

Insulation workers catalogue

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RIVETS

The choice of blind rivet depends on the body and mandrel material, the shape of the head, and the type of rivet.

In heat insulation, type standard is flathead aluminium steel.

Matter :

Body	Mandrel	Utilization
Aluminium	Steel	Normal fixing, without particular restriction to corrosion.
Aluminium	Stainless steel	Normal fixing, good behaviour to corrosion.
Aluminium	Aluminium	Light fixing, good behaviour to corrosion.
Steel	Steel	Strong fixing, without particular restriction to corrosion.
Stainless steel	Stainless steel	Strong fixing, good behaviour to corrosion, food utilisation.
Copper-nickel	Stainless steel	Good behaviour to vibrations and to temperature fluctuations.

Available in different colours for special applications.

Head shape and size of the rivet :

∅	Domed head TP	Countersink TF	Large Flange TL	Extra large
2.4	4.8	4.8		
3	6.5	6		
3.2	6.5	6.3	8	9.5
4	8	8	10	12
4.8	9.5	9.5	14	16
6	12			
6.4	13			

Type of rivet according to its use

TYPE	Description	Material		Head
		Body	Mandrel	
Standard blind rivet	Blind rivet for standard use.	Aluminium AG3	Steel	TP TL TF
		Aluminium AG3	Stainless Steel A2	TP
		Aluminium AG3	Aluminium AG3	TP
		Steel	Steel	TP TL
		Stainless Steel A2	Stainless Steel A2	TP TL
		Copper	Steel	TP
		Copper	Brass	TP
		Nickel-Copper	Stainless Steel A2	TP
Multi grip	The design of the multi grip rivet allow a successful clamping with larger grip range than with standard rivet.	Aluminium AG3	Steel	TP TL TF
		Aluminium AG3	Stainless Steel A2	TP TL
		Steel	Steel	TP TL
Sealed rivet	The head of the mandrel is totally enclosed in the body. They are thus leakproof.	Aluminium AG3	Steel	TP TL
		Aluminium AG3	Stainless Steel A2	TP
		Steel	Steel	TP
		Stainless Steel A2	Stainless Steel A2	TP
		Copper	Steel	TP
Peel rivet	When setting the body of the peel rivet splits to form four legs. This range is designed to fasten soft or thin materials.	Aluminium AG3	Steel	TP TL
Light rivet	This light rivet is a high resistant rivet made in aluminium alloy and with a large contact area on its blind part.	Aluminium AG3	Aluminium AG3	TP
Structural rivet	The head of the mandrel is retained in the body, and the diameter of the bended part is large. High resistance to the tensile and the shearing, this rivet is leakproof.	Steel	Steel	TP
Structure Monobolt	Monobolt is a high resistance structural rivet.	Aluminium	Aluminium	TP TF
		Steel	Steel	TP TF
		Stainless Steel	Stainless Steel	TP

Rivets used in heat insulation :

Rivet Aluminium Steel - Body : Aluminium (AL Mg 3,5) , Mandrel : Steel plated							
Ø	Rivet Body	Tightening range	Ø Hole	Ø Head	Tensile DaN	Shear DaN	Box
3	6	2.5 - 3.5	3.1	6.5	88	65	1000
	8	4 - 5.5					1000
	10	5.5 - 7					1000
	12	7 - 9					1000
	14	9 - 11					1000
	16	11 - 12.5					1000
3.2	6	2,5 - 3,5	3.3	6.5	118	80	1000
	8	4 - 5,5					1000
	10	5,5 - 7					1000
	12	7 - 9					1000
	14	9 - 11					1000
	16	11 - 12,5					1000
4	6	1.5 - 3.5	4.1	8.0	135	120	1000
	8	4 - 5					1000
	10	5 - 6.5					1000
	12	6.5 - 8.5					1000
	14	8.5 - 10.5					500
	16	11 - 12.5					500
4.8	8	3 - 4,5	9.5	5	290	205	500
	10	4,5 - 6					500
	12	6 - 8					500
	14	7 - 10					500
	16	8,5 - 12					500
	18	10,5 - 14					500

