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# TOUR À VIS-MÈRE SCHAUBLIN 102 VM

## INSTRUCTIONS DE SERVICE

A remettre à la personne chargée de la conduite de la machine.

La reproduction du texte ainsi que des dessins et des clichés est interdite. Les cotes, poids et illustrations ne sont donnés qu'à titre d'indication et nous nous réservons la possibilité d'apporter toutes modifications à la construction.

Mach. N° : 1518.....  
BL N° : 139057.....  
Tension : 220V.....

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FABRIQUE DE MACHINES **SCHAUBLIN S.A.** BÉVILARD/SUISSE

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**TOUR À VIS-MÈRE DE GRANDE PRÉCISION  
SCHAUBLIN 102VM**

**CARACTÉRISTIQUES PRINCIPALES**

Hauteur de pointes	mm	102
Distance entre pointes	mm	500

**POUPÉE POUR PINCE TYPE W20**

Alésage de l'arbre	mm	20
Passage de barre en pince	mm	14,5 - 9/16"
Diamètre maximum de serrage	mm	20
Largeur des gradins de poulie	mm	32
Diamètre des gradins de poulie	mm	75 - 100 - 125
Vitesses normales de la broche (voir tableau page 5)	t/ min.	40-3000
Pour vitesses plus élevées, prière de nous consulter		
Réducteur à engrenages, rapport		1 : 5

Sur demande, le tour est livré avec la poupée pour pincé type W25,

Passage de barre en pince 19 mm. Diamètre maximum de serrage 25 mm. La poupée peut également être équipée d'un arbre avec nez américain «Camlock» D1-2" prenant des pinces type W20

**CHARIOT**

Course maximum sur le banc	mm	490
Course coulisseau transversal	mm	110
Course coulisseau longitudinal	mm	90
Précision des lectures sur tambours divisés	mm	1/ 100
Diamètre admis au-dessus du chariot	mm	130
Hauteur de pointe au-dessus du chariot	mm	20
Dimensions des burins	mm	10 x 12
Passage maximum dans la lunette fixe	mm	65
Passage maximum dans la lunette à suivre	mm	40
Avance du chariotage par tour de broche	mm	0,016 - 0,025 0,033 - 0,052 0,077 - 0,117

Avances plus grandes par l'emploi des roues de rechange

**CONTRE-POUPÉE**

Cône intérieur de la broche	mm	2°
Course de la broche	mm	70
Déplacement latéral (de chaque côté)	mm	12

**MOTEUR À FLASQUES À PÔLES COMMUTABLES**

Puissance	CV	0,8/1,5
Vitesses à vide	t/ min.	750/3000

POIDS	net	kg	610
	brut	kg	760

ENCOMBREMENT (long. - prof. - haut.)	cm	152 x 60 x 123
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EMBALLAGE (dimensions extérieures de la caisse)	cm	175 x 90 x 150
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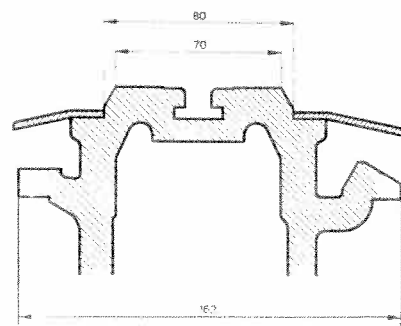
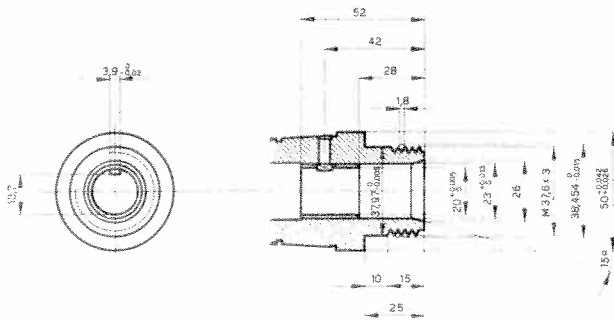
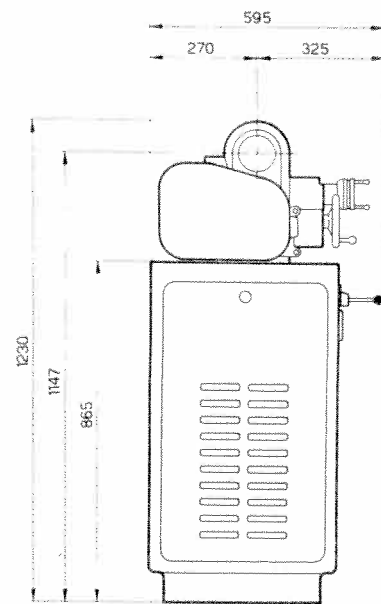
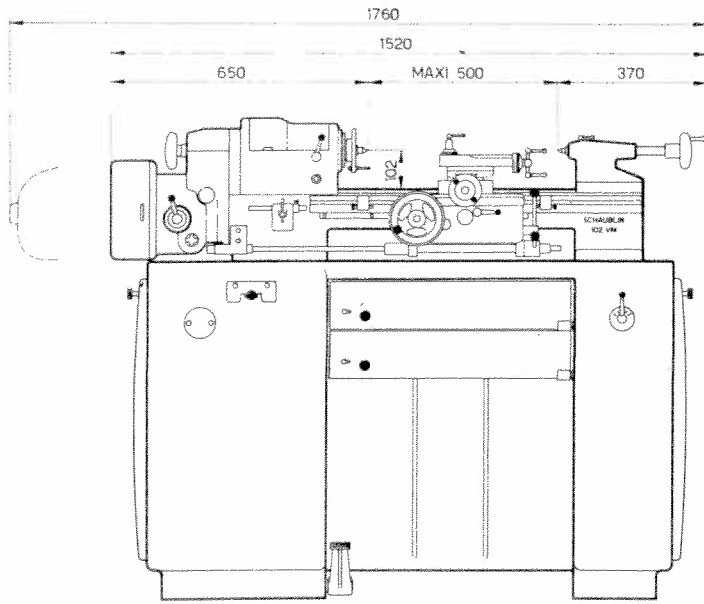


Tableau des vitesses

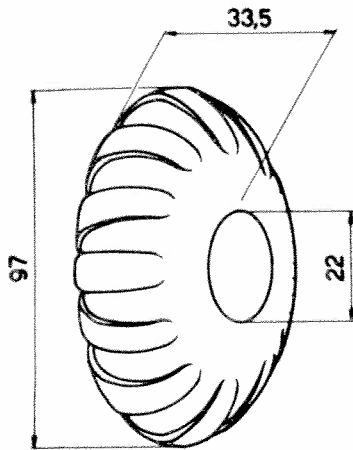
Position de la courroie trapézoïd	Pos. de la courroie plate	Vitesses du moteur					
		750 t/min			3000 t/min		
		A	B	C	A	B	C
I	Avec réducteur sur poupée et réducteur 102 VM 81.100	8	14	24	34	55	90
	Avec réducteur sur poupée ou réducteur 102 VM 81.100	40	70	120	170	270	450
	Sans réducteurs	210	350	590	840	1400	2300
II	Avec réducteur sur poupée et réducteur 102 VM 81.100	10	18	30	45	70	120
	Avec réducteur sur poupée ou réducteur 102 VM 81.100	55	90	150	210	360	580
	Sans réducteurs	270	450	750	1100	1800	3000

Les vitesses sur fond gris appartiennent à la gamme normale obtenue avec le renvoi simple.

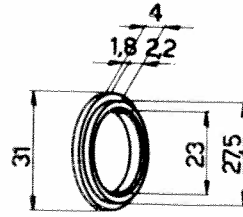
Lorsque le réducteur 102-81.100 est utilisé à la place du renvoi normal, il est possible, sans déplacer les courroies et avec la poupée en marche, de sélectionner les vitesses du tableau dans les rapports 1 : 4 (moteur), 1 : 5 (réducteur) et 1 : 20 avec moteur et réducteur simultanément.

# TOUR 102VM

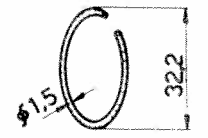
# POUPEE A ENGRENAGES SUR ROULEMENTS



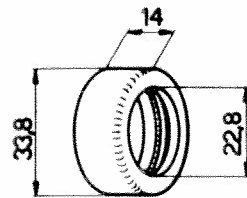
Poulet 102-P20-586b



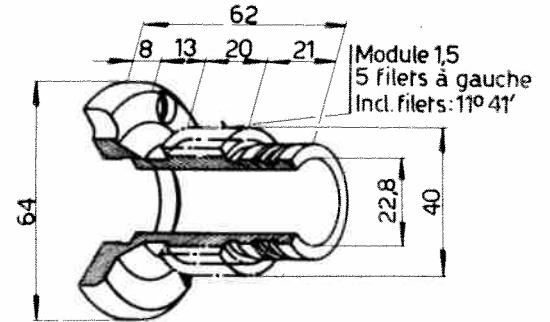
Bague 102-P20-10



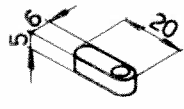
Ressort 102-P20-11



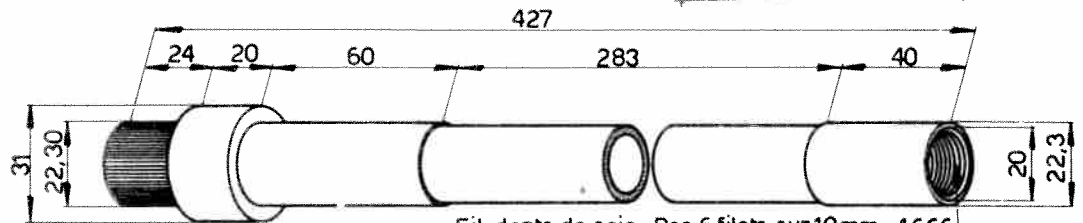
Bague 102-P20-9



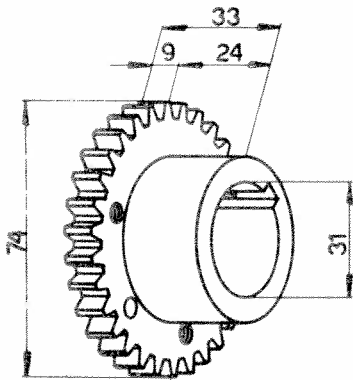
Vis-sans-fin 102VM-103



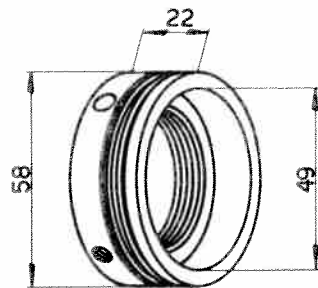
Clavette 102VM-156



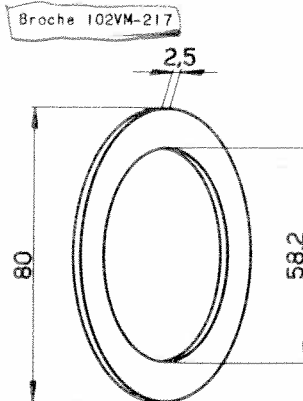
Fil. dents de scie. Pas 6 filets sur 10mm = 1,666



