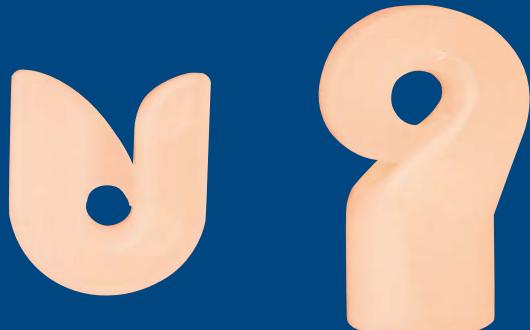


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Ascotex

CERAMIC YARN GUIDES



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THE NEED FOR CONSTANT DEVELOPMENT OF CERAMIC BODIES FOR YARN GUIDES

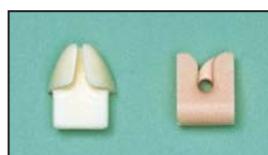
The name ASCOTEX has been synonymous with high quality yarn guides for more than 35 years and during this period we have constantly developed new ceramic bodies and different surface finishes to cope with the ever-increasing diversity of modern yarns and working conditions. The most recent addition to our wide range of ceramics specifically developed for textile applications is POLYCRYSTALLINE SAPPHIRE. Although somewhat harder and longer-lasting than A997 alumina, its prime advantage is the perfectly smooth, flawless surface which makes it a superb body for micro and super micro yarns and other fragile and sensitive yarns. The guides already available in this body are marked PCS against the photographs and it is anticipated that a further 20 or 30 will be available soon. Many of the existing tools are suitable for PCS manufacture so if you see an alumina guide in the catalogue which you would like in PCS, please let us know and we shall assess the possibility.

But it is not only the body which is important; SURFACE FINISH is becoming an increasingly significant factor in the choice of the correct guide and the well known convention of matt finish for flat yarn and polish finish for textured yarn no longer necessarily applies in all cases. The type of polish, the type of matt, the grain size and crystalline structure are all important, even the negative or positive surface charge has sometimes to be taken into consideration. The hardest material is not always the best in any given situation and no single body is suitable for all applications. Since our ceramics are developed solely for textile applications, we are in a position to offer a very wide range of alternative solutions.

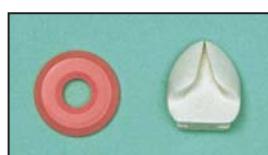
OUR MOST POPULAR MATERIALS



- PCS** Polycrystalline Sapphire (99.9999% alumina). Our hardest material but its greatest advantage is its flawless smooth surface. Ideal for micro and supermicro yarns, especially when diamond polished.
Colour: translucent.



- A997** An ultra high purity Al_2O_3 body, fired at very high temperature, specially developed for very high yarn speeds. Its very fine grain structure eliminates the need for diamond polish in many applications and helps to eliminate snow.
Colour: light pink or white.



- A964** High purity sintered alumina which, over the years, because of its economical production costs, has become the most popular yarn guide material. Special ceramic additives restrict crystal growth, resulting in an exceptionally fine-grained, smooth-surfaced guide with outstanding wear properties.
Colour: pink or white.



- A90** A general purpose alumina which is still highly wear-resistant but less expensive than the high purity bodies.
Colour: red.



- T27B** Titania was one of the first hard ceramics to be used for textile applications. Not quite as hard as alumina, it has however, an extremely smooth surface and is widely used for delicate yarns where alumina, particularly without diamond polishing, is too harsh.
Colour: cream.



- T27C** Essential for all applications where there is a danger of build up of static electricity and almost universally used on knitting machines.
Colour: dark blue/black.

TOLERANCES: $\pm 2\%$ none less than $\pm 0.2\text{mm}$.

The drawing dimensions are approximate for identification purposes only.

The guides in this catalogue illustrate our standard range and most are normally available from stock. There are another 3000 non-standard items and we can also manufacture guides to your own drawings.

DIE NOTWENDIGKEIT DER STETIGEN ENTWICKLUNG VON KERAMIKKÖRPERN FÜR FADENFÜHRER

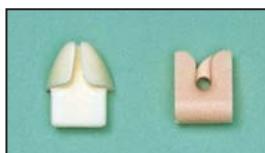
Der Name Ascotex ist ein Synonym für Fadenführer von höchster Qualität seit über 35 Jahren. Während dieser Zeit haben wir uns der Entwicklung neuer keramischer Körper und Oberflächenbeschaffenheiten gewidmet, um mit der zunehmenden Vielfalt an modernen Fasern und den jeweiligen Bedingungen unter denen diese verarbeitet werden, gerecht zu werden. Unsere neueste Errungenschaft im Bereich der Keramikmaterialien, die speziell für textile Anwendungen entwickelt wurden, ist POLYKRISTALLINER SAPHIR. Obwohl etwas härter und beständiger als A997 Aluminiumoxid, liegt dessen Hauptvorteil in seiner perfekten glatten, fehlerfreien Oberfläche, welche einen exzellenten Körper für Mikro- und Supermikrofasern und auch andere feine Fasern darstellt. Die bereits erhältlichen Fadenführer in diesem Körper sind mit „PCS“ neben den Photos gekennzeichnet. Wir rechnen derzeit mit zusätzlichen 20 oder 30 Fadenführern, die in kürzester Zeit erhältlich sein werden. Viele der bereits existierenden Werkzeuge sind für die PCS Erzeugung geeignet. Sollten Sie also einen Aluminiumoxidfadenführer in unserem Katalog sehen, den sie in PCS markieren, werden wir gerne diese Möglichkeit prüfen.

Aber nicht nur die Form des Fadenführers ist wichtig; auch die OBERFLÄCHENBESCHAFFENHEIT wird zu einem immer wichtigeren Auswahlkriterium für den richtigen Fadenführer, und der altbekannte Einsatz von matter Oberfläche für glatte Garne und geschliffene oder polierte Oberfläche für texturierte Garne ist nicht mehr in allen Fällen angezeigt. Die Art der Polierung, der Typ der matten Oberflächen, die Körnungsgröße sowie die kristalline Struktur sind wichtige Kriterien. Manchmal muß man sogar die negative oder positive Oberflächenspannung in Betracht ziehen. Da unsere Keramikmaterialien ausschließlich für textile Anwendungen entwickelt werden, sind wir in der Lage, eine sehr weitgefächerte Auswahl an alternativen Fadenführern anbieten zu können. Das härteste Material ist nicht unbedingt immer die beste Lösung für jede Anwendung und wir können Ihnen eine große Anzahl an Alternativen aus unserer Programm anbieten.

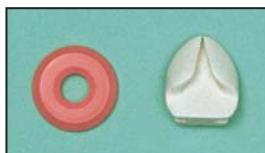
UNSERE BELIEBTTESTEN MATERIALIEN



PCS Polykristalliner Saphir (99.9999% Aluminiumoxid). Dies ist unser härtestes Material dessen größter Vorteil in seiner fehlerfreien, glatten Oberfläche liegt. Ideal für Mikro- und Supermikrogarne, besonders wenn die Oberflächenbeschaffenheit diamantpoliert ist. Farbe: durchsichtig.



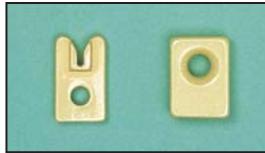
A997 Ein ultra hochreiner Aluminiumoxidkörper. Bei sehr hoher Temperatur gebrannt, speziell entwickelt für Hochgeschwindigkeitsgarne. Seine äußerst feine Körnung eliminiert in vielen Anwendungen die Notwendigkeit einer Diamantpolitur und hilft „Schnee“ auszuschalten. Farbe: hellrosa oder weiß.



A964 Gesintertes Aluminiumoxid von hoher Reinheit. Sehr beliebtes Fadenführermaterial durch günstige Herstellung. Spezielle Keramikzusätze schränken das Kristallwachstum ein. Das Ergebnis ist ein Fadenführer mit einer außergewöhnlich feinen Körnung und glatter Oberfläche mit hervorragender Widerstandsfähigkeit. Farbe: rosa oder weiß.



A90 Eine Standard Aluminium-Qualität für vielseitigen Einsatz, sehr dauerhaft und preisgünstiger als Teile in hoher Reinheit. Farbe: dunkelrot.



T27B Diese Titanoxid-Keramik war eine der ersten Hartkeramiken im Textilbereich. Nicht ganz so hart wie Aluminiumoxid, hat aber eine extrem glatte Oberfläche und wird für empfindliche Garne eingesetzt, für die Aluminiumoxid, besonders ohne Diamantpolierung, zu rau ist. Farbe: cremefarben.



T27C Leitendes Titanoxid. Wichtig für alle Anwendungsgebiete in denen die Gefahr der statischen Aufladung besteht. Am häufigsten in der Strickmaschinenindustrie verwendet. Farbe: blau/schwarz.

TOLERANZ ± 2% nicht weniger als 0.2mm.

Die Dimensionen der Zeichnungen sind nur ungefähre Annäherungen für die Identifizierung.

Die Fadenführer in diesem Katalog illustrieren unsere Standard Auswahl und sind normalerweise aus unserem Lager erhältlich. Zusätzlich sind noch 3000 andere Stücke erhältlich und wir können auch Fadenführer nach ihren Zeichnungen maßanfertigen.

LA NÉCESSITÉ D'UN DÉVELOPPEMENT CONSTANT DES MATÉRIAUX CÉRAMIQUES À L'USAGE DE GUIDE-FILS

Le nom ASCOTEX est depuis plus de 35 ans synonyme de guide-fils de haute qualité et durant cette période, nous avons sans cesse développé de nouveaux matériaux céramiques et des finis de surface différents pour répondre à la diversité toujours croissante des fils modernes et des conditions de production. L'addition la plus récente à notre large gamme de céramiques développées spécifiquement pour les applications textiles est le SAPPHIR POLYCRYSTALLIN. Bien que l'agentement plus dur et plus résistant dans le temps que l'alumine A997, son avantage primordial est sa surface parfaitement lisse et sans défaut, qui en fait un matériau superbe pour les fils composés de microfibres ainsi que pour tous les fils fragiles et délicats. Les guide-fils déjà livrables dans ce matériau sont identifiés par les lettres PCS à côté de l'illustration et il est prévu que 20 à 30 modèles supplémentaires soient livrables prochainement. Un grand nombre des outillages existants sont adaptés pour la fabrication du PCS - de ce fait, si vous voyez dans notre catalogue un guide-fil en alumine que vous souhaiteriez en PCS, veuillez nous le faire savoir et nous examinerons la possibilité.

Mais ce n'est pas seulement le matériau qui est important; la finition de surface devient un élément de plus en plus important dans le choix du guide-fil et la théorie bien connue "surface mat pour fil plat et surface brillante pour fil texturé" n'est plus forcément valable dans tous les cas. Le type de poli, le type de mat, la finesse du grain et la structure cristalline sont tous importants - la charge positive ou négative en surface doit même parfois être prise en considération. Vu que nos céramiques sont développées exclusivement pour les applications textiles, il nous est possible d'offrir une grande variété de solutions alternatives - le matériau le plus dur n'est pas toujours le meilleur pour chaque application et nous pouvons vous offrir un grand nombre d'options parmi notre gamme.

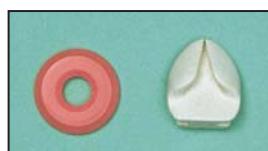
NOS MATERIAUX LES PLUS DEMANDÉS



- PCS** Saphir polycristallin (99.9999% d'alumine). Notre matériau le plus dur, mais son principal avantage est sa surface lisse et sans défaut. Idéal pour les fils en microfibres, spécialement quand il est poli au diamant.
Couleur: translucide.



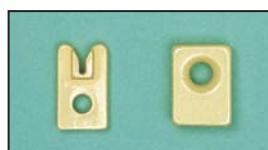
- A997** Un matériau en alumine d'extrême pureté. Traitée à très haute température, développé spécialement pour les très grandes vitesses de fil. Sa structure à grain très fin limite le besoin du poli diamant pour beaucoup d'applications et contribue à liminer la poudre.
Couleur: rose pâle ou blanc.



- A964** Une alumine de grande pureté qui, au fil des années, grâce à ses coûts de production économiques, est devenue le matériau le plus demandé pour les guides-fils. Des additifs spéciaux limitent la grosseur des cristaux, résultant d'un guide à grain fin et surface lisse, offrant des propriétés exceptionnelles de résistance à l'usure.
Couleur: rose ou blanc.



- A90** Une alumine d'usage courant, toujours très résistante à l'usure et moins coûteuse que les matériaux de grande pureté.
Couleur: rouge foncé.



- T27B** Le titane est l'une des premières céramiques industrielles utilisées pour les applications textiles. Moins dur que l'alumine, il a cependant une surface extrêmement douce et il est largement utilisé pour les fils délicats pour lesquels, l'alumine, particulièrement non-polie diamant, est trop rugueux.
Couleur: crème.



- T27C** Titane conducteur. Essentiel pour toutes les applications où il y a un danger d'accumulation d'électricité statique, il est utilisé presque universellement sur les machines à tricoter.
Couleur: bleu / noir.

TOLERANCES: $\pm 2\%$ sans limite inférieure à $\pm 0,2\text{mm}$.

Les dimensions des dessins sont approximatives et seulement indicatives.

Les guides de ce catalogue font partie de notre gamme standard et sont normalement livrables de stock. Des milliers d'autres modèles, ainsi que des pièces spéciales sont fabriquées sur demande.

LA NECESIDAD DEL CONTINUO DESARROLLO TECNOLOGICO EN GUIAHILOS DE CERAMICA

El nombre de ASCOTEX es sin duda de alta calidad en guiahilos por más de 35 años y durante este periodo hemos realizado un constante desarrollo de nuevos grupos de cerámica así como diferentes acabados de superficie para hacer frente al constante incremento en la modernidad de las diversas guiahilos y nuevas condiciones de trabajo. La más reciente adición a nuestra gama de cerámicas, especialmente creadas para aplicaciones textiles es ZAFIRO POLYCRYSTALINO. Aunque algo más dura y duradera que el alumina A997, su principal ventaja es su perfecto pulido y superficie sin defectos que lo hacen un material supremo para hilos micro y super micro y otros hilos frágiles y delicados. Los guiahilos ya disponibles en este grupo son denominadas PCS en las fotografías y está planeado que alrededor de 20 o 30 más lo estará en poco tiempo. Muchos de los moldes existentes son aptos para producirse en PCS y aunque en el catálogo se presenten las guias en alumina, si se desea en PCS por favor haganlo saber y estudiaremos las posibilidades para su producción.

Pero no solo el material es importante. El ACABADO DE LA SUPERFICIE ha aumentado significativamente su importancia como factor de elección para los guiahilos y el convencimiento de que el acabado mate para hilos lisos y el acabado brillante para hilos texturizados no se puede aplicar en todos los casos. El tipo de brillantez, el tipo mate, el tamaño de la fibra y las estructuras cristalinas, así como el nivel de carga positiva o negativa de la superficie deben ser tomadas también en consideración: los materiales más duros no siempre son lo mejor para toda aplicación. Pues nuestras cerámicas han sido desarrolladas puramente para aplicaciones textiles, estamos en posición de ofrecer una amplia gama de soluciones alternativas en guiahilos.

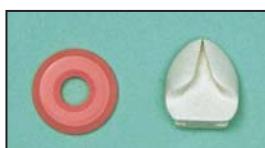
NUESTROS MATERIALES MÁS POPULARES



PCS Zafiro Polycrystalino (99.9999% Al₂O₃). Nuestro material más duro; sin embargo, su gran ventaja es su superficie sin defectos y muy liso. Ideal para hilos micro y super micro, especialmente cuando está pulido a diamante.
Color: translúcido.



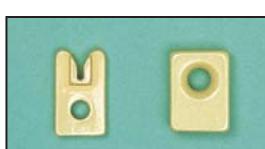
A997 Óxido de aluminio de ultra pureza creada para velocidades de hilos muy elevados. Una estructura de granos muy finos ayuda a eliminar la "nieve" y en muchos casos evita la necesidad de pulido a diamante.
Color: rosa pálido o blanco.



A964 Una almina de alta pureza, que, debido a su costo económico de fabricación, es después de muchos años, el material más popular para guiahilos. Aditivos especiales limitan el crecimiento de cristales, resultando en un grano fino, la superficie lisa y propiedades muy resistentes al desgaste.
Color: rosa o blanco.



A90 Una alumina para propósitos generales siendo aún también resistente al desgaste y menos costosa que las materias de alta pureza.
Color: vino.



T27B Óxido de titanio es uno de las primeras cerámicas duras utilizada para usos textiles. No es tan duro que las alminas pero con su superficie natural de una finura casi perfecta se utiliza para hilos delicados y en sitios donde la almina, sobre todo sin pulido diamante, sería demasiado áspero.
Color: crema.



T27C (Conductora). Indispensable en todas las aplicaciones donde existe riesgo de formación de electricidad estática. Uso extenso para el generador de punto.
Color: azul negro.

TOLERANCIAS NORMALES: ±2% sin ser menor de 0,2mm

Las dimensiones de los dibujos son aproximativas para identificación solamente.

En este catálogo se presentan solo los modelos estándar, de los que en su mayor parte se hallan normalmente en existencia. Hay otros 3000 modelos y también se puede hacer a la medida de sus diseños.

A NECESSIDADE DE CONSTANTES DESENVOLVIMENTOS DE MATERIAIS CERÂMICOS PARA GUIA-FIOS

O nome ASCOTEX tem sido sinônimo de alta qualidade em guia-fios por mais de 35 anos, e durante esse período temos desenvolvido constantemente novos materiais e diferentes acabamentos superficiais para poder acompanhar a constante evolução dos modernos processos tecnológicos. A mais recente conquista incorporada a nossa linha de materiais cerâmicos, especialmente desenvolvidos para aplicações tecnológicas, é a SAFIRA POLICRISTALINA. Apesar de ser mais duro e ter uma durabilidade maior do que a Alumina A997, sua principal vantagem é o acabamento superficial, impecável e perfeitamente liso, o que o torna um magnífico material para aplicações com microfibras e outros fios ou fibras extremamente frágeis e sensíveis. Os guias já disponíveis neste material são marcados com a sigla PCS nas fotos do catálogo e antecipamos que mais 20 ou 30 modelos estarão disponíveis em breve. Muitas das ferramentas já existentes são apropriadas à fabricação com PCS, por isso se existir algum interesse em desenvolver alguma peça no material PCS, informe-nos para que possamos avaliar a possibilidade.

Porém não somente o material é o único fator importante; o ACABAMENTO SUPERFICIAL está se tornando o fator mais significativo para a escolha do guia-fio mais adequado. A conhecida regra de acabamento acetinado para fios convencionais e acabamento polido para os fios texturizados, não mais se aplica em todos os casos. O tipo de polimento, o tipo de mate, a rugosidade, a granulação e a estrutura cristalina são também fatores importantes e até mesmo a carga superficial negativa ou positiva deve ser considerada em muitos casos. Uma vez que nossas cerâmicas são desenvolvidas especificamente para aplicações tecnológicas, estamos em condições de oferecer uma gama muito ampla de soluções e alternativas de guia-fios. A dureza nem sempre é o melhor parâmetro e nós podemos com certeza, oferecer um grande número de opções dentro da nossa linha de produtos.

NOSSOS MATERIAIS MAIS CONHECIDOS



PCS Safira Policristalina (99.9999% Alumina). Nosso material mais duro, cuja maior vantagem é o acabamento superficial extremamente liso e perfeito. Ideal para microfibras e fios sensíveis e frágeis, especialmente no acabamento polido diamante.
Cor: translúcido.



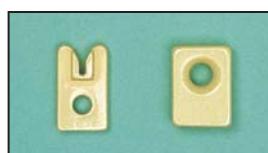
A997 Um material com alto teor de Alumina. Sinterizado em altas temperaturas, desenvolvido especialmente para trabalhar com fios em altas velocidades. Sua finíssima granulometria elimina a necessidade de acabamento polido diamante e auxilia na eliminação da neve.
Cor: rosa claro e branco.



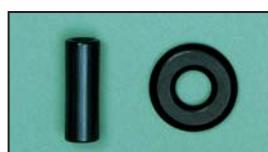
A964 Uma Alumina com alta pureza, vêm sendo muito utilizada ao longo dos anos devido ao seu econômico custo de produção, tornando-se o material mais popular na fabricação de guia-fios. Aditivos especiais restringem o crescimento dos grãos, resultando em uma granulometria fina, superfície lisa, conferindo assim uma excepcional resistência ao desgaste.
Cor: rosa ou branco.



A90 Alumina de uso geral, com alta resistência ao desgaste, porém de menor custo em relação à alumina de alta pureza.
Cor: vinho.



T27B Titânio foi o primeiro material cerâmico fino desenvolvido para aplicações tecnológicas. Não tão duro como a alumina, entretanto possui naturalmente uma superfície extremamente lisa, e em geral é utilizado para fios sensíveis e delicados, particularmente onde a alumina sem o acabamento polido diamante é muito agressiva.
Cor: creme.



T27C Titânio Condutora. Essencial para todas as aplicações onde existem problemas com eletricidade estática. Quase que mundialmente utilizado em máquinas para malharia.
Cor: preto azulado.

TOLERÂNCIAS ±2% e não menos do que 0,2mm.

As dimensões nos desenhos são aproximadas e servem para auxiliar na identificação das peças.

Os guias contidos neste catálogo são os de nossa linha standard e normalmente disponíveis em estoque. Milhares de outros modelos também estão disponíveis sob consulta e novos modelos ou peças especiais podem ser fabricados sob encomenda.

LA NECESSITA' DI UNO SVILUPPO COSTANTE DEL MATERIALE CERAMICO PER GUIDAFILI TESSILI

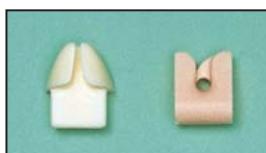
Il nome ASCOTEX sinonimo di alta qualità nel campo dei guidafili da oltre 35 anni. Durante questo periodo abbiamo costantemente ricercato e sviluppato nuovi materiali ceramici e varie rifiniture di superficie per far fronte alle sempre nuove tipologie dei filati moderni e delle condizioni di lavorazione. L'ultimo ritrovato in aggiunta alla nostra vasta gamma di ceramiche sviluppato per applicazioni tessili e' lo ZAFFIRO POLYCRYSTALLINO. Questo materiale pi duro e resistente dell'allumina A997 ha come vantaggio primario una superficie perfettamente liscia e pulita ideale per filati micro e super-micro ed altre fibre sensibili e delicate. I guidafili già disponibili in questo materiale sono segnati 'PCS' sulle fotografie e vi anticipiamo che altri 20/30 particolari saranno presto disponibili. La maggior parte dei nostri stampi ed attrezzature sono adatti per la produzione di 'PCS'. Se desiderate qualche altro guidafilo a catalogo realizzato in 'PCS' vogliate comunicarcelo e valuteremo la possibilità di produzione.

Importante non soltanto il materiale ceramico ma la rifinitura della superficie che diventa sempre pi significativa nella scelta del guidafilo corretto e la ben nota convinzione che una superficie opaca per filati piatti e lucida per filati texturizzati non pi applicabile per tutte le circondanze. Il tipo e grado di lucidatura e satinatura, la dimensione dei granuli e la struttura cristallina sono tutti fattori importanti, anche la carica negativa e positiva della superficie va in qualche occasione tenuta in considerazione. Poiché le nostre ceramiche sono sviluppate esclusivamente per applicazioni tessili siamo in grado di offrire un ampia gamma di guidafili alternativi. Il materiale pi duro non sempre il migliore. Per ogni applicazione possiamo offrire parecchie soluzioni adatte alle vostre esigenze di produzione.

I NOSTRI MATERIALI PIU' IMPIEGATI



PCS Zaffiro Polycrystallino (99.9999% allumina). E' il nostro materiale pi duro ma la caratteristica pi importante la superficie compatta e liscia. Materiale ideale per Fibre Micro e SuperMicro, in particolare con rifinitura lucidata al diamante.
Colore: Translucido.



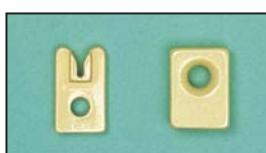
A997 Materiale in ceramica ad altissimo contenuto di allumina. Cottura ad elevata temperatura sviluppato per produzione di filo ad alta velocità. La struttura dei cristalli molto fine elimina in molte applicazioni il bisogno della lucidatura al diamante e contribuisce ad eliminare l'effetto neve.
Colori: Rosa Pallido - Bianco.



A964 Allumina sinterizzata ad alta purezza che diventata nel tempo, grazie al contenuto costo di produzione il materiale di ceramica pi impiegato per guidafili. Speciali additivi ceramici riducono la crescita dei cristalli formando una superficie fine e liscia con alta proprietà di resistenza all'usura.
Colori: Rosa - Bianco.



A90 Materiale ceramico per applicazioni diverse, sempre molto resistente all'usura e pi economico delle ceramiche ad alto contenuto d'allumina.
Colore: Rubino.



T27B Il Titanio stato uno dei primi materiali ceramici sviluppati per applicazioni industriali. La durezza inferiore all'Allumina ma con una superficie naturale estremamente liscia ed largamente usato per filati delicati dove l'Allumina specialmente se non lucidata al diamante, troppo ruvida.
Colore: Avorio.

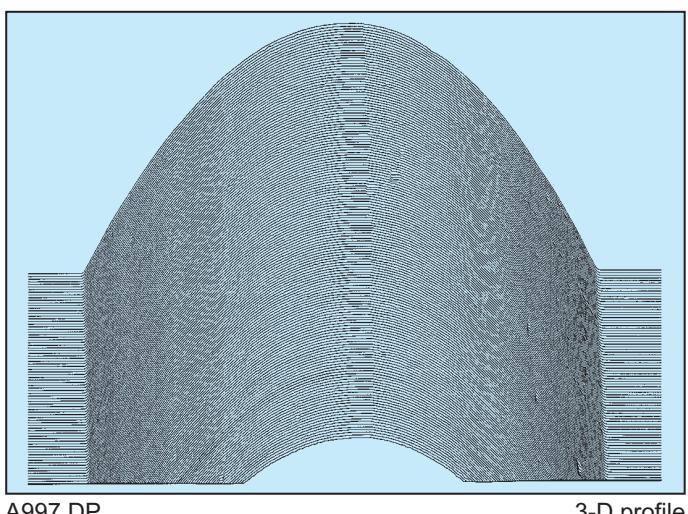
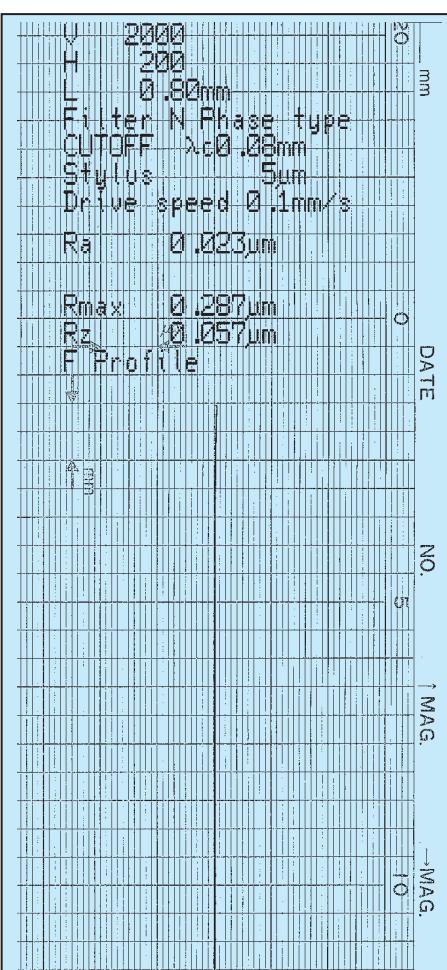
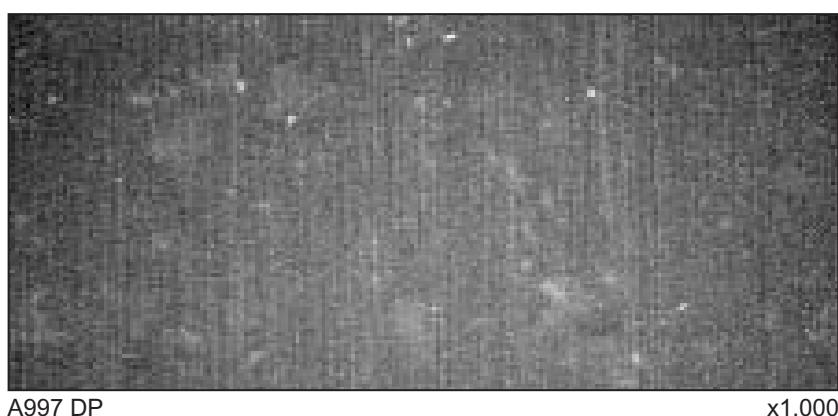
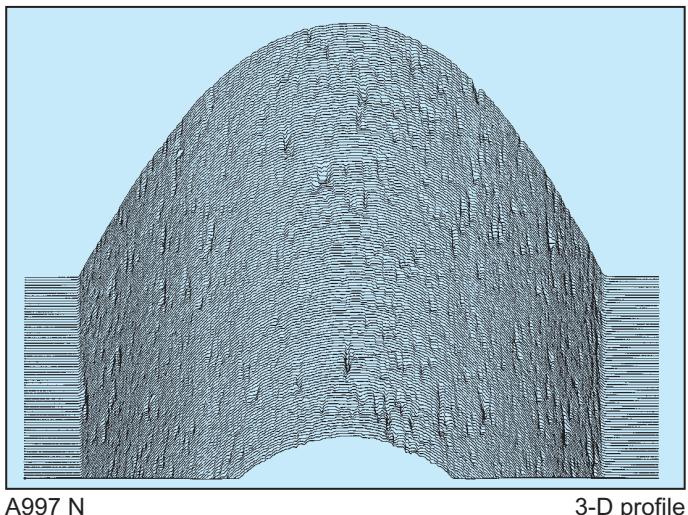
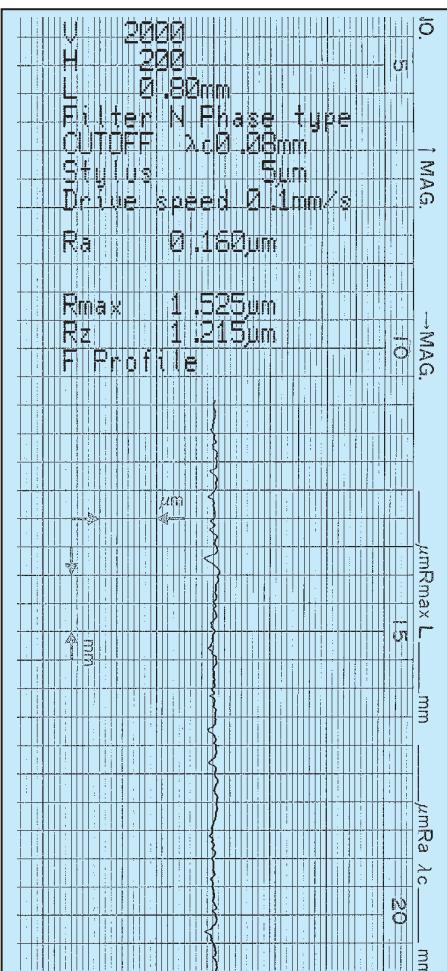
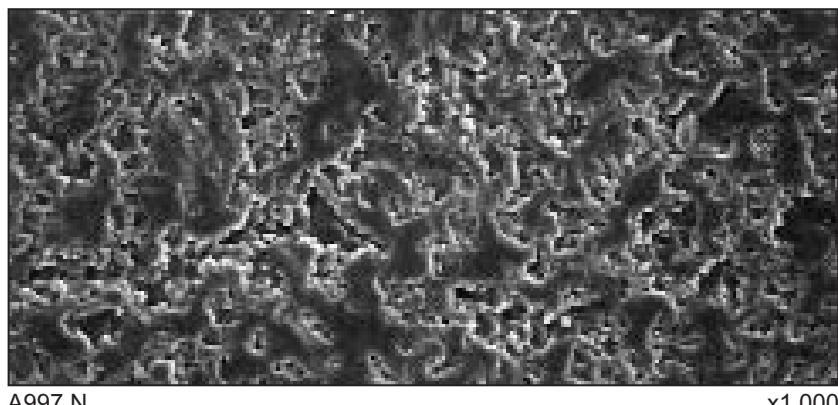


