TD91206020	16	ARCH BOLT	2K28000005	49	OPERATE BAND SAW	2K20000071
19 6206 2RS BEARING	17	30206 BEARING	2C30000031	50	M-8x10 SCREW	TD93308010
20 REDUCER SHAFT 2K20000151 53 REDUCTER DISC 2K280003R1 20b BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K2600A402 21 8x7x25 PIN 2K2000041 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000041 56 TENSION DISC 2K280003T1 23 T50 REDUCTOR 1/30 THREE – 1/15 MOND 2K26000041 2K20000041 57 6006 2RS BEARING 2K2800031 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K2800031 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M2 2K280000M3 59 M-6 WHEEL B000000005 26 TENSION ADJUSTER SPRING 2K28000145 60 1/8" DISTRIBUTOR N00000C18 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45x26 SPRING 2K28000008 63 1/8" M-H MINI BALL VALVE 2K28000061 29 M-10x75 DIN 444 SCREW <td>18</td> <td>M-30x1,5 SAFETY NUT</td> <td>Т00ТСМ3015</td> <td>51</td> <td>MOVIL GUIDE BRAKE</td> <td>2K20000481</td>	18	M-30x1,5 SAFETY NUT	Т00ТСМ3015	51	MOVIL GUIDE BRAKE	2K20000481
20b BEARING REDUCER COVER 2K26000121 54 Ø40x6 ROCKET 2K2600A402 21 8x7x25 PIN 2K20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000451 56 TENSION DISC 2K28000371 23 T50 REDUCTOR 1/30 THREE − 1/15 MONO 2K26000041 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K2800031 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M3 26 TENSION ADJUSTER SPRING 2K28000145 60 1/8" DISTRIBUTOR N00000R18 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ5 SPRING 2K28000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD93400010 66 ISO 40 FEMALE PIN JOINT N00000R18 31 M-12x60 DIN 944 SCREW TD944001260 67 CYLINDER UX32/100 C/REG. T.750MM 2K37002016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	19	6206 2RS BEARING	2K20000291	52	M-10x25 LEVER	B0000P1025
21 8x7x25 PIN 2K20000441 55 M-10x20 DIN7991 SCREW TD79911020 22 8x7x35 PIN 2K20000451 56 TENSION DISC 2K280003T1 23 T50 REDUCTOR 1/30 THREE − 1/15 MOND 2K26000041 57 6006 2RS BEARING 2K20000141 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K28000331 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,3 HP 1500 RPM MOND PHASE MOTOR 2K280000M3 2K280000M3 26 TENSION ADJUSTER SPRING 2K28000M3 59 M-6 WHEEL 80000000S 26B TENSION ADJUSTER SPRING 2K280000T5 61 1/8" DISTRIBUTOR N00000RC18 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ6 SPRING 2K28000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M-12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	20	REDUCER SHAFT	2K20000151	53	REDUCTER DISC	2K280003R1
22 8x7x35 PIN 2x20000451 56 TENSION DISC 2x280003T1 23 T50 REDUCTOR 1/30 THREE − 1/15 MOND 2x26000041 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K28000331 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 2x280000M2 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M3 26 TENSION ADJUSTER SPRING 2K28000475 60 1/8" DISTRIBUTOR N000000C18 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45x26 SPRING 2K28000011 64 K-280 SUPPORT ROLLER 2K28000451 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M-12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	20b	BEARING REDUCER COVER	2K26000121	54	Ø40x6 ROCKET	2K2600A402
23 T50 REDUCTOR 1/30 THREE − 1/15 MONO 2K26000041 2X20000041 57 6006 2RS BEARING 2K20000141 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K28000331 2K28000031 59 M-6 WHEEL 2K28000331 50,1,1 HP 3000/1500 RPM III 380V MOTOR 2K280000M2 2K280000M2 2K280000M3 59 M-6 WHEEL M-6 WHEEL 8000000005 8000000000000000000000000000	21	8x7x25 PIN	2K20000441	55	M-10x20 DIN7991 SCREW	TD79911020