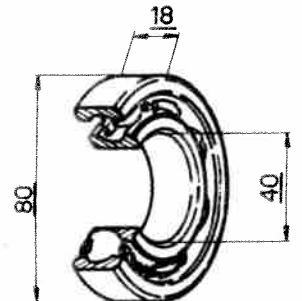
Roue dentée 102VM-104



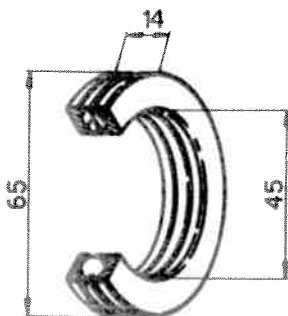
Ecrou-chicane 102VM-6175



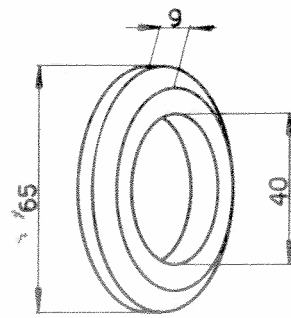
Broche 102VM-217



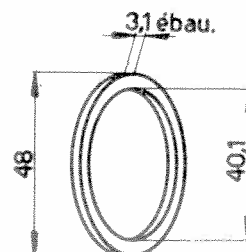
Roulement à billes SKF 6208-C153



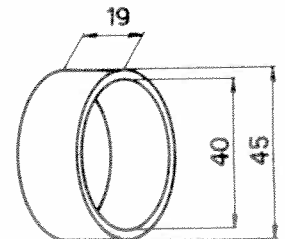
Butée à billes SKF 51109-C05



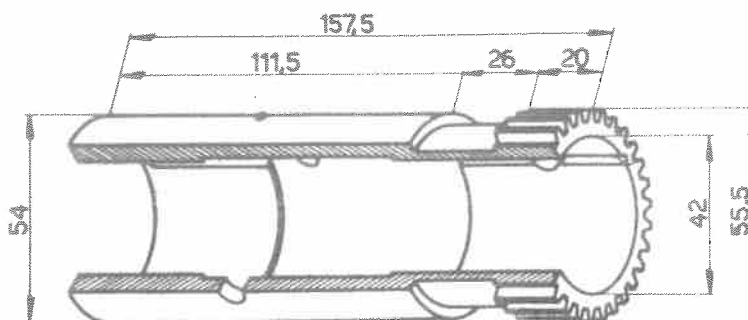
Bague 102VM-215



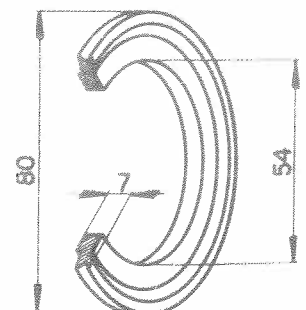
Bague 102-PER20-12



Bague 102-PER20-11

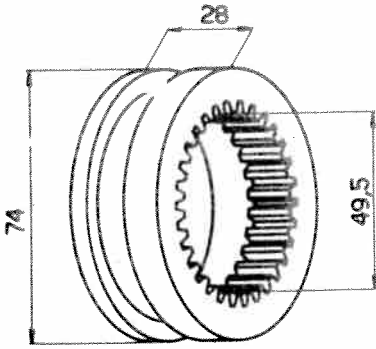


Douille 102VM-213

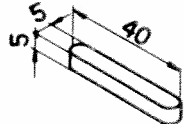


Bague 120 PER-14

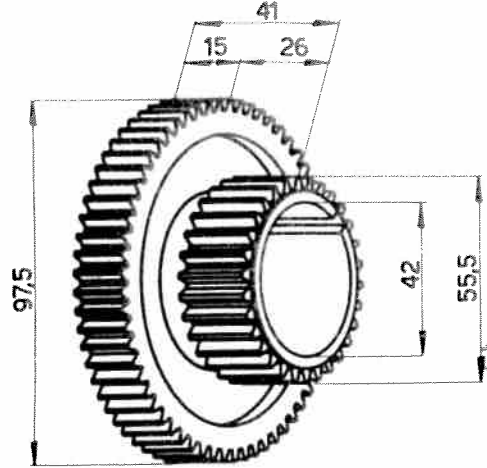
# TOUR 102VM POUPE A ENGRENAGES SUR ROULEMENTS



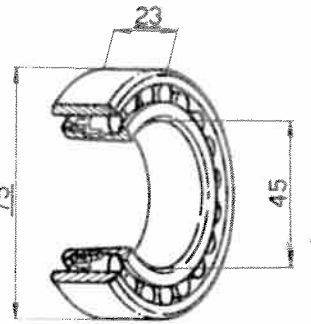
Engrenage 102-PER20-19



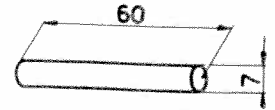
Clavett: 102VM-220



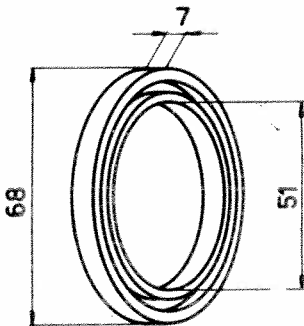
Engrenage 102-PER20-20



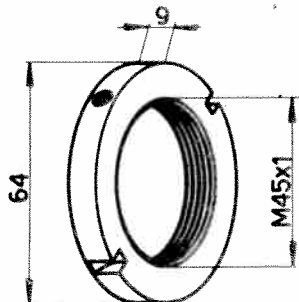
Roulement à rouleaux SKF NN3009K-C021



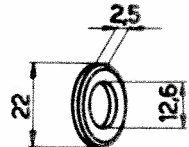
Tige 102-606-0



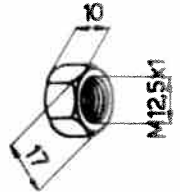
Bague 102-PER20-7



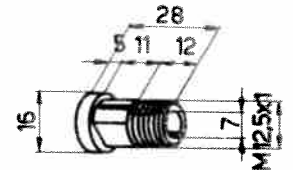
Ecrou 102-PER20-9a



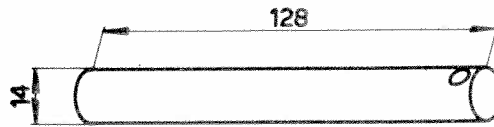
Rondelle 102-606-R



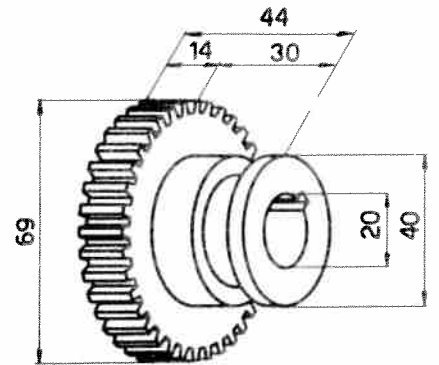
Ecrou 102-606-P



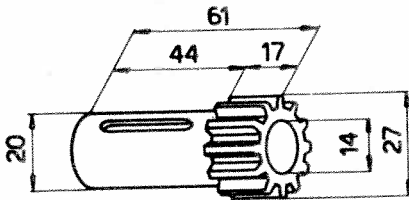
Douille 102-606-N



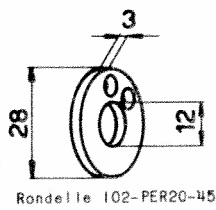
Axe 102-PER20-22



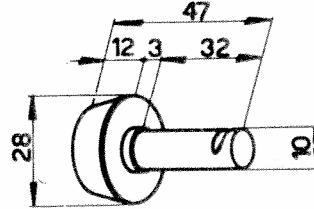
Engrenage 102-PER20-23



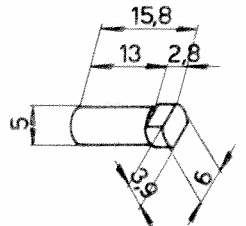
Pignon 102-PER20-21



Rondelle 102-PER20-45



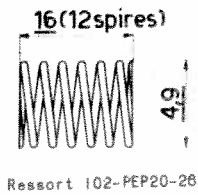
Axe 102VM-6083



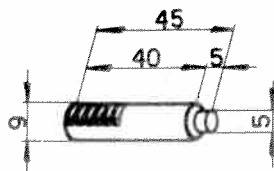
Ech. 2:1  
Prisonnier 102-PER20-8



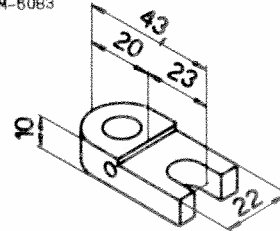
Ech. 2:1  
Doigt 102-PER20-25



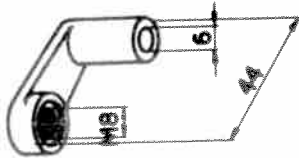
Ressort 102-PEP20-26



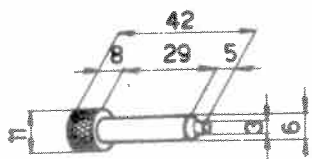
Piston 102VM-168



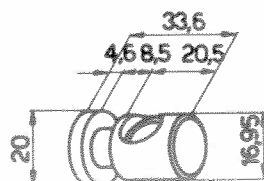
Levier 102-PER20-17



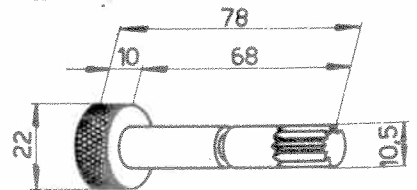
Levier division 102-605-B



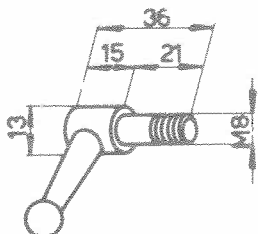
Piston 102-605-P



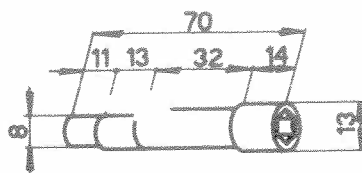
Tirant 102-605-S1



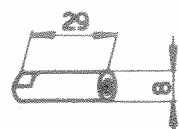
Pignon 102VM-163



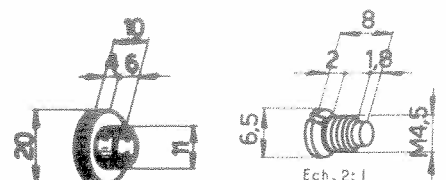
Vis de blocage 102VM-141  
Poignée M63-402 8x10x45



Eccentrique 102VM-356



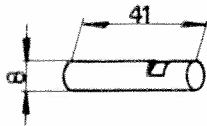
Pivot 102VM-218



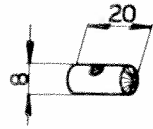
Couvercle graissage 65-P-50

# TOUR 102 VM

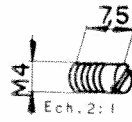
# Banc et commande de filetage



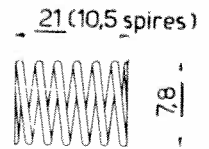
Pivot 102VM-6117



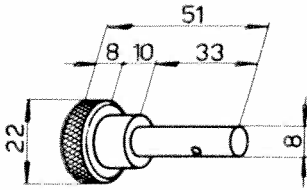
Piston 102VM-6119



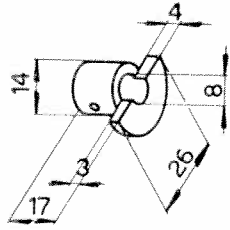
Vis 102VM-6120



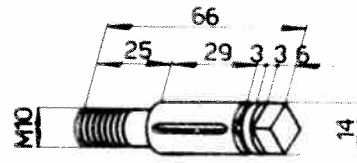
Ressort 0078-39



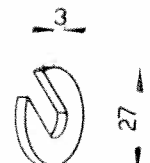
Poullet 120VM-11



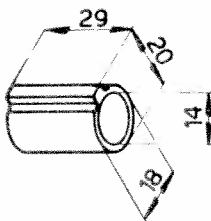
Verrou 120VM-742



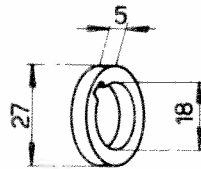
Tourillon 102VM-1712



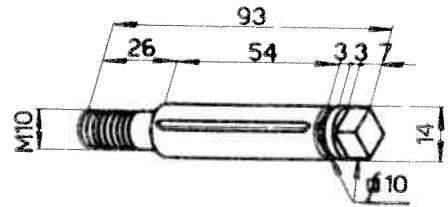
Rondelle à fourche 102VM-1715



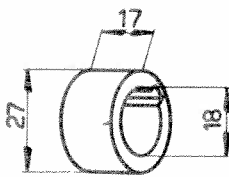
Douille à ergot 102VM-1713



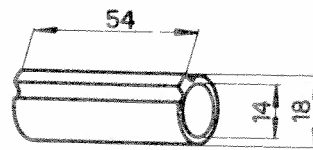
Bague Intermédiaire 102VM-1714



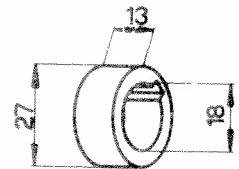
Tourillon 102VM-1720



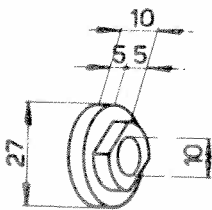
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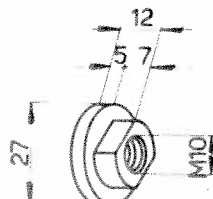
Douille à ergot 102VM-1721



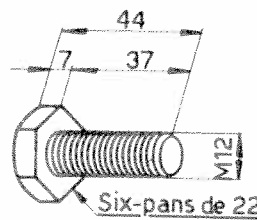
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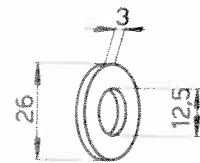
Rondelle à portée 102VM-1711



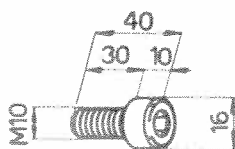
Ecrou 102VM-1710



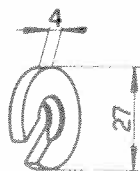
Vis 102VM-6094



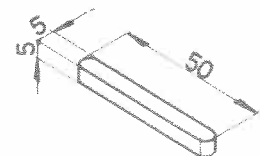
Rondelle 102VM-6095



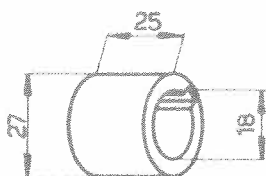
Vis CCM M10x30 462-270



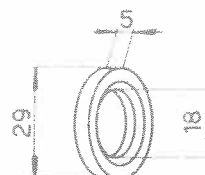
Rondelle-fourche 102VM-1709



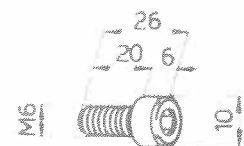
Clavette 102VM-6093



Bague 102VM-1717



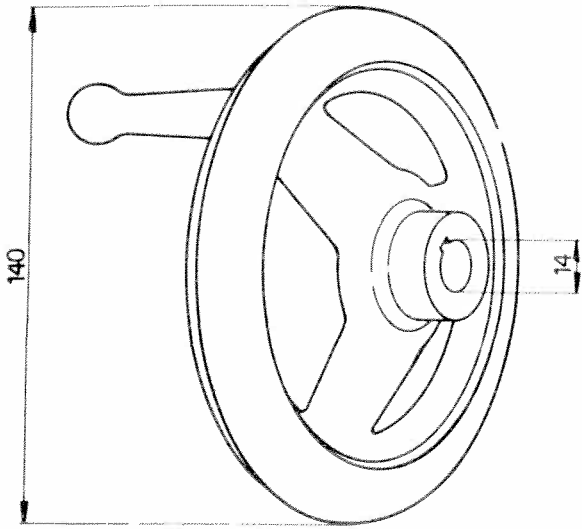
Bague 120VM-412



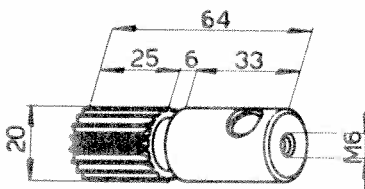
Vis CCM M6x20 462-270



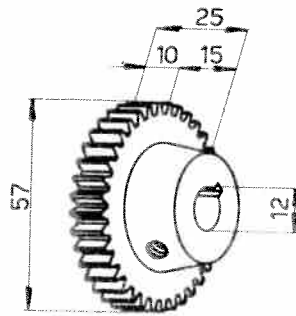
# TOUR 102VM    TABLIER-CHARIOT



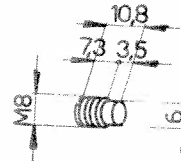
Volant 102VM-780  
Poignée 463-402 10x18x70