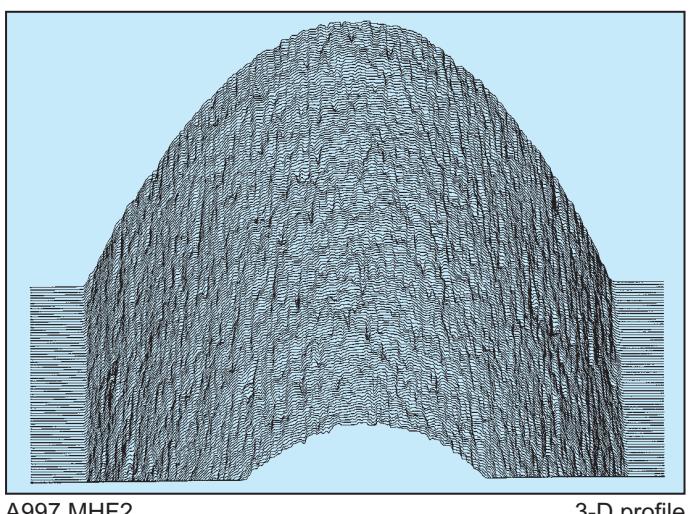
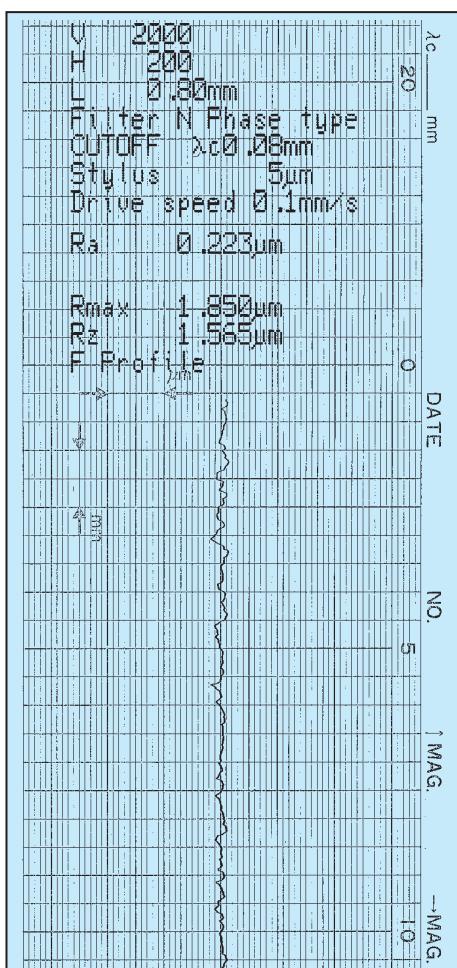
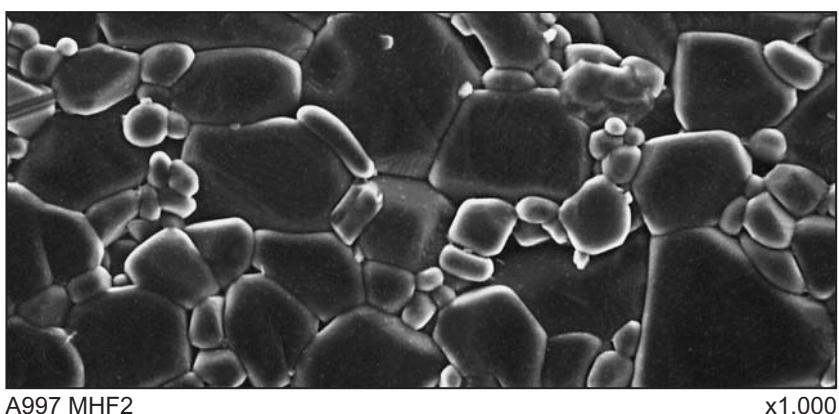
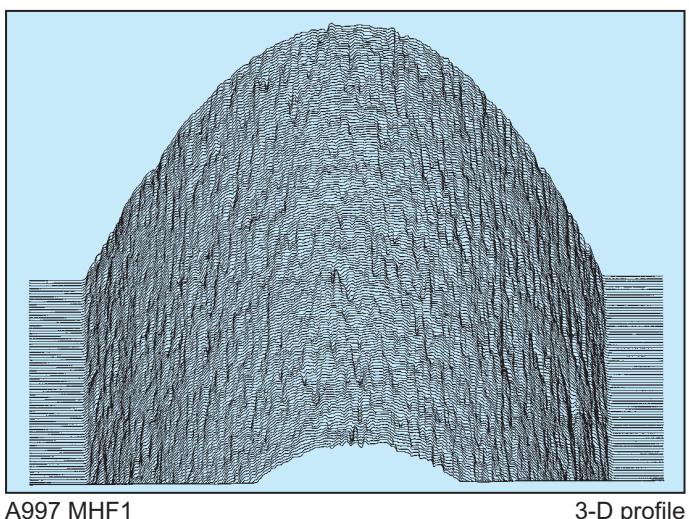
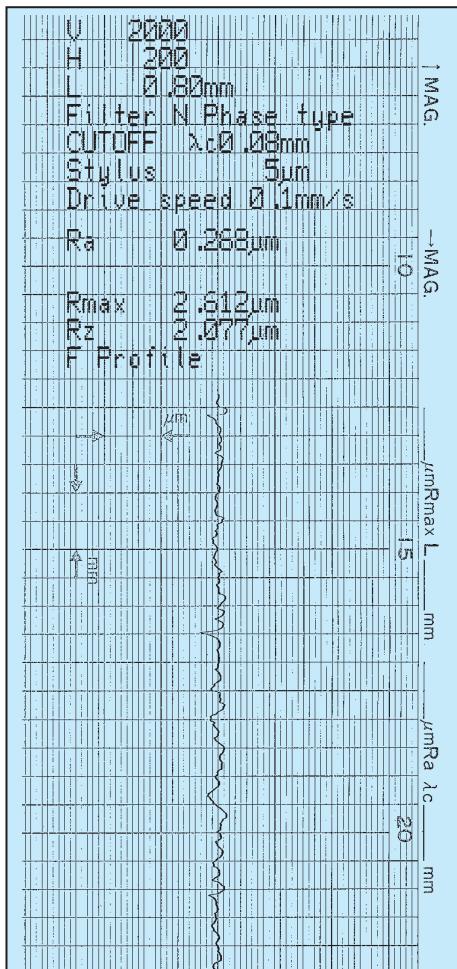
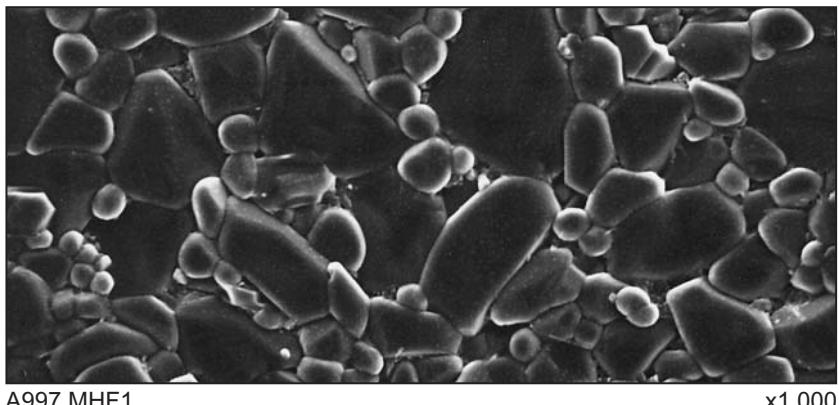
T27C Titanio Anntistatico. Indispensabile per tutte quelle applicazioni dove esiste la possibilità di accumulo di elettricità statica ed impiegato quasi universalmente per macchine di maglieria.
Colore: Blue Scuro.

TOLLERANZE ±2% non meno di 0,2mm.

Le dimensioni dei disegni sono approssimative solamente per identificazione.

I guidafili contenuti in questo catalogo fanno parte della nostra produzione standard e sono normalmente disponibili a magazzino. Migliaia di altri guidafili ed esecuzioni speciali a disegno si possono produrre su ordinazione.





click for previous page



click for next page

SURFACE FINISHES

N	Normal (Velvet/Satin)	
DP	Diamond Polish	Ra & Rt values are influenced by each material.
MM	Matt (produced by mechanical means)	
MHF1	Matt (produced by overfiring) A997 only	
MHF2	Diamond polished in the using area then overfired. A997 only	Details on request.
GN	Centreless grinding on rods and tubes	
GDP	Centreless grinding on rods and tubes followed by DP	

OBERFLÄCHENBESCHAFFENHEIT

N	Normal oder samtartig	Ra & Rt Werte sind bei jedem Material beeinflußt.
DP	Diamantpoliert	
MM	Matte Oberfläche (mechanisch erzeugt)	
MHF1	Matte Oberfläche (erzeugt durch 'overfiring'). Nur bei A997	Details bei Nachfrage.
MHF2	Diamantpoliert im Fadenlauf und später 'overfired'. Nur bei A997	
GN	Geschliffen an Stäben und Rohren	
GDP	Geschliffen an Stäben und Rohren gefolgt von DP	

FINIS DE SURFACE

N	Normal (velours/satin)	
DP	Poli diamant	
MM	Mat (obtenue par proc d s m caniques)	Les valeurs Ra & Rt d pendent de la mali re utilis e. D tâils sur demande.
MHF1	Mat (produit par retraitement à haute temp rature) mat riau A997 exclusivement	
MHF2	Poli diamante sur les surfaces de contacts - ensuite retrait à haute temp rature – mat riau A997 exclusivement	
GN	Rectification sur bâtonnets et tubes	
GDP	Rectification sur bâtonnets et tubes suivi de poli diamant	

ACABADOS DE SUPERFICIE

N	Normal (Terciopelo/Saten)	Cada material influye los valores Ra y Rt.
DP	Pulido a diamante	
MM	Mate (Producido por medios mecanicos)	Detalles sobre peticiones.
MHF1	Mate (Mediante sobrecalentamiento). Solo A997	
MHF2	Pulido a diamante en el area de uso: seguido de sobrecalentamiento . Solo A997	
GN	Rectificado en barritas y tubos	
GDP	Rectificado en barritas y tubos seguido de DP	

ACABAMENTOS SUPERFICIAIS

N	Normal (acetinado)	
DP	Polido diamante	
MM	Mate (produzido por meios mecanicos)	Valores de Ra & Rt (rugosidade dependem de cada material, e podem ser especificados no pedido).
MHF1	Mate (produzido por requeima) Somente A997	
MHF2	Polido diamante na área de uso seguido de requeima Somente A997	
GN	Rectificado. Normalmente para bast es e tubos	
GDP	Retificado e depois polido diamante. Normalmente para bast es e tubos	

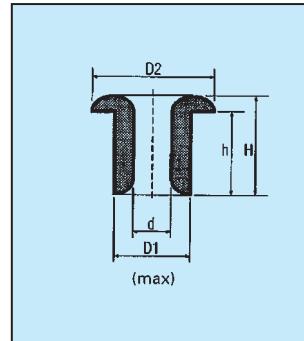
RIFINITURE DI SUPERFICIE

N	Standard (satinata)	
DP	Lucidata diamante	Ra & Rt - Questi. valori variano a seconda del tipo di materiale ceramico.
MM	Opaca (a macchina)	
MHF1	Opaca (a mezzo ricottura) - solo A997	Dettagli su richiesta.
MHF2	Lucidata diamante nella parte dello scorrimento del filo e quindi ricotta – solo A997	
GN	Rettificata per barrette e tubetti	
GDP	Rettificata per barrete e tubetti e quindi lucidata diamante	

STANDARD EYELETS

Flanged Eyelets

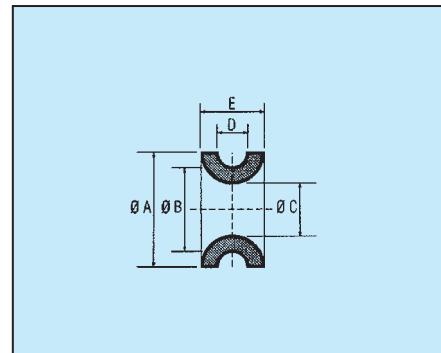
(On a minimum quantity of 5000 dimension h can be changed on most eyelets without additional tool cost)



Ref.No	D1 (max) mm	d mm	H mm	D2 mm	h mm
FT398	2.10	1.00	7.10	2.50	6.00
E002	2.10	1.00	3.00	3.10	2.00
E936	2.10	1.00	5.00	3.10	4.00
E885	2.15	1.00	2.10	3.20	1.20
E889S	2.60	1.40	3.00	3.80	2.00
E889	2.60	1.40	4.00	3.80	3.00
E136B	2.60	1.40	5.00	3.80	4.00
FT555	2.60	1.40	6.80	3.80	5.50
FT555L	2.60	1.40	8.30	3.80	7.00
E886	2.90	1.10	4.20	4.90	3.00
E952	2.90	1.50	6.50	4.80	5.00
E913	3.00	1.40	4.00	4.90	3.00
E972	3.00	1.50	7.50	4.80	6.00
E915	3.10	1.60	3.10	4.20	2.00
E001	3.10	1.70	2.00	4.20	1.00
E862	3.10	1.60	4.20	4.30	3.00
E971	3.30	1.60	3.20	5.50	2.40
E940	3.30	1.60	3.30	5.60	2.50
E951	3.30	1.70	4.75	5.70	3.50
E881	3.80	2.00	6.60	4.80	5.00
E176	3.85	2.00	5.25	5.50	3.20
E266	3.90	1.40	4.55	5.50	3.00
E868	3.90	1.90	4.00	7.00	2.50
E035	3.90	2.20	5.25	5.50	4.25
E948	3.95	2.00	4.20	5.50	3.00
E328	3.95	2.10	5.35	4.95	4.25
E839	4.00	1.90	4.30	5.55	3.00
E897	4.00	2.00	4.60	5.80	2.50
E923	4.10	2.70	5.00	5.00	4.00
E269S	4.30	2.50	5.85	5.80	4.70
E269	4.30	2.00	8.95	5.80	7.50
E843	4.30	2.50	4.35	5.80	3.00
E924	4.30	2.00	7.40	5.90	5.90
E953	4.60	1.90	3.80	6.60	2.80
E863	4.90	3.30	4.50	6.50	3.00
E865	4.90	3.30	5.60	6.50	4.00
E067	5.10	1.90	6.95	6.55	5.40
E864	5.10	1.90	3.50	6.60	2.50
E874	5.10	2.00	4.60	6.70	3.00
E979	5.20	3.30	7.00	6.80	5.00
E918	5.20	3.30	4.00	6.80	2.80
E918L	5.20	3.30	5.40	7.80	4.75
E906	5.30	2.30	4.70	7.00	3.20
E335	5.35	3.20	5.10	7.15	4.10
E911	5.40	3.30	5.20	7.00	4.00
E336	5.40	3.20	6.50	8.00	5.00
E892	5.40	3.30	7.40	7.00	6.00
E064	5.60	2.36	4.75	7.14	3.18
E305	5.60	4.00	4.70	7.00	3.20
E307	5.70	3.20	6.35	7.90	5.10
E849	5.90	2.90	5.90	7.70	4.00
E850	5.90	2.80	7.60	7.70	5.80
E942S	5.95	3.40	3.00	7.75	2.00
E166	6.00	2.85	10.00	8.00	7.75
E825	6.00	3.00	4.70	8.15	3.00

Ref.No	D1 (max) mm	d mm	H mm	D2 mm	h mm
E919	6.00	3.40	5.00	8.00	3.00
E942	6.00	3.40	6.00	7.80	4.00
E120	6.00	3.20	8.00	7.90	6.20
E980	6.00	4.00	5.00	9.00	3.00
E961	6.00	3.50	5.00	8.00	3.00
E941L	6.00	3.40	8.00	8.00	6.50
E914	6.10	3.30	3.50	7.50	2.00
E039	6.10	3.50	4.50	7.50	3.50
E004B	6.10	3.40	5.70	8.00	3.75
E941	6.10	3.40	6.50	7.80	5.00
E171	6.20	4.00	8.00	8.50	6.50
E963	6.20	4.00	10.00	10.25	7.80
E004D	6.25	2.80	5.80	7.90	4.00
E856	6.30	3.30	2.80	8.00	1.80
E857	6.40	3.50	3.50	7.90	2.50
E888	6.40	3.50	4.50	8.00	3.50
E870	6.40	3.90	8.00	8.70	6.40
E964	6.40	3.00	4.70	10.70	3.00
E329L	6.45	4.00	8.60	8.70	6.50
E177	6.45	3.00	10.36	10.60	8.40
E329S	6.50	4.00	4.60	8.70	3.00
E329	6.50	4.00	6.50	8.70	5.00
E848	6.70	3.80	7.50	8.80	6.00
E869	6.80	3.80	7.40	8.80	6.00
E815	7.00	4.50	8.00	9.00	6.80
E066	7.00	4.00	9.80	10.00	8.00
E965	7.00	4.00	11.80	10.00	10.00
E854	7.10	4.50	7.00	9.20	5.30
E937	7.10	2.70	4.50	9.20	2.80
E835	7.20	4.60	7.70	9.90	6.00
E958	7.15	3.80	7.10	9.20	5.30
E927	7.35	3.80	9.00	9.70	7.00
E982	7.35	4.80	3.00	10.00	1.50
E983	7.35	4.80	5.50	10.00	4.00
E921	7.40	3.50	11.00	9.00	9.00
E308	7.40	3.90	9.00	9.50	7.00
E308S	7.40	3.90	7.40	9.50	5.50
E070	7.50	3.25	7.14	9.90	5.10
E939	7.50	3.90	8.00	9.50	6.00
E954	7.50	5.50	9.00	9.60	6.80
E330	7.50	3.80	6.60	10.00	4.80
E330L	7.50	4.40	7.40	10.00	5.30
E038	7.60	4.50	7.00	9.50	5.00
E381	7.60	4.50	11.00	9.50	9.00
E950	7.60	5.50	15.85	9.50	13.30
E956	7.60	5.50	13.50	9.50	11.50
E823	7.70	4.90	3.00	8.45	2.00
E823L	7.70	4.90	3.70	10.70	2.00
E928	7.70	4.70	8.70	10.60	7.00
E341	7.70	4.75	5.55	10.80	3.65
E866S	8.10	4.10	6.40	10.00	4.40
E866	8.10	4.10	8.30	10.00	6.40
E946	8.10	6.00	5.00	11.00	3.00
E967	8.10	3.00	16.50	9.40	15.00
E946S	8.20	6.00	3.60	11.00	1.50

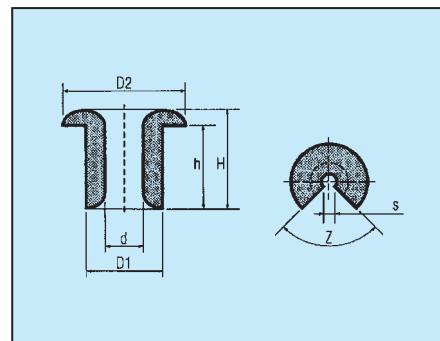
Double Flanged Eyelets



Ref.No	A mm	B mm	C mm	D mm	E mm
DF46	4.30	3.40	2.60	1.00	2.60
DF29	5.10	3.50	1.90	2.50	4.90
DF1	5.50	4.30	2.50	1.00	3.20
DF32	5.50	4.50	3.30	1.10	2.50
DF2	7.00	5.00	3.00	1.00	3.50
DF35	7.50	6.00	3.60	3.40	6.40
DF4	8.00	6.20	3.00	1.20	4.00
DF20	8.00	6.20	3.30	1.60	4.10
DF14	8.00	6.10	3.10	1.60	4.80
DF16	8.00	6.50	3.10	0.90	4.00
DF15	8.10	5.60	3.40	1.60	6.50
DF5	8.20	6.00	4.00	1.40	3.40
DF6	8.20	6.10	4.00	2.70	5.60
DF17	8.20	7.00	4.30	4.30	7.00
DF36	8.50	6.00	4.00	2.00	5.40

Ref.No	A mm	B mm	C mm	D mm	E mm
DF7	8.50	7.40	3.10	2.70	5.80
DF33	8.60	7.50	3.10	3.20	6.50
DF8	9.10	6.80	4.80	1.20	4.00
DF22	9.10	6.10	3.30	2.60	6.50
DF13	10.30	7.00	4.80	2.50	5.30
DF9	10.40	9.10	5.00	0.90	4.00
DF18	11.10	9.30	5.00	0.80	4.50
DF12	11.90	9.00	6.00	2.00	6.20
DF21	13.00	10.00	6.50	6.50	12.00
DF28	13.25	10.60	7.25	2.50	6.00
DF25	15.00	11.50	7.90	1.50	5.50
DF47	15.00	11.50	7.80	2.50	7.00
DF26	18.50	15.00	10.00	3.00	6.00
DF37	20.00	11.50	6.00	3.60	9.00
DF11	24.50	20.50	14.60	3.50	7.20
DF38	28.50	20.80	14.30	6.30	13.50
DF27	33.20	31.00	26.10	2.00	5.30

Split Eyelets

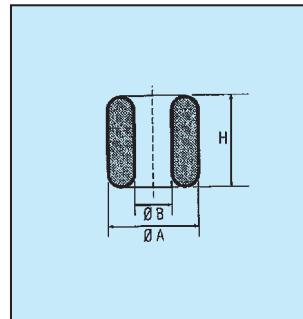


Ref.No	D1 (max) mm	d mm	H mm	D2 mm	h mm	s mm	z mm
E628	3.60	2.00	4.20	5.30	3.00	0.80	2.40
E627B	3.90	1.60	4.20	5.20	3.00	0.80	2.00
E651	6.00	3.00	2.00	10.00	1.00	1.20	5.00
E624	6.10	3.00	4.25	8.00	3.00	1.50	1.50
E653	6.60	3.00	7.60	7.80	6.40	2.60	2.60
E639	6.80	3.80	3.00	9.00	1.40	1.70	3.00
E637	6.90	3.80	6.50	9.00	5.00	1.70	3.00
E638	7.10	1.50	5.00	9.00	3.20	1.00	5.40
E617	7.40	3.80	8.00	9.60	6.50	1.00	3.00
E650	7.40	3.20	4.50	9.90	2.60	1.50	4.00
E626	7.50	5.00	5.00	10.00	3.00	2.00	2.50
E629	7.70	4.70	4.20	9.00	3.00	4.25	4.25
E642	7.80	3.10	9.80	10.20	7.20	0.90	2.50
E619B	8.10	3.20	5.50	10.50	3.50	1.00	4.50

Ref.No	D1 (max) mm	d mm	H mm	D2 mm	h mm	s mm	z mm
E619CG*	8.10	3.20	5.50	10.30	3.50	1.00	4.50
E623B	9.10	4.90	4.70	11.00	3.00	2.00	2.00
E623/90	9.10	5.00	4.50	11.00	3.00	2.00	6.50
E622	9.70	4.75	9.80	12.70	7.10	3.30	3.30
E656	9.80	5.40	5.80	14.30	3.50	1.40	5.00
E625B	10.10	6.00	4.50	12.00	3.00	2.30	2.30
E634	10.10	4.10	8.10	12.00	7.00	2.00	5.00
E655	10.10	4.10	5.50	12.00	3.60	2.00	6.00
E601	12.40	7.60	7.00	15.90	4.00	2.50	8.50
E620	13.30	4.70	12.00	17.20	9.50	1.50	7.00
E659	13.50	4.20	12.00	15.50	8.80	2.40	2.40
E603	14.40	11.00	6.00	17.40	3.00	9.00	9.00
E660	15.50	9.80	13.40	19.50	9.80	2.60	2.60
E602	19.00	9.00	27.80	28.00	21.00	5.00	5.00

*with clip groove

Tube Eyelets



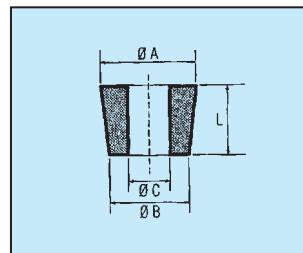
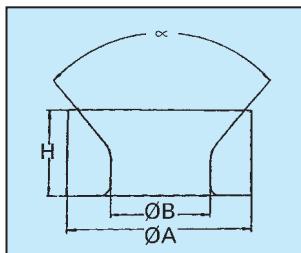
Ref.No	A mm	B mm	H mm
TE1	4.45	2.00	4.60
TE2	5.00	2.50	6.00
TE48	5.00	3.00	5.00
TE3	6.00	3.50	6.00
TE49	6.00	3.00	2.60
TE4	6.00	3.00	8.00
TE52	6.80	4.00	2.00
TE13	7.00	3.00	5.00
TE5	7.50	4.00	4.00
TE39	7.50	4.00	12.00
TE6	8.00	3.50	10.00
TE25	8.00	4.20	2.00
TE14	8.50	6.00	4.50
TE16	8.50	5.50	10.00

Ref.No	A mm	B mm	H mm
TE7	9.60	7.00	7.80
TE21	9.00	4.00	18.00
TE8	10.00	5.50	6.00
TE10	10.00	7.00	8.00
TE40	10.80	6.00	14.00
TE43	11.60	6.80	12.00
TE37	12.00	7.00	3.00
TE11	12.00	7.00	8.00
TE41	12.20	9.00	13.00
TE44	12.20	6.70	15.00
TE15	13.00	9.50	4.00
TE23	15.20	9.70	10.40
TE38	18.00	9.00	20.00
TE17	23.00	14.50	17.50

Ball/Spindle Eyelets



Conical Eyelets

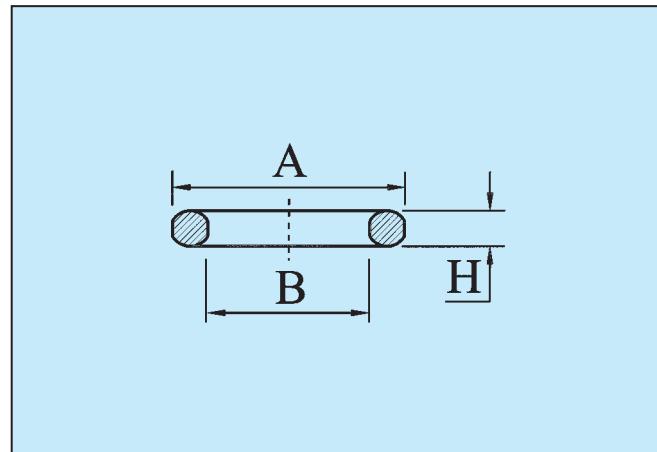


Ref.No	A mm	B mm	H mm	a
TE18	10.60	3.00	5.00	120°
TE12	11.00	4.00	4.50	120°
TE24	12.90	4.50	5.80	100°
TE26	13.00	3.00	7.00	80°
TE30	13.00	3.50	7.00	80°
TE31	13.00	4.50	6.00	76°
TE19	13.00	5.50	6.00	80°
TE32	13.00	7.10	6.00	60°
TE27*	13.90	3.00	11.00	90° & 90°
TE33	14.00	4.50	8.00	90°
TE34	17.00	4.50	8.00	84°
TE36*	20.00	3.00	17.50	90° & R8
TE35	28.00	4.80	13.00	80°

Ref.No	A mm	B mm	C mm	L mm
CE1	6.50	6.10	3.90	4.80
CE2	6.70	6.30	3.10	4.75
CE3	6.90	6.50	3.20	5.20
CE13	8.50	8.00	5.50	5.00
CE4	10.00	9.40	6.00	12.00
CE11	10.60	8.75	3.10	17.50
CE9	12.00	11.40	7.00	12.00
CE8	12.50	11.80	6.50	15.00
CE5	14.30	13.50	6.30	6.75
CE10	18.00	17.00	10.20	15.75
CE6	20.00	19.00	8.50	6.35
CE12	32.00	28.00	16.50	35.00

*tapered both ends

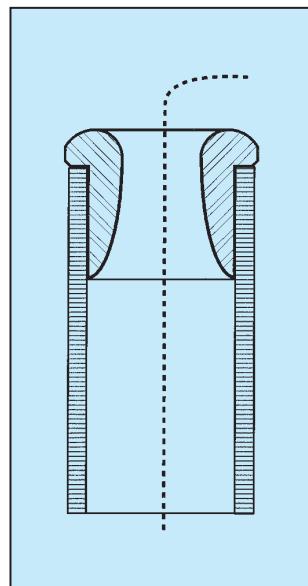
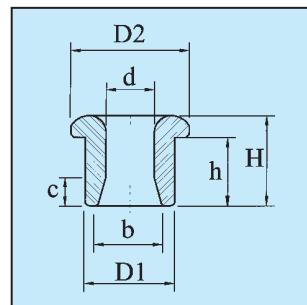
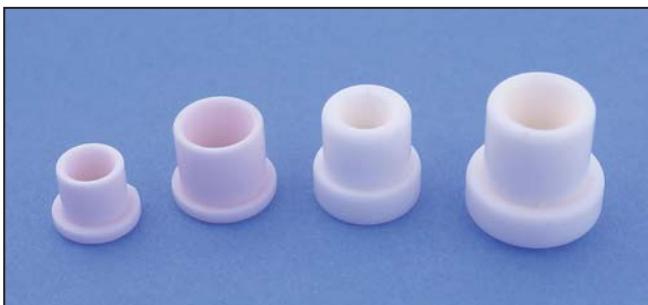
Rings



Ref.No	A mm	B mm	H mm
R52	6.80	4.00	2.00
R37	7.20	4.50	2.00
R26	8.00	4.20	2.00
R28	10.00	7.00	3.00

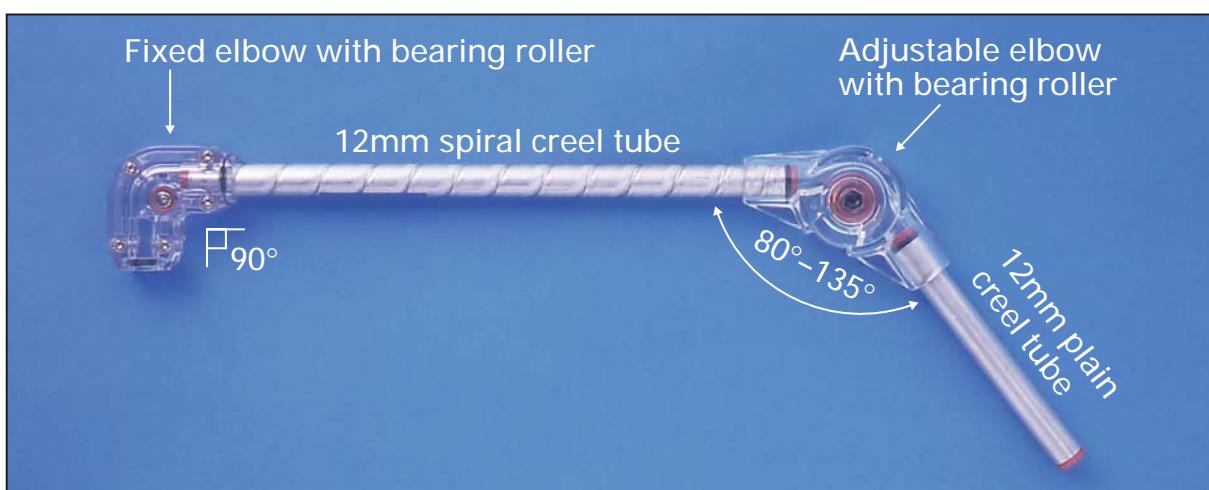
Ref.No	A mm	B mm	H mm
R19	14.00	11.00	1.30
R18	15.20	11.70	1.40
R34	18.80	13.20	3.30
R35	20.00	14.00	3.00

Flared Eyelets – for creel tubes and spindles



Ref.No	D1 (max) mm	d mm	b mm	H mm	D2 mm	h mm	c mm
FE1	6.60	4.00	5.20	6.00	8.00	4.00	4.00
FE2	7.10	3.80	5.50	7.00	9.20	5.30	2.20
FE3	7.50	4.00	5.00	8.00	10.00	6.00	6.00
FE4	9.10	6.00	7.40	7.00	11.00	5.00	3.00
FE5	9.80	4.00	6.10	12.50	12.00	7.50	4.00
FE6	10.00	6.00	7.70	10.00	12.00	8.00	6.00
FE7	11.70	5.00	8.50	13.00	15.00	9.00	6.60

Creel Tube System



Rods and Tubes can be made to any reasonable dimensions, subject to minimum batch sizes. For smaller quantities, the following standard diameters can be diamond cut to length. Many other 'non standard' diameters are usually held in stock as well.



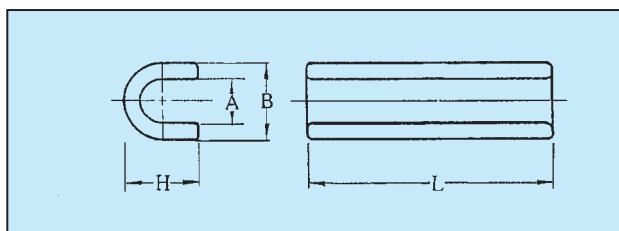
Rods

Diameter (mm)
1.5
2.0
2.5
3.0
4.0
5.0
6.0
8.0

Tubes

Outside Diameter (mm)	Inside Diameter (mm) (to clear)
2.0	1.0
2.5	1.5
3.0	2.0
4.0	2.0
5.0	3.0
6.0	3.0
8.0	5.0
10.0	5.0 (6.0) (6.8)
12.0	8.0
15.0	10.0

Edge Protectors (Half Tubes) can be diamond slit to length from the following standard sizes.