Rivet Stainless Steel - Body : Stainless Steel 304 ; Mandrel : Stainless Steel 304

Ø	Rivet Body	Tightening range	Ø Hole	Ø Head	Tensile DaN	Shear DaN	Box
3	6	0,5 - 3	3,1	6	224	178	1000
	8	3 - 5,0					1000
	10	5,0 - 7,0					1000
3,2	8	2,5 - 4,5	3,3	6,5	320	235	1000
	10	4,0 - 6,0					1000
	12	6,0 - 8,0					1000
	14	9,0 - 11,0					1000
4	10	4,0 - 6,0	4,1	8	420	314	500
	12	6,0 - 8,0					500
	14	8,0 - 10,0					500
4,8	10	3,5 - 5,5	5	9,5	575	440	500
	12	5,5 - 7,5					500
	14	7,5 - 9,5					500

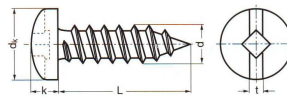
Steel Rivet - Body : Steel zinc ; Mandrel : Steel zinc							
Ø	Rivet Body	Grip Range	Ø Drill	Ø Head	Tensile DaN	Shear DaN	Box
3	8	3,0 - 5,0	3,1	6,5	127	98	1000
	10	5,0 - 7,0					1000
	12	7,0 - 9,0					1000
3,2	6	1,0 - 3,0	3,3	6,5	142	110	1000
	8	3,0 - 5,0					1000
	10	5,0 - 7,0					1000
	12	7,0 - 9,5					1000
	14	9,0 - 11,0					1000
4	10	4,5 - 7,0	4,1	8	245	186	500
	12	6,5 - 9,0					500

Multi-grip Rivet Aluminium Steel - Body : Aluminium (Al Mg 2,5) ; Mandrel : Steel zinc							
Ø	Rivet Body	Grip Range	Ø Drill	Ø Head	Tensile DaN	Shea DaN	Box
3,2	8	1,0 - 5,0	3,3	6,5	98	65	1000
4	9,5	1,3 - 6,3	4,1	8	125	93	1000

Multi-grip Rivet Aluminium Stainless Steel - Body : Aluminium (Al Mg 2,5) ; Mandrel : Stainless Steel 304							
Ø	Rivet Body	Grip Range	Ø Drill	Ø Head	Tensile DaN	Shear DaN	Box
3,2	8	1,0 - 5,0	3,3	6,5	98	65	1000
4	9,5	1,3 - 6,3	4,1	8	125	93	1000
	12,7	4,5 - 8,5					1000

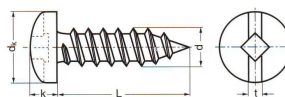
SCREWS

Steel DACRO self tapping screw, square slotted pan head.



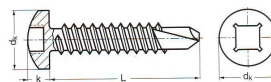
d	L	d _k	k	Assembling capacity	Drill capacity
4,2	13	8,2	3,1	9	3
4,8	13	9,5	3,6	9	4
	16			12	4

Stainless steel self tapping screw, square slotted pan head.



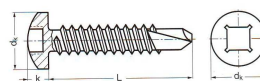
d	L	d _k	k	Assembling capacity	Drill capacity
4,2	13	8,2	3,1	9	3
4,8	13	9,5	3,6	9	4
	16			12	4

Steel Self drilling screw, pan head square recess.



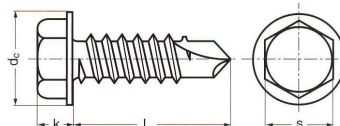
d	L	d _k	k	Assembling capacity	Drill capacity
4,2	13	8,2	3,1	6	3
4,8	16	9,5	3,6	9	4

Stainless steel Self drilling screw, steel, pan head square recess.