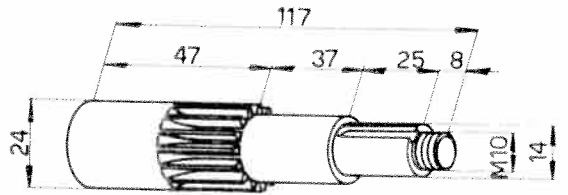
Pignon 102VM-788



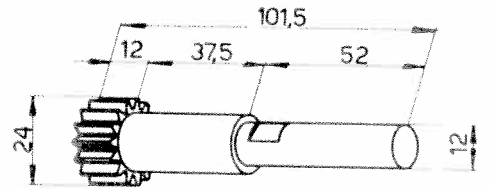
Engrenage 102VM-759



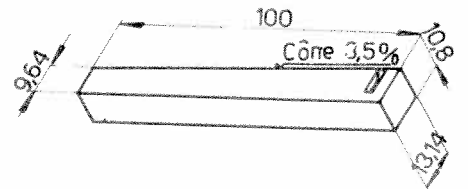
Vis à piv- 02VM-808



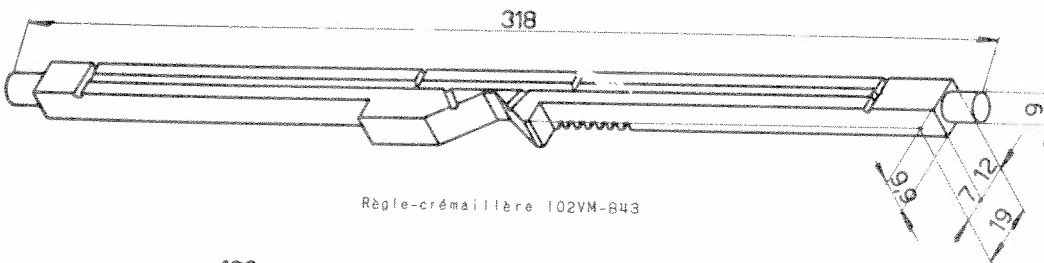
Pignon 102VM-757



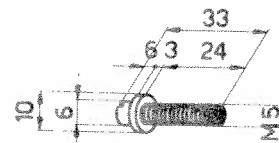
Pignon 102VM-760



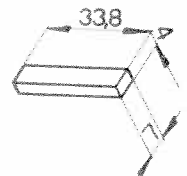
Lardon 102VM-829



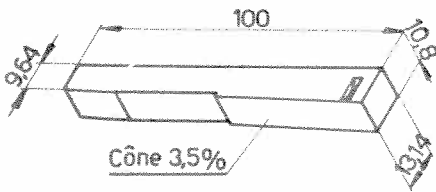
Règle-crémaillère 102VM-843



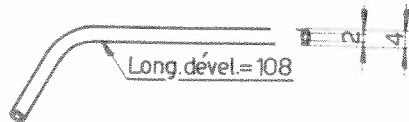
Vis pour lardon 11-33



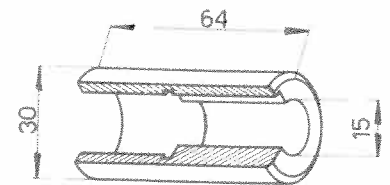
Clavette 102VM-802



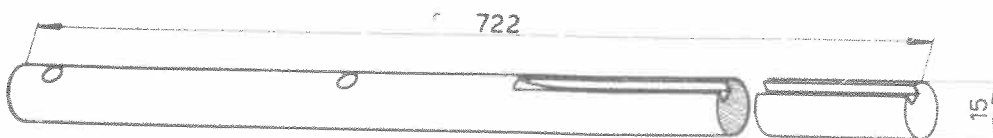
Lardon 102VM-830



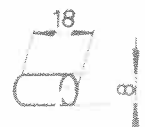
Tube 102VM-705



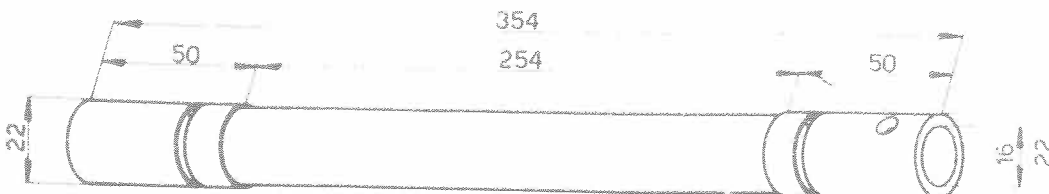
Outil 102VM-799



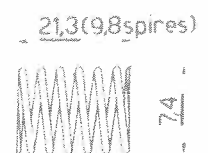
Barre 102VM-801



Pivot 102VM-186



Broche 102VM-800

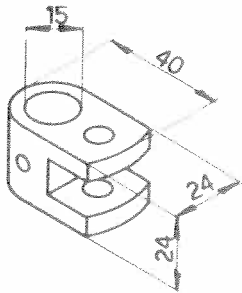


Resort 0074-149

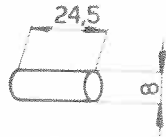


# TOUR 102VM

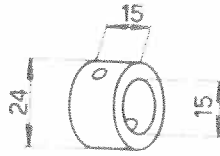
# TABLIER-CHARIOT



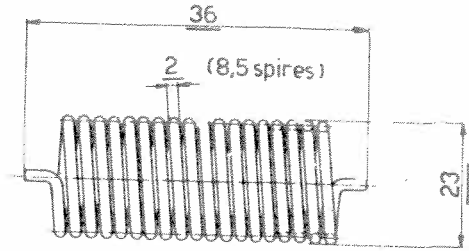
Fourche 102VM-804



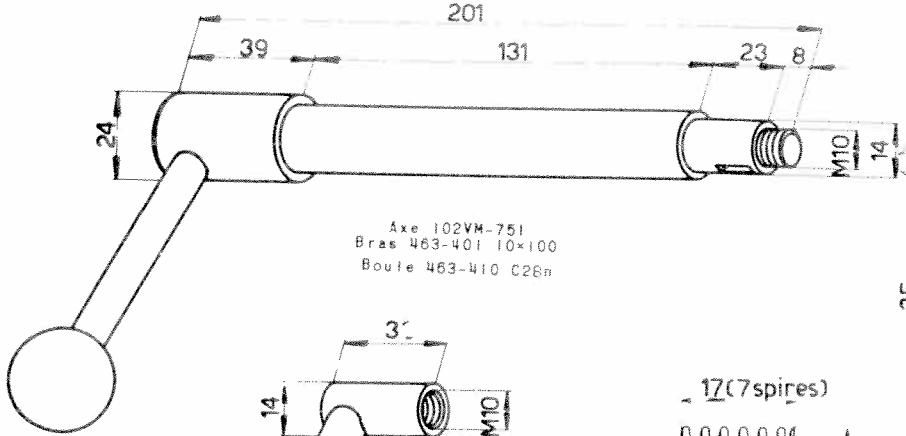
Tige 102VM-805



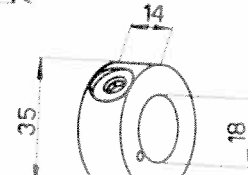
Bague 102VM-803



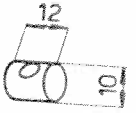
Ressort T230-3



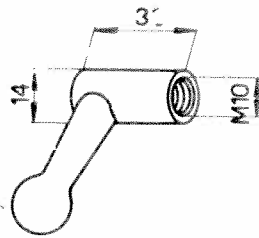
Axe 102VM-751  
Bras 463-401 10x100  
Boule 463-410 C26n



Bague 102VM-754

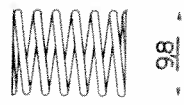


Plot 102VM-750

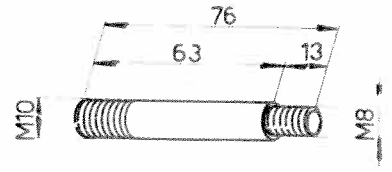


Poulet 102VM-745  
Poignée 102VM-837

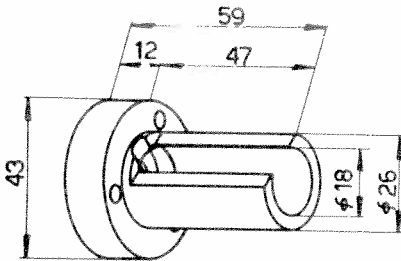
12(7 spires)



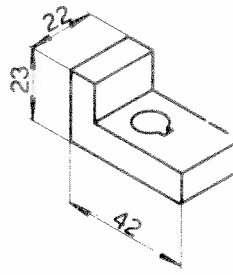
Ressort D096-157



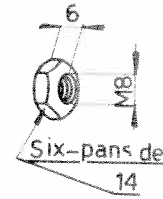
Goujon 102VM-834



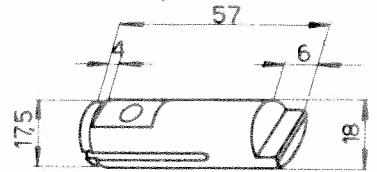
Douille 102VM-839



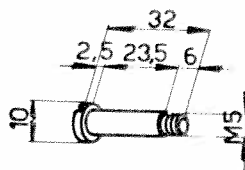
Bride 102VM-831



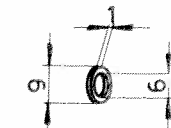
Six-pans de 14  
Rostule 102VM-835



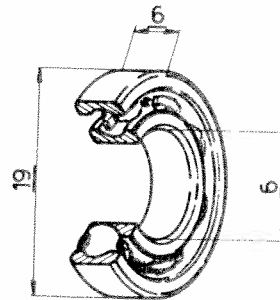
Verrou 102VM-840



Pivot 102VM-841

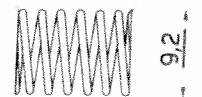


Entretoise 102VM-842



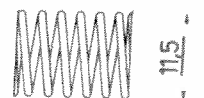
Roulement à billes SKF EL6

25(9,5 spires)



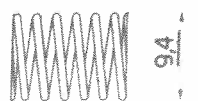
Ressort D092-155

24,5(8,2 spires)

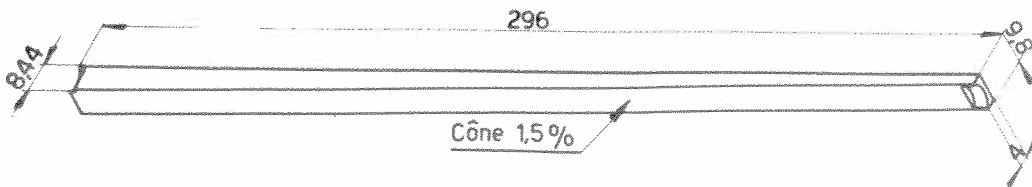


Ressort D115-150

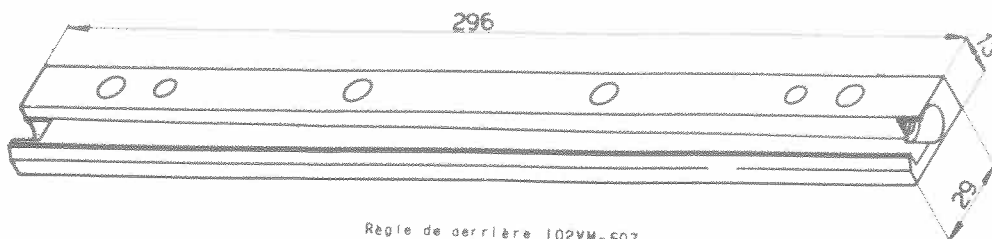
25(10,5 spires)