Ref.No	A mm	B mm	H mm	L mm max	R1 mm	R2 mm
EP1	1.3	4.0	4.0	36.0	1.5	4.0
EP2	2.0	4.0	4.0	50.0	2.0	4.0
EP3	3.2	5.2	4.1	45.0	1.6	5.2
EP4	4.0	7.0	6.5	62.0	2.0	3.5
EP5	5.0	8.0	8.0	62.0	2.5	4.0
EP6	6.0	9.0	9.5	62.0	3.0	4.5



TWG7



TWG14



TWG15



TWG25



TWG21



TWG1



TWG44



TWG65



TWG30



TWG31



TWG16



TWG17



TWG40



TWG80

left and right hands
available

TWG84

left and right hands
available

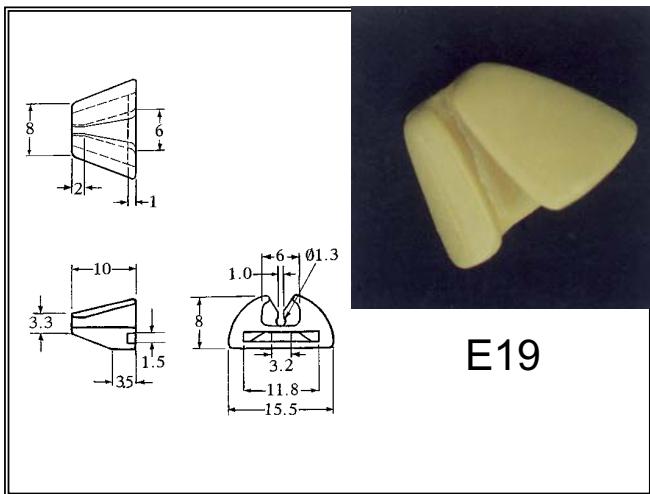
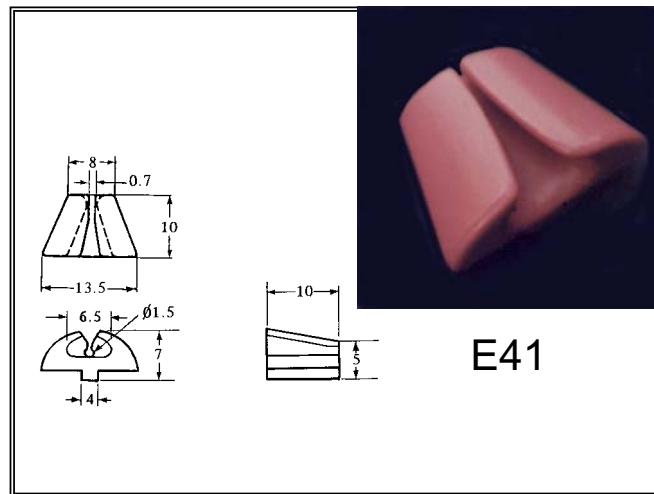
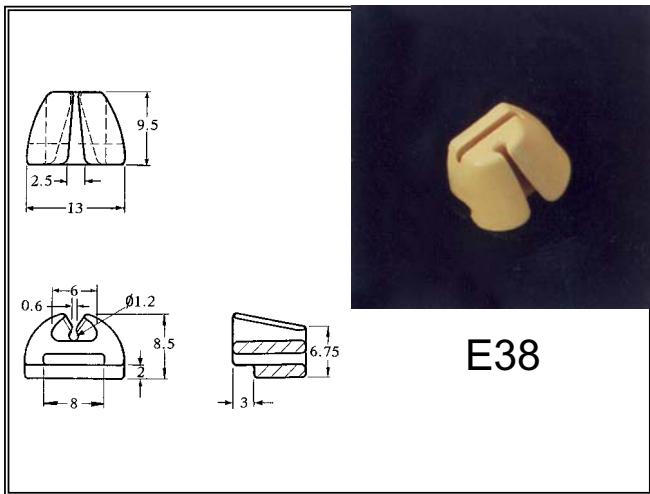
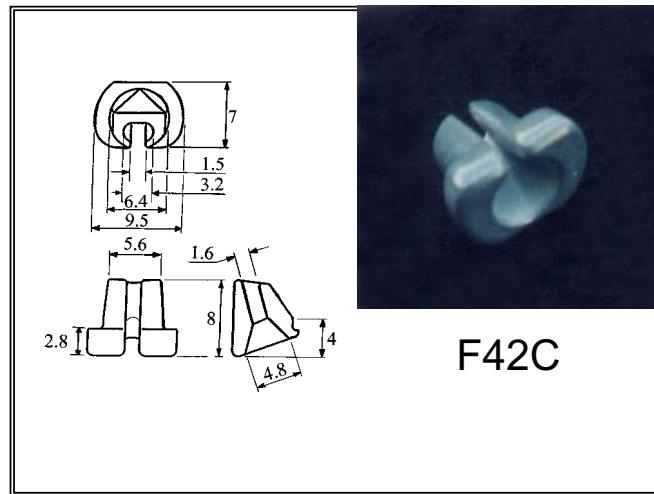
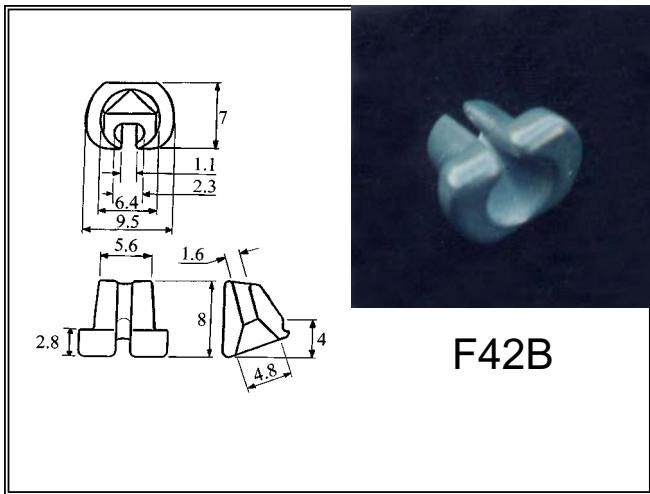
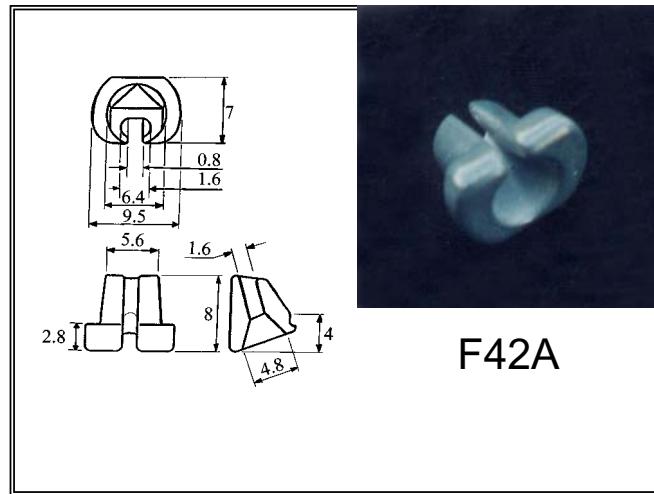
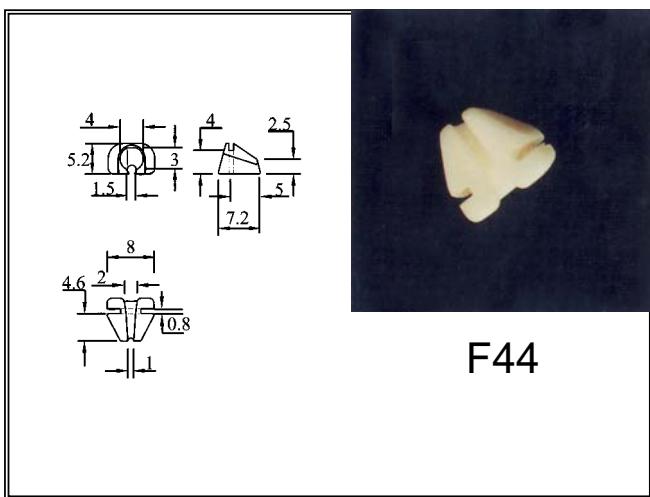
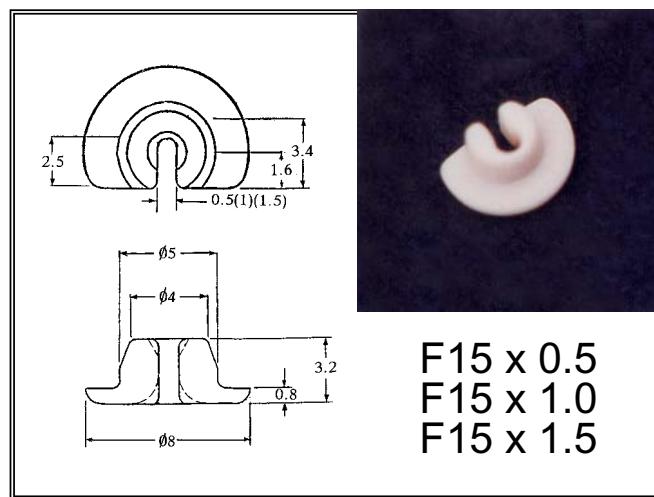
TWG67

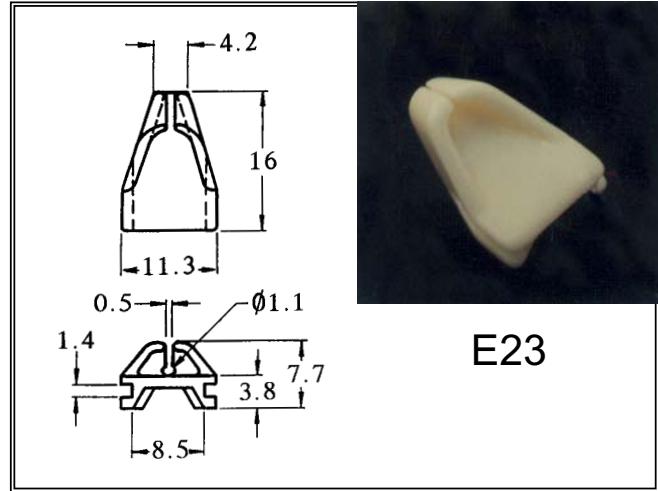
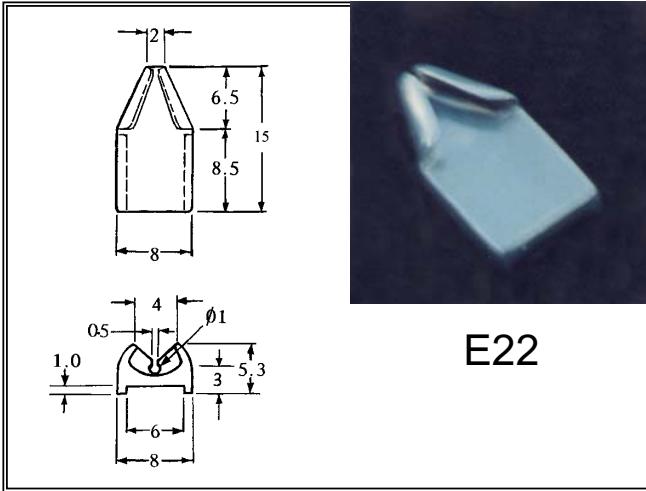
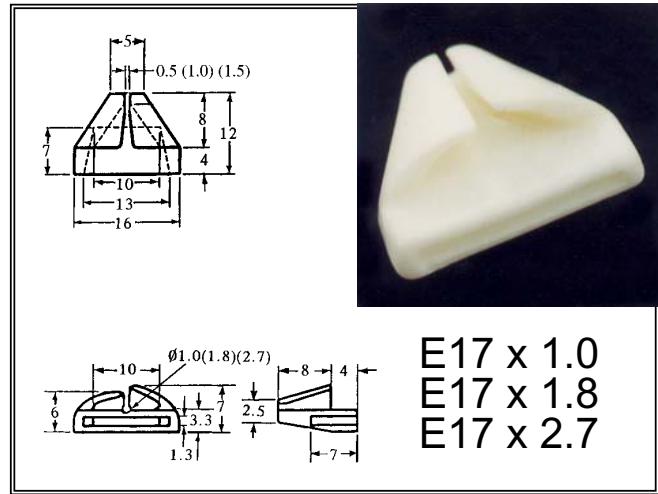
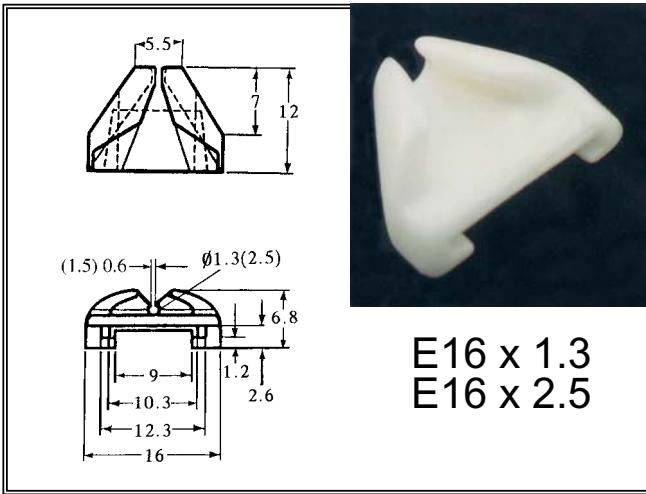
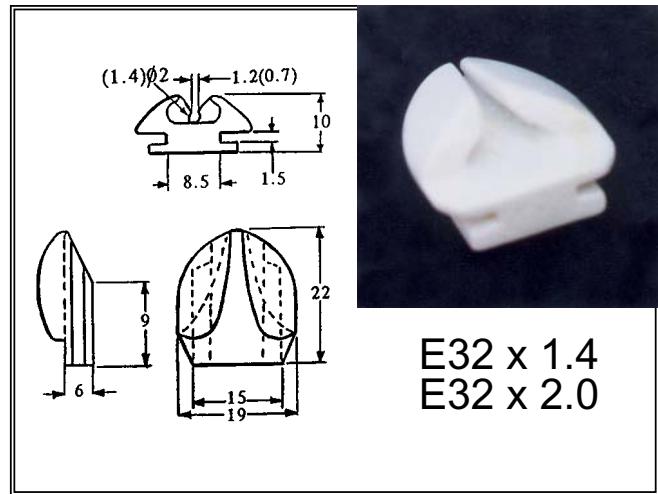
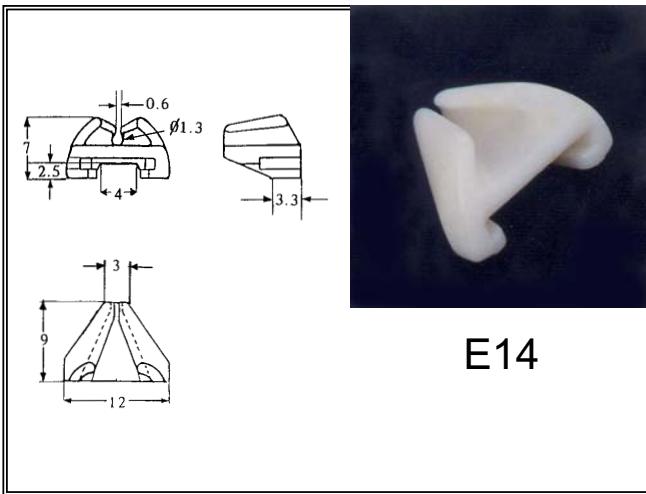
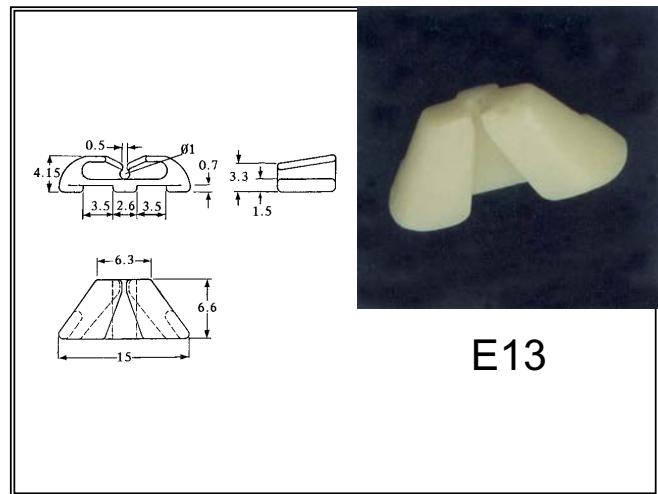
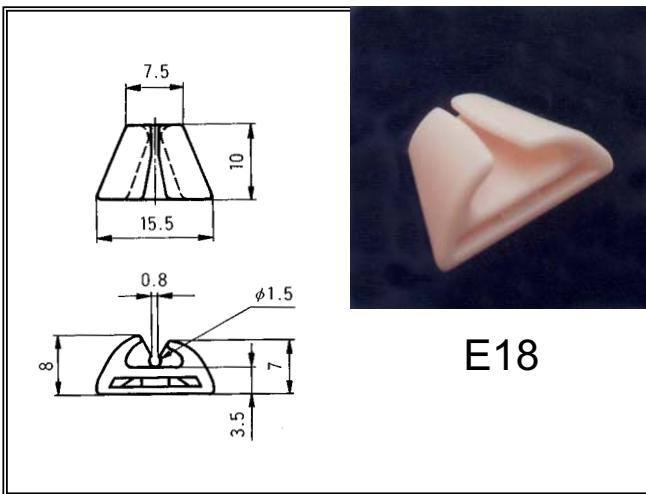


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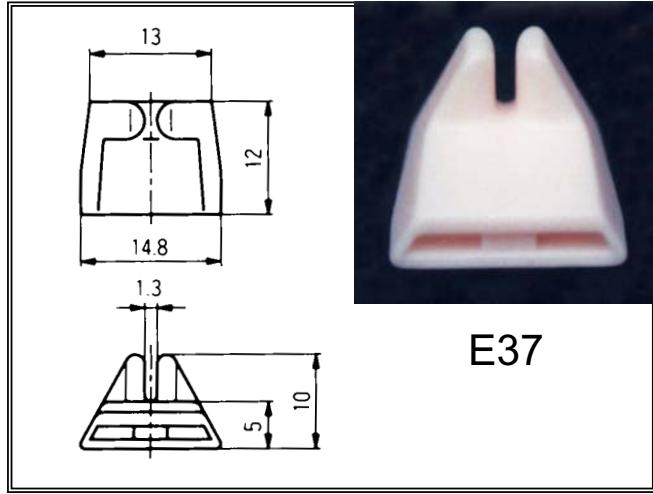
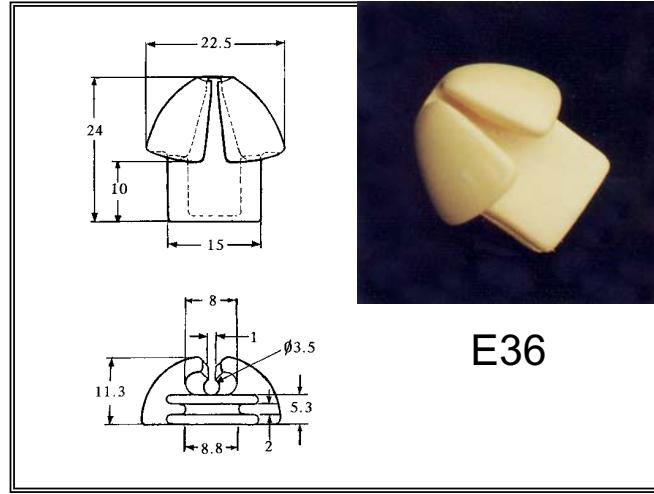
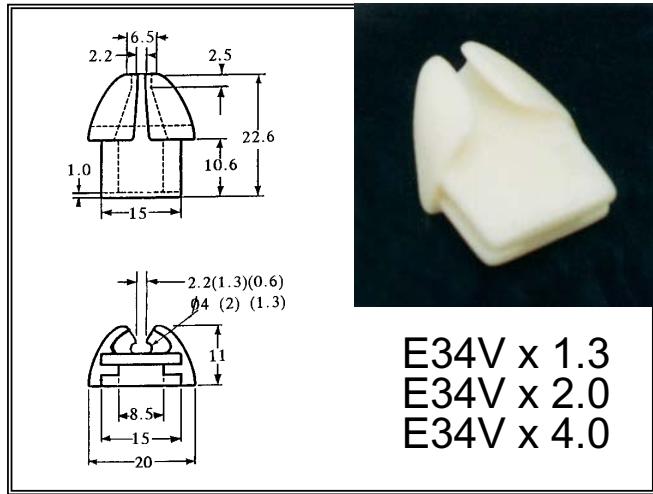
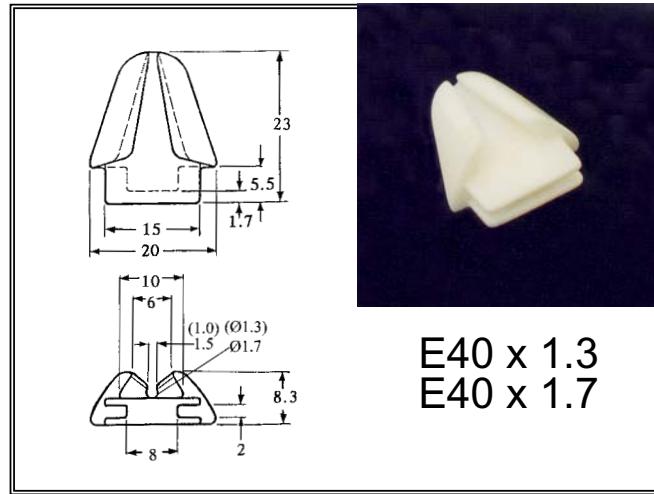
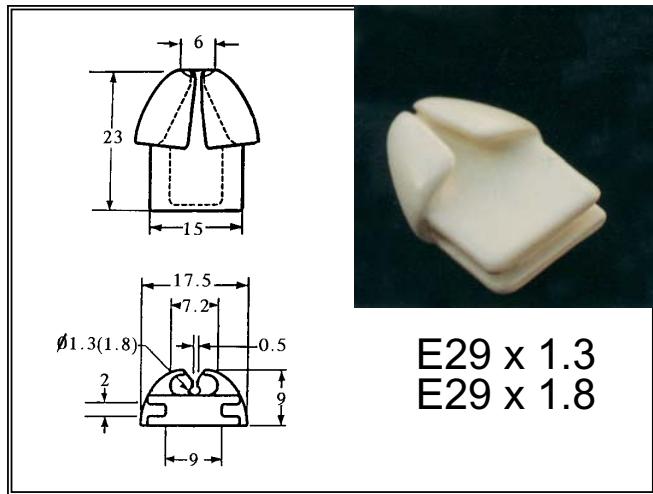
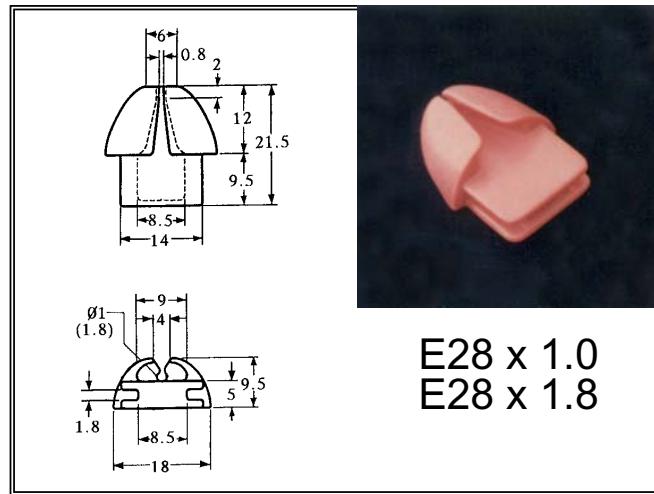
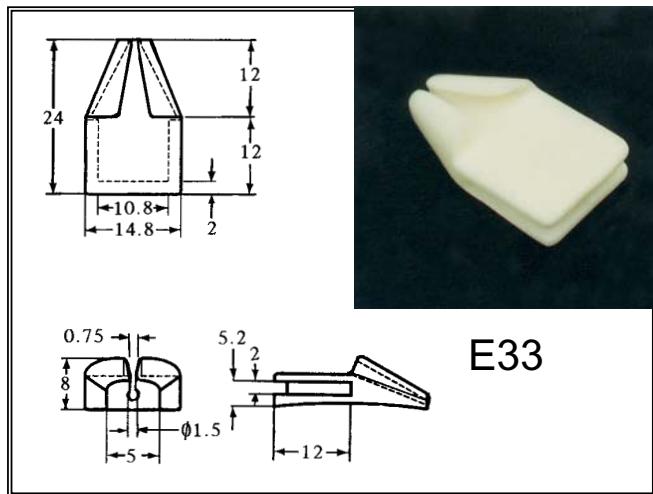
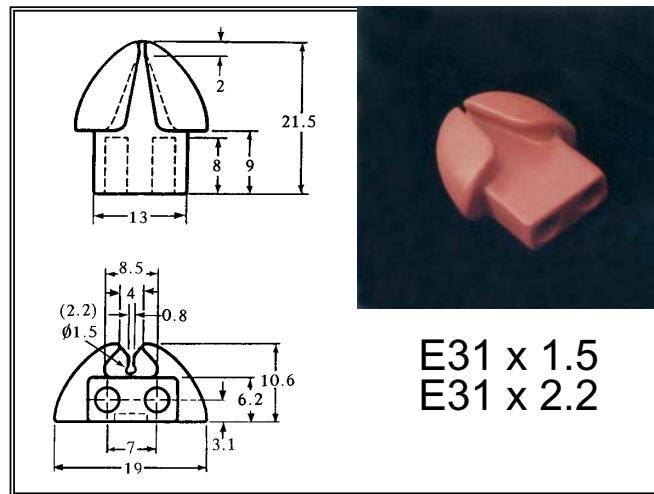


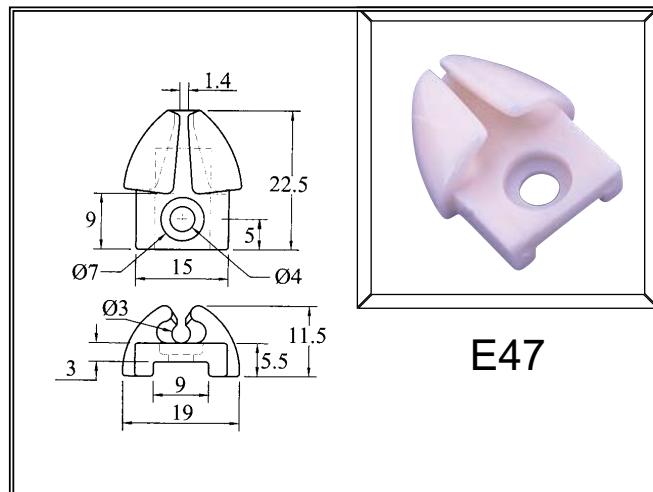
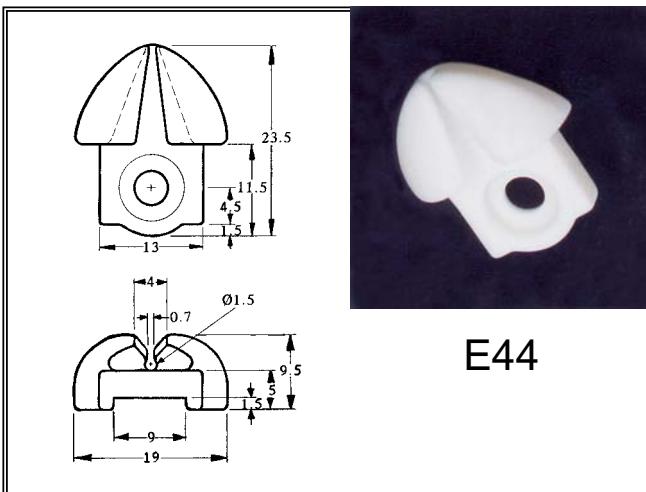
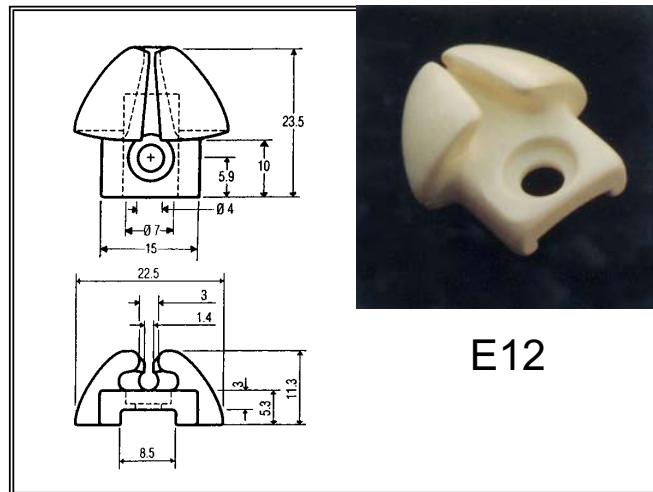
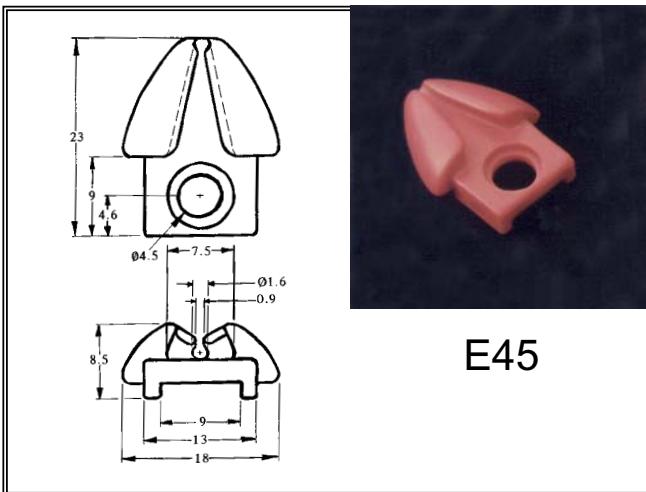
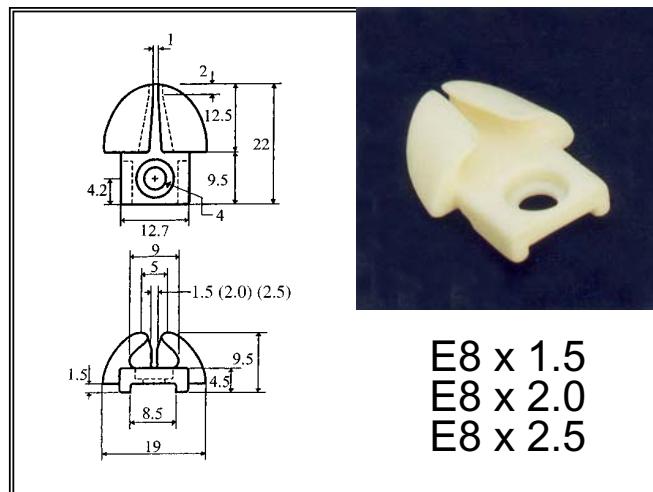
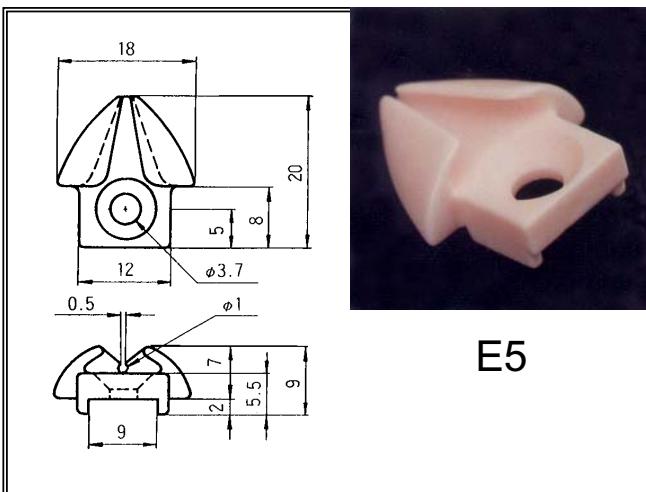
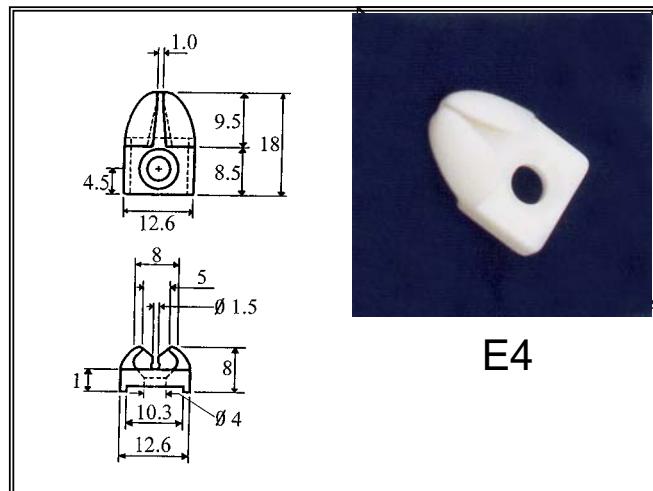
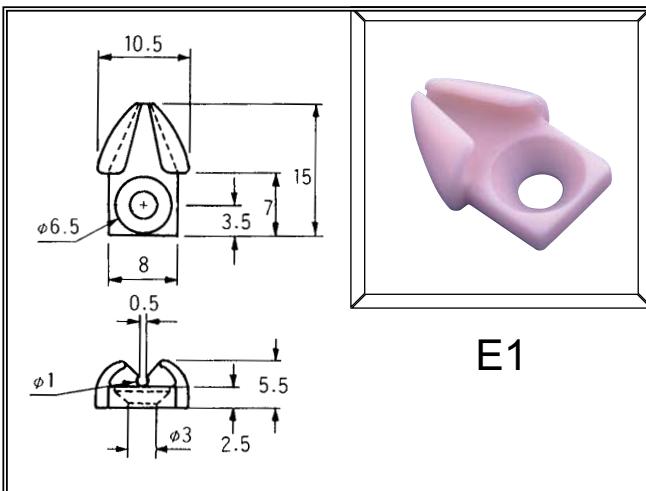