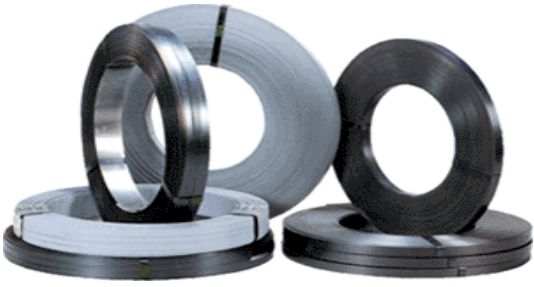





d	L	d _k	k	Assembling capacity	Drill capacity
4,2	16	8,2	3,1	9	3
4,8	16	9,5	3,6	10	4

Steel self drilling screw, hexagon head with flange.



d	L	S	k	Assembling capacity	Drill capacity
5,5	25	8	5,4	15	5

Steel strapping and wires

<p>Wire N°8 Ø 1.3mm galvanized steel N°6 Ø 1.1mm galvanized steel Rolls of 5 Kg for easier carrying. Stainless Steel Ø 0.8mm and 1.2 mm, rolls of 4Kg Available in other dimensions .</p>	
<p>Galvanized steel strapping Width : 12.7 and 19 mm Stainless Steel 304, width : 12.7mm Aluminium, width : 12.7mm Available in other dimensions and materials.</p>	
<p>Blue steel strapping for scaffolding 15 et 19 mm</p>	
<p>Corrugated steel strip for scaffolding Length : 1m, rolls : 25m.</p>	
<p>1/2" Open Seals for strapping Stainless Steel or zinc plated Width : 12.7 and 19mm Strapping Seals - Strapping Clips -</p>	
<p>Seal stainless steel 12.7 and 19mm Also available in stainless steel 304 and 430.</p>	
<p>Nickel loops 14x7 mm for strapping of 12.7 22x8 mm for strapping of 19</p>	
<p>Insulation pins Steel 70x2.5 mm and 80x3 mm</p>	

SEALANTS

Standard Joints

AYRTON CONSTRUCTION N 11600 (T) is a high quality neutral elastic one-component joint sealant based on silicones.

Temperature Resistance : -60°C to +180°C

Colour : clear, white, grey.

Packaging : cartridge 300 ml

Applications : suited for all usual buildings joints, connection joints between window- and doorframes.



Sanitary joints and

Cleanroom and Foodsafe

RUBSON 7S PLUS is a high-quality neutral elastic one-component joint sealant

Temperature Resistance : -50°C to +120°C

Colour : white, grey, clear

Packaging : cartridge 310 ml

Applications :

sealing in cleanroom applications,
in environments where food is handled and stored
joints in sanitary applications.



High Temperature

NEC + SIL HAUTE TEMPERATURE is a high-quality acetic silicone joint sealant .

Temperature Resistance : -65°C to +260°C

(+315°C on short periods)

Colour : red

Packaging : cartridge 310 ml

Applications : sealing of joints at high temperature areas
Installation of heating systems, fumaces ,etc



Fire retardant sealant

FIRE SILICONE B1 FR is a fire retardant plasto-elastic one-component joint sealant based on acrylic dispersion.

Temperature Resistance : -40°C to +140°C

Fire resistant up to 4 hours

Colour : grey

Packaging : cartridge 310 ml

Applications : Fire resistant connection joints



PU FOAMS



Self expanding, ready to use polyurethane foam
 Manual Foams 310 mL
 Gun Foams 310 mL
 Fire resistant foams 310 mL



Adhesives Tapes

Duct tape,
 Grey , 50m x50mm

Very flexible and mouldable duct tape, with exceptional adhesive power.
 24 Rolls by box



Standard masking tape,
 available in 50mx19mm,
 50mx25mm,
 50mx50mm

Aluminium tape 40µm,
 available in 50mx50mm,
 50mx75mm,
 50mx100mm

A high temperature version can resist temperature of up to 200°

PVC tape,
 Black Grey or Orange
 33mx50mm
 High degree of elasticity, hand-tearable.

Armed tape thread and thread,
 50mx19mm
 50mx50mm

available in thread and weft.



Insulating fibreglass materials

Tapes

High temperature resistant fabric and tapes without ceramic fibres

Maximum service temperature : 550°C

Thickness : 2 ; 3 or 5mm

Width : 20 ; 30 ; 40 ; 50 ; 100 mm

Conditioned by 25 m.