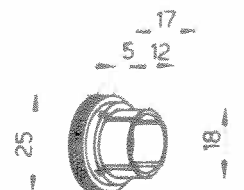
Ressort D094-154



Lardon 102VM-742

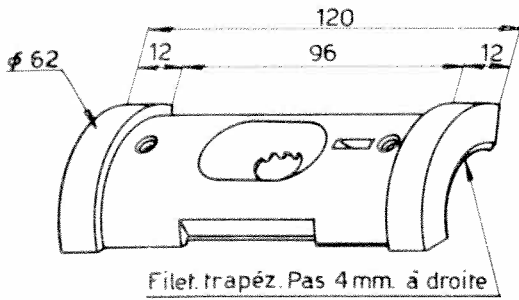


Règle de derrière 102VM-807



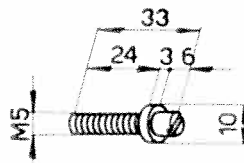
Couvercle 102VM-150

# TOUR 102VM TABLIER-CHARIOT

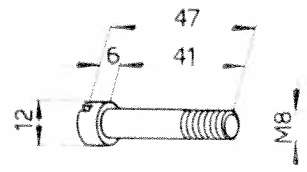


Filet. trapéz. Pas 4 mm. à droite

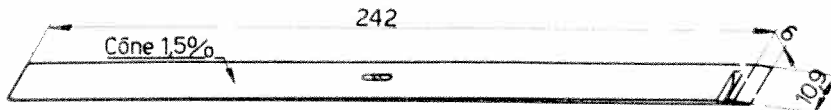
Peigne 102VM-704



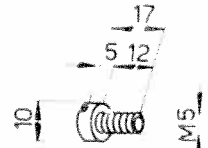
Vis 11A-504



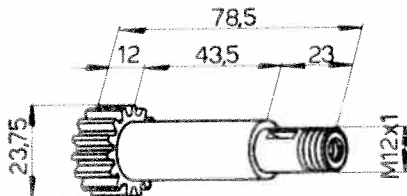
Vis-garde 102VM-705



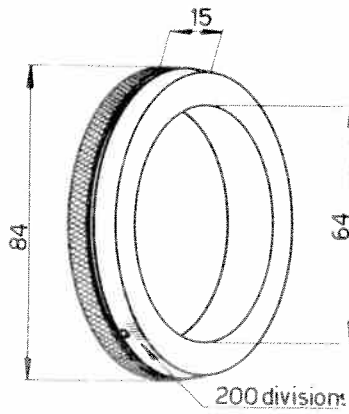
Lardon inférieur 102VM-789



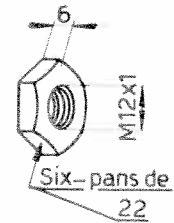
Vis 102VM-743



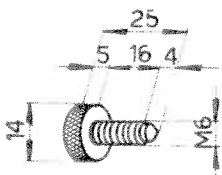
Pignon 102VM-728



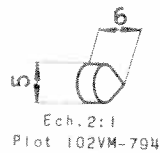
Vernier 102VM-733



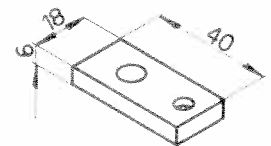
Contre-écrou spécial 102VM-736



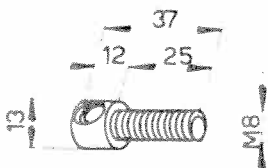
Vis 102VM-737



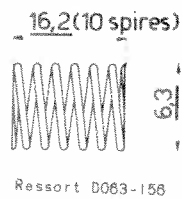
Ech. 2:1  
Plot 102VM-794



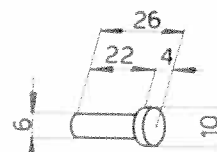
Plaque pour blocage 102VM-790



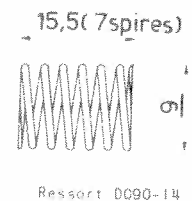
Vis de blocage 102VM-791



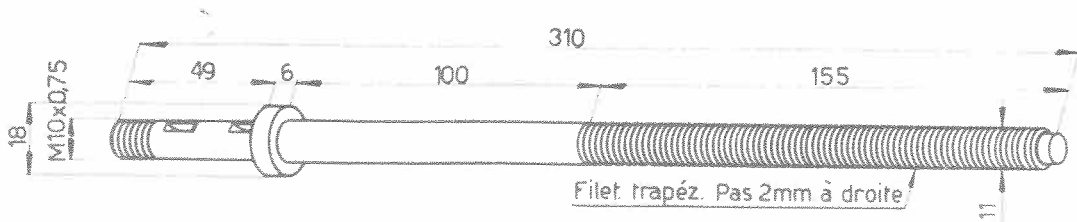
Ressort D083-158



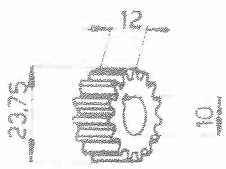
Piston 102VM-732



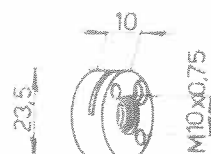
Ressort D090-14



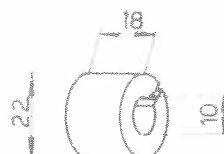
Vis 102VM-725



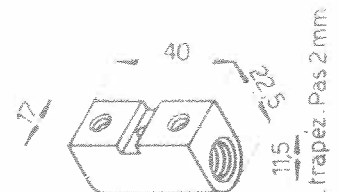
Engrenage 102VM-726



Ecrin 102VM-730

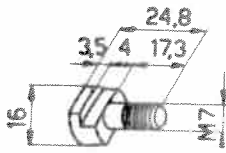


Bague 102VM-729

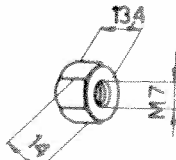


Ecrin inférieur 102VM-727

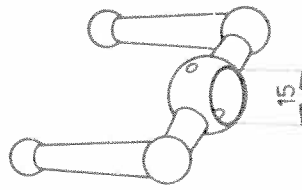
Filet. trapéz. Pas 2 mm



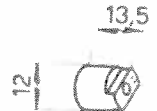
Vis de fixation 102-611-L



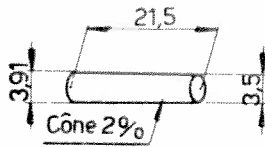
Ecrou 102-611-M



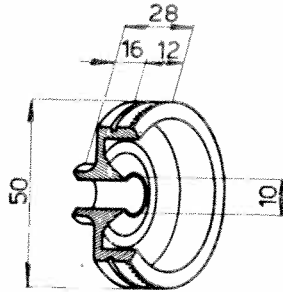
Roulement 102VM-836  
Pos: Les 463-402 6x10x45



Doigt 102VM-815



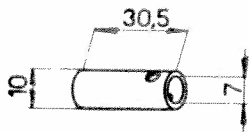
Goupille conique 102-CH-192  
Ech: 2:1



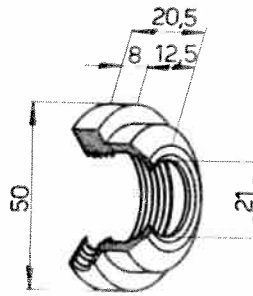
Vernier 102-CH-193



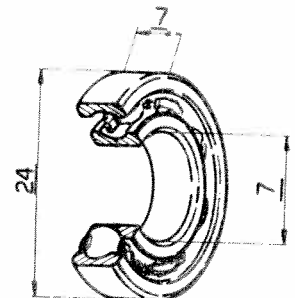
Rondelle élastique 102-CH-172



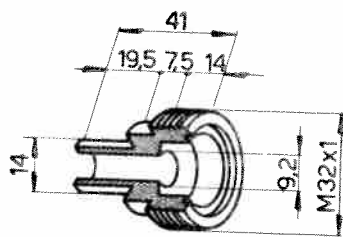
Douille 102-CH-187



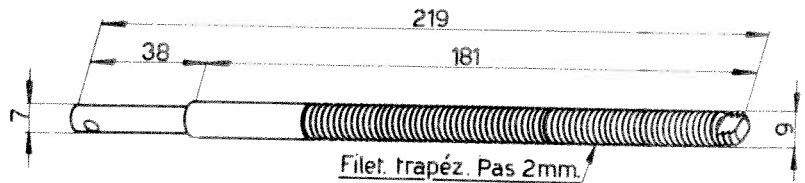
Ecrou 102-CH-189



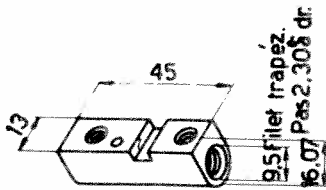
Roulement à billes 102-CH-170



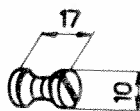
Manchon 102-CH-188



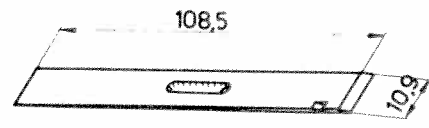
Vis supérieure 102VM-191



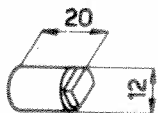
Ecrou supérieur 102-CH-133



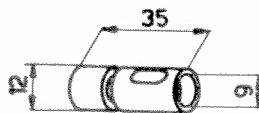
Excentrique 102-613-Z



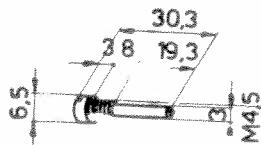
Lardon supérieur 102-611-SG



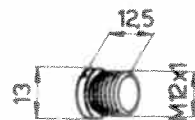
Pivot 102-CH-125



Guide 102-CH-181

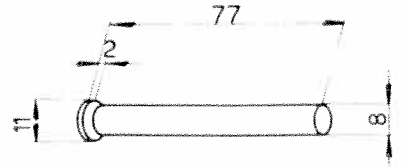


Vis 102-611-Q

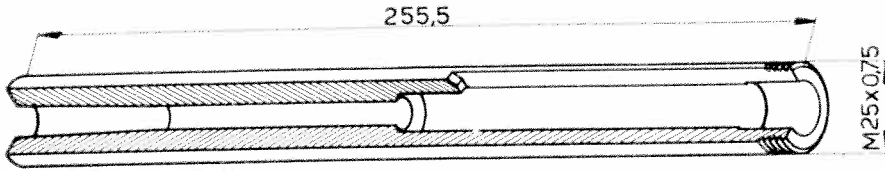


Vis-bouchon 102-614-J

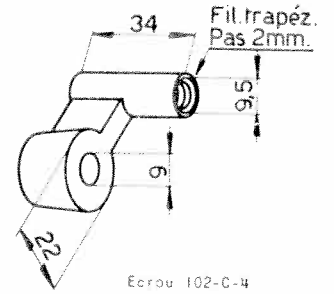
# TOUR 102VM - CONTRE-POUPEE ART. N°277



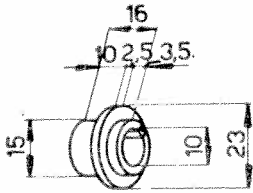
Chasse-pointe 102-608-G



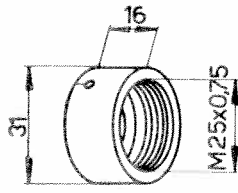
Douille graduée 102-608-D



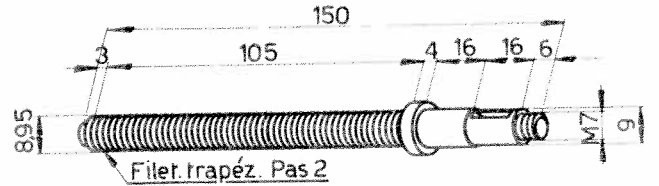
Ecrou 102-C-4



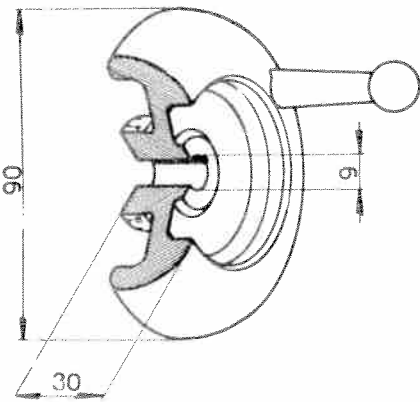
Douille 102-608-P



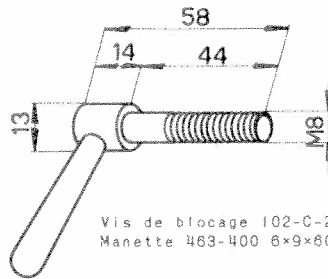
Ecrou-repère 102-608-Y



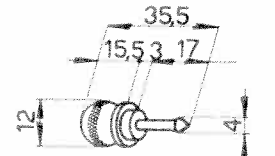
Vis 102-C-3



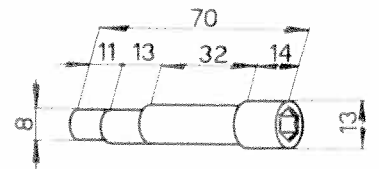
Volant 102VM-353  
Poignée 463-402 8x14x55



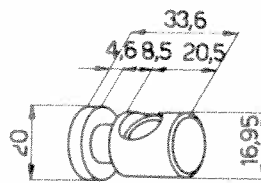
Vis de blocage 102-C-2  
Manette 463-400 6x9x60



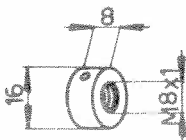
Tige pour huile 102-608-V



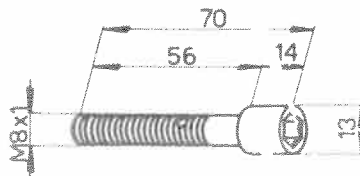
Excentrique 102VM-356



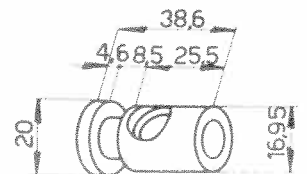
Tirant 102-605-S1



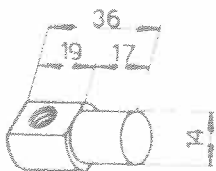
Ecrou 102VM-358



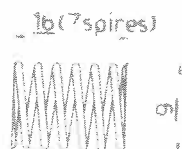
Vis 102VM-357



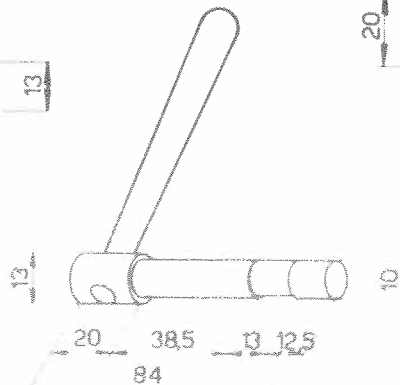
Tirant 102VM-354



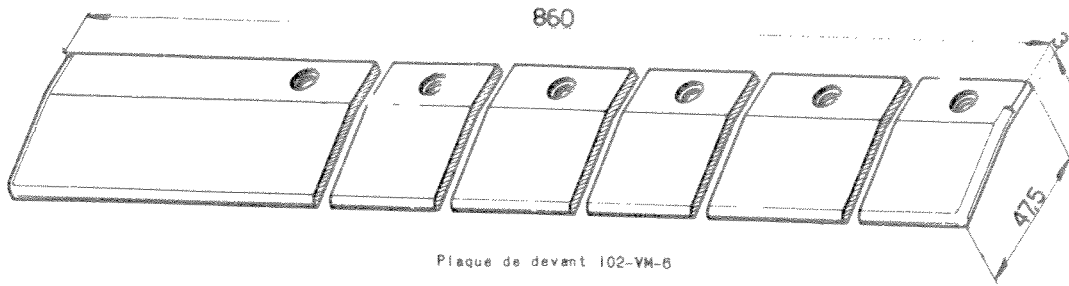
Ecrou 102VM-359



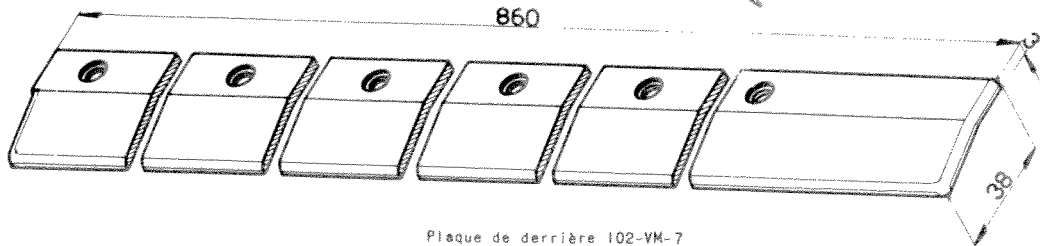
Ressort 0090 55



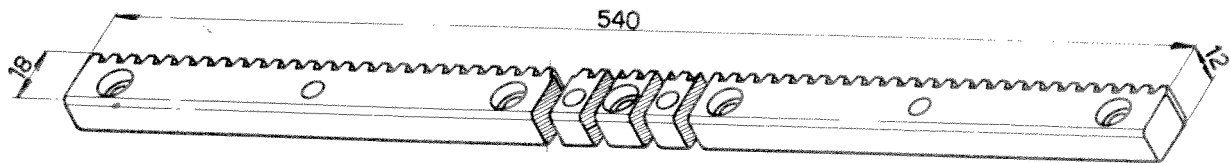
Excentrique 102-608-J  
Manette 463-400 7x10x60