23 TSO REDUCTOR 1/30 THREE – 1/15 MONO 2K2000041 57 6006 2RS BEARING 2K20000141 24 M-8x25 DIN 933 SCREW TD93308025 58 ARCH PROTECTOR 2K28000331 25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 2K280000M2 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M3 59 M-6 WHEEL B000000005 26 TENSION ADJUSTER SPRING 2K28000145 60 1/8" DISTRIBUTOR N000000C18 26B TENSION ADJUSTER SPRING 2K28000475 61 1/8" Ø12 SCREW N00000E1218 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ6 SPRING 2K2800R008 63 1/8" Ø8 SCREW N0000E0818 28B Lt180xLp95x45xØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31	22	8x7x35 PIN	2K20000451	56	TENSION DISC	2K280003T1
25 1,5/1,1 HP 3000/1500 RPM III 380V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 2K280000M3 59 M-6 WHEEL B000000005 26 TENSION ADJUSTER SPRING 2K28000145 60 1/8" DISTRIBUTOR N00000RC18 26B TENSION ADJUSTER SPRING B.H. 2K28000475 61 1/8" Ø12 SCREW N00000E1218 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ6 SPRING 2K2800R008 63 1/8" Ø8 SCREW N0000E0818 28B Lt180xLp95x45xØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW	23	T50 REDUCTOR 1/30 THREE – 1/15 MONO		57	6006 2RS BEARING	2K20000141
25 1,5/1,1 HP 3000/1500 RPM III 220V MOTOR 1,3 HP 1500 RPM MONO PHASE MOTOR 2K280000M3 59 M-6 WHEEL 8000000005 26 TENSION ADJUSTER SPRING 2K28000145 60 1/8" DISTRIBUTOR N00000RC18 26B TENSION ADJUSTER SPRING B.H. 2K28000475 61 1/8" Ø12 SCREW N0000E1218 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ6 SPRING 2K2800R008 63 1/8" Ø8 SCREW N0000E0818 288 Lt180xLp95x45xØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020 </td <td>24</td> <td>M-8x25 DIN 933 SCREW</td> <td>TD93308025</td> <td>58</td> <td>ARCH PROTECTOR</td> <td>2K28000331</td>	24	M-8x25 DIN 933 SCREW	TD93308025	58	ARCH PROTECTOR	2K28000331
26B TENSION ADJUSTER SPRING B.H. 2K28000475 61 1/8" Ø12 SCREW N0000E1218 27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45xØ6 SPRING 2K2800R008 63 1/8" Ø8 SCREW N0000E0818 28B Lt180xLp95x45xØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	25	1,5/1,1 HP 3000/1500 RPM III 220V MOTOR	2K280000M2	59	M-6 WHEEL	B000000005
27 M-12x20 DIN 912 SCREW TD91212020 62 1/8" M-H MINI BALL VALVE 2K3700R281 28 Lt180xLp95x45x∅6 SPRING 2K2800R008 63 1/8" Ø8 SCREW N0000E0818 288 Lt180xLp95x45XØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	26	TENSION ADJUSTER SPRING	2K28000145	60	1/8" DISTRIBUTOR	N00000RC18
28 Lt180xLp95x45x∅6 SPRING 2K2800R008 63 1/8" Ø8 SCREW N0000E0818 288 Lt180xLp95x45xØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	26B	TENSION ADJUSTER SPRING B.H.	2K28000475	61	1/8" Ø12 SCREW	N0000E1218
288 Lt180xLp95x45XØ5 SPRING 2K20000011 64 K-280 SUPPORT ROLLER 2K28000461 29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40x300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	27	M-12x20 DIN 912 SCREW	TD91212020	62	1/8" M-H MINI BALL VALVE	2K3700R281
29 M-10x75 DIN 444 SCREW TD44401075 65 STEEL ROLLER Ø40×300 Ø10 2230000111 30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	28	Lt180xLp95x45xØ6 SPRING	2K2800R008	63	1/8" Ø8 SCREW	N0000E0818
30 M-10 DIN 934 NUT TD93400010 66 ISO 40 FEMALE PIN JOINT N000004057 31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	288	Lt180xLp95x45XØ5 SPRING	2K20000011	64	K-280 SUPPORT ROLLER	2K28000461
31 M-12x60 DIN 444 SCREW TD44401260 67 CYLINDER UX32/100 C/REG. T.750MM 2K30000741 32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	29	M-10x75 DIN 444 SCREW	TD44401075	65	STEEL ROLLER Ø40×300 Ø10	2230000111
32 M12 DIN 934 NUT TD93400012 68 A-16-20-15 BRONZE TIP 2K37R02016 33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	30	M-10 DIN 934 NUT	TD93400010	66	ISO 40 FEMALE PIN JOINT	N000004057
33 MANUAL END-OF-TRAVEL ARCH 2K28000161 69 M-6x20 DIN 912 SCREW TD91206020	31	M-12x60 DIN 444 SCREW	TD44401260	67	CYLINDER UX32/100 C/REG. T.750MM	2K30000741
	32	M12 DIN 934 NUT	TD93400012	68	A-16-20-15 BRONZE TIP	2K37R02016
33B B.H. END-OF-TRAVEL ARCH 2K28016BH1 70 CYLINDER YOKE 2K28000501	33	MANUAL END-OF-TRAVEL ARCH	2K28000161	69	M-6x20 DIN 912 SCREW	TD91206020
	33B	B.H. END-OF-TRAVEL ARCH	2K28016BH1	70	CYLINDER YOKE	2K28000501