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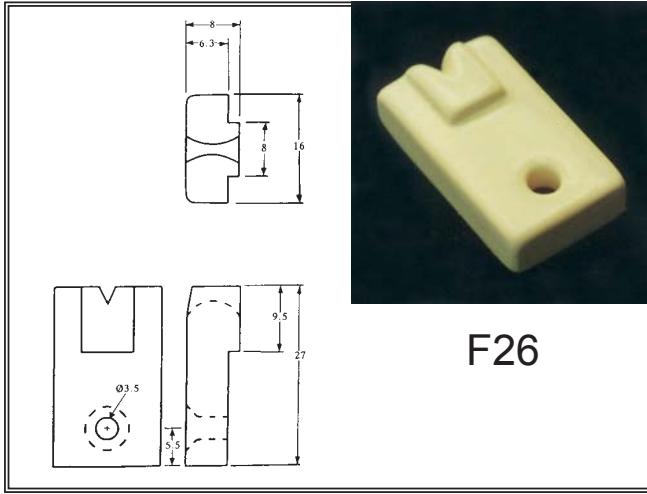
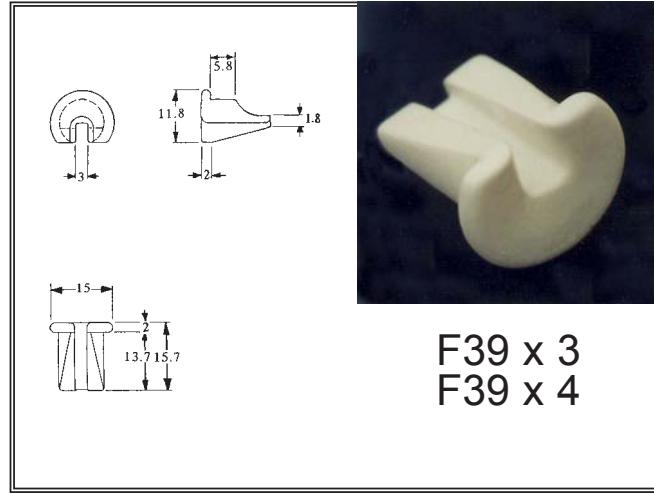
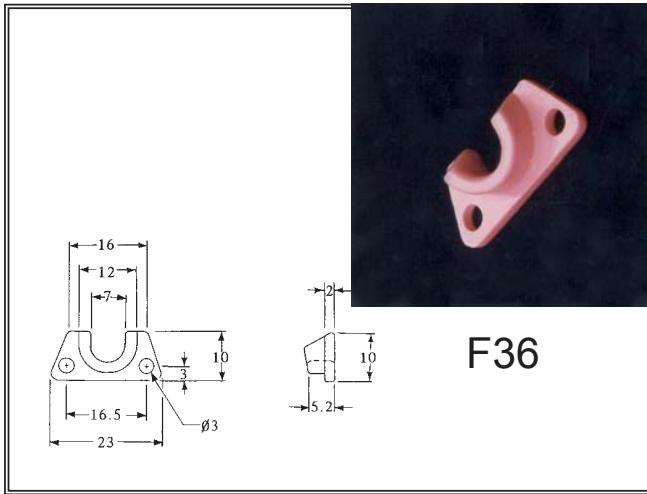
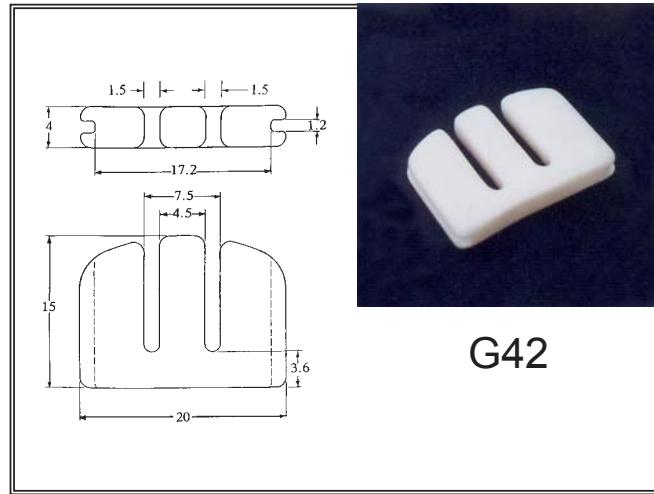
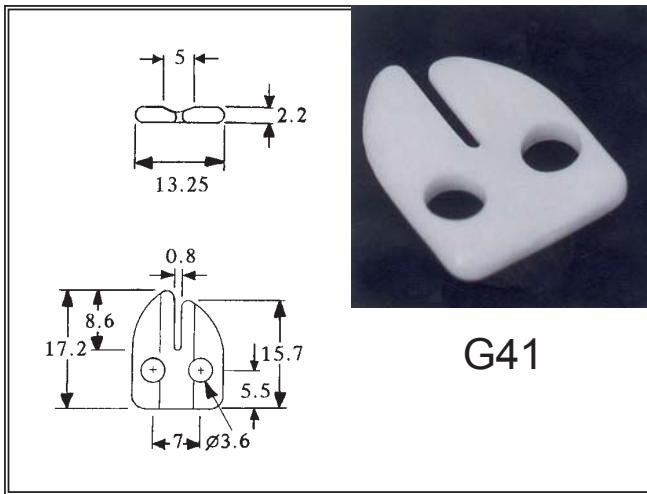
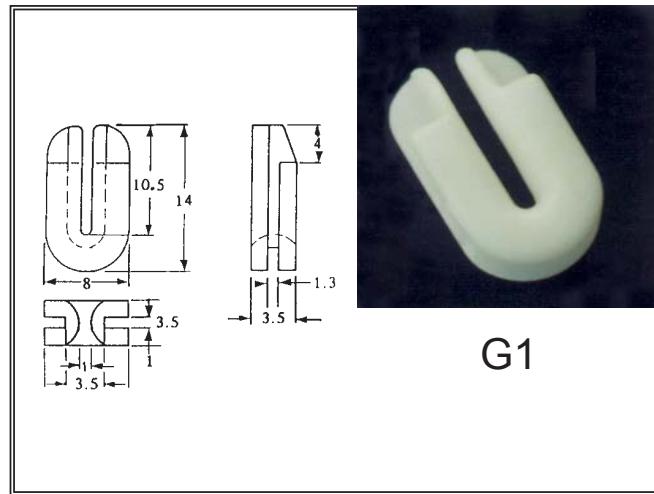
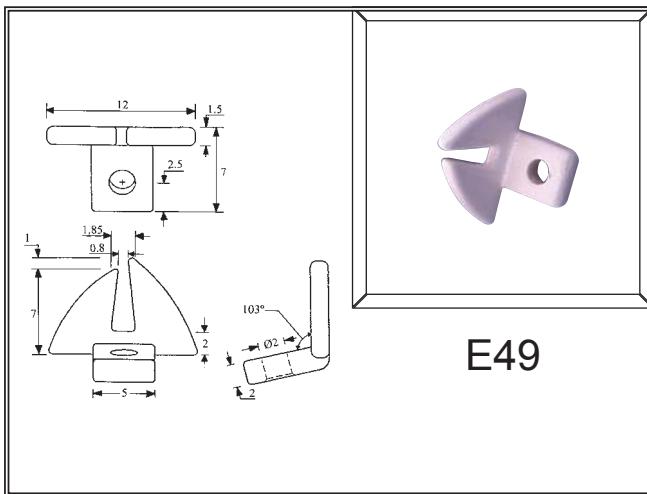
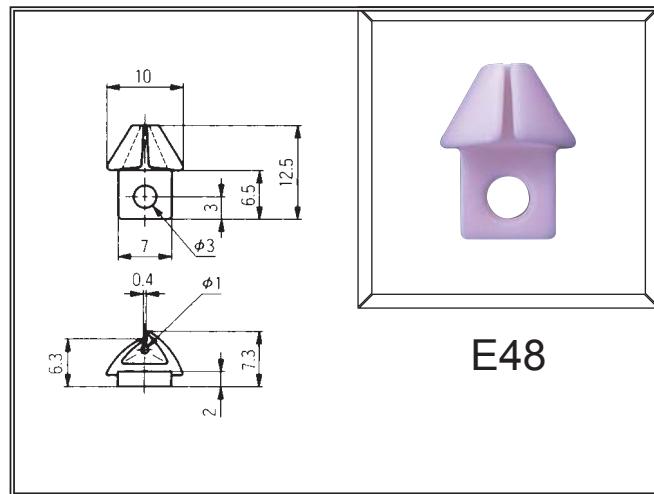


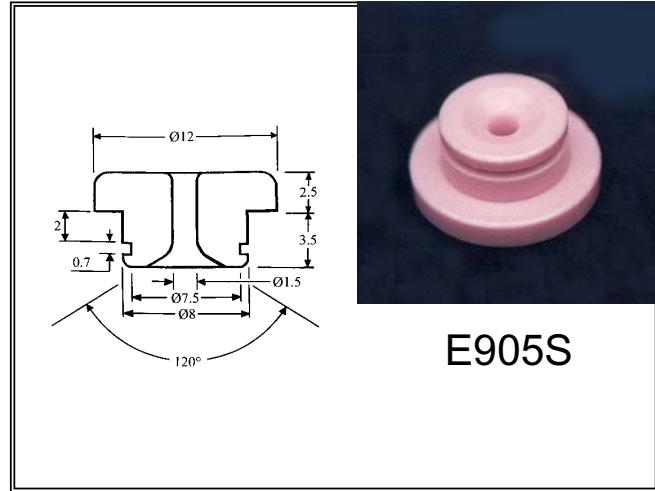
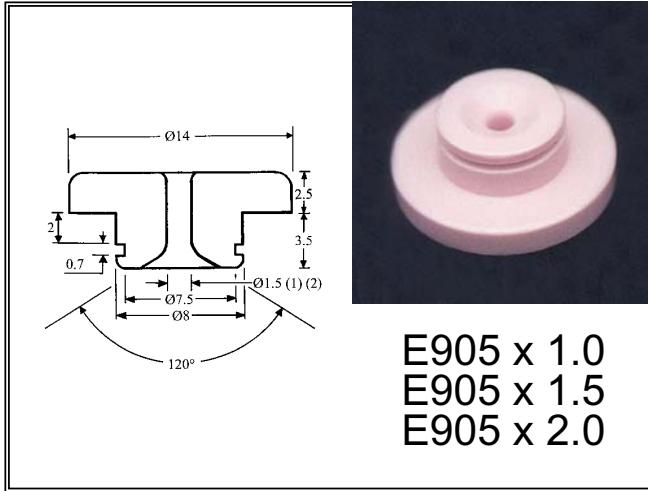
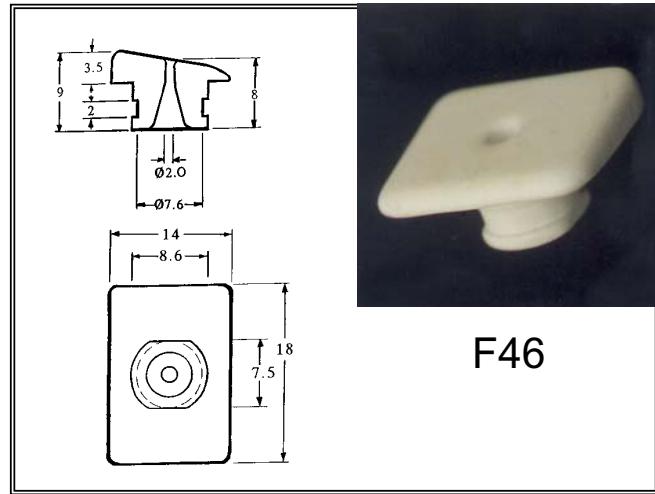
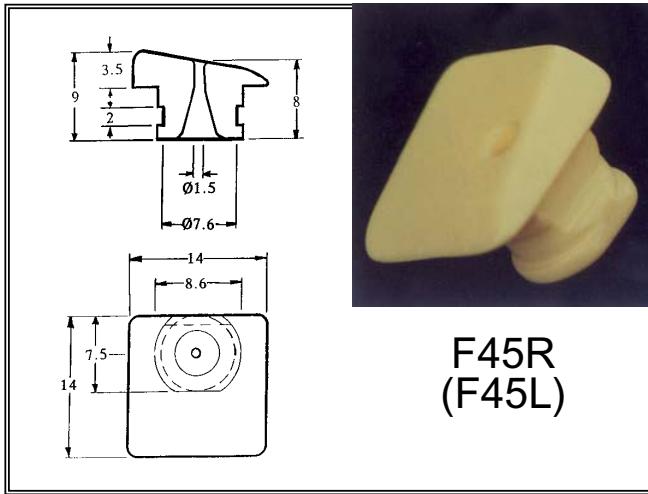
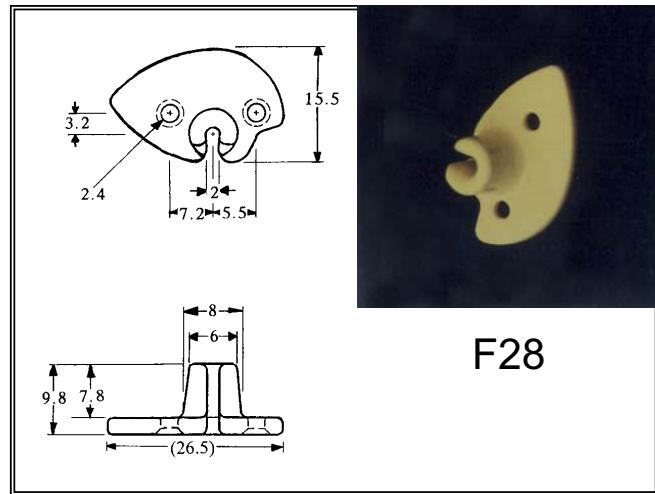
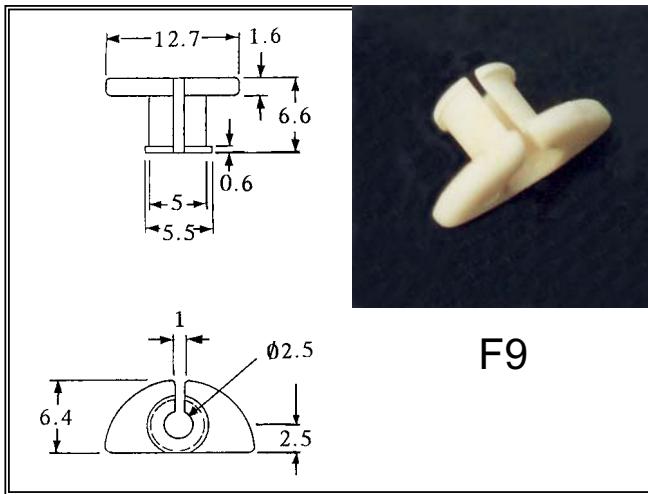
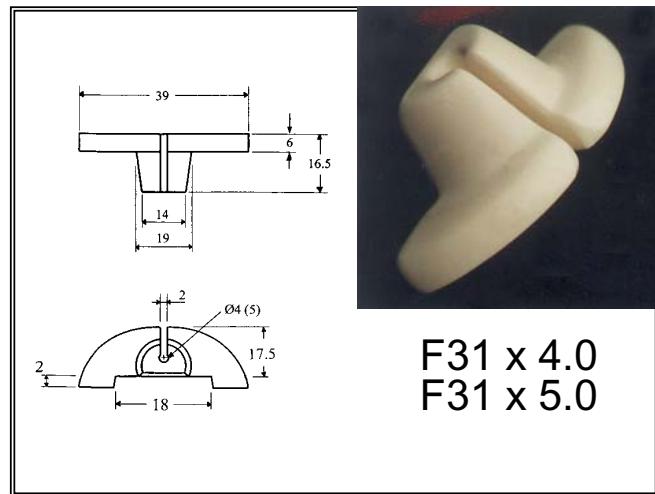
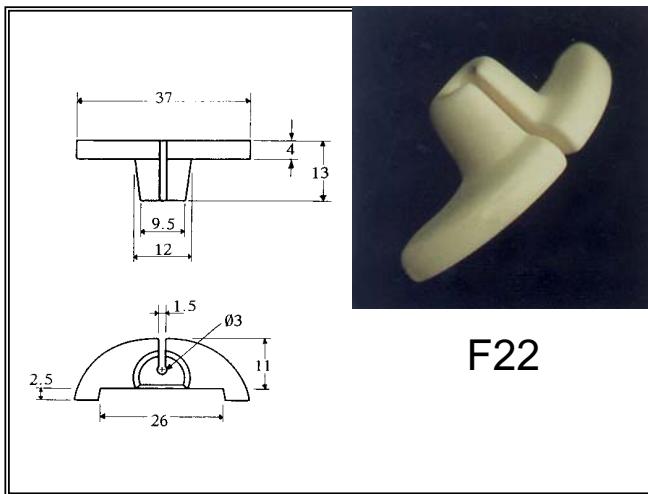


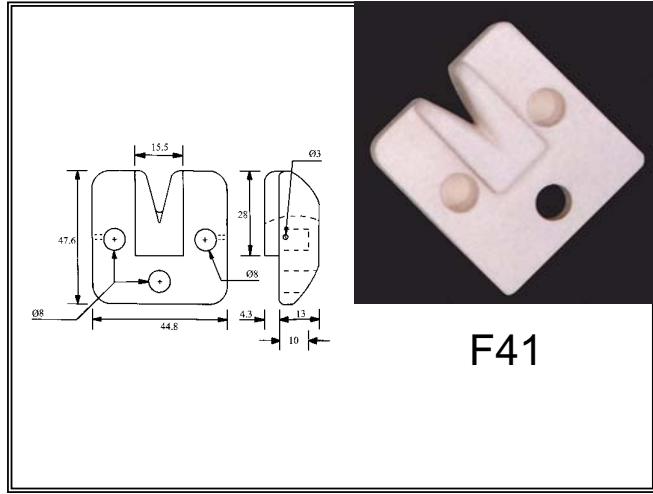
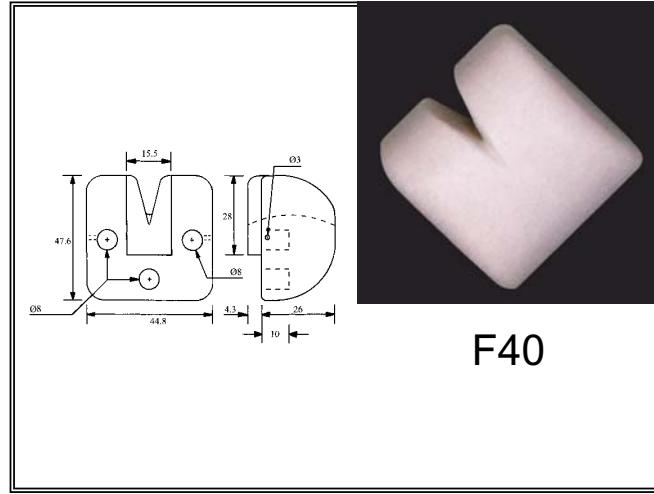
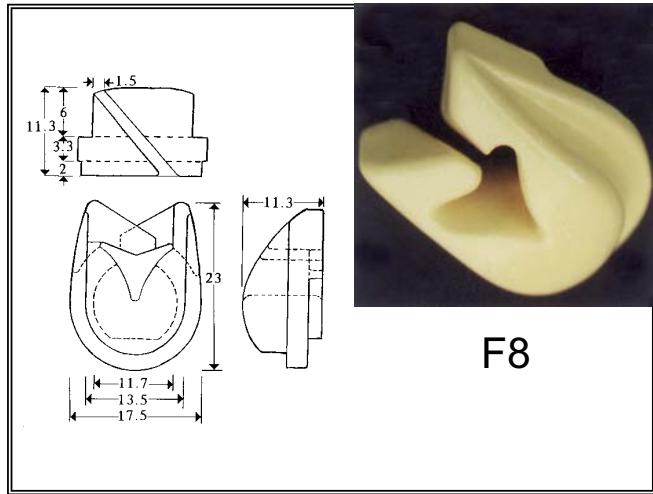
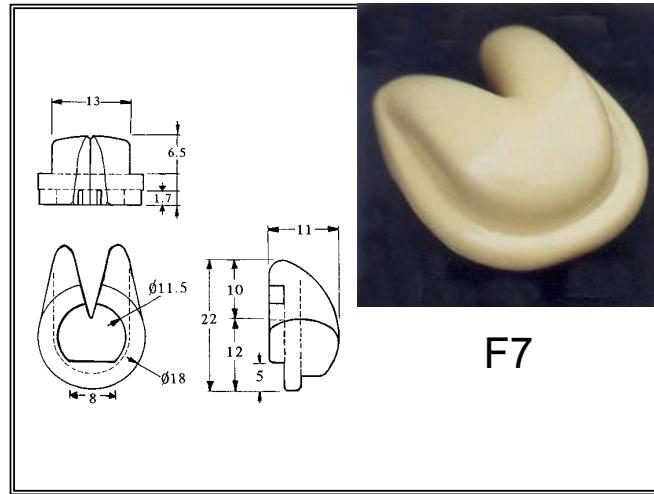
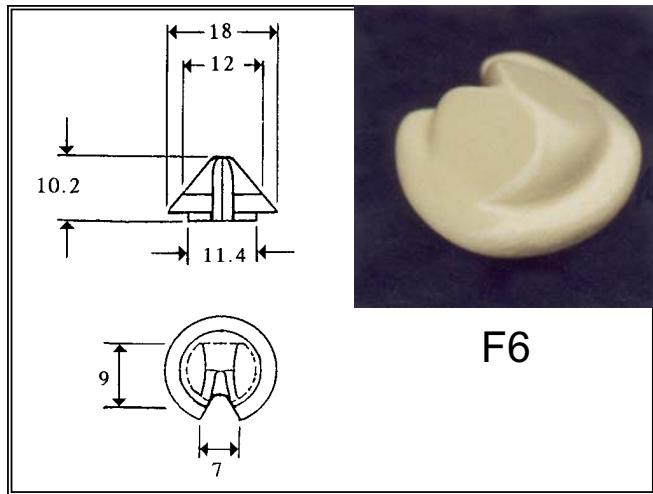
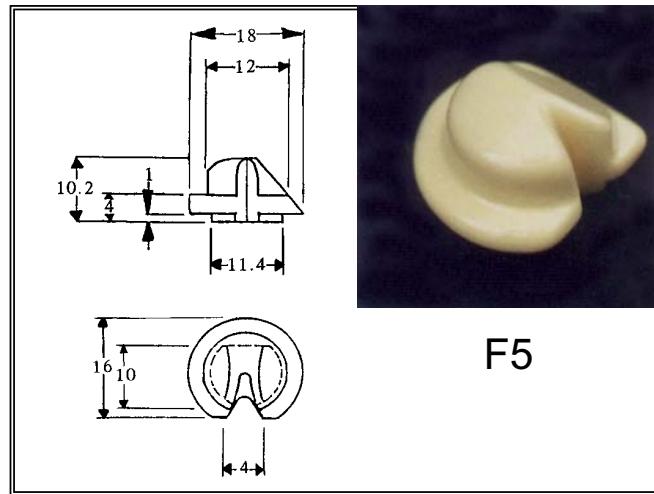
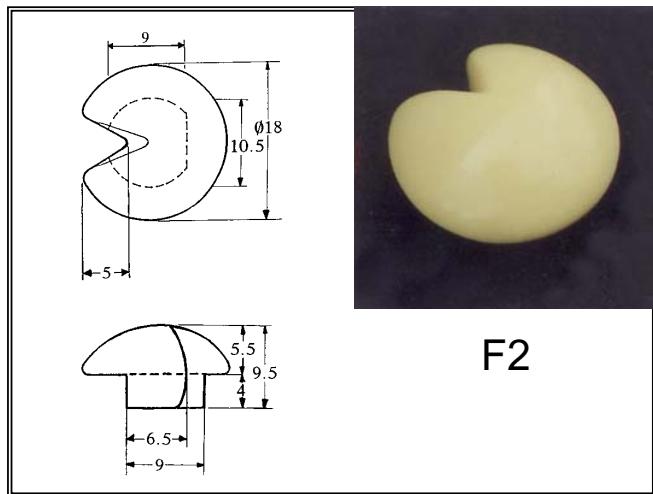
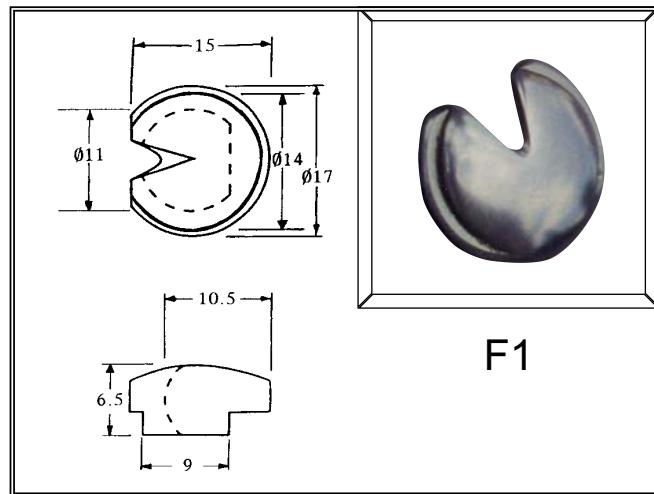
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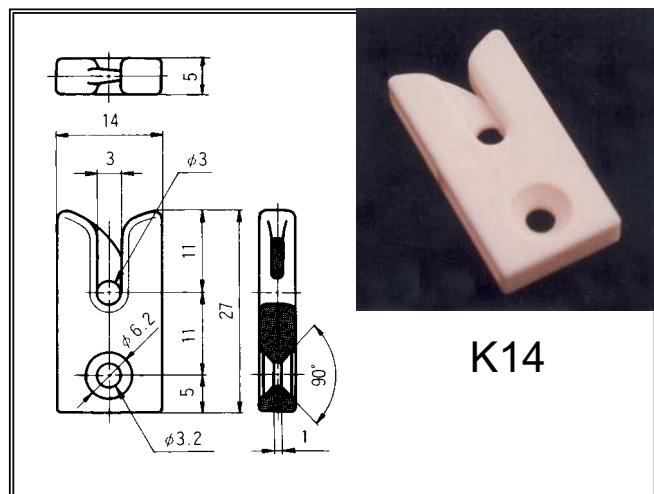
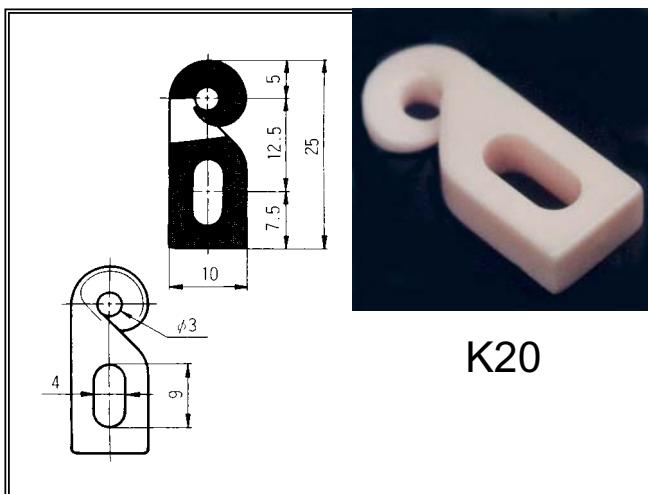
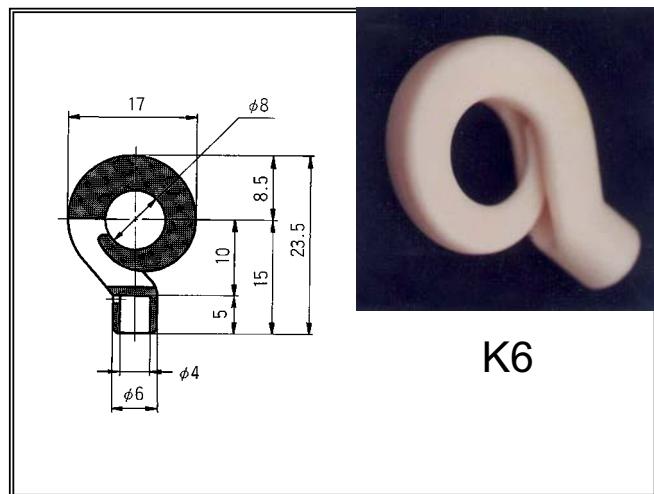
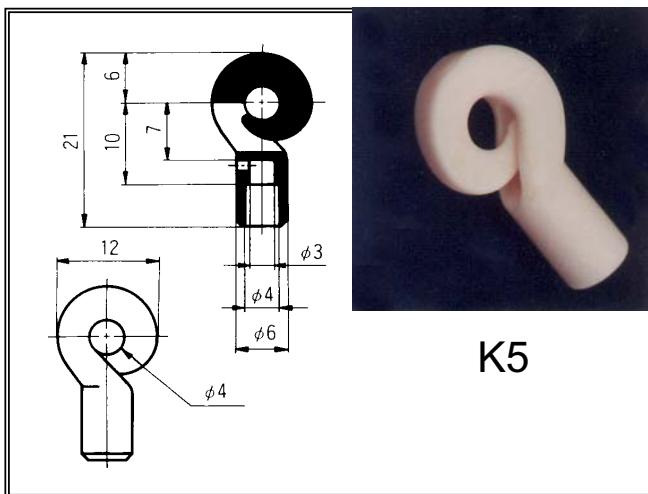
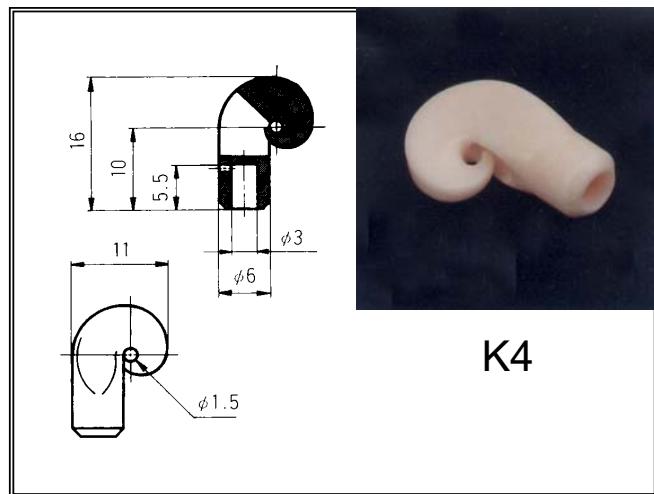
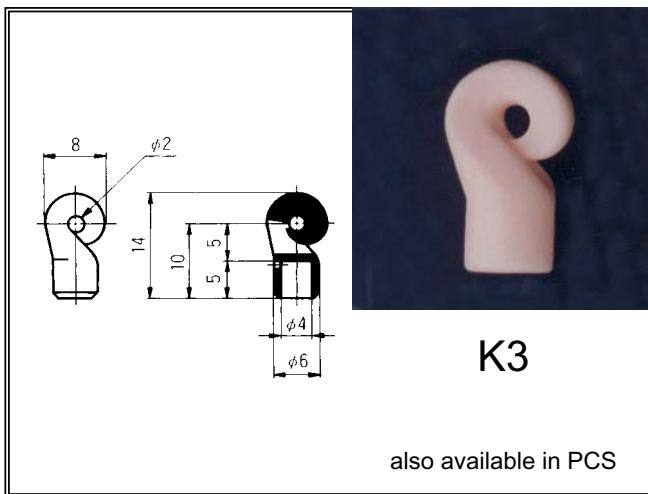
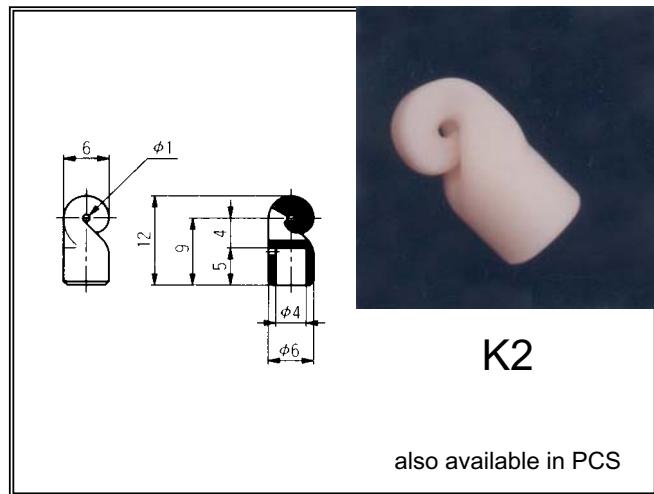
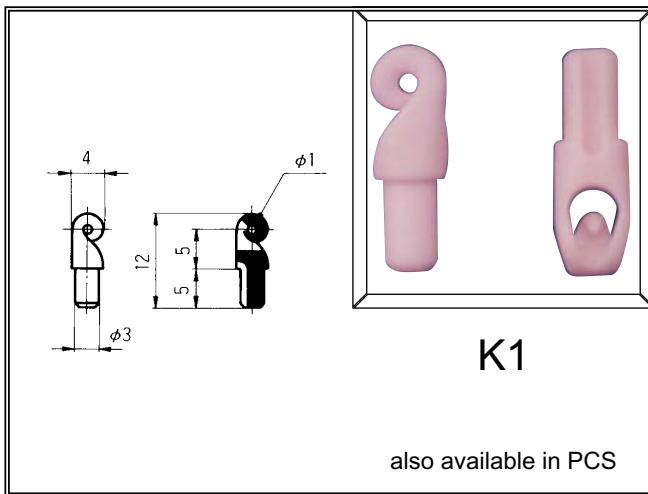