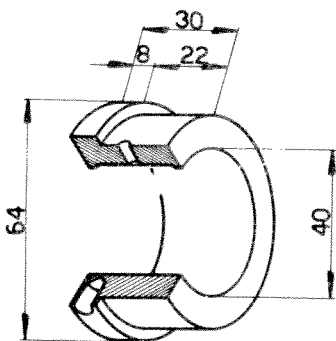
Plaque de devant 102-VM-6



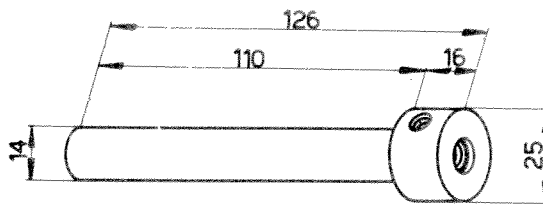
Plaque de derrière 102-VM-7



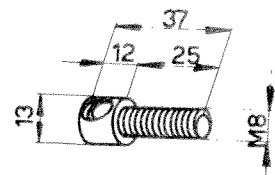
Crémaillère 102-VM-8



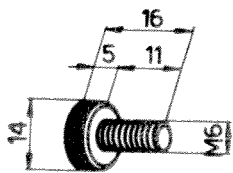
Douille 102-VM-226



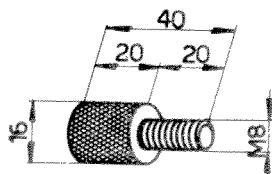
Bouée 102-VM-22



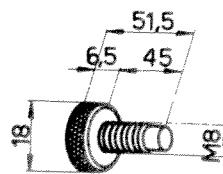
Vis de blocage 102-VM-791



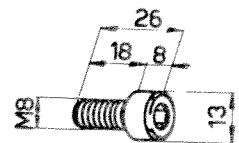
Vis E M6x11 462-275



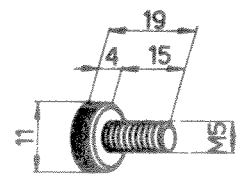
Vis de réglage 102-VM-24



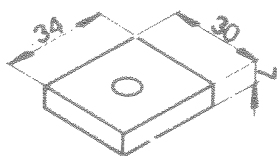
Vis E2 M8x45 462-277



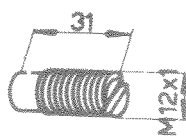
Vis CCM M8x18 462-270



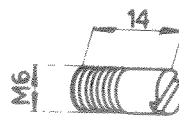
Vis E M5x15 462-274



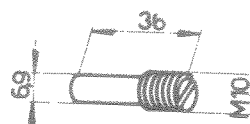
Plaque 102-VM-25



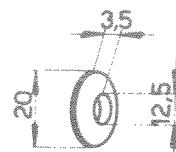
Vis de fixation 102-VM-688



Ech. 2:1  
Vis 15-461



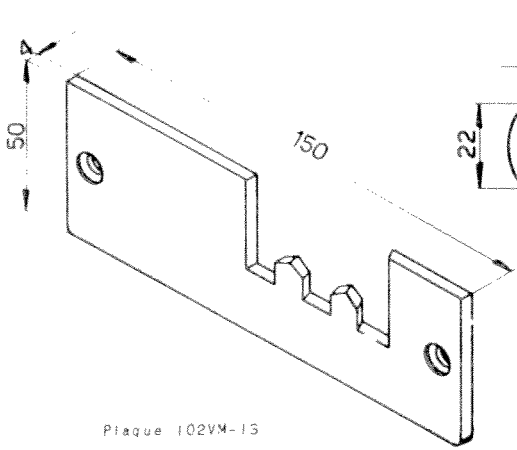
Vis 102-VM-687



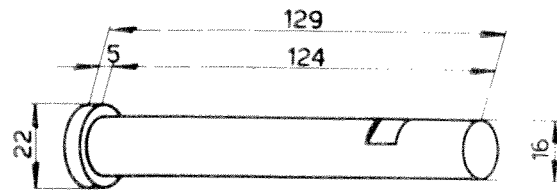
Rotule 102-60, F

# TOUR 102VM

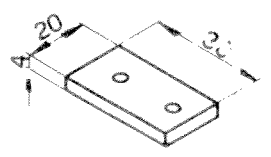
# COMMANDE INDIVIDUELLE



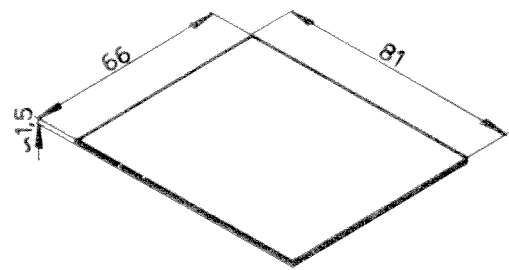
Plaque 102VM-15



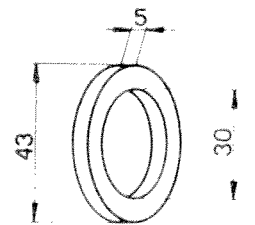
Pivot 120-TS-19



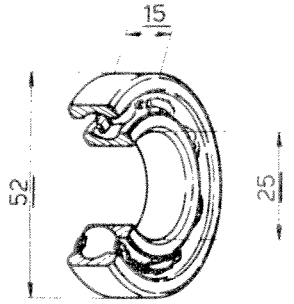
Arrêt 120-TS-100



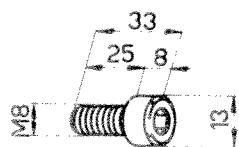
Lame 120-TS-10



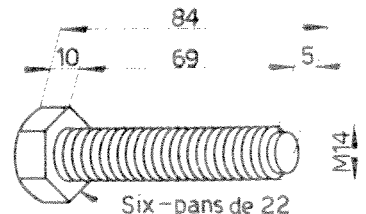
Rondelle feutre SKF Fi 7



Roulement à billes SKF 6205

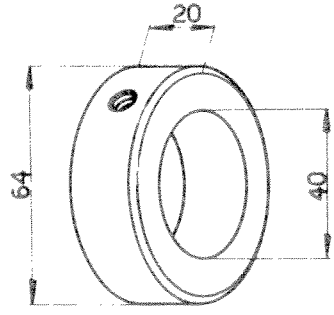


Vis CCM M8x25 462-270

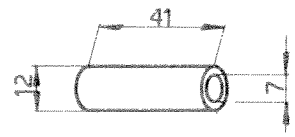


Six-pans de 22

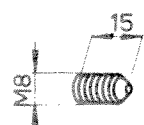
Bouton 120-TS-42



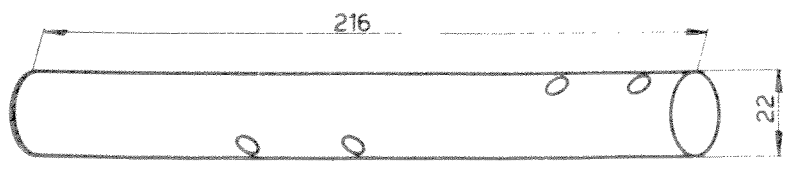
Bague 120-TS-32



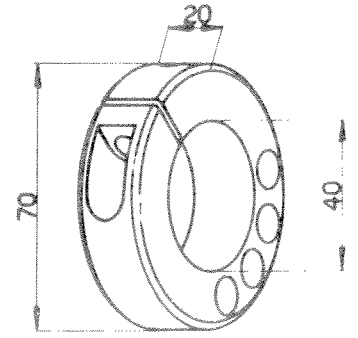
Tube 120-TS-96



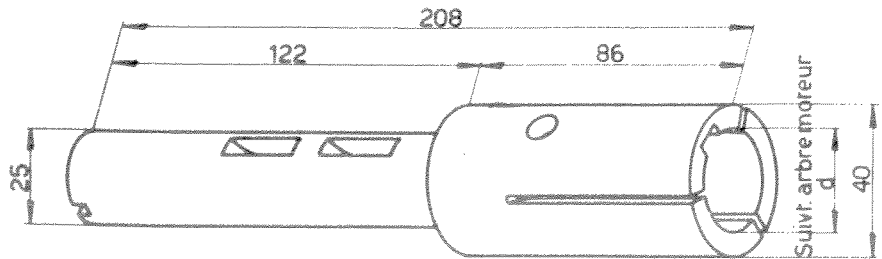
Vis DCMC M8x15 462-217



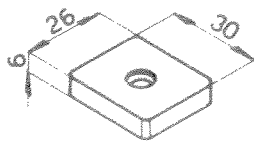
Axe 120-TS-54



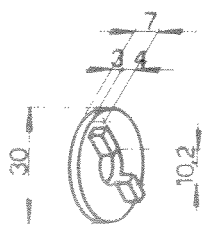
Bague 120-TS-44



Arbre 120-TS-38



Tampon 120-TS-63



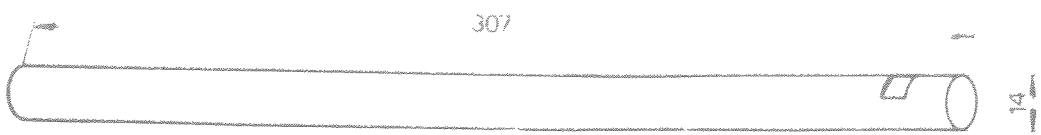
Arrêt 120-TS-100



Axe 120-TS-14



Vis DCMC M6x62 462-217

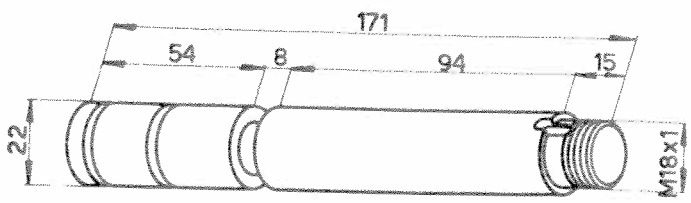


Axe 120-TS-15

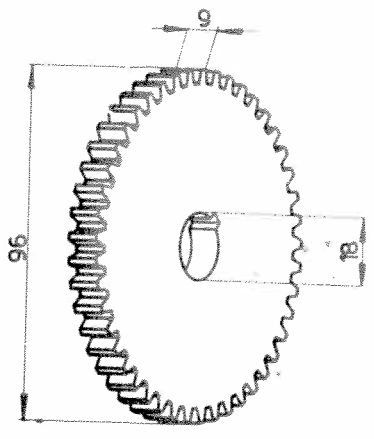


Rondelle 120-TS-100

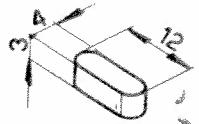
# TOUR 102VM BOITE DE VITESSES



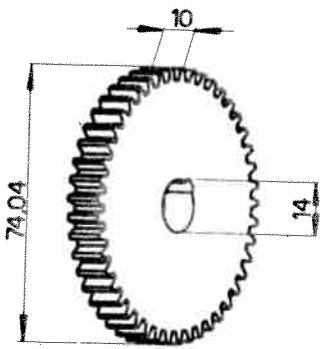
Arbre 102VM-6040



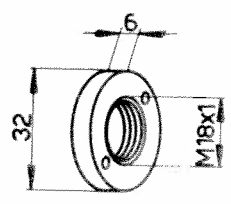
Roue dentée 102VM-6041



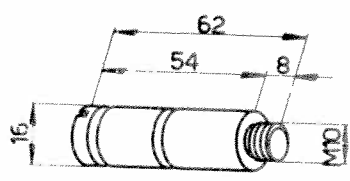
Ech. 2:1  
Clavette 102VM-6043



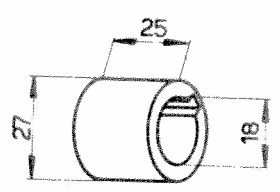
Roue dentée 102VM-6081



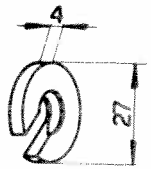
Ecrou 102VM-6042



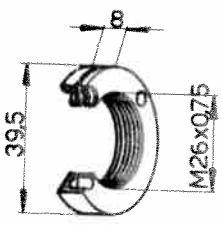
Guide 102VM-6044



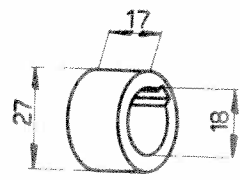
Bague 102VM-1717



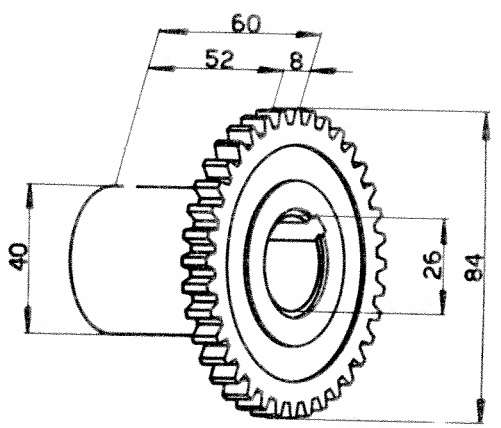
Rondelle à fourche 102VM-1709