11.3 EXPLODED VIEW HYDRAULIC DESCENT



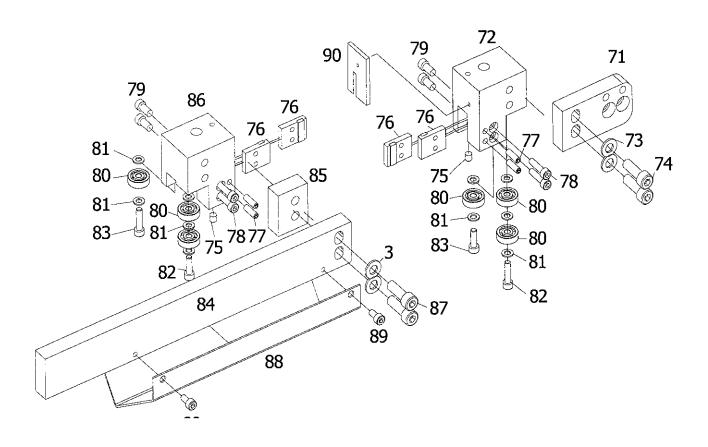
Nō	DESCRIPTION	CODE	Nº	DESCRIPTION	CODE
91	K-280 CLAMP PISTON	2K28000045	100	CAST IRON NUT	2K20000741
92	CAST IRON TWEEZER	2K20000401	101	TOP ROUND	2K2600A403
93	M14 SCREW	TD93101460	102	CLAMP SCREW	2K20000711
94	K-280 CLAMP	2K28000351	103	CLAMP LEVER	2K20000531
95	M8x10 DIN 913 SCREW	TD91300810	104	M14x50 LEVER	2K20000611
96	Ø50 DIN 472 RING	TD47200I50	105	M -8x20 DIN 7991 SCREW	TD91208020
97	Lt35x30xp9x∅5 SPRING	2K20000091	106	Ø 5x20 ELASTIC PIN	TD14810520
98	HOOP OF PUSH	2K2600A372	107	PNEUMATIC CYLINDER	2K28000051
99	M10x25 DIN912 SCREW	TD91210025	108	1/8" Ø6mm PNEUMATIC RACOR	N000RC1806

11.4 CLAMP EXPLODED VIEW



Nδ	DESCRIPTION	CODE	Nō	DESCRIPTION	CODE
91	K-280 CLAMP PISTON	2K28000045	100	CAST IRON NUT	2K20000741
92	CAST IRON TWEEZER	2K20000401	101	TOP ROUND	2K2600A403
93	M14 SCREW	TD93101460	102	CLAMP SCREW	2K20000711
94	K-280 CLAMP	2K28000351	103	CLAMP LEVER	2K20000531
95	M8x10 DIN 913 SCREW	TD91300810	104	M14x50 LEVER	2K20000611
96	Ø50 DIN 472 RING	TD47200I50	105	M -8x20 DIN 7991 SCREW	TD91208020
97	Lt35x30xp9xØ5 SPRING	2K20000091	106	Ø 5x20 ELASTIC PIN	TD14810520
98	HOOP OF PUSH	2K2600A372	107	PNEUMATIC CYLINDER	2K28000051
99	M10x25 DIN912 SCREW	TD91210025	108	1/8" Ø6mm PNEUMATIC RACOR	N000RC1806

11.5 GUIDES EXPLODED VIEW



Nº	DESCRIPTION	CODE	Nº	DESCRIPTION	CODE
71	FIXED GUIDE SUPPORT	2K2800019A	81	M-5 ROUND	TD12500005
72	FIXED GUIDE K-280	2K2600007F	82	M-5x20 DIN 912 SCREW	TD91205020
73	DIN 125 M8 SOCKET	TD12500008	83	M-5x15 DIN 912 SCREW	TD91205015
74	M-8x25 DIN 912 SCREW	TD91208025	84	MOBILE GUIDE SUPPORT	2K2800019B
75	ROUND GUIDE PLATES	2K26000131	85	GUIDE SEPARATOR	2K280019G1
76	SIDE GUIDE PLATES	2K26000301	86	MOBILE GUIDE K-280	2K2600007M
77	M-5x15 DIN 913 SCREW	TD91305015	87	M-8x40 DIN 912 SCREW	TD91208040
78	M-5x20 DIN 912 SCREW	TD91205020	88	MOBILE GUIDE PROTECTOR K-280	2K28000311
79	M-5x10 DIN 912 SCREW	TD91205010	89	M-5X10 DIN 912 SCREW	TD91205010
80	6352Z BEARING	2K2800R001	90	NYLON BAND SAW PROTECTOR	2K26000701