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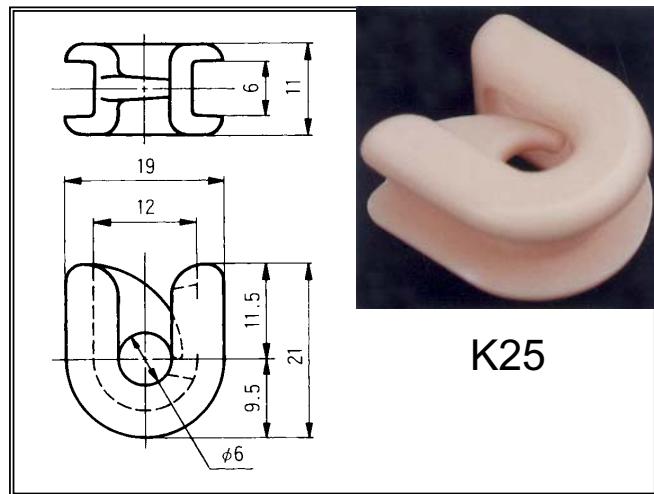
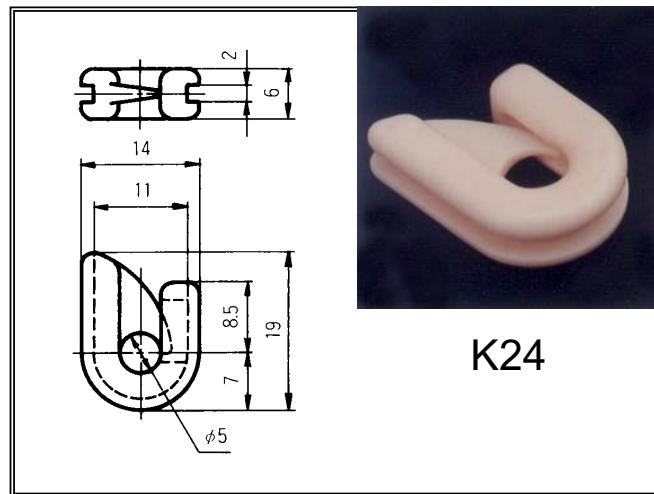
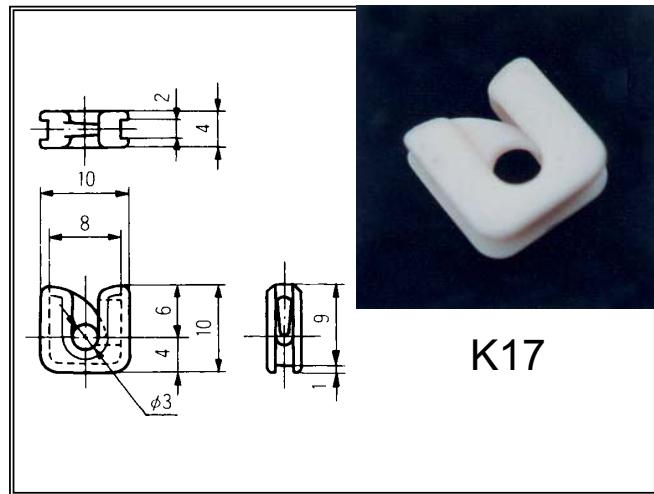
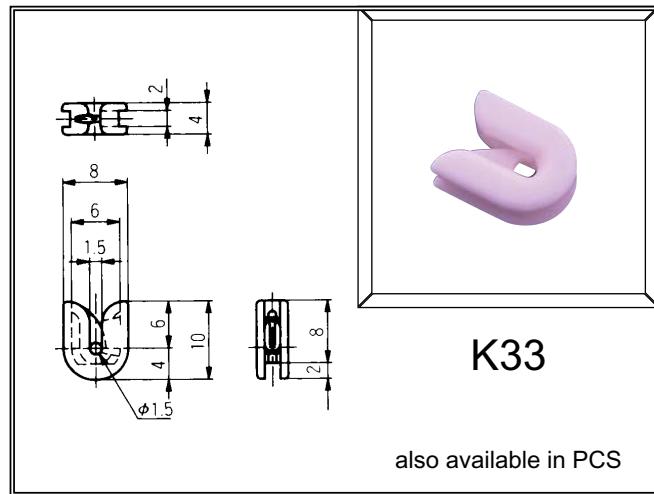
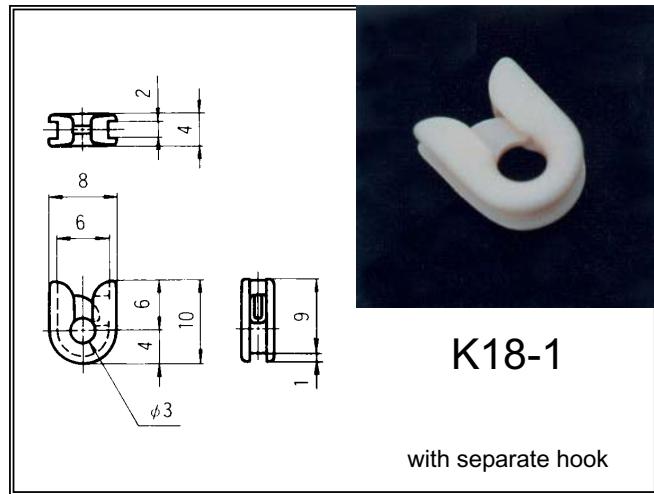
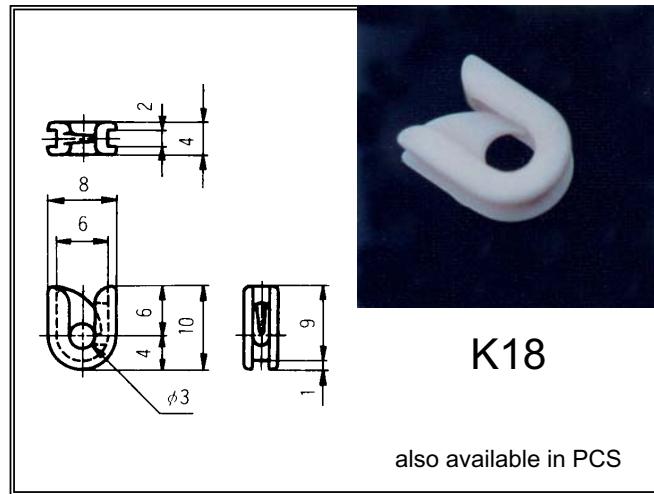
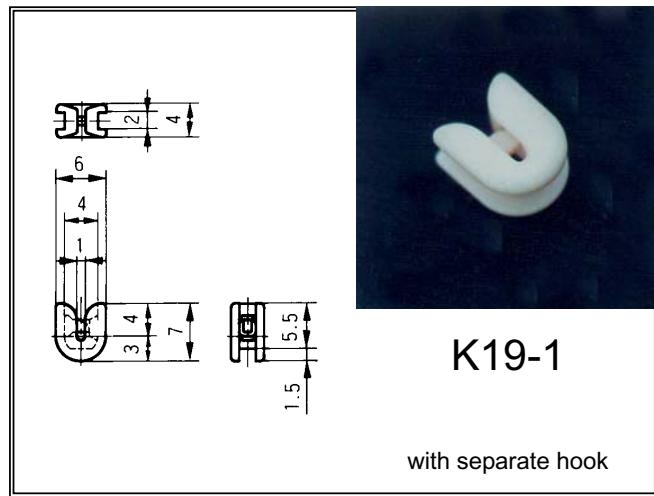
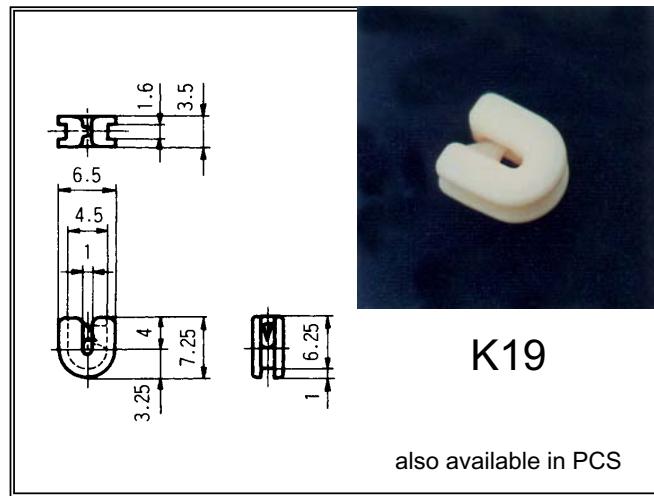


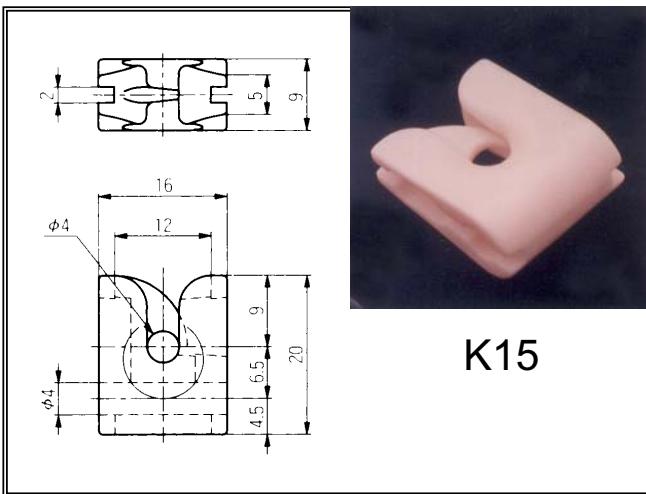


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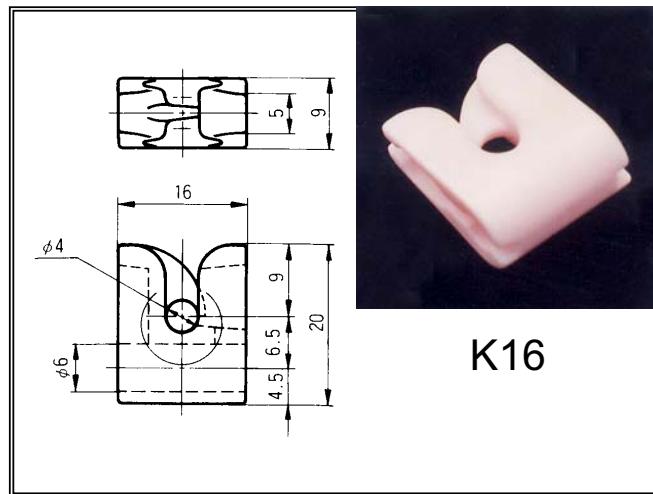


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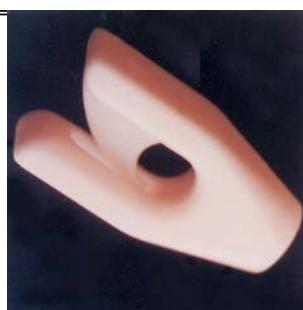
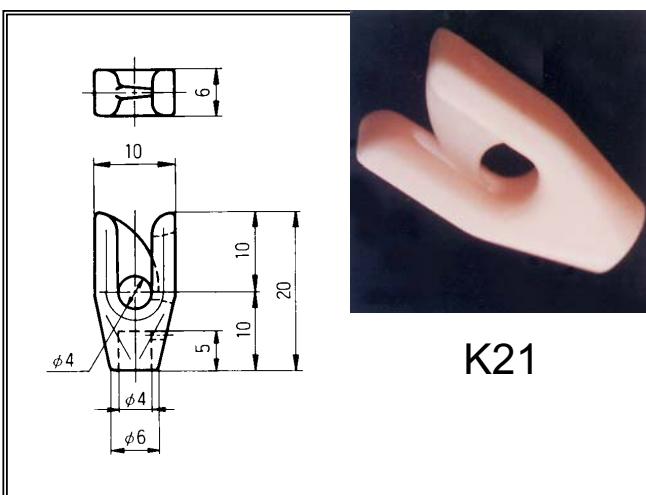




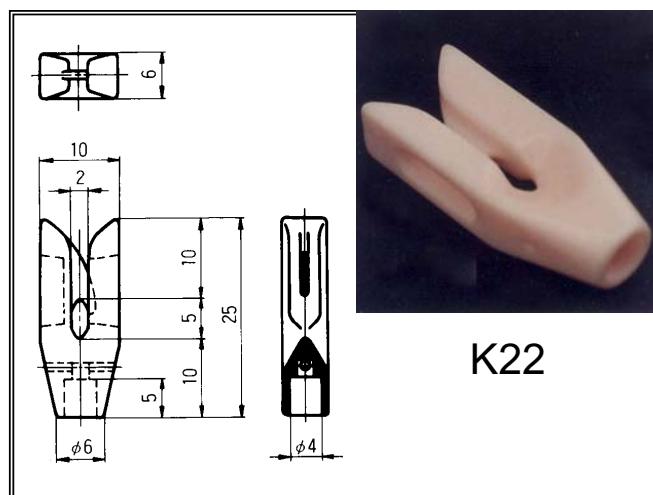
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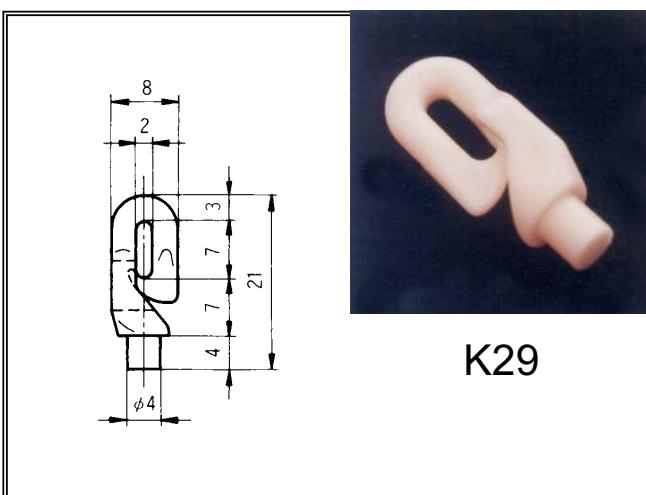
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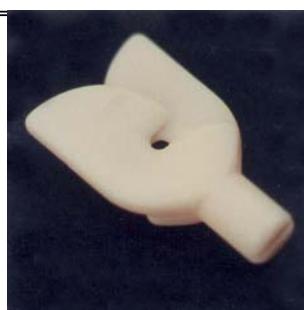
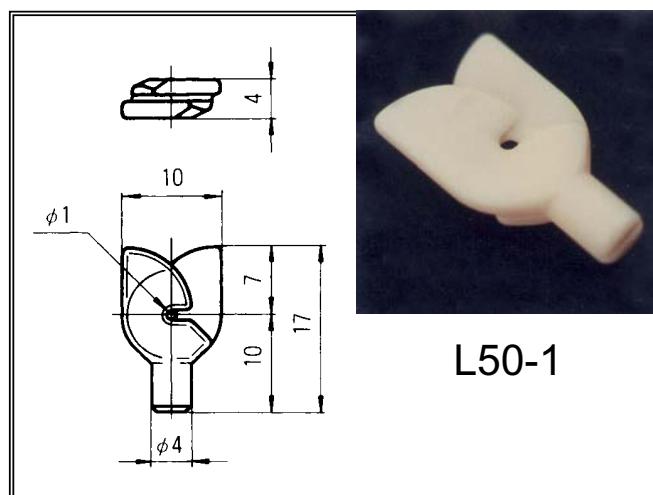
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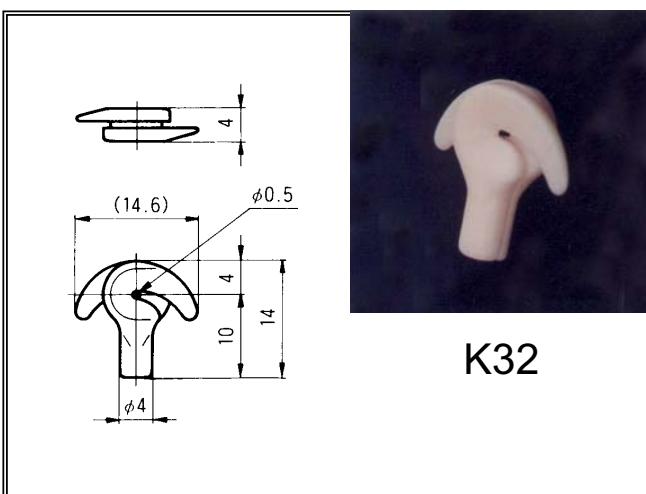
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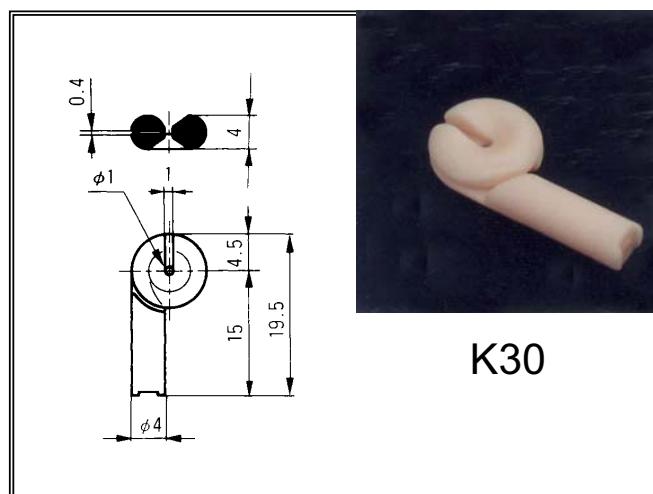
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L50-1



K32



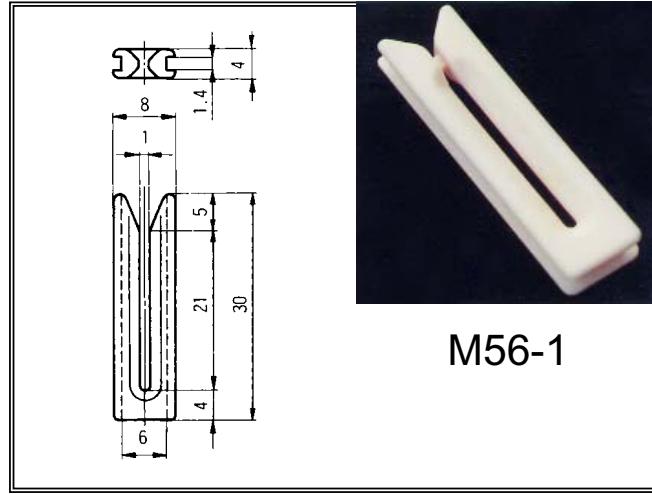
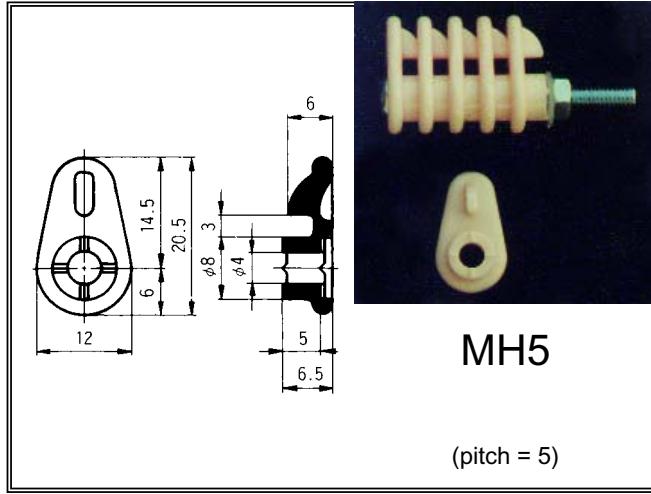
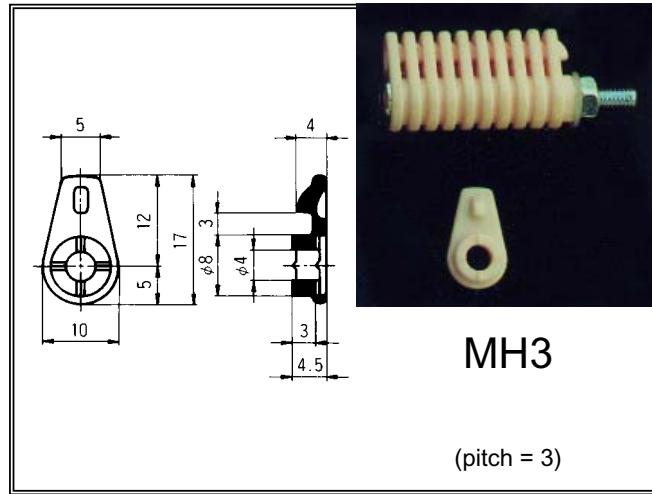
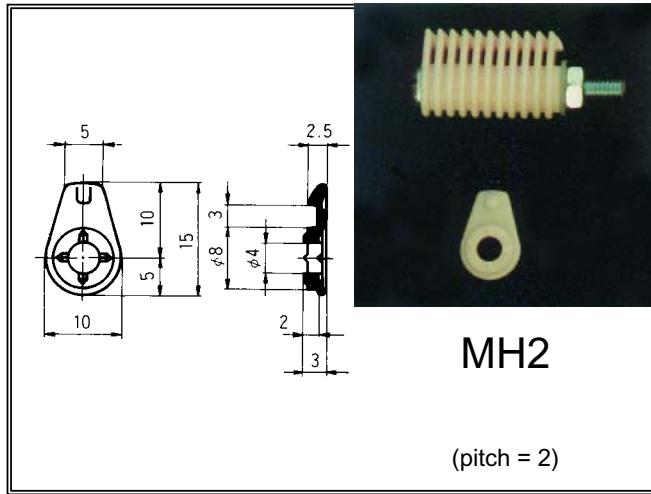
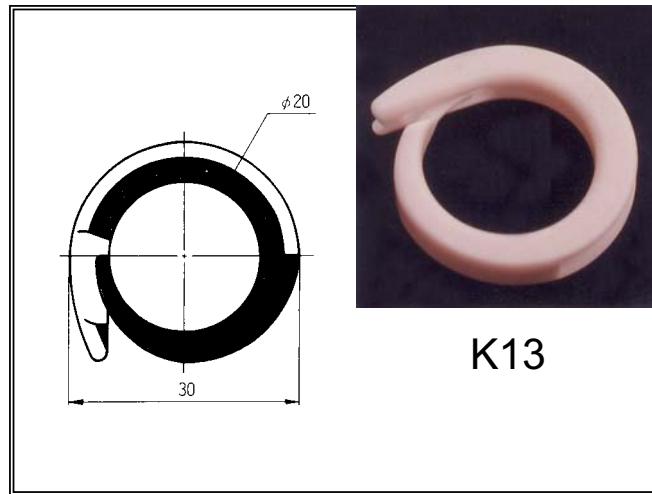
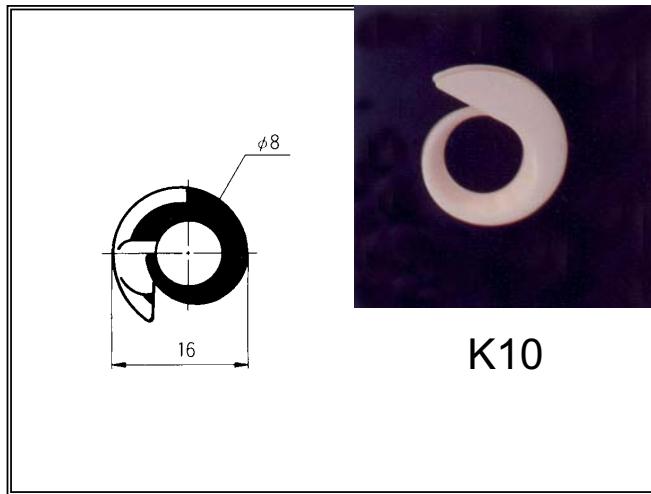
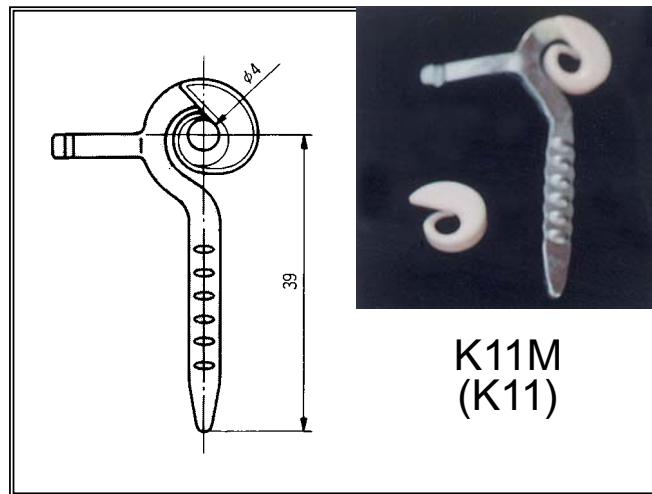
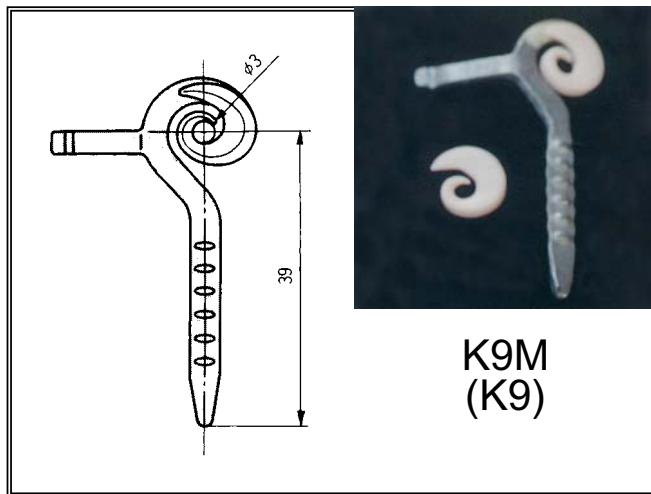
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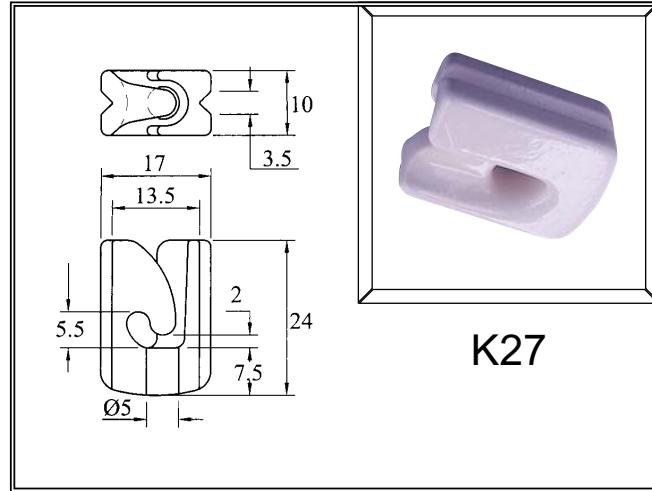
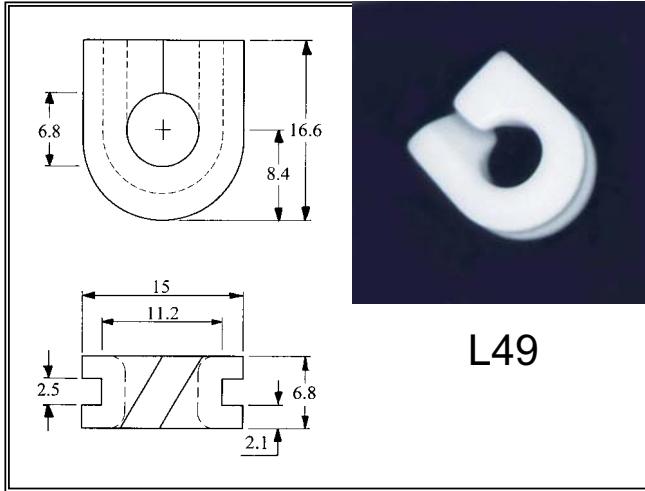
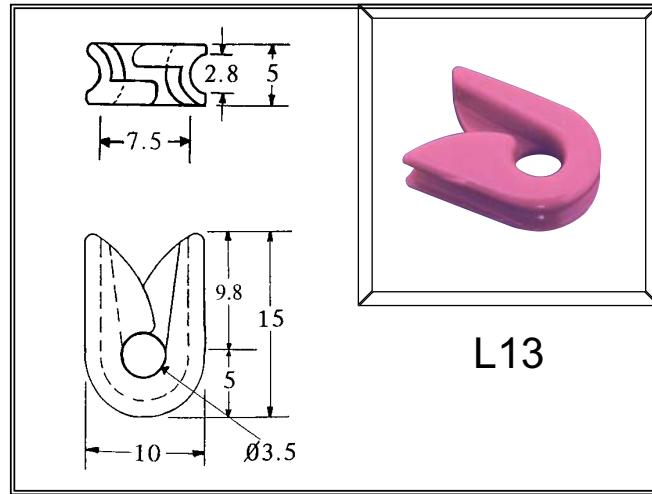
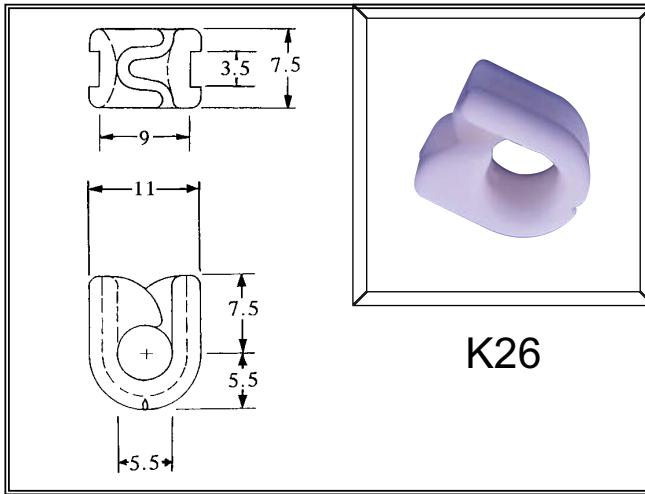
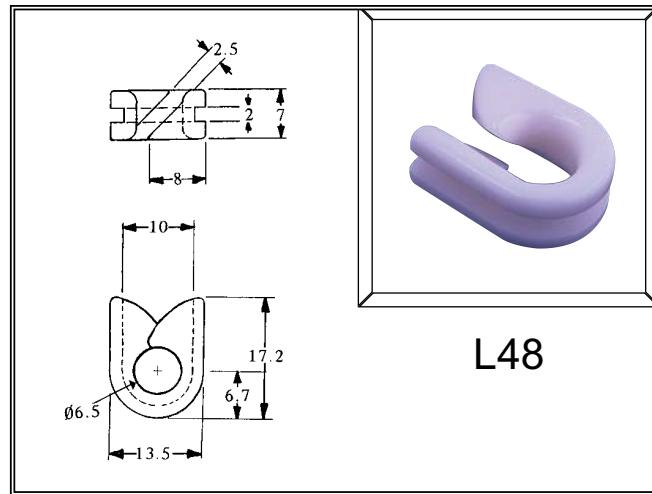
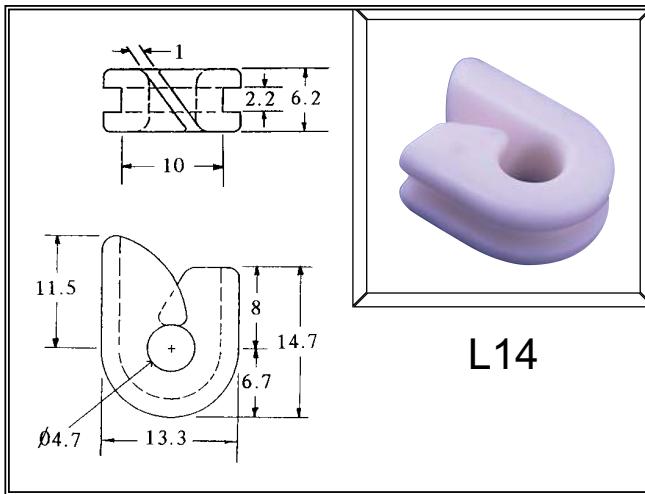
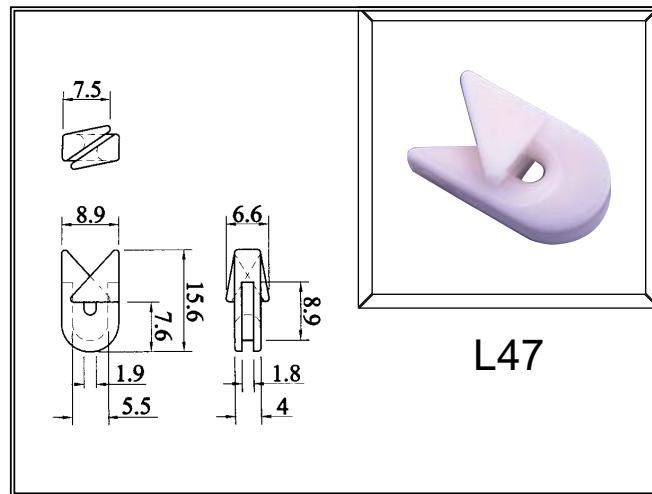
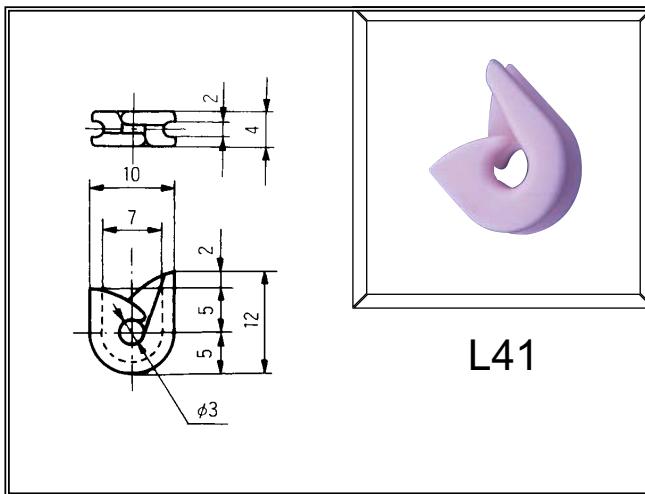