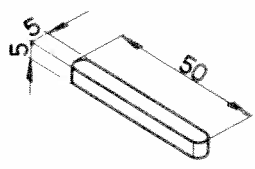
Ecrou 102VM-6113



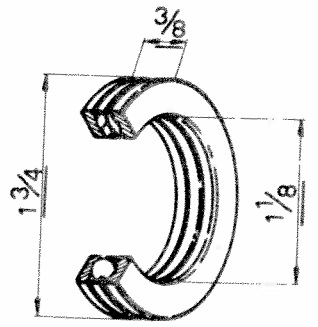
Bague 102VM-1716



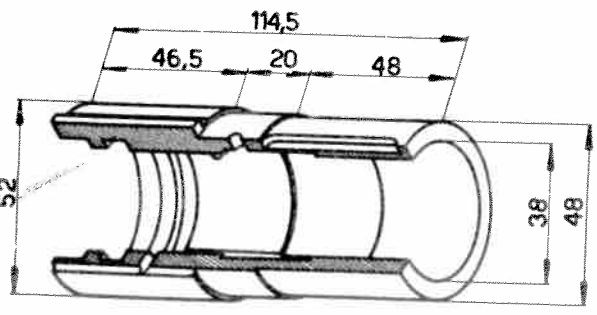
Engrenage 102VM-6031



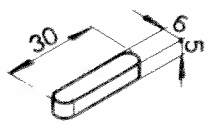
Clavette 102VM-6093



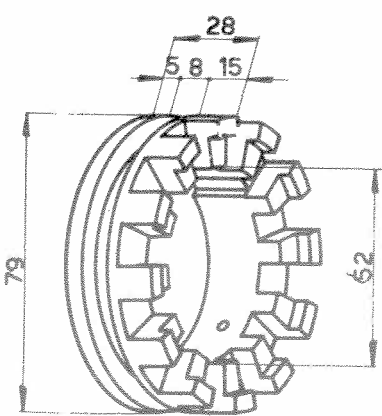
Butée Hoffmann N° EW 1/8



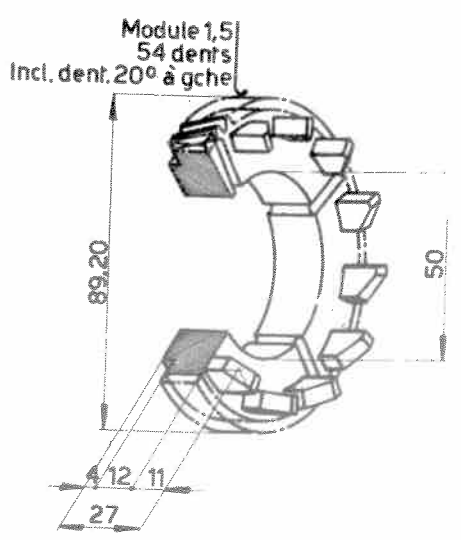
Douille 102VM-6033



Clavette 102VM-6066

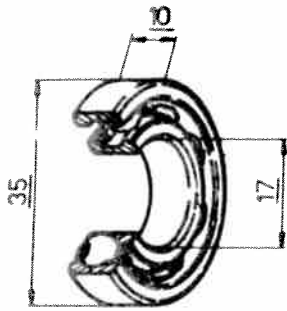


Entraîneur 102VM-6032

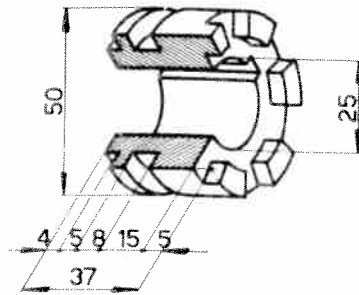


Roue hélicoïdale 102VM-6035

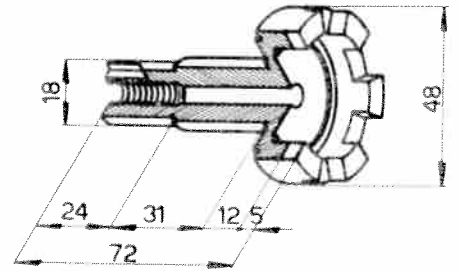
# TOUR 102VM BOITE DE VITESSES



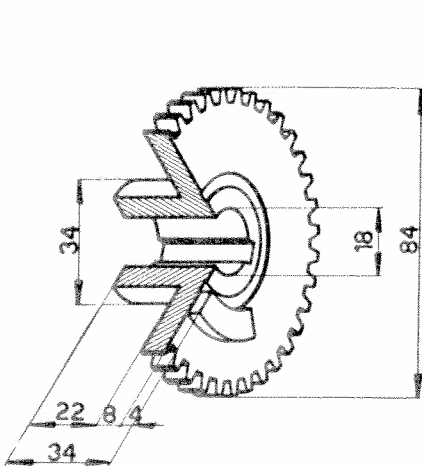
Roulement à billes SKF 6003X



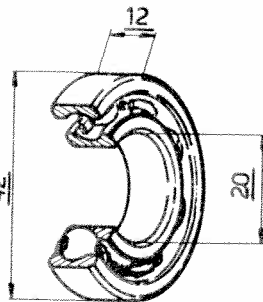
Entraineur 102VM-6057



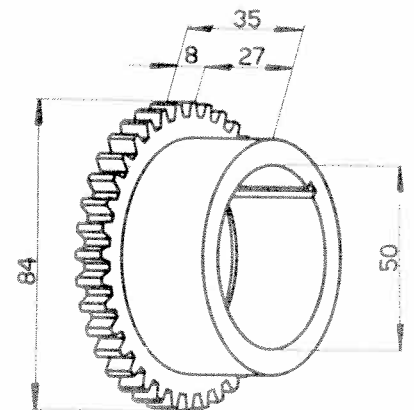
Arbre porte-engrenage 102VM-6147



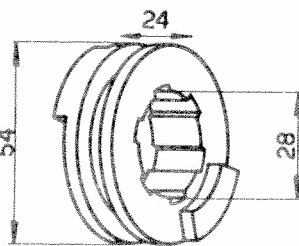
Roue dentée 102VM-6062



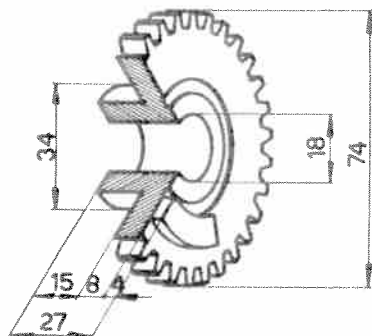
Roulement à billes SKF 6004X



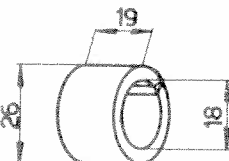
Engrenage 102VM-6058



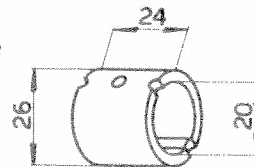
Entraineur 102VM-6152



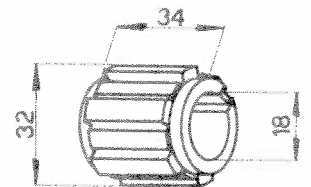
Roue dentée 102VM-6063



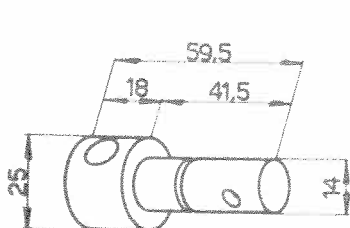
Boite 102VM-6061



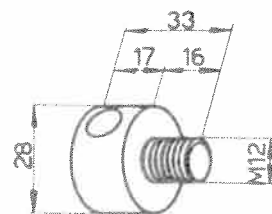
Emboilage 102VM-6114



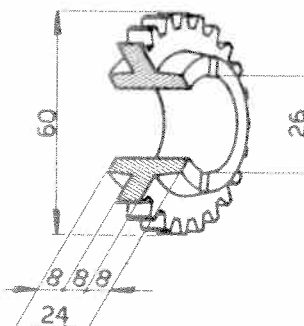
Manchon 102VM-6151



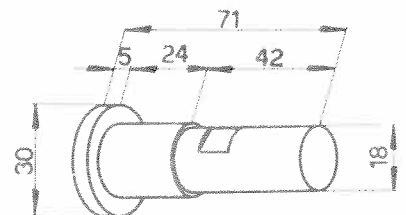
Pivot 102VM-6071



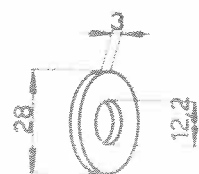
Vis de blocage 102VM-6047



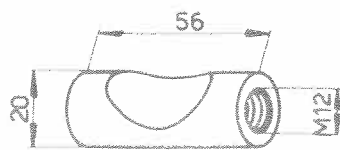
Roue intermédiaire 102VM-6065



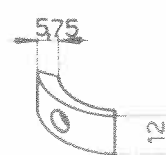
Tourillon 102VM-6064



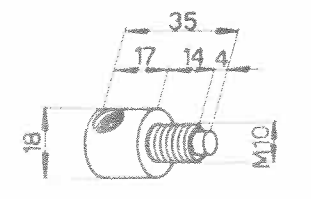
Bague 102VM-6115



Fige de serrage 102VM-6066



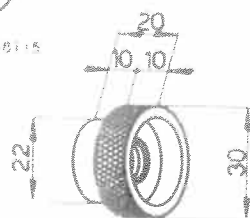
Segment 102VM-6080



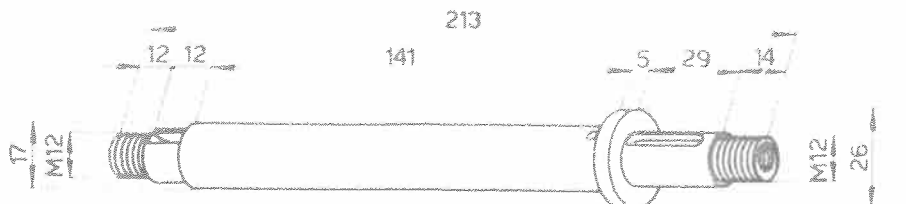
Arbre 102VM-6113



Clavette 102VM-6078



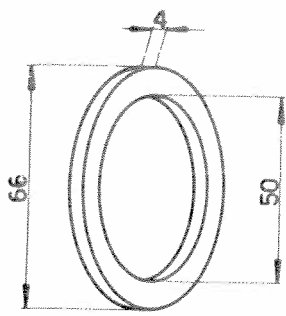
Poullet 102VM-6079



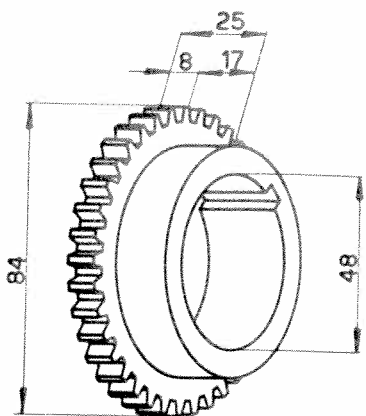
Arbre 102VM-6086



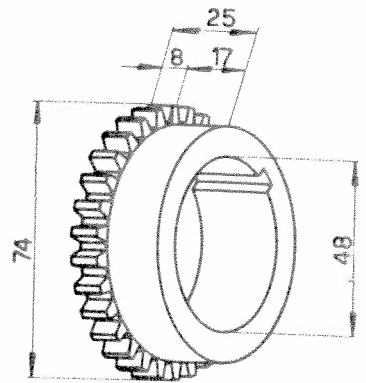
# TOUR 102VM BOITE DE VITESSES



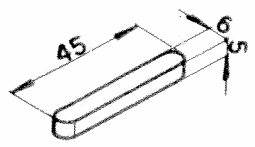
Bague de frottement 102VM-6034



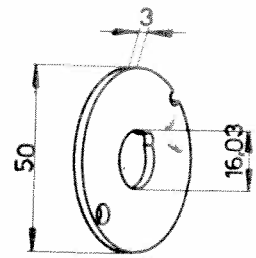
Roue dentée 102VM-6036



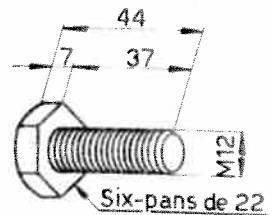
Roue dentée 102VM-6096



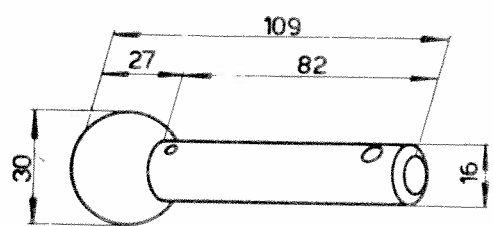
Clavette 102VM-6098



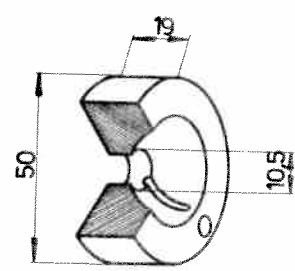
Bague 102VM-6116



Six-pans de 22

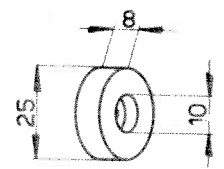


Rotule 102VM-684

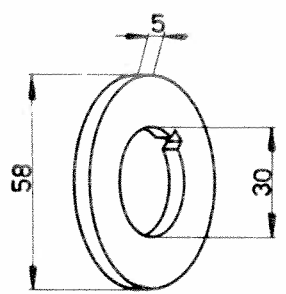


Bague à rotule 102VM-685

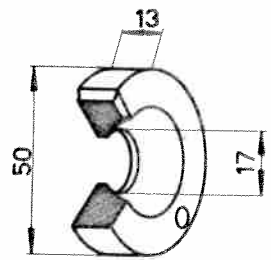
Vis 102VM-6094



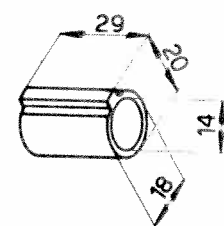
Rondelle 102VM-686



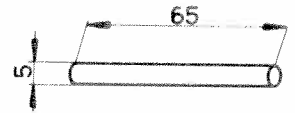
Bague 102VM-6037



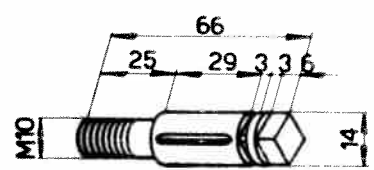