Self-adhesive or not.



Fibre glass cords

Cord without ceramic fibres and High temperature resistant

Maximum service temperature : 550°C

∅ : 10 ; 15 ; 20 ; 25 ; 30 ; 40 ; 50 mm



Fixations for insulation material

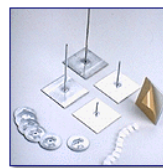
Insulation Pins

Ø : 2.2 or 3 mm
Length : 51;76;89;114;140 mm



Self stick pins

Length : 32 ; 51;63;89;114
Box : 500 (with clips)



Zinged Steel Clips for insulation pins








Wire-netting

Hexagonal wire netting.








Mesh : 25 mm
Width : 1 m
Length : 100 m



DRILLS




Short drill HSS	
Extra short drill HSS	
Double sided body drill HSS	
Stainless Steel Cobalt 8% drill	
Hole saw	
Tapered boring and subland twist drill	

Wheels – Discs






Cut-off wheel 115x2.5 ; 125x2.5 ; 230x3	
Cut-off wheel for stainless steel. 125x1.6 ; 230x1.9	
Grinding wheel	
Diamond wheel	
Sanding sheets 230 x 280. Grit : 60 ; 80 or 120.	
Fibre discs Flex abrasive paper discs Flap discs	   

TOOLS :

Tool boxes and Padlocks

<p>Tool box, quality : sheet 520 x 290 x 290 mm 650 x 350 x 350 mm 800 x 350 x 350 mm</p>	
<p>Tool box, quality : plastic</p>	
<p>Padlock, quality : brass. 30x30 ; 40x40 ; 45x45 ; 50x50 ; 60x60</p>	

Tensioner ; Sealer and Reel

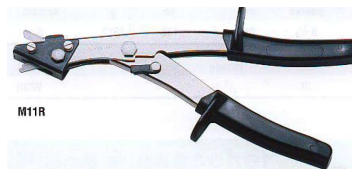
<p>Tensioner</p> 	<p>Tensioner with feed-wheel SL3.</p> 
<p>Tensioner with cutting device</p>	
<p>Sealer, single notched 13mm and 19mm.</p>	
<p>Strapping reel</p>	

Cutting sheet steel tools

<p>Compound Action Snip WISS; cutting capacity : 1.2mm Red, Left ,M1R Green, Right, M2R Yellow, Straight, Left, Right , M3R.</p>	
<p>Straight cutting snip WISS cutting capacity : 0.8mm.</p>	
<p>Offset snip BOST cutting capacity : 1.8mm. Cutting Right or Left</p>	
<p>Straight cutting snip BOST cutting capacity : 1.2mm.</p>	
<p>Universal metal shear with narrow blade BOST. Semi-universal metal shear BOST.</p>	
<p>Offset snip STUBAI Right or Left Length : 260mm</p>	
<p>Straight cutting snip STUBAI Length : 350mm</p>	
<p>Straight cutting snip with spring Length : 300mm</p>	

Cutting sheet steel tools

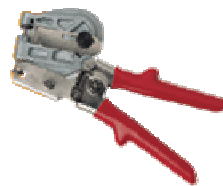
Hand-operated steel nibbler WISS
width turning : 2.8mm
Capacity : 1.2mm.



Hand-operated hole punch : Ø 3.2mm.
Punch : Ø 3.2mm.














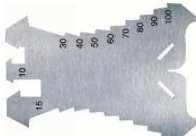





Hand-operated hole punch
Punch : Ø 3.2 and 4.8mm.
Replacement punch and die kit.
Stop gauge.