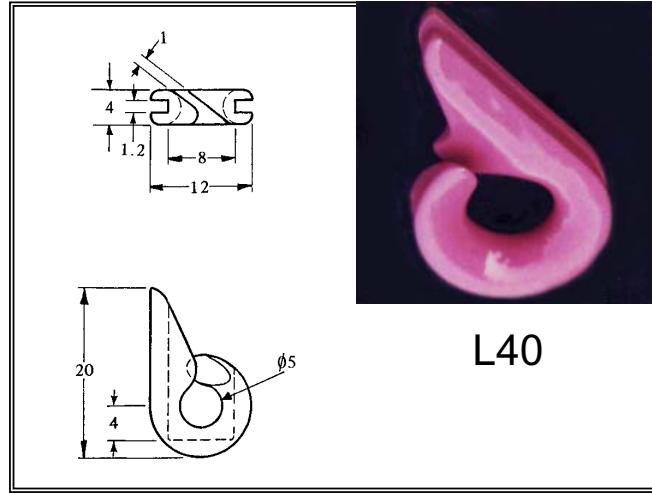
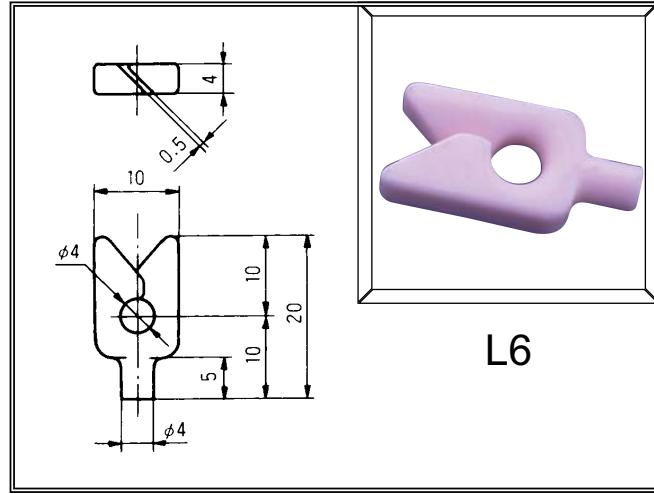
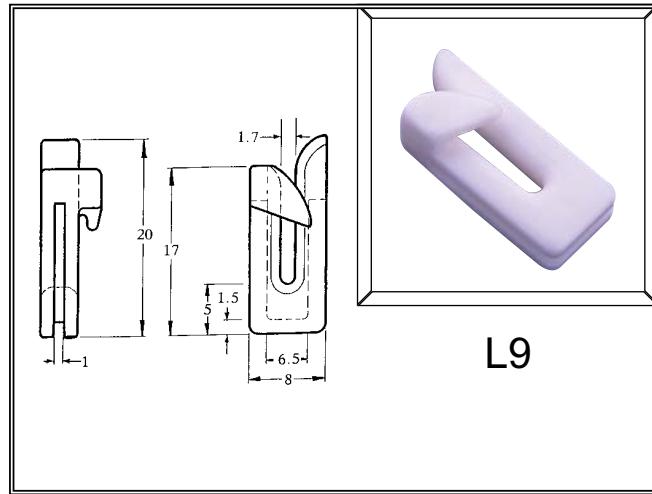
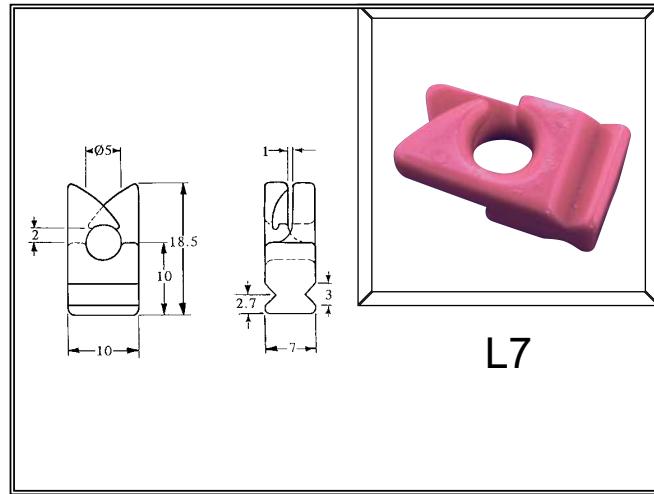
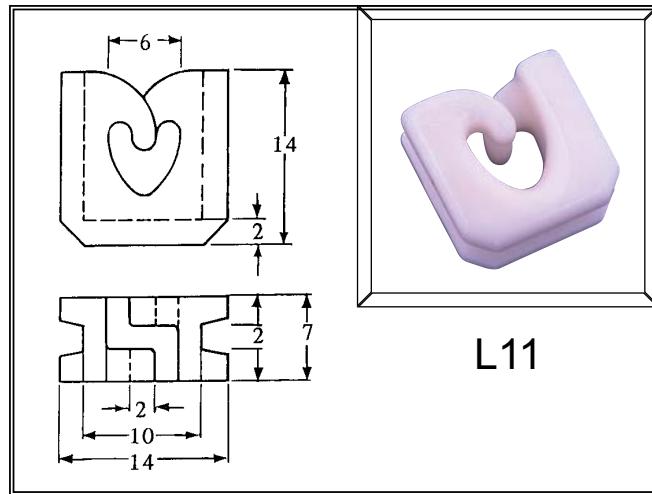
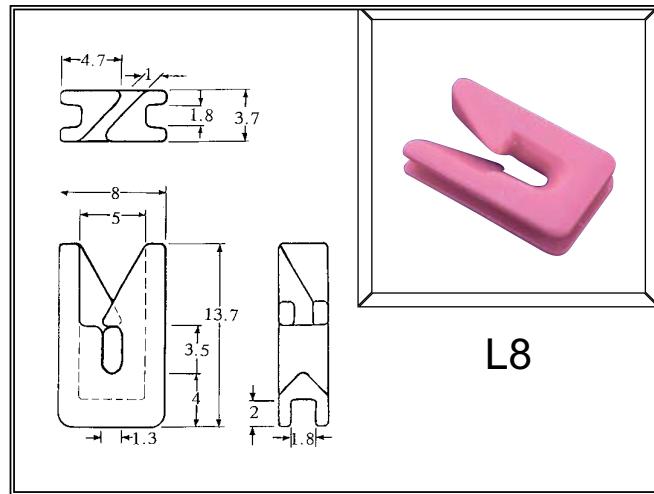
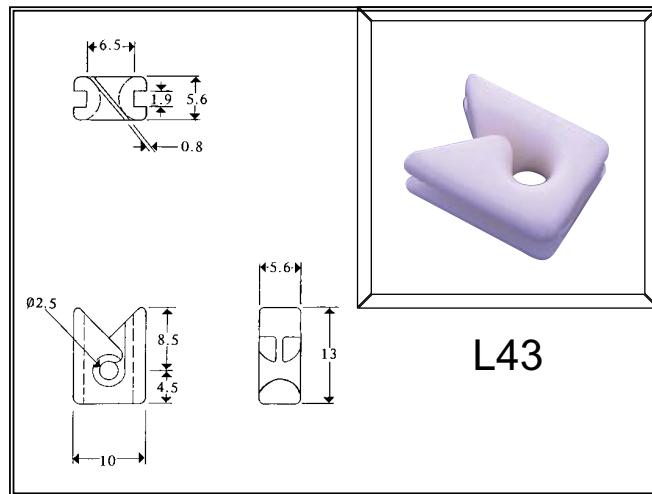
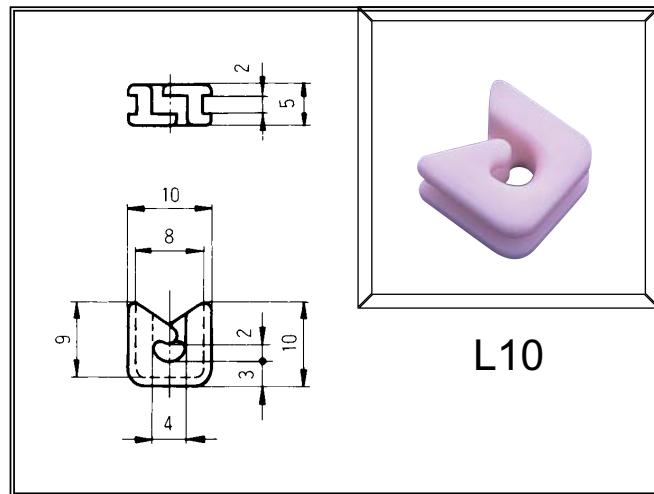
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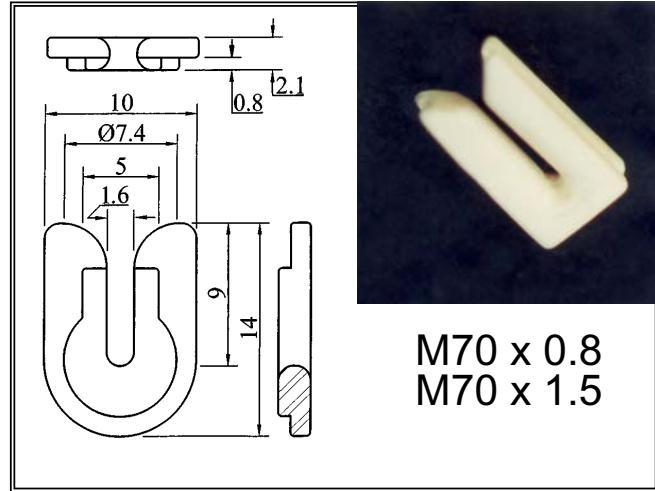
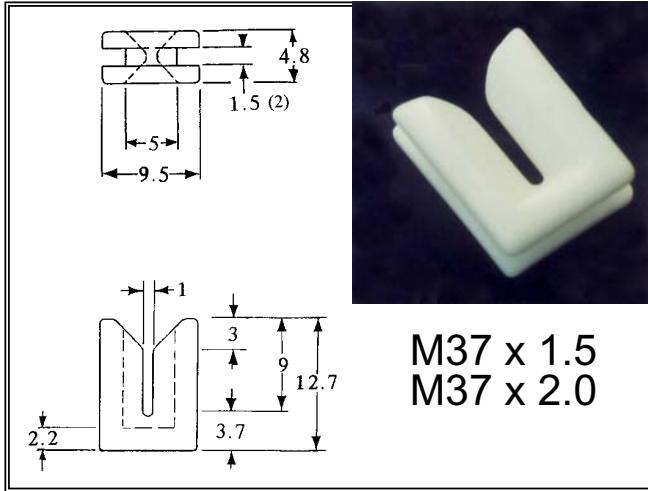
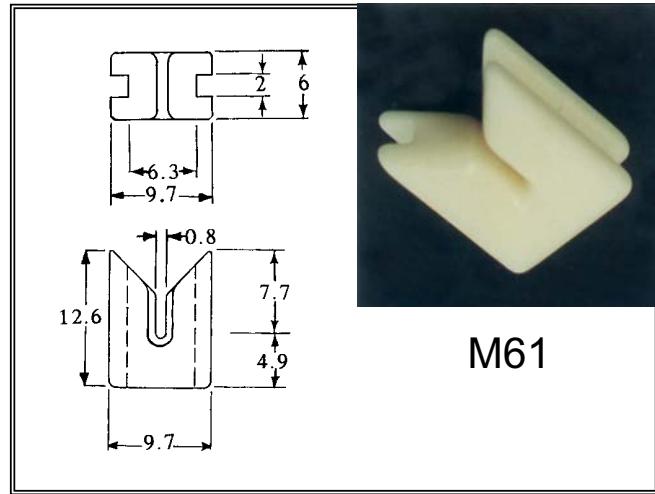
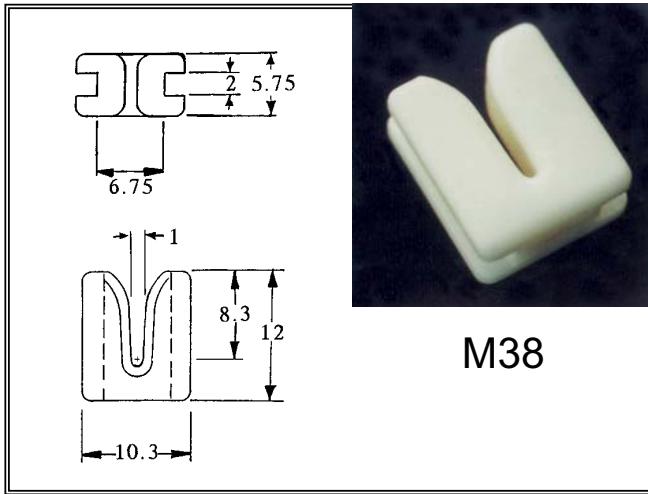
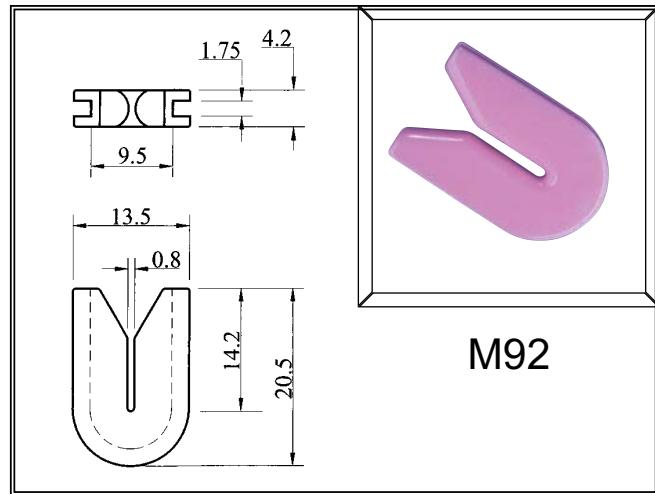
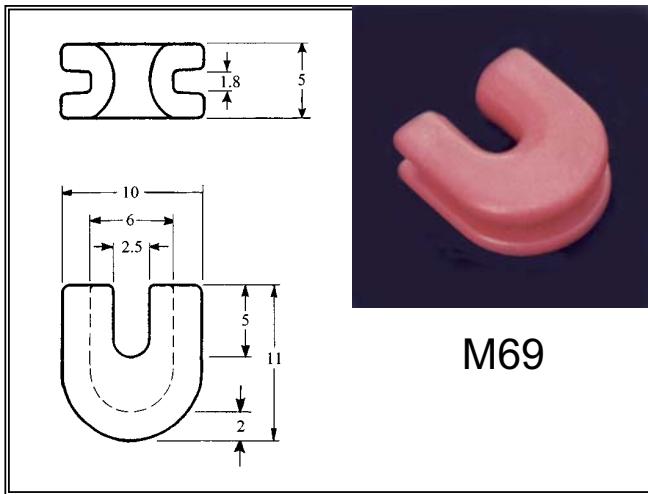
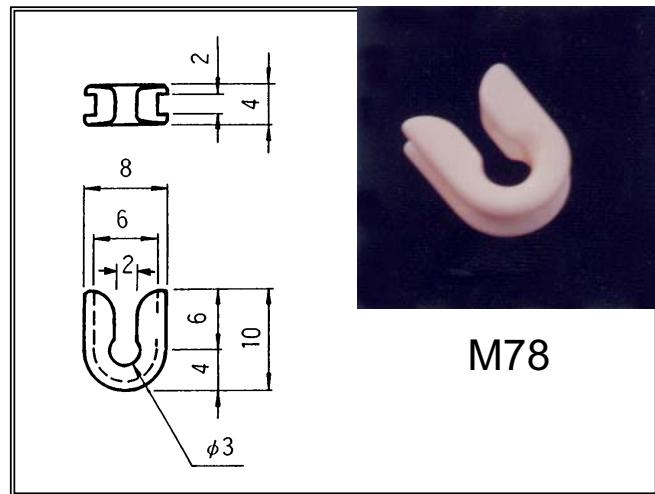
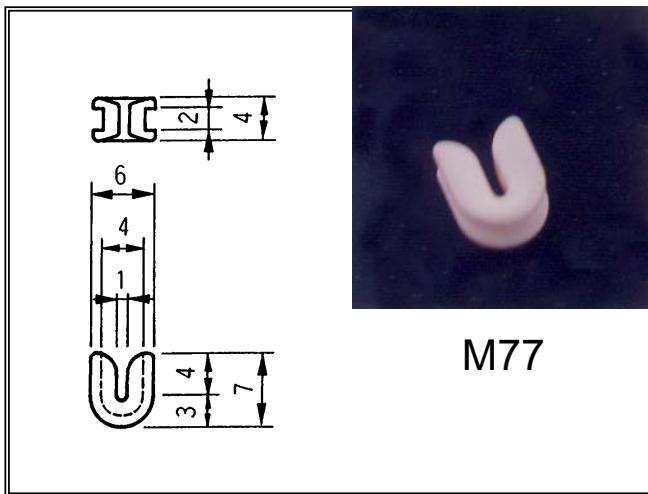


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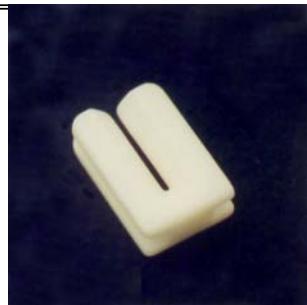
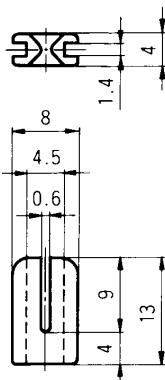




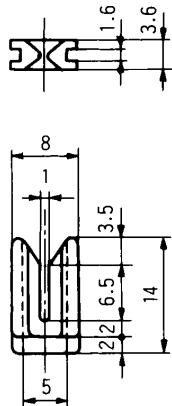
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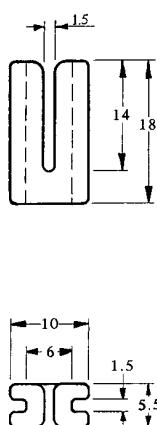
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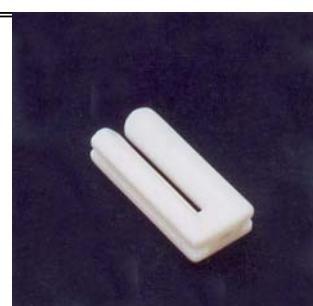
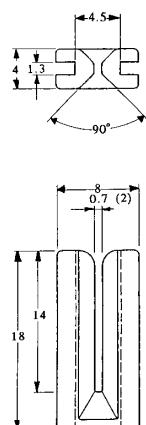
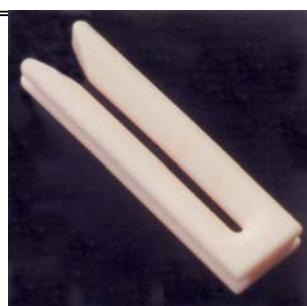
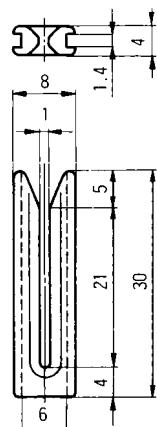
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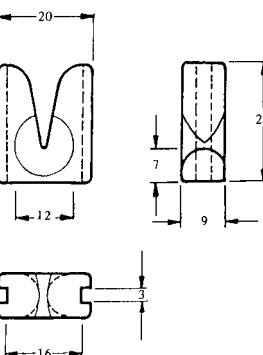
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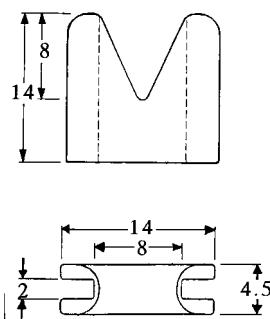
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M63 x 2.0

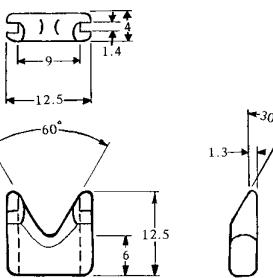
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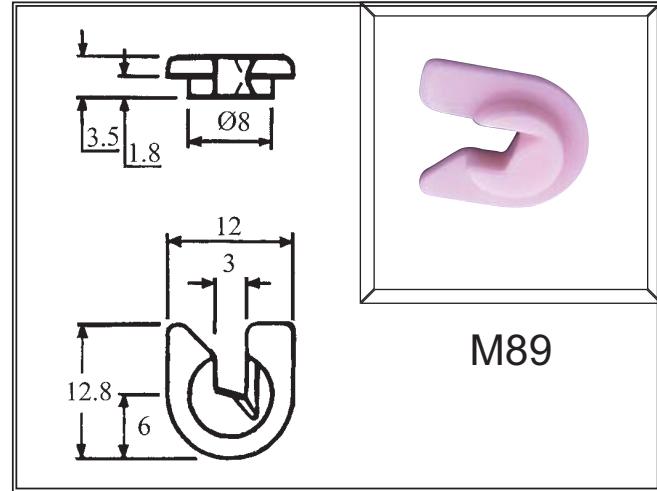
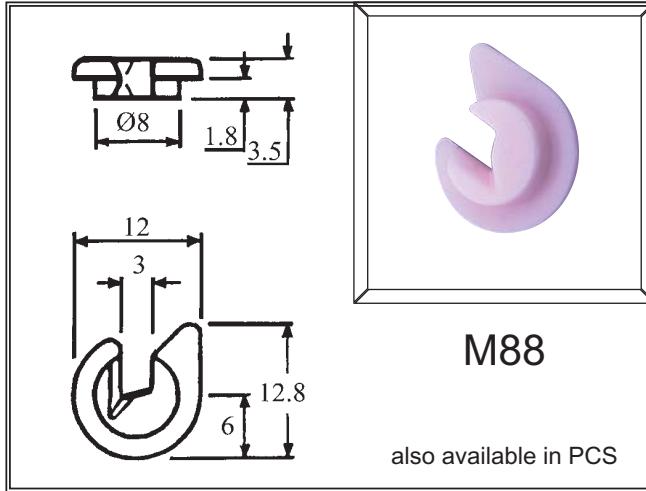
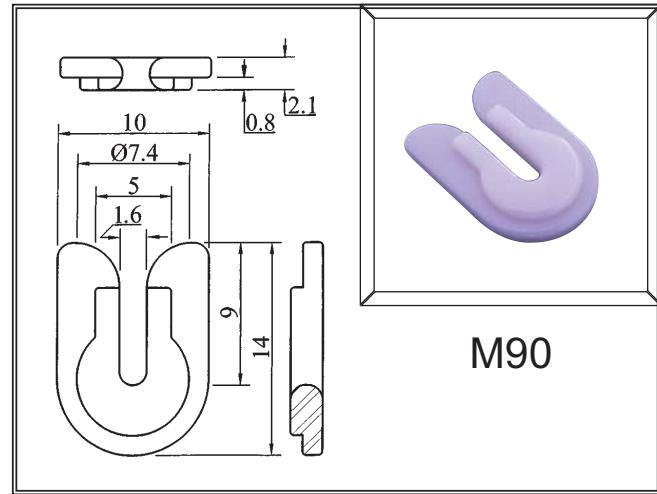
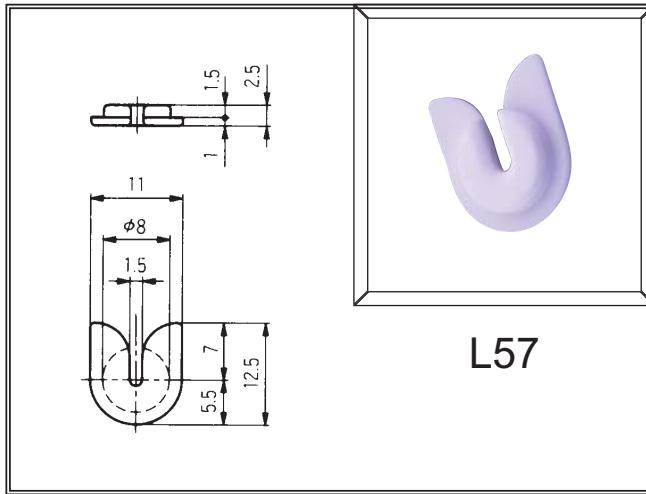
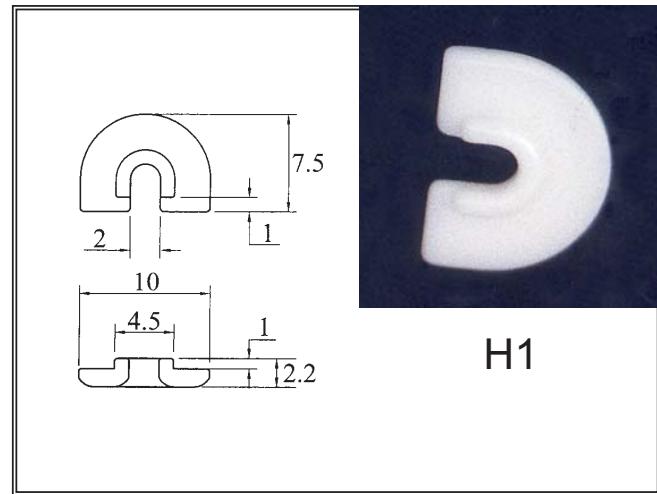
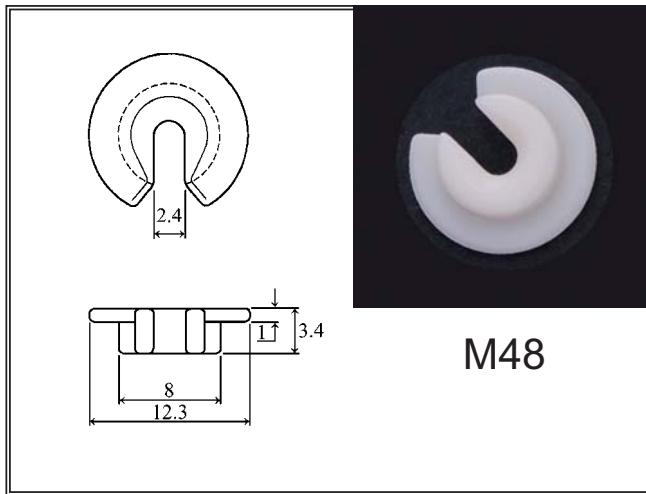
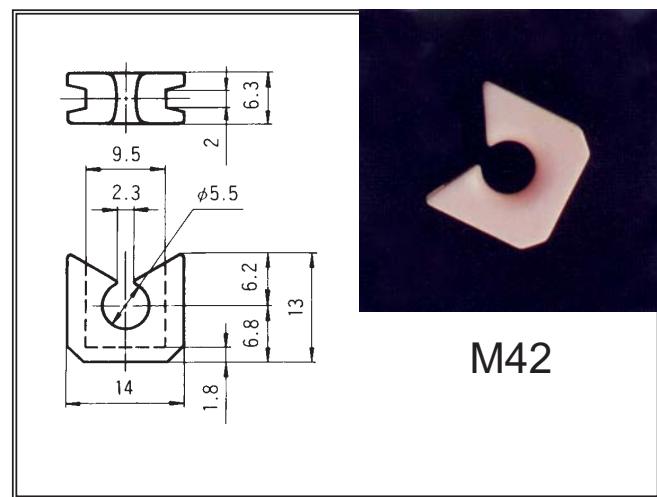
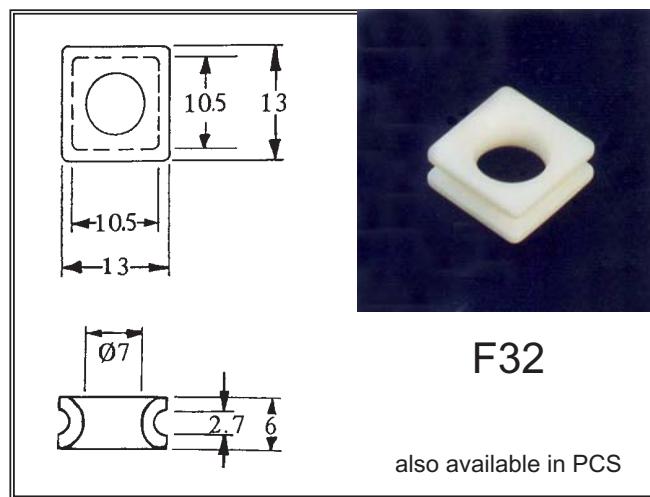
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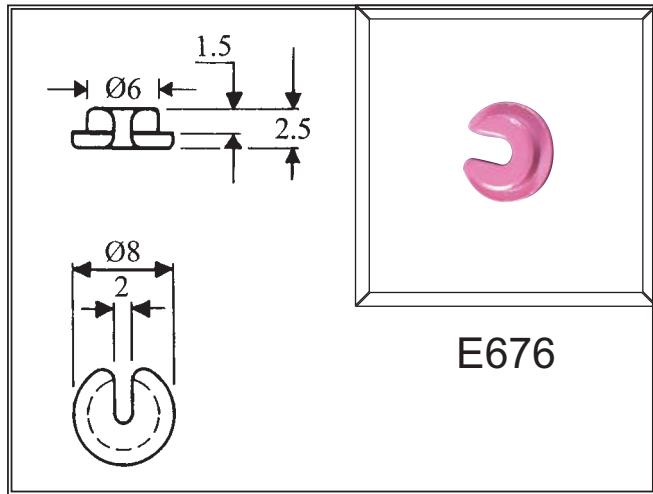
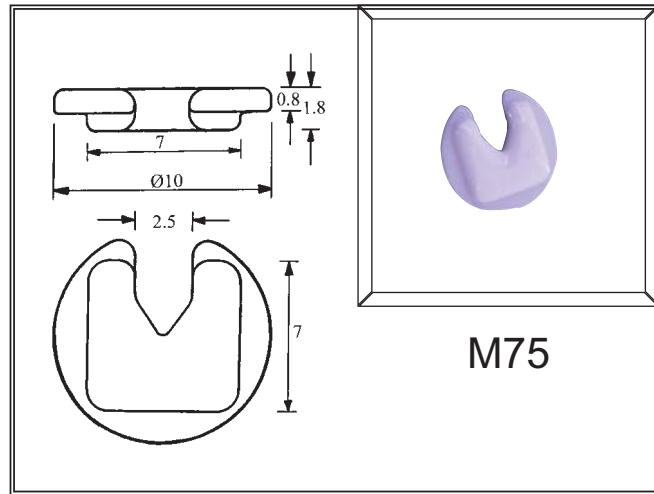
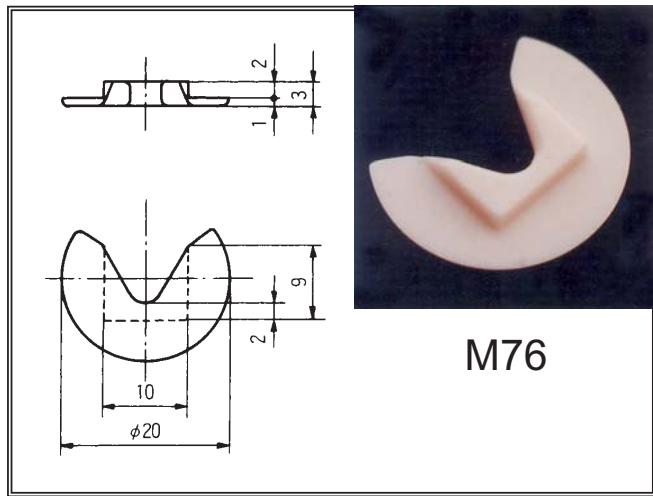
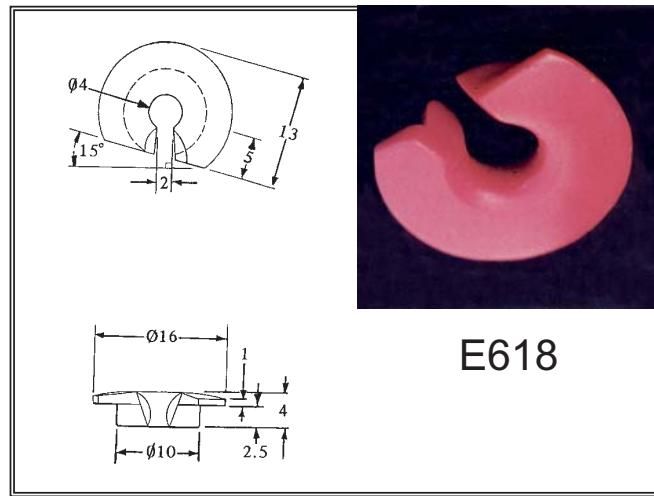
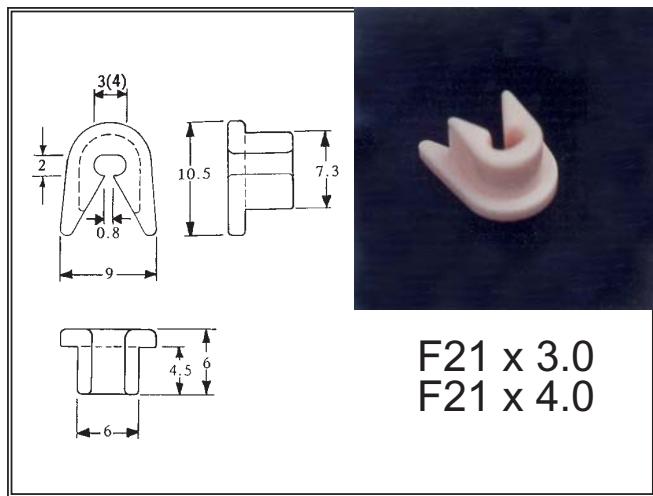
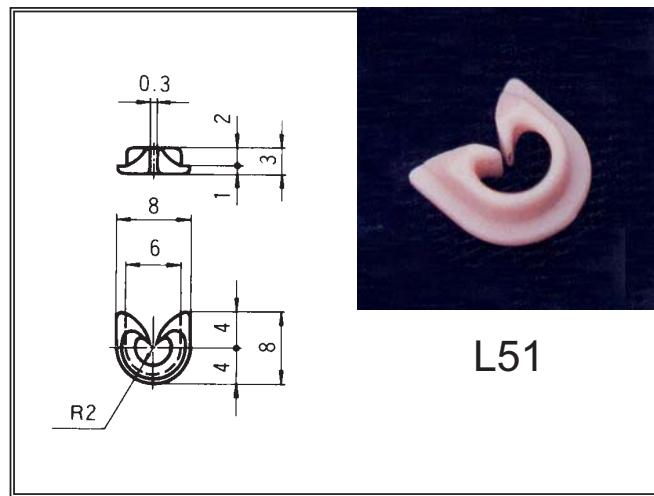
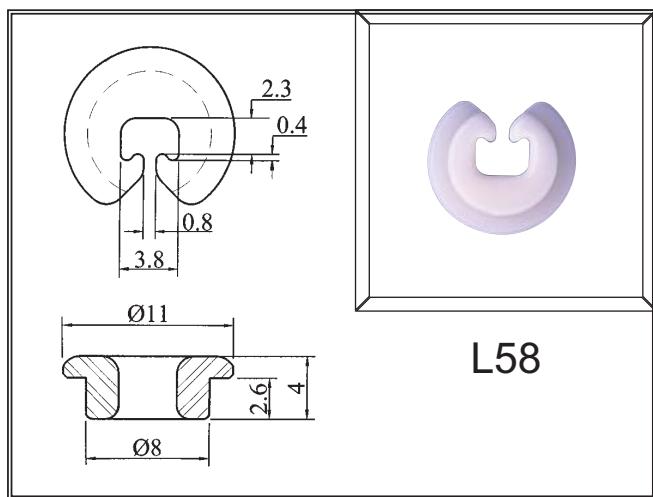
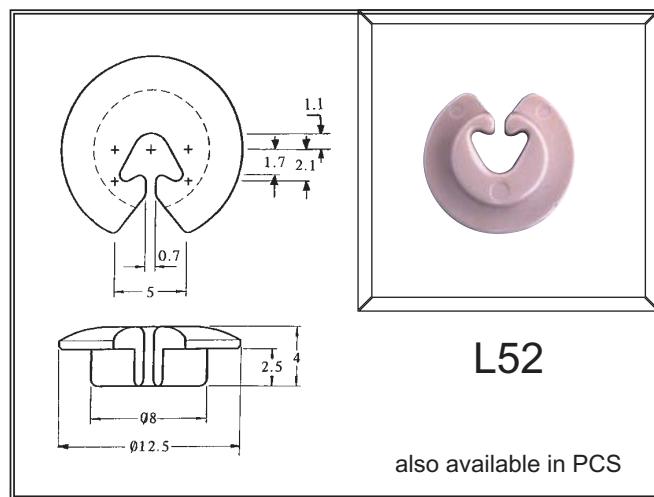


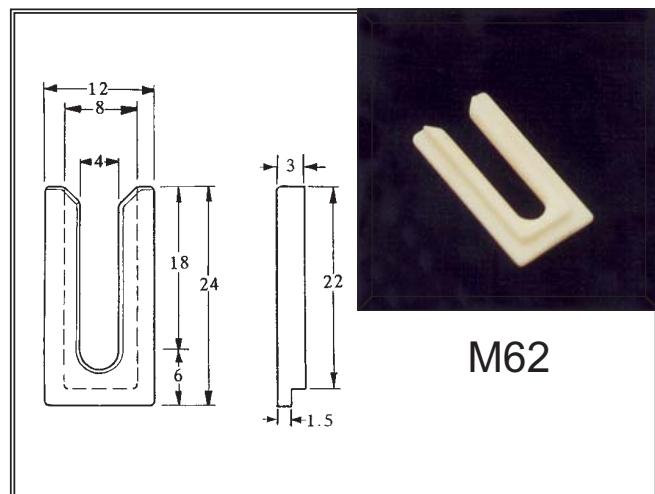
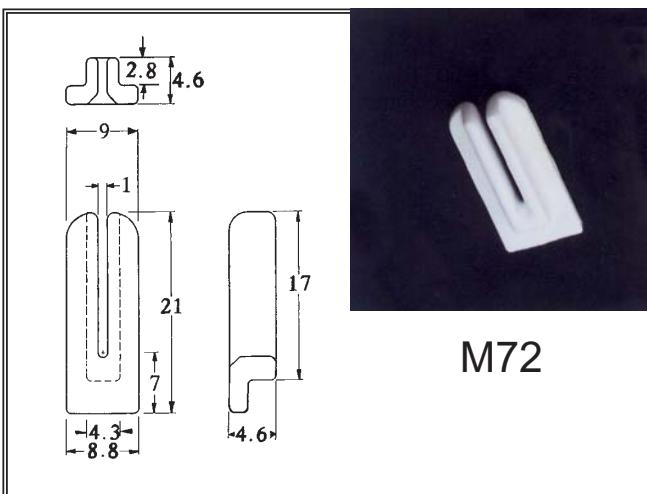
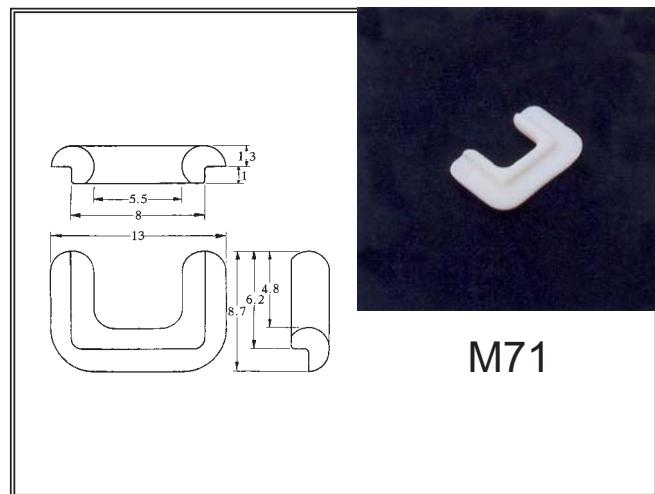
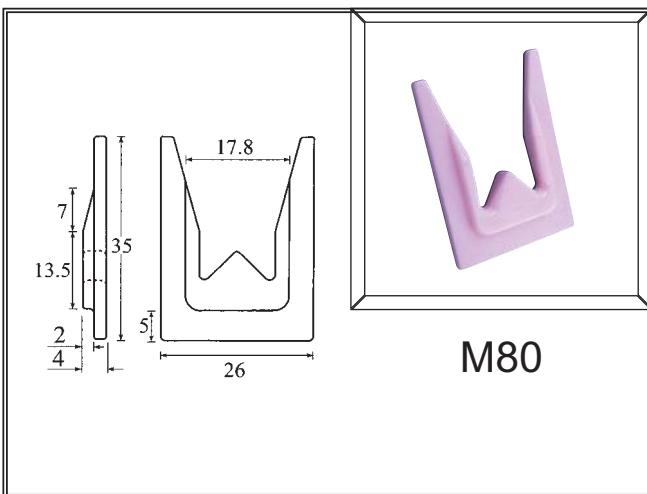
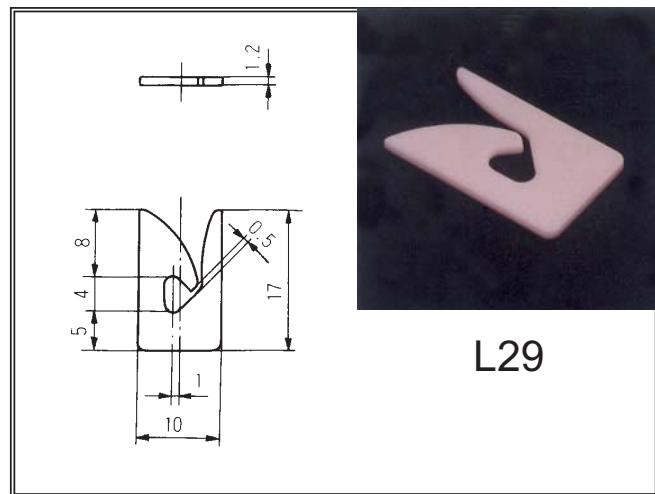
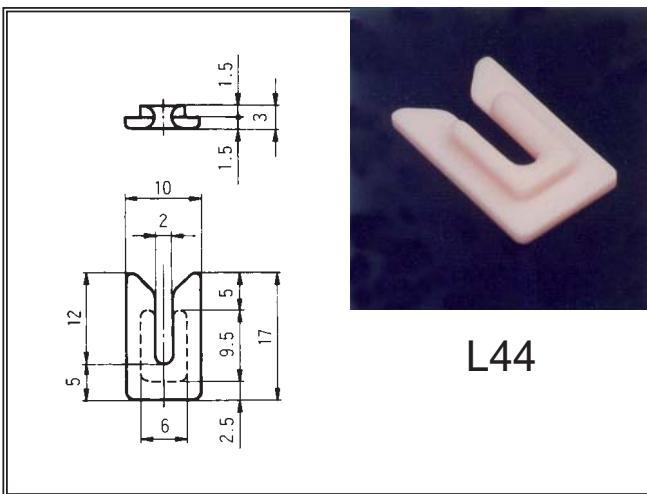
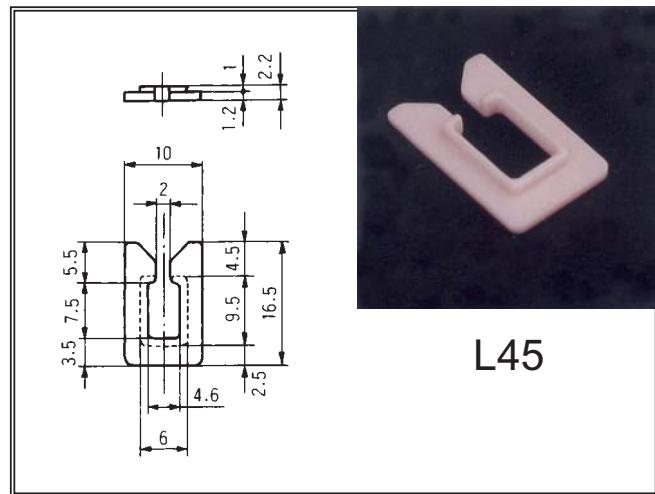
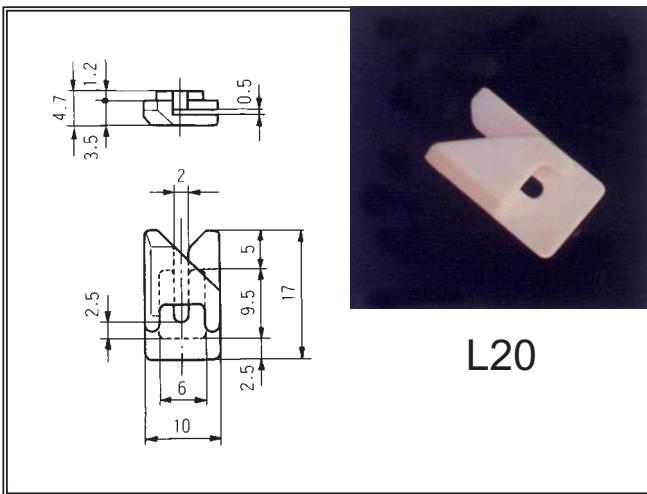
M44



M45



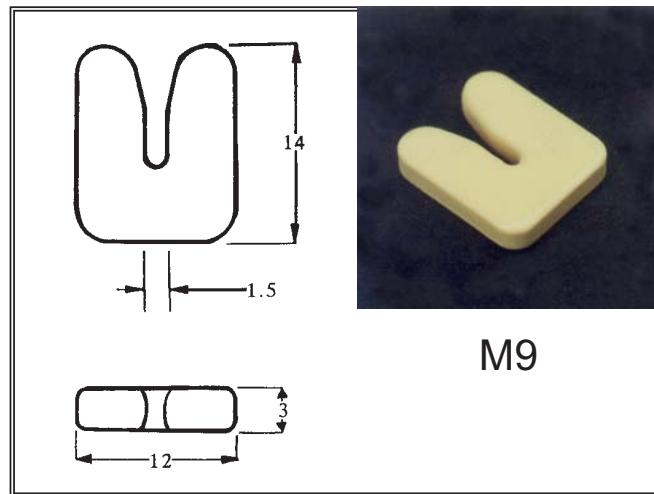




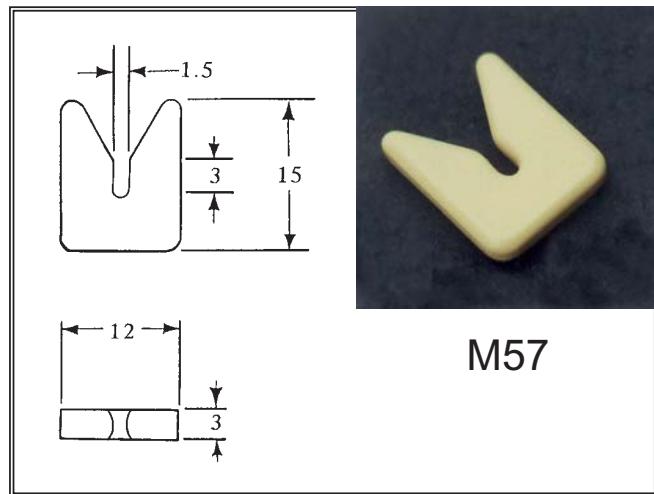
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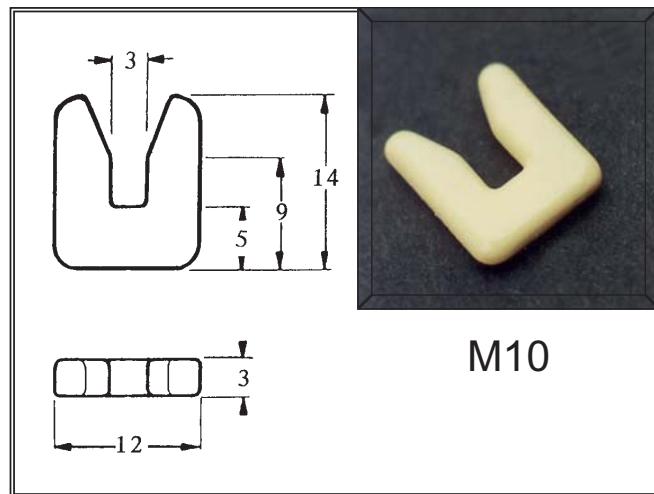
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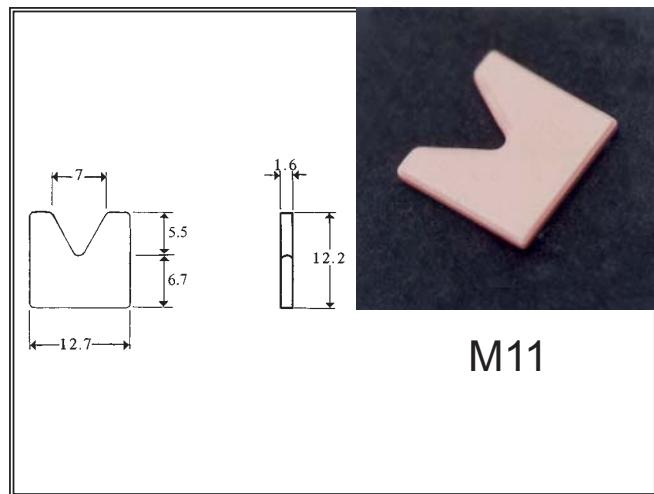
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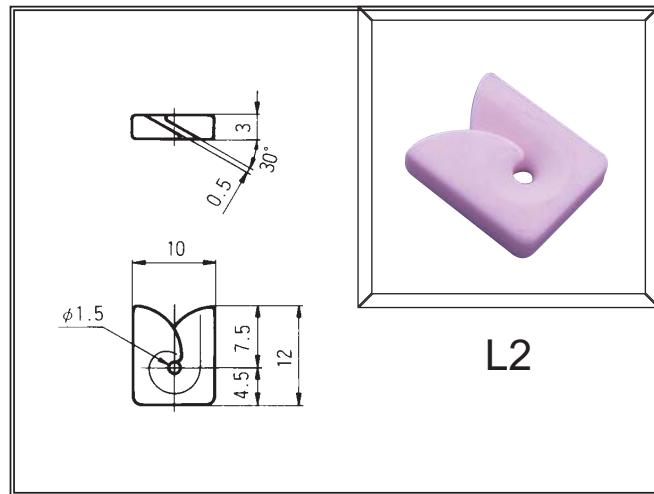
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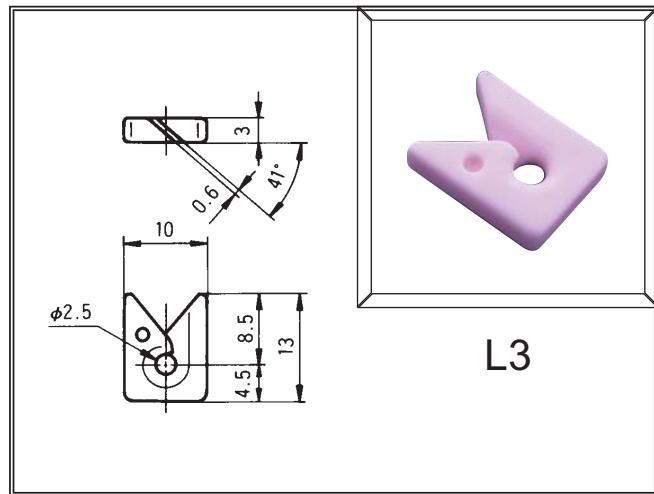
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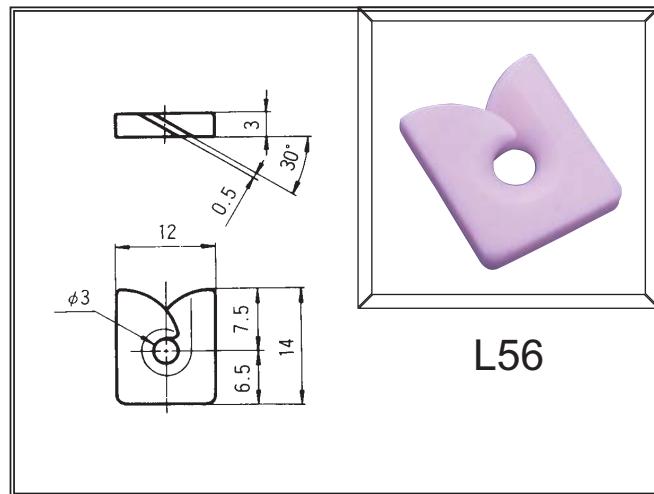
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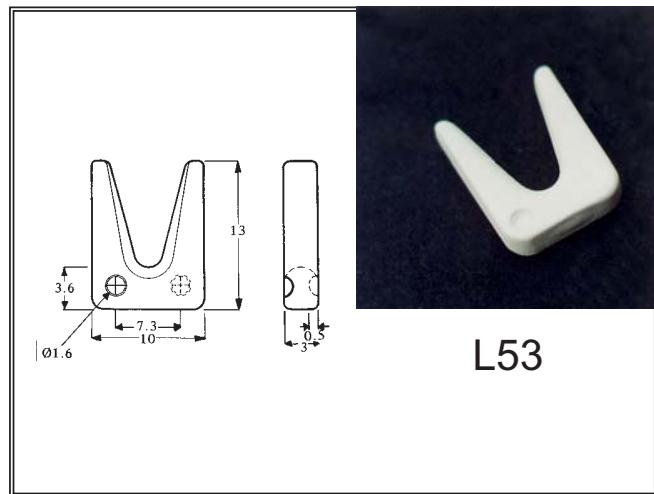
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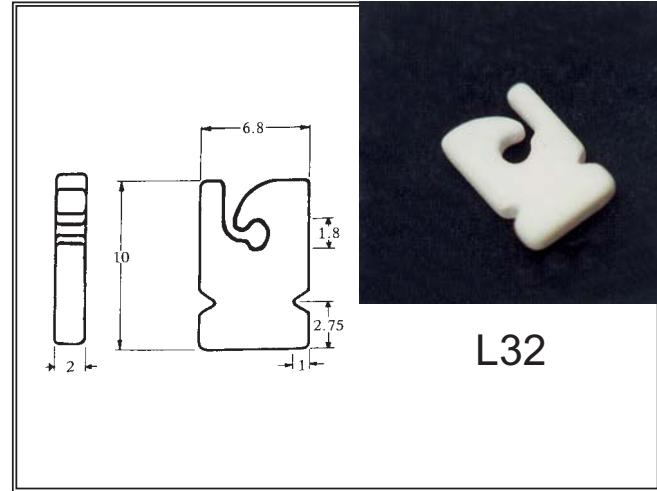
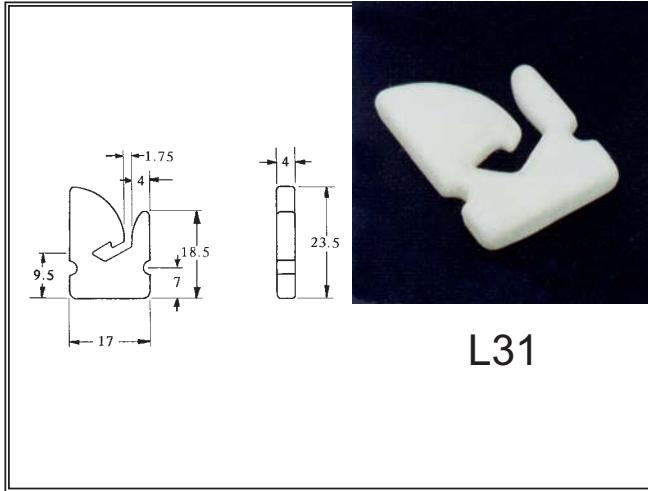
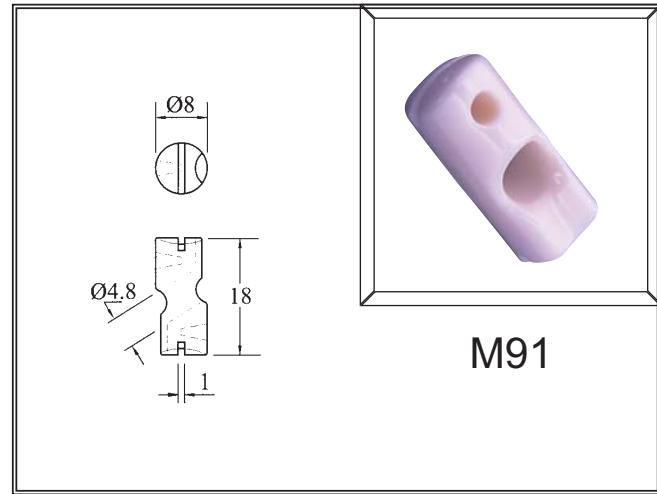
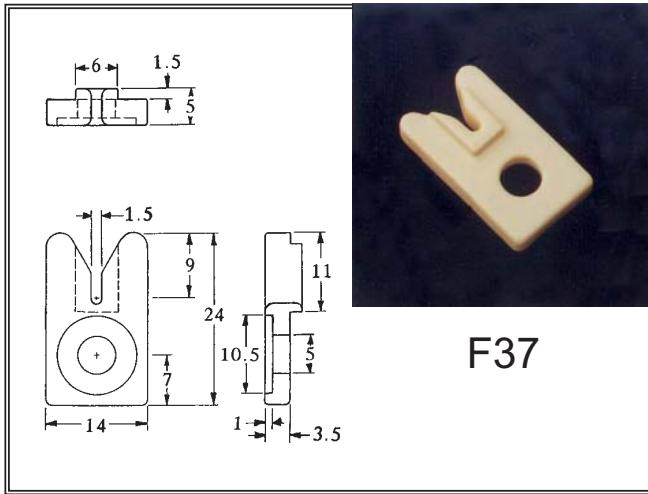
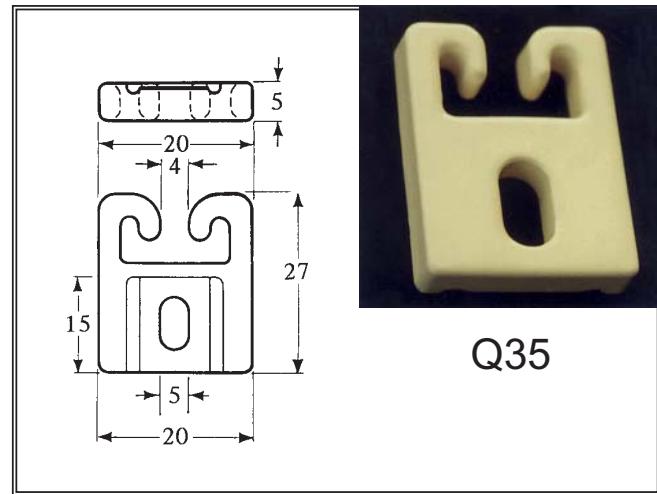
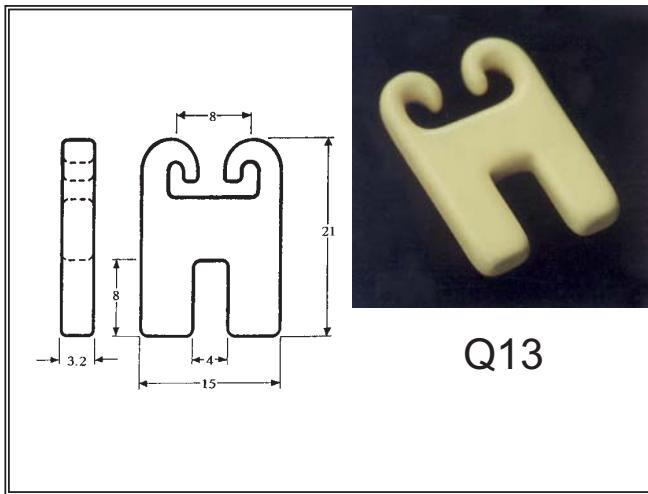
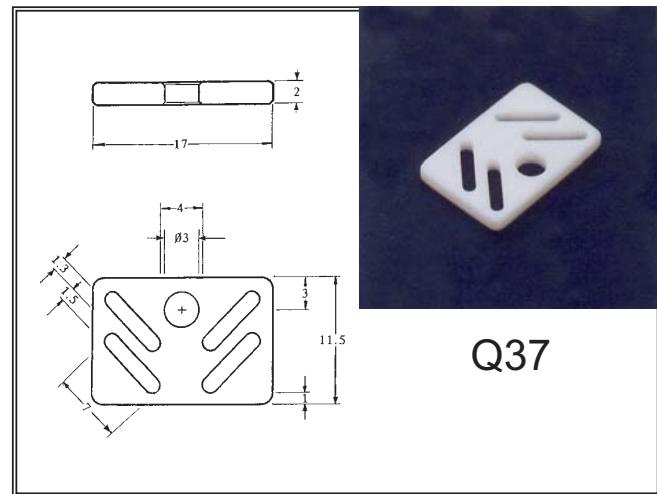
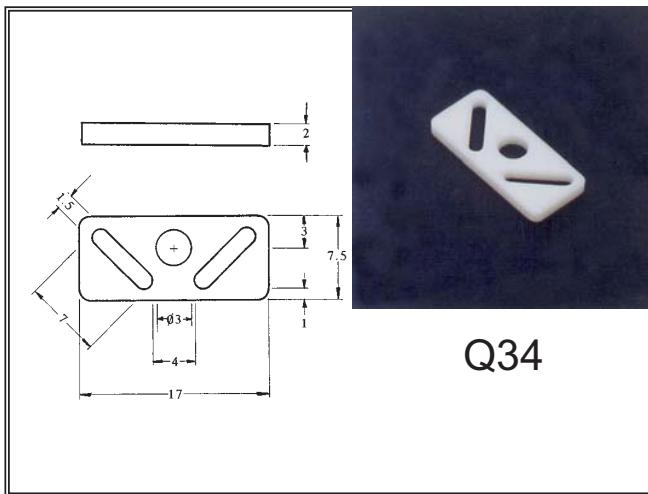
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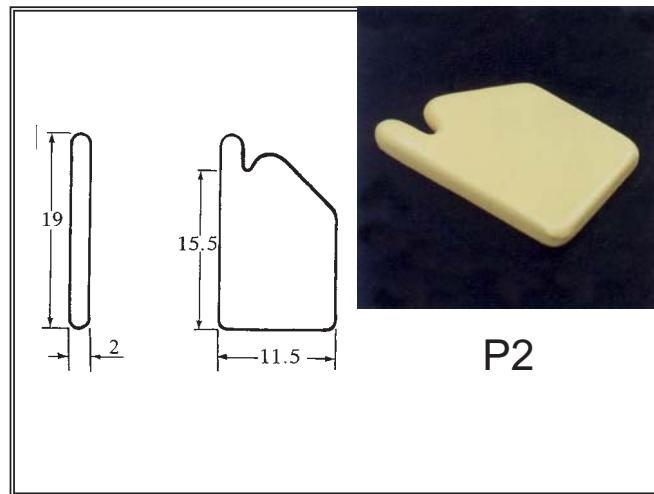


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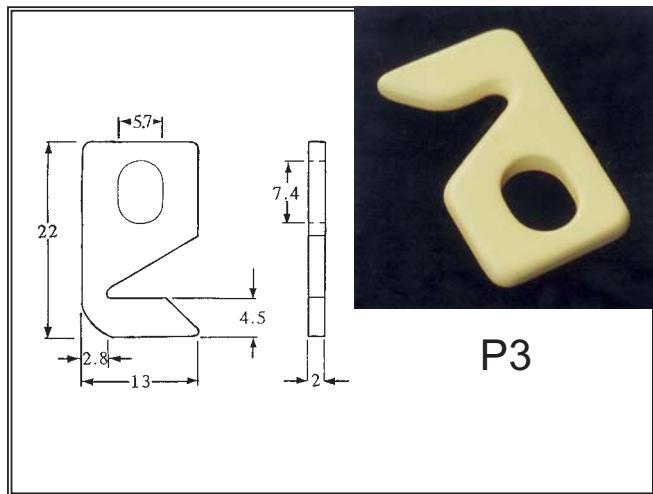


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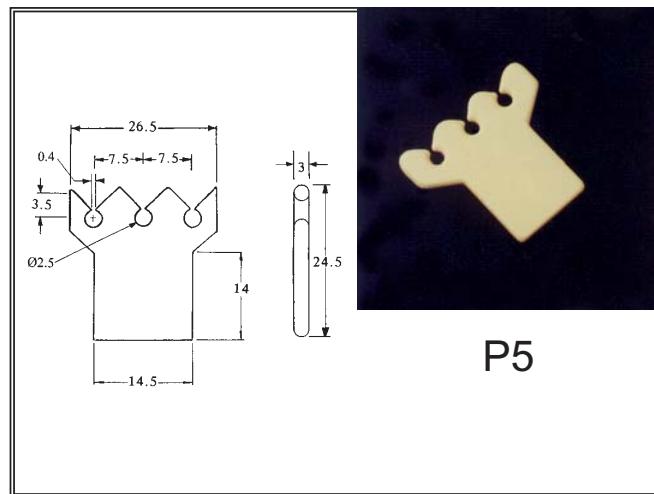




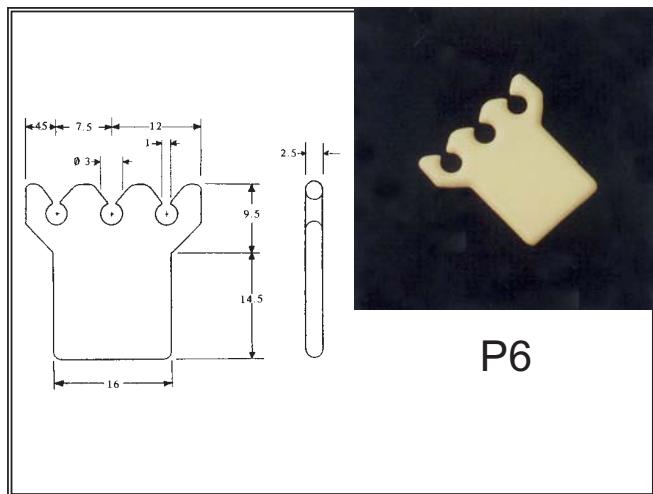
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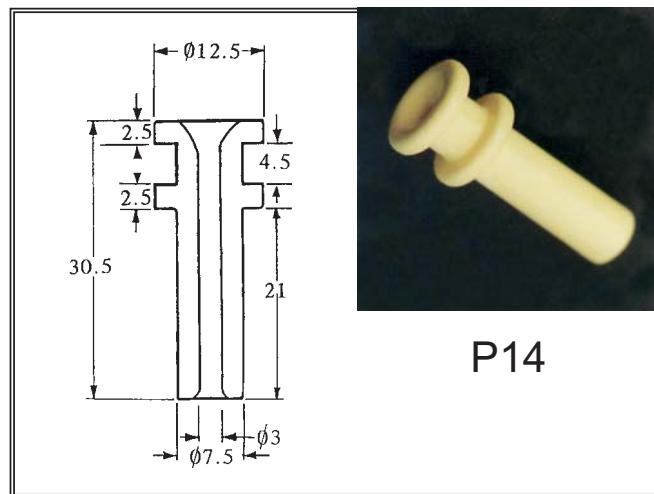
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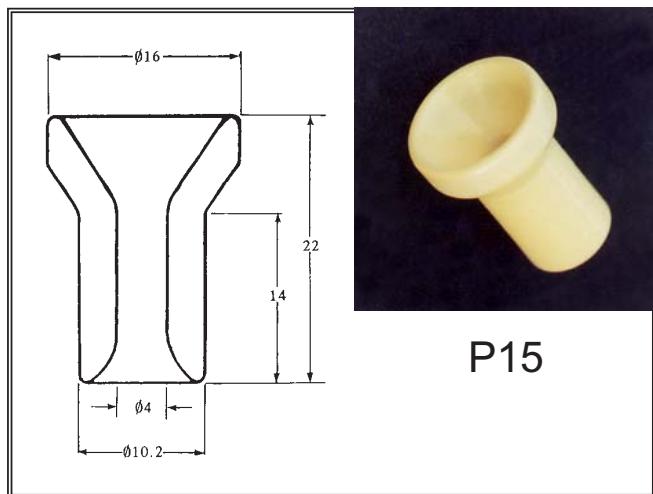
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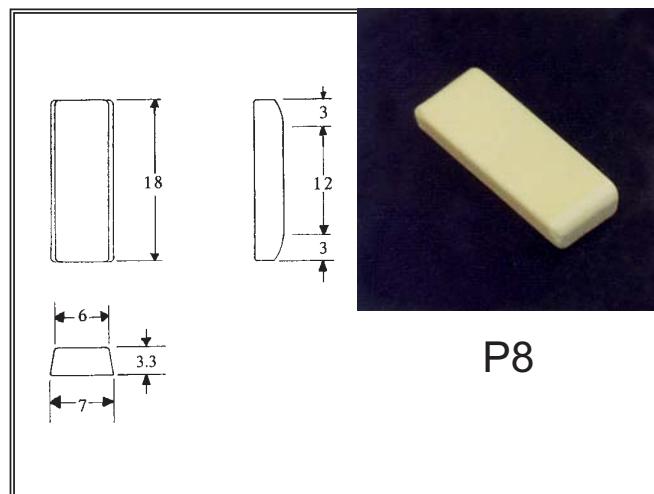
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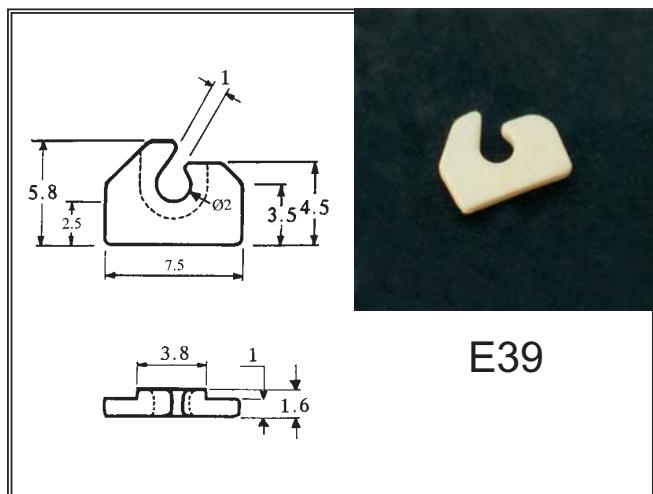
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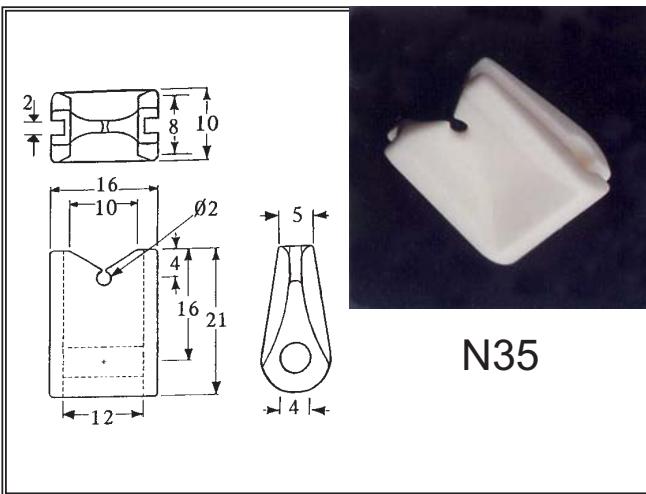
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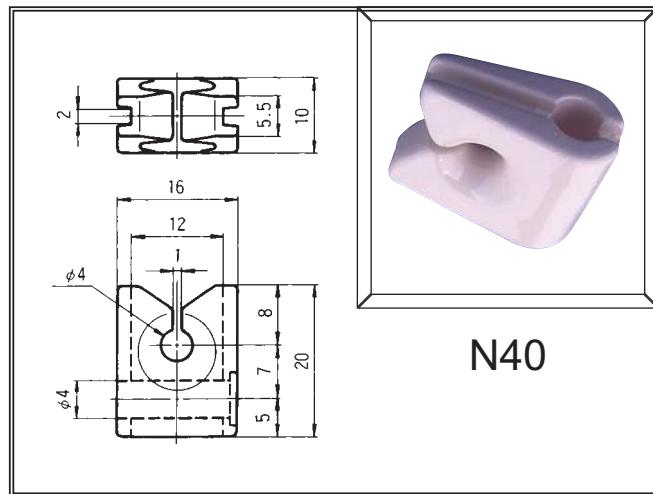
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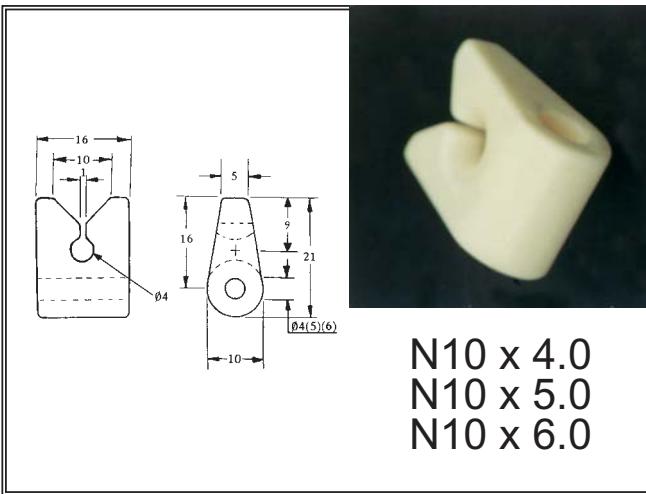
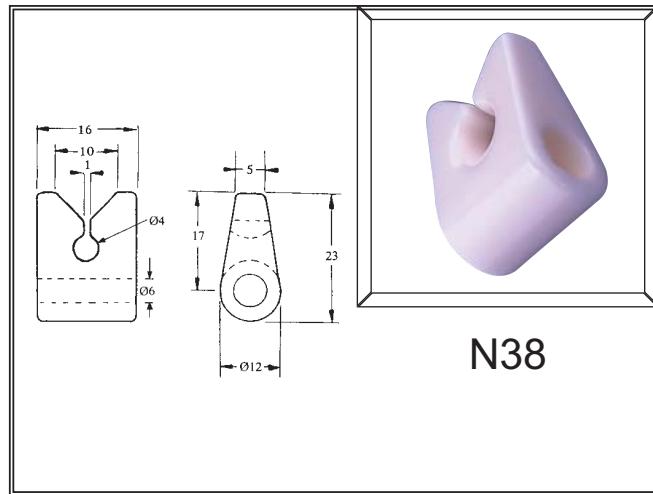
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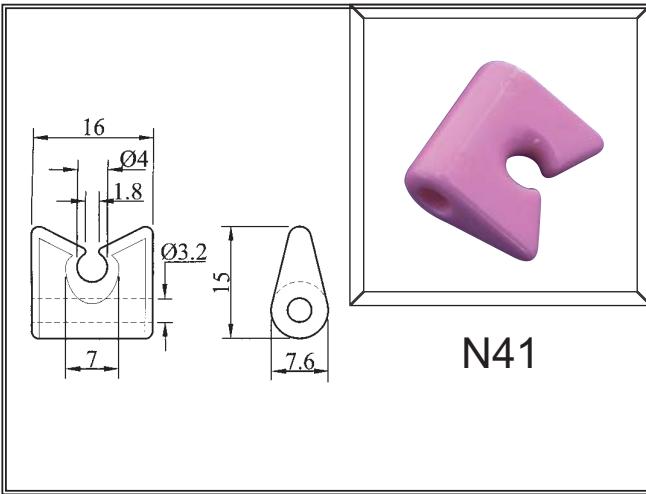
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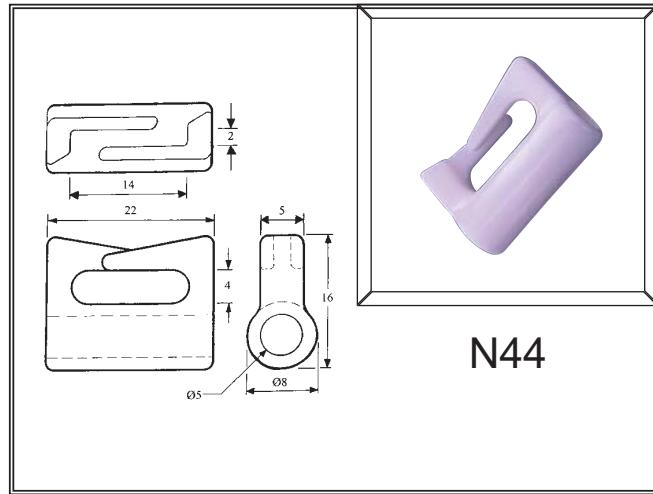
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N10 x 4.0
N10 x 5.0
N10 x 6.0

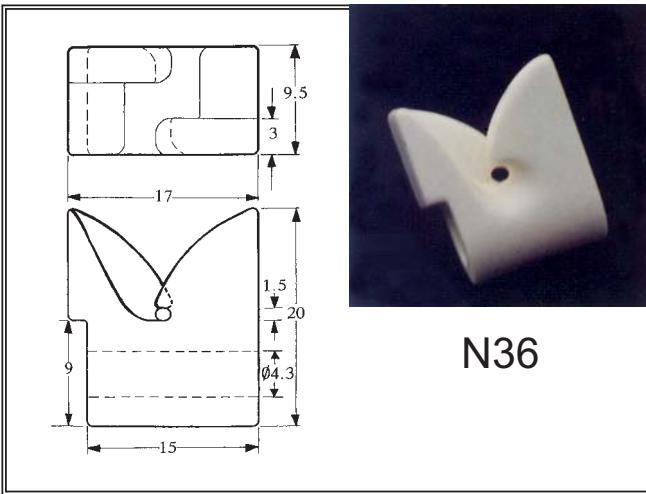
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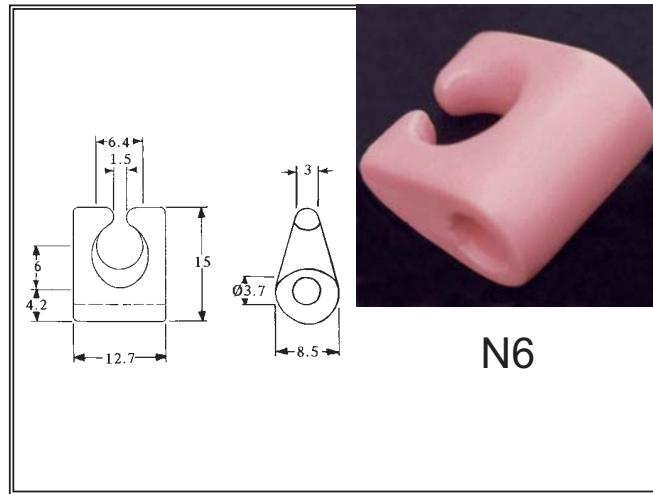
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N44



N36



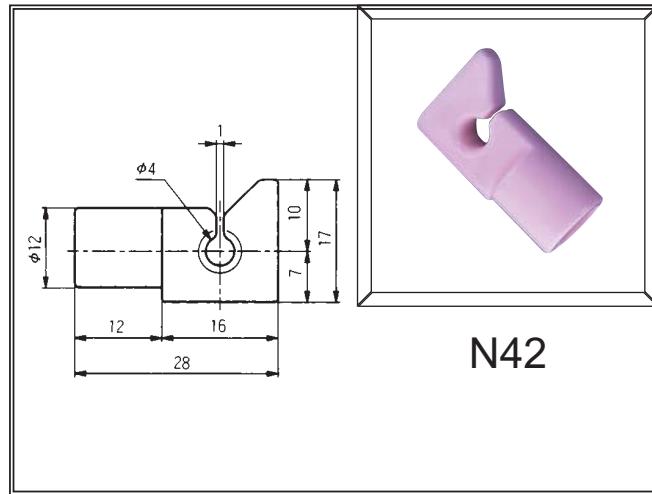
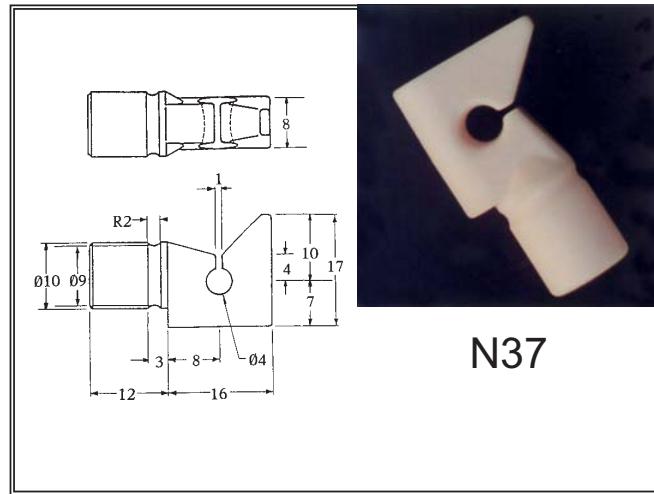
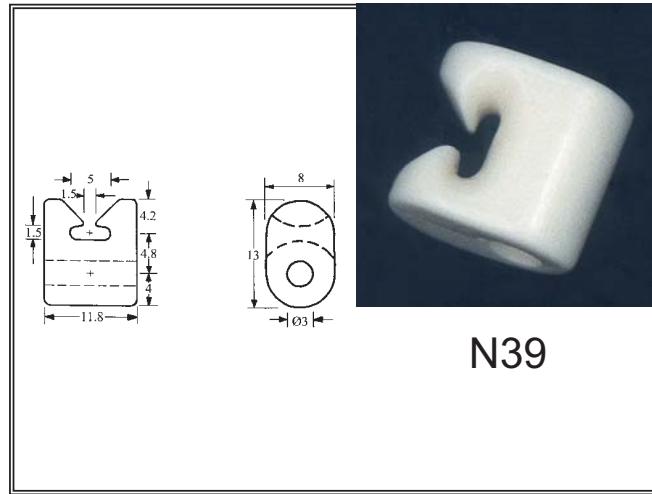
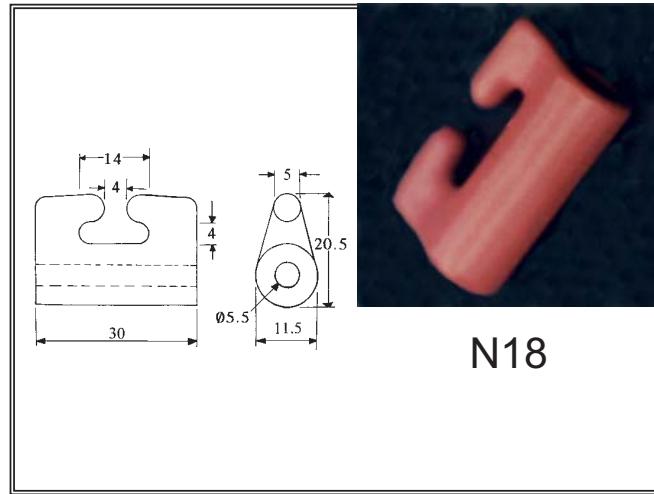
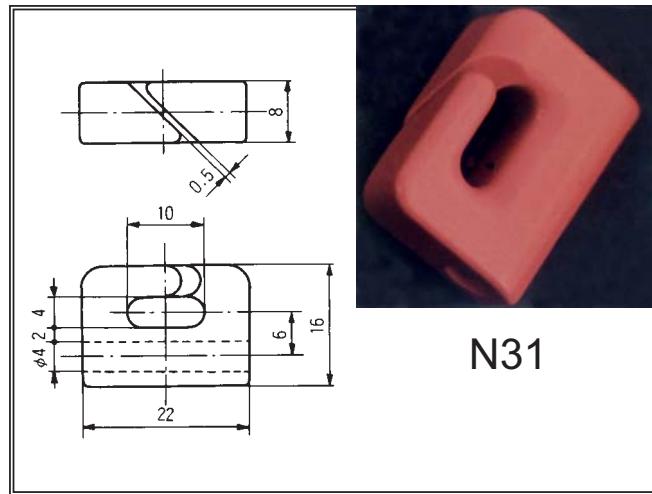
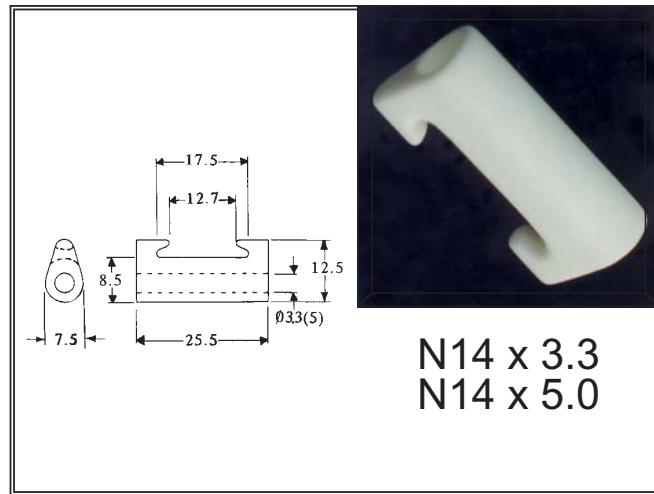
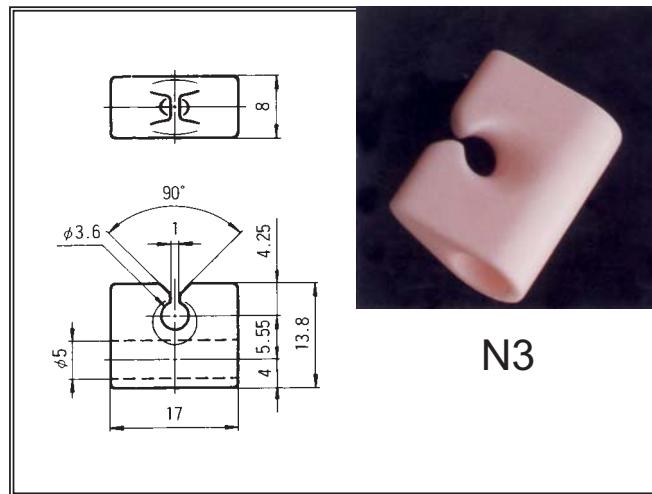
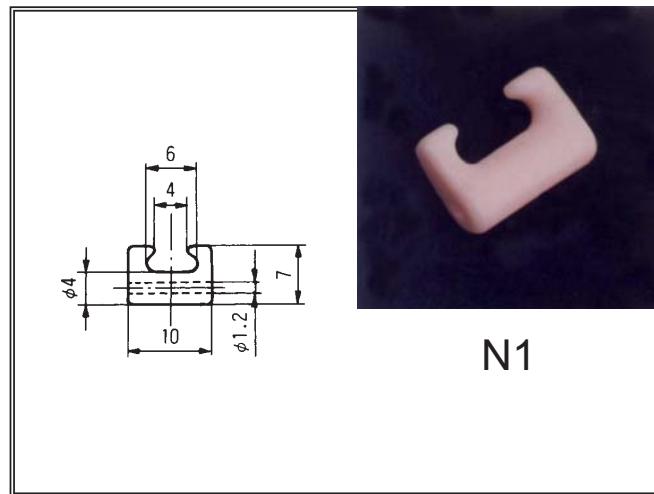
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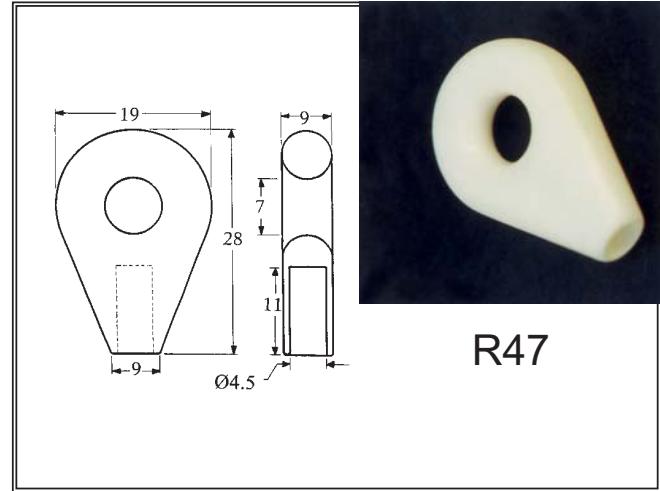
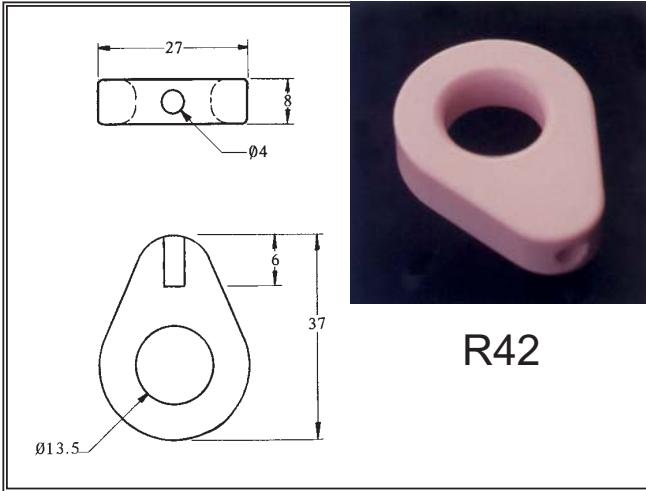
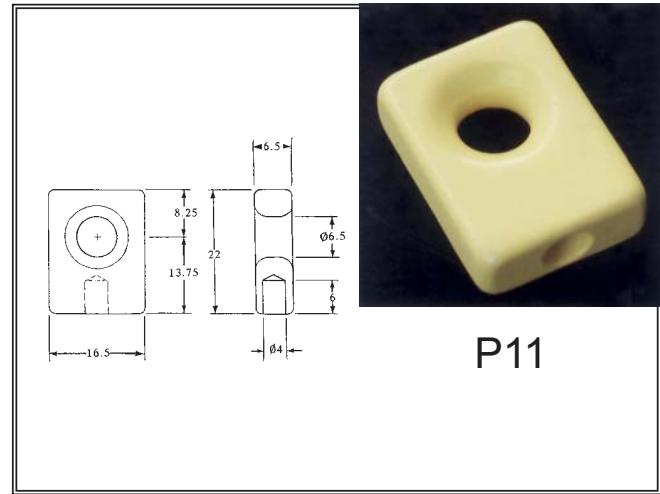
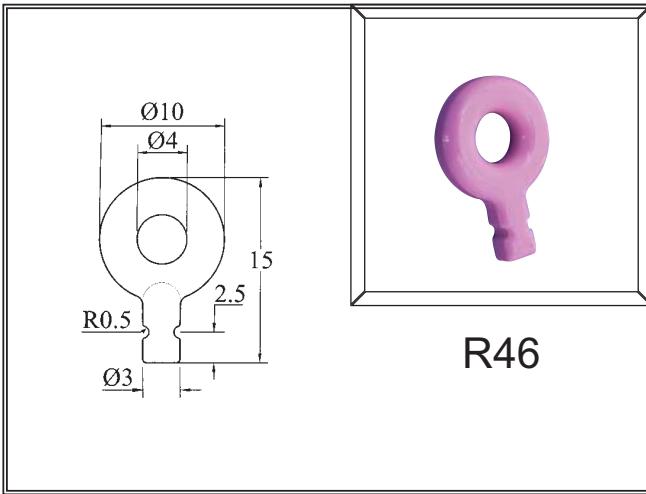
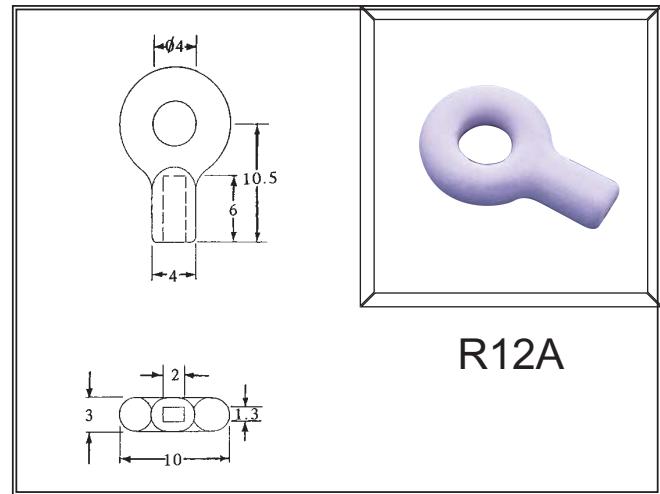
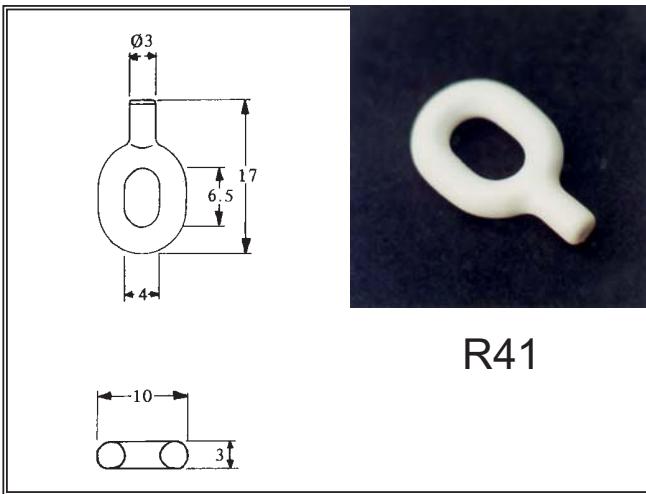
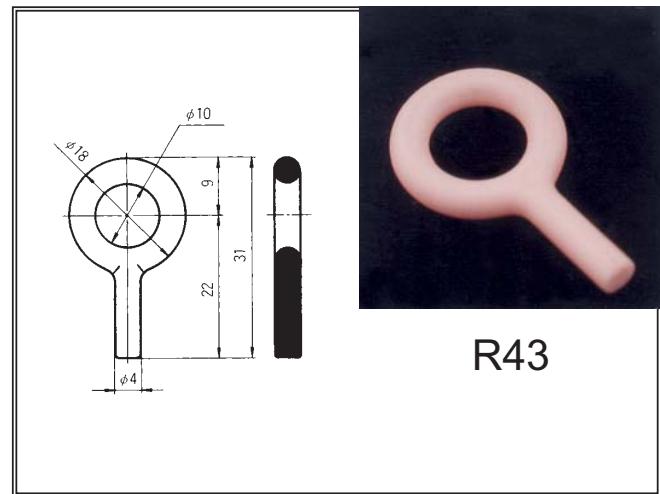
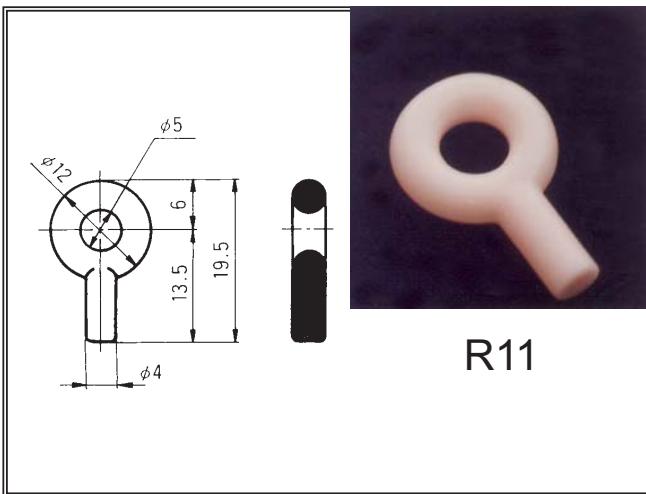