Bague à rotule 102VM-683



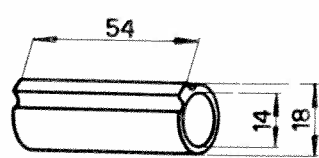
Douille à ergot 102VM-1713



Tige cyl. 102VM-689



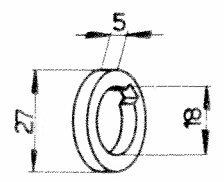
Tourillon 102VM-1712



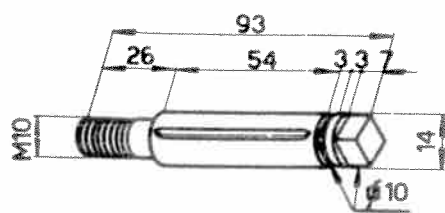
Douille à ergot 102VM-1721



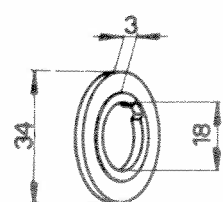
Rondelle à fourche 102VM-1715



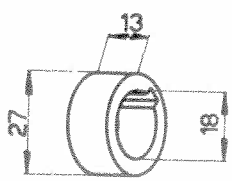
Bague intermédiaire 102VM-1714



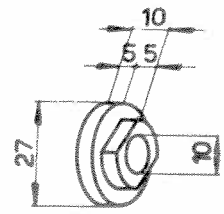
Tourillon 102VM-1720



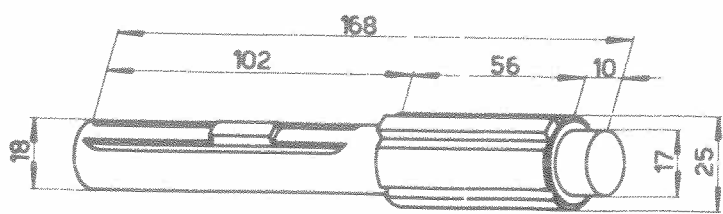
Rondelle 102VM-6148



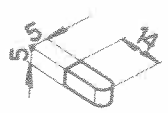
Bague 102VM-1723



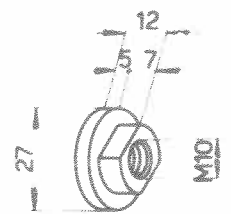
Rondelle à portée 102VM-1711



Arbre 102VM-6150

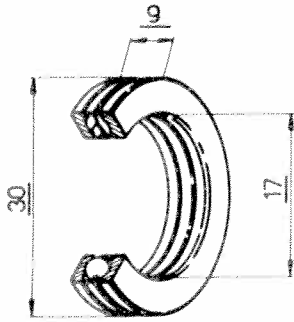


Clavette 102VM-6133

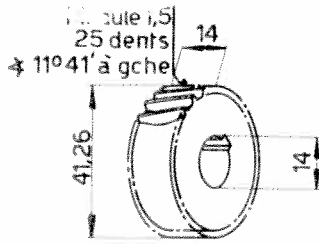


Ecrou 102VM-1710

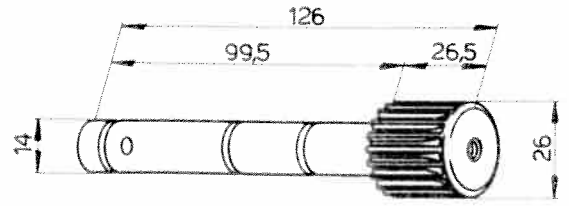
# TOUR 102VM BOITE DE VITESSES



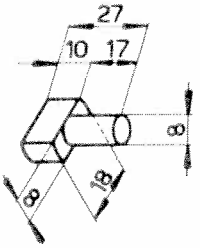
Butée à billes SKF 51103



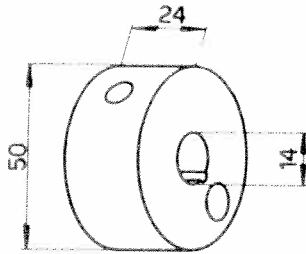
Roue hélicoïdale 102VM-6067



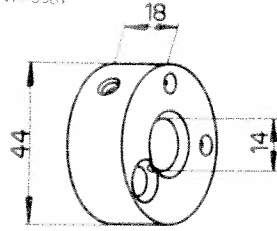
Pignon 102VM-6069



Doigt 102VM-6070



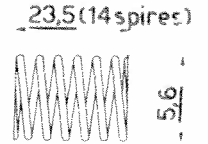
Canon 102VM-6072



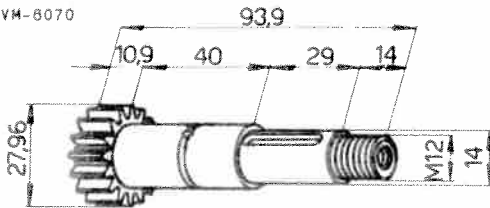
Disque 102VM-6073



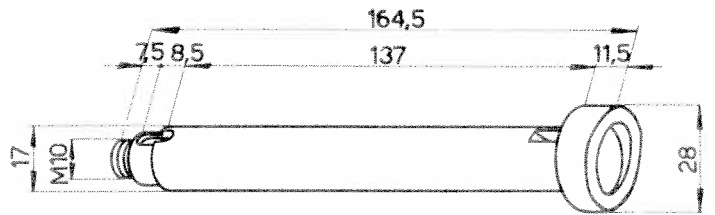
Piston 102VM-6075



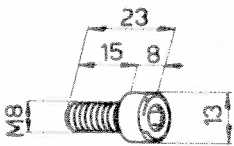
Ressort D058-38



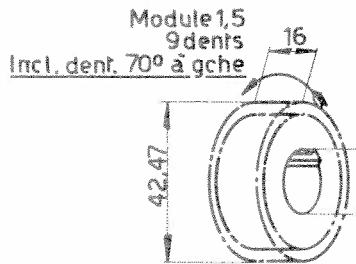
Pignon 102VM-6077



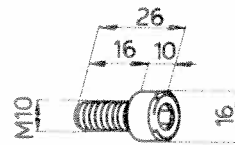
Axe 102VM-6155



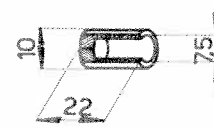
Vis OCM M8x15 162-270



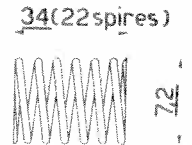
Roue hélicoïdale 102VM-6082



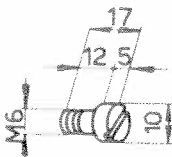
Vis OCM M10x16 162-270



Piston 102VM-6142



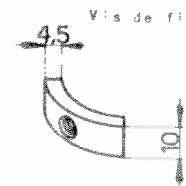
Ressort D072-96



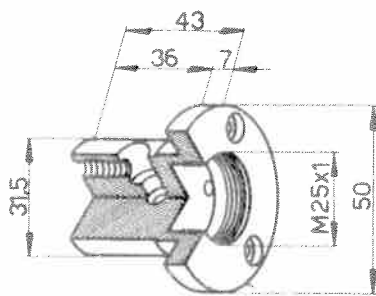
Vis de fixation 102VM-8085



Levier 102VM-6048  
Boule 463-410 C22n



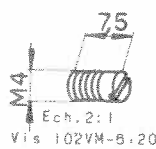
Segment 102VM-6084



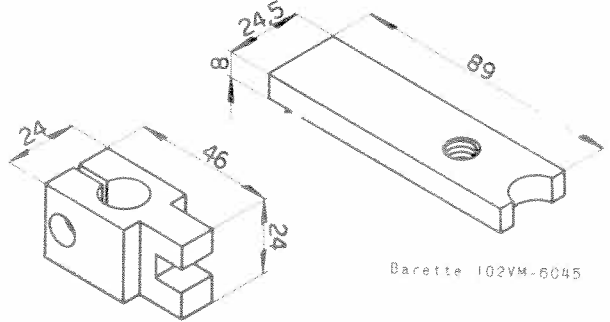
Corps de pompe 102VM-6157



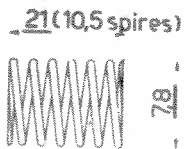
Douille 102VM-6156



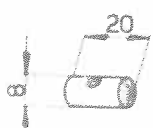
Vis 102VM-6.20



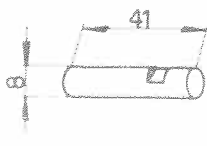
Bride 102VM-6067



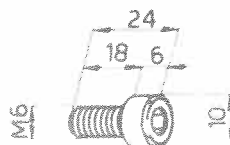
Ressort D078-39



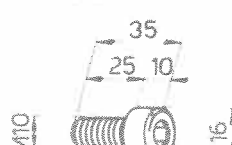
Piston 102VM-6117



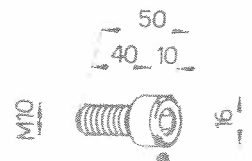
Piston 102VM-6117



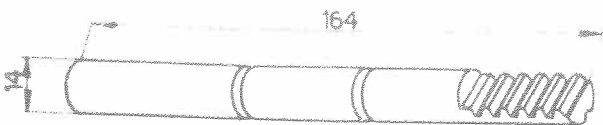
Vis OCM M6x16 162-270



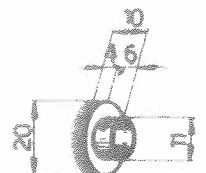
Vis OCM M10x16 162-270



Vis OCM M8x16 162-270



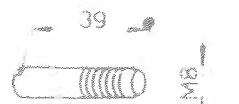
Triangle 102VM-6068



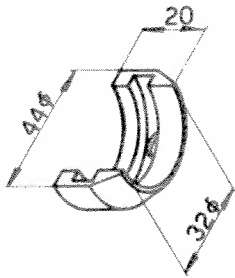
Couvercle graisseur 65-8-50



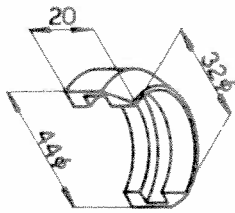
Piston 102VM-6118



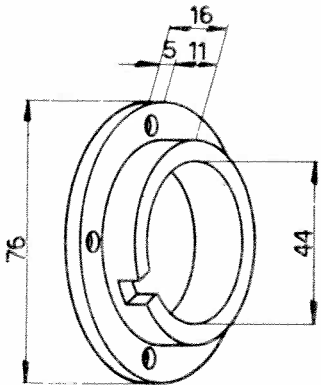