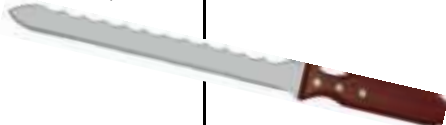













Cutting steel sheet tools


















<p>Electric shear BOSCH GSC 160 Capacity : 1.6 mm Power : 500 W Weight : 1.8Kg</p>		<p>Cordless shear TRUMPF TruTool S 130Li Capacity 1.3 mm 35min per charge Weight : 1.3Kg</p>	
<p>Electric shear TRUMPF C160 Capacity : 1.2mm Power : 350 W Weight : 1.4Kg</p>		<p>Electric shear TRUMPF S 160-E Capacity : 1.6mm Power : 350 W Weight : 1.9 Kg</p>	
<p>Electric nibbler MAKITA JN 1601 Capacity : 1.2 mm</p>		<p>Electric nibbler TRUMPF N160E Capacity : 1.60 mm Speed : 1.5m/min</p>	
<p>Cordless nibbler TRUMPF N200 ACCU Capacity : 2mm Speed : 1.5m/min</p>			

<u>Riveting tools and Caulking gun</u>			
Hand-operated riveting tool Eco		Hand-operated riveting tool Pro NTX	
Pneumatic riveting tool RAC 180 Rivet: Ø 2.4 to 4.8 mm		Riveting tool RIVIT Pneumatic riveting tool For all rivets type.	
Riveting tool RODCRAFT Rivet 2.4 à 4.8 Aluminium Aluminium Rivet : Ø 2.4 to 4.8mm		Cordless Riveting tool ACCUBIRD Battery : 12V Rivet: Ø 2.4 to 5 mm	
Skeleton caulking gun		Caulking gun H14	
Pneumatic caulking gun T16X		Cordless caulking gun KRESS	

<u>Marking tools</u>			
Aluminium folding rule 1m		Wooden folding rule	
Tape measure 3m and 5m With blade stop		Stanley tape measure 5, 8 and 10m	
Flexible stainless steel rule 0.5; 1 ; 1.5 and 2 m		Steel square with back 300 and 400mm Double mm-graduation	
Magnetic level 400; 500; 600mm and 1m Two vials		Inside calliper 100;150;200;250;300 mm	
Outside calliper 300mm		Steel scriber	
Centre punch		Marking plate	
Temporary sheet metal rivet Ø : 3.2 or 4 mm		Onyx marker	
Marking paste			
Piercing awl Ø : 7 Length : 100		Piercing awl Ø : 3.2	

<u>Glass wool cutting</u>			
Knife for wool With sheathe		Knife for wool (for hard and soft materials)	
Sheathe for wool knives			
Hedge shears		Wool scissors	
<u>Hammers</u>			
Wooden mallet with wooden handle 60mm		Dinging hammer 28mm	
Rivoir engineer's hammer 30,35 et 40		Club hammer 1.25Kg	
Claw hammer		Carpenter's hammer STANLEY	
<u>Hand drills</u>			
			

<u>Saws and Cutters</u>			
Insulation Saw 400 - 500 - 600mm		Saw	
Metal saw blades "standard"		Metal saw blades Bi Hard	
Snap-off blade cutter Blades width : 18mm Eco Or Stanley		Spare blades for snap off cutter Width : 18 mm	
Snap-off blade cutter Blade width : 9.5mm		Spare blades for snap off cutter Width : 9.5mm	
Cutting knife STANLEY		Blades	
Self retracting cutting knife STANLEY		Blades	
<u>Pliers - Wrenches</u>			
Vise grip pliers 55 or 85mm		Waterpump pliers	
Tower pincers 22 cm		Adjustable wrenches 8-10-12-15-18 inches	
Miscellaneous hand tools : Wrenches Hammers Etc...			

<u>Screwdrivers</u>			
Screwdrivers with wooden handle 5.5x100 6.5x125 8.0x150			
Engineer's Slotted Screwdriver 5.5x100 6.5x150 8x150 8x175 10x1200		Slotted stubby screwdriver	
Screwdrivers for Phillips screws Pozi or Phillips N°1-2 et 3		Stubby screwdriver for Phillips screws	
Screwdrivers for square socket screws SQ2		Stubby screwdriver for square socket screws SQ2	
Bit for Phillips screws Pozi or Phillips N°1-2 et 3 25 - 50mm		Bit for square socket screws SQ2 50mm	
Magnetic bit holder 7,8 - 10 - 13			
<u>Electricity</u>			
Projector on base 500W and 1000W		Projector on foot	
Inspection lamp		Inspection lamp	
Cable reels HO7 RNF with circuit breaker 3x1.5 et 3x2.5 Length : 25 and 40 m		Rubber plugs	
Extension cable HO7 RNF 3x1.5 and 3x2.5 Length : 5 ; 10 ; 15 ; 25 m			

<u>Electric cordless tools</u>			
Screwdriver MAKITA 7.2V Ref 6017 DWE 2 batteries 1.3 Ah NiCd Torque 10Nm		Screwdriver MAKITA 9.6 V Ref 6260 DWPE3 3 batteries 1.3 Ah NiCd Torque 14Nm	
Screwdriver MAKITA 12 V Ref 6271DWAE 2 batteries 2 Ah NiCd Torque 20Nm		Screwdriver MAKITA 14.4 V Ref 6280 DWESP 2 batteries 2Ah NiCd Torque 20Nm Chuck 13 mm	
Drill 220V MAKITA Ref 6410 Chuck 10 mm 0-2200 tr/min 350W		Drill 220V MAKITA Ref 6208 Chuck 10mm 0 -2500 tr/min 530W	
Angle Screwdriver Makita 12V Ref DA312DWD			
Screwdriver Battery BOSCH 14 V GSR 14.4 VE2 2 Batteries NIMH 2,6 AH Torque 72Nm		Screwdriver Battery BOSCH 18 V GSR 18 VE2 2 Batteries NIMH 2,6 AH Torque 82Nm	
Screwdriver MAKITA 220V Dry wall 570W Ref 6823 1/4 hex			
Hammer drill BOSCH GBH 2-23 Re			
And all electric cordless BOSCH, MAKITA, HITACHI, TRUMPF, FEIN tools			

<u>Miscellaneous</u>			
Film polyethylene about 50µm On rolls of 3m wide (160m ²) On rolls of 6m wide (360m ²)		Film polyethylene 150µm On rolls of 6m wide (200 m ²)	
Black garbage bags 45µm 110, 130, 200 litres		Paper towels Industrial rolls.	
Barrier tape 50mm 100m		Box of rags White : 5 and 10 Kg Colour : 10 Kg	
Heavy duty hand cleanser With polygrains 5 litres		Broom and shovel	
<u>Scaffolding Tools</u>			
Double ended offset ring wrench 19-22		FACOM Ratchet wrench	
Self-jamming pulley		Cords Ø 20mm Length : 50 and 100 m	
Belt		Tools case for belt	
Film in PE White Thermo retractable 200µm Wide : 10 m On rolls of 25m length.		Shrink film in PE White Rolls : 48mmx33ml	
<u>Explosion-proof equipment</u>			
Hammer 500, 800 g		Combination wrench Double-ended ring wrench	
Cold chisel			

Machines for sheet-metal work

Hand-operated Flanging B1
Sheet thickness : up to 0.8mm.

Supplied with wheels.



Hand-operated Flanging B1
Sheet thickness : up to 0.8mm.

Hand-operated Flanging B2
Sheet thickness : up to 1.6mm.



Flanging electric
B1, Sheet thickness : 0.8mm

B2, Sheet thickness : 1.2mm

1 or 2 speeds



Bending Roll
Hand-operated or electric
Working length : 500 mm - 1mètre
Sheet thickness : 0.6 - 0.8 - 1mm



Hand-operated folding machine
Working length : 1mètre
Sheet thickness : 0.8 - 1.2 - 1.5mm



Hand-operated Guillotine
Working length : 1mètre
Sheet thickness : 1.5mm



Machines for sheet-metal work

Lock former
Fold Pittsburgh



Snap lock



The MINI-LINE CALO makes, from a reel :

- The carrying ,
 - the straightening in 2 senses directions,
 - the cutting with length with counting of pieces (the real line of cutting with length),
- Possibility of putting in memory 100 programs.

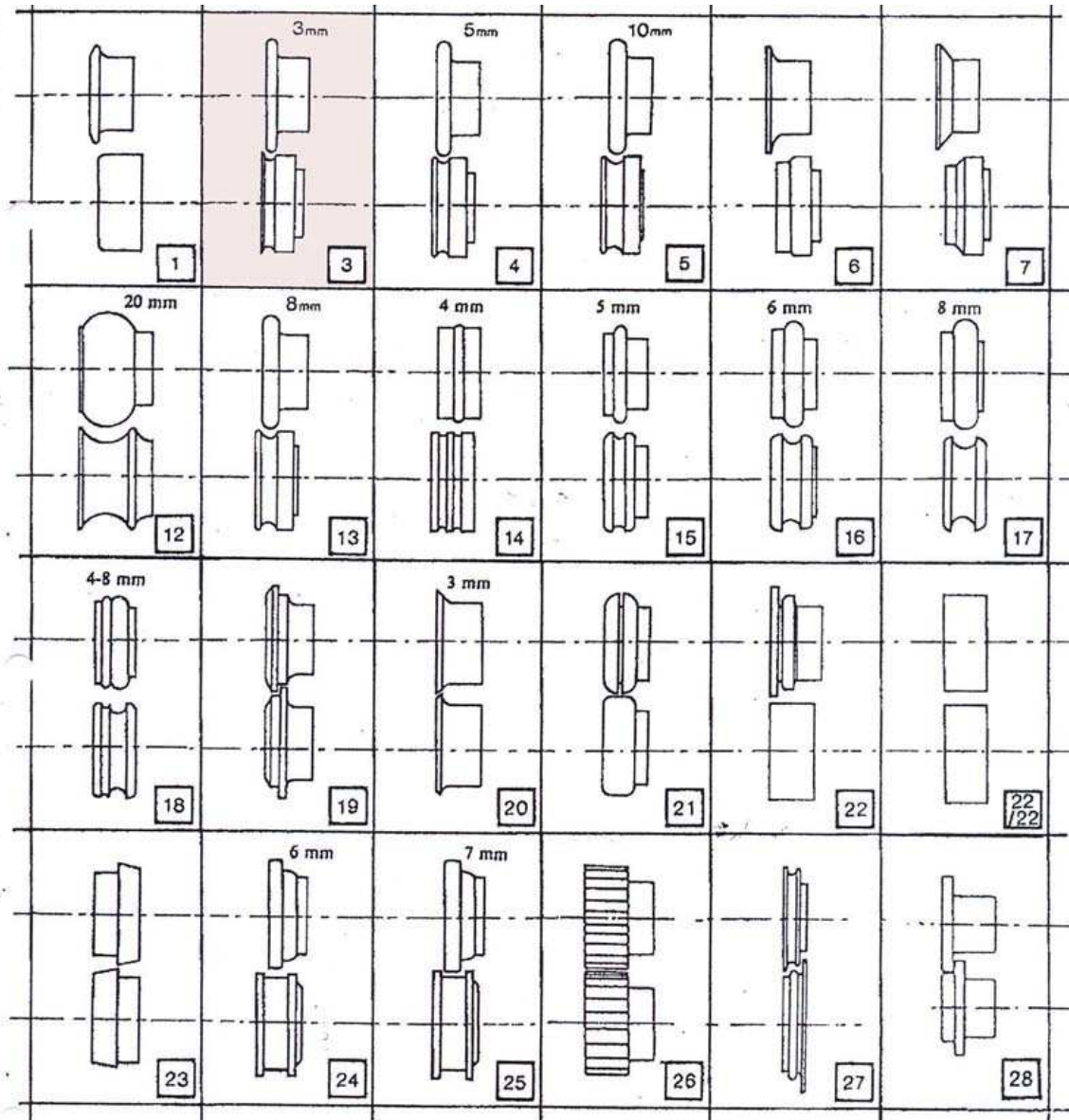
Device of stamping twice 6 adjustable holes 3,2 on the width 1 m (easy access by the front).



Pneumatic hammer



Wheels for flanging



Ladder



Hoist

Pneumatic hoist

- Lifting height : 3.80m
- Lifting height : 5.60m



Radiator lift