Vis de fixation 102VM-8117



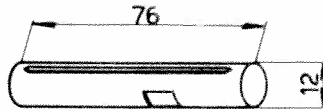
Chicane 102VM-6178



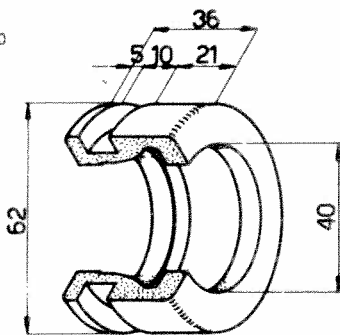
Chicane 102VM-6179



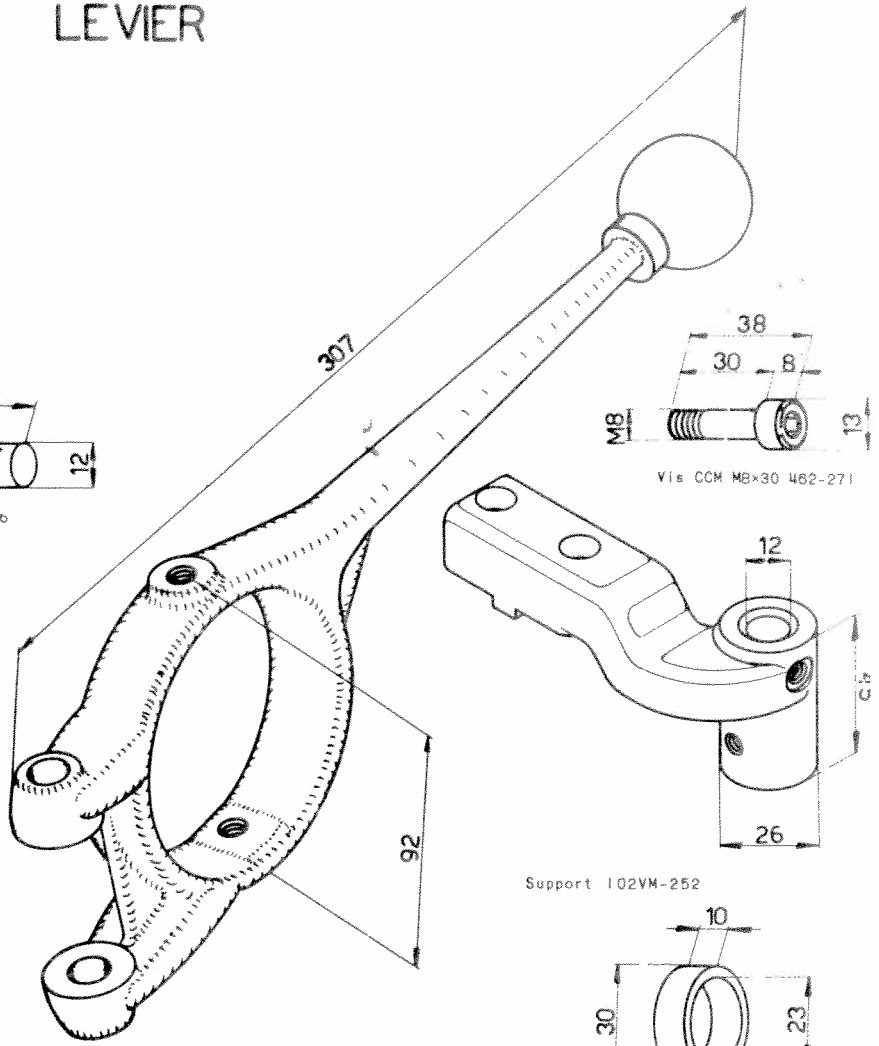
Bague 102VM-6180



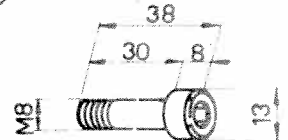
Pivot 102VM-256



Bobine 102-616-V2

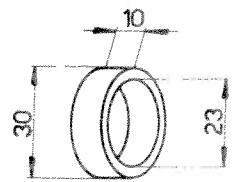


Levier 102-616-Q avec boule 463-410 C36n

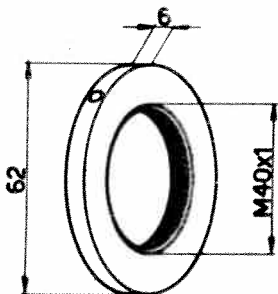


Vis CCM MBx30 462-271

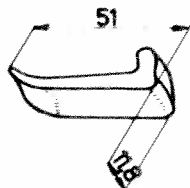
Support 102VM-252



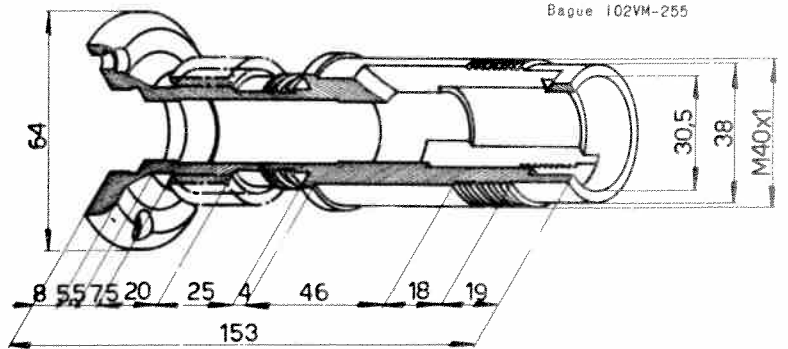
Bague 102VM-255



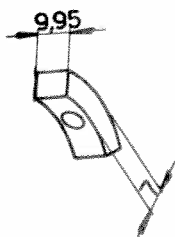
Bague 102VM-258



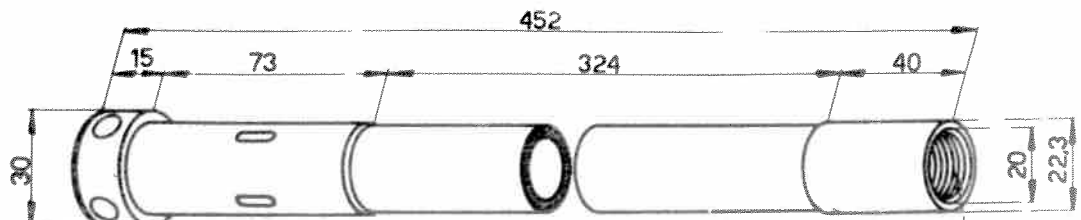
Chien 120-P-109



Manchon 102VM-253

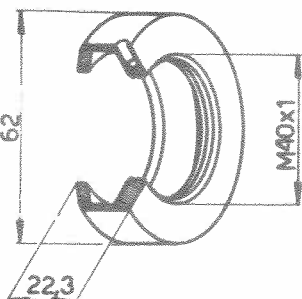


Segment 102VM-259

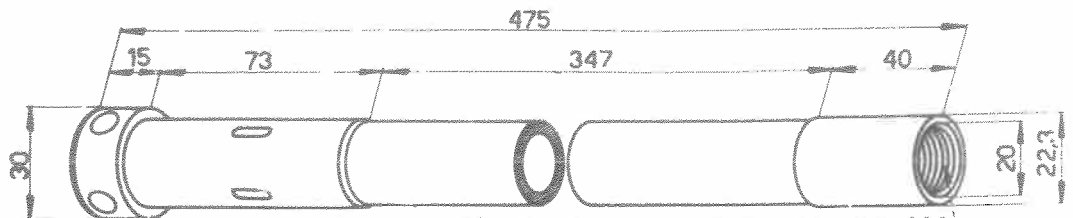


Fil.dents de scie. Pas 6 filets sur 10mm=1,666

Clé de serrage 102VM-254



Bague 102VM-257

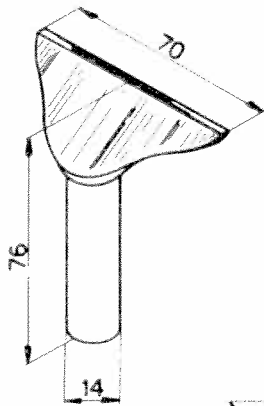


Fil.dents de scie. Pas 6 filets sur 10mm=1,666

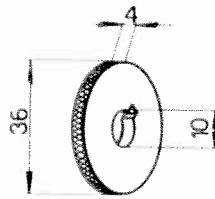
Clé de serrage 102VM-260

# TOUR 102VM

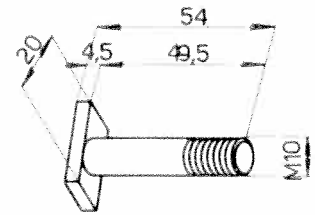
## SUPPORT A MAIN LUNETTE A 3 CHIENS LUNETTE A SUIVRE



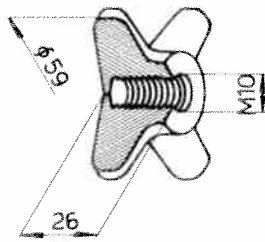
Eventail 102-615-B



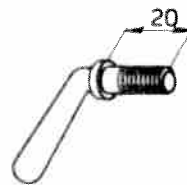
Rondelle 102VM-1303



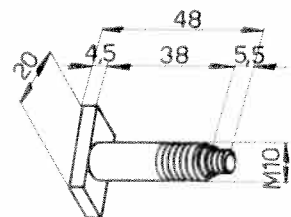
Tige de blocage 102-VM-1392



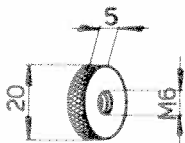
Poulet 102VM-1301



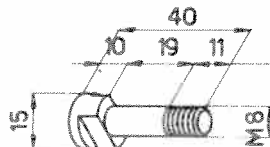
Manette de blocage 102-615-C



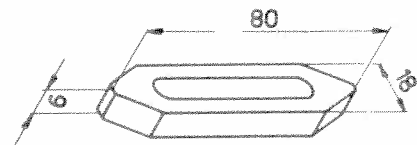
Tige de fixation 102VM-1602



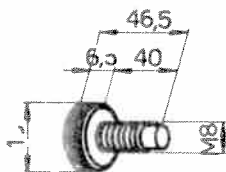
Poulet 102VM-1603



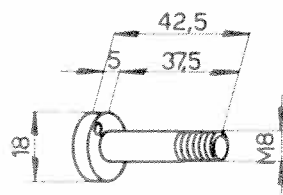
Vis de fixation 102-618-C



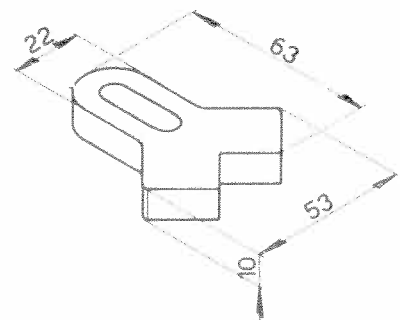
Chien 102-618-B



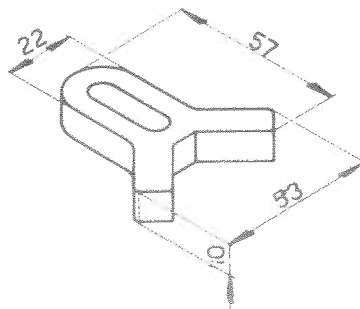
Vis E2 M8x40 462-277



Tige de fixation 102VM-1655



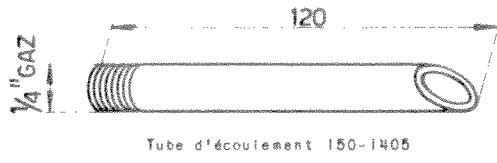
Chien 102VM-1652



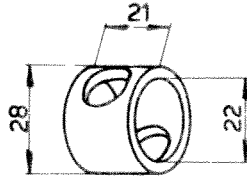
Chien 102VM-1653

# TOUR 102VM

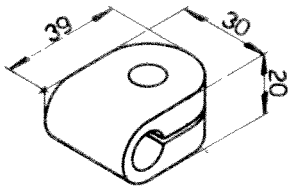
# POMPE ET TUYAUTERIE. GENOUILLERE



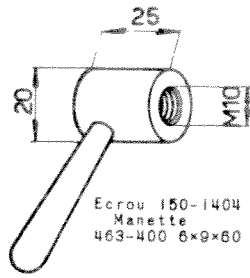
Tube d'écoulement 150-1405



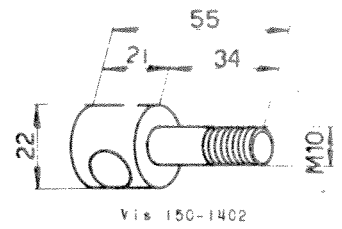
Douille 51-7025



Bride 150-1401



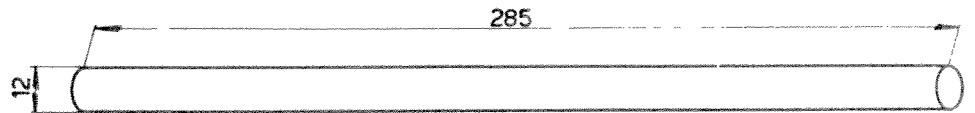
Ecrou 150-1404  
Manette  
463-400 6x9x60



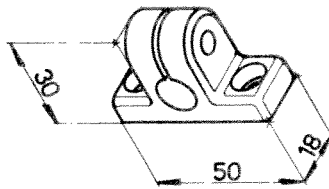
Vis 150-1402



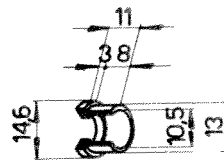
Tringle 150-1410



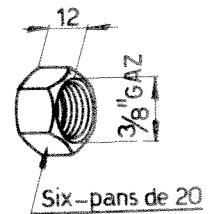
Tringle 130-2663



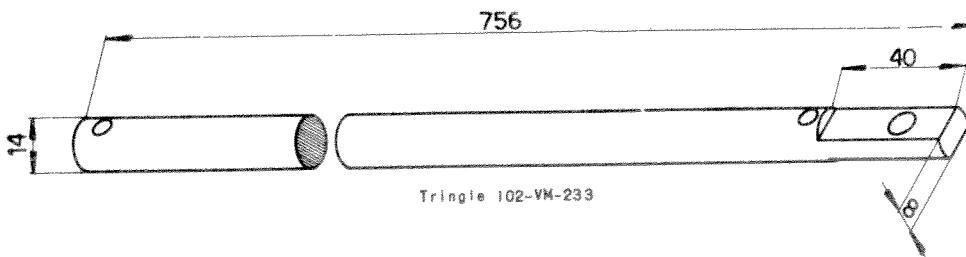
Support 120-VM-1383



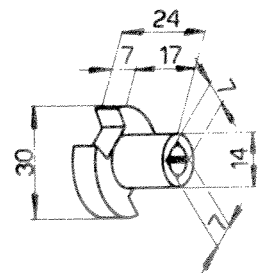
Douille 51-7013



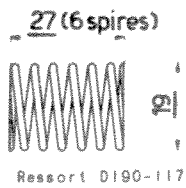
Six-pans de 20  
Ecrou 52-773



Tringle 102-VM-233



Entraîneur 102-G-2



Ressort D190-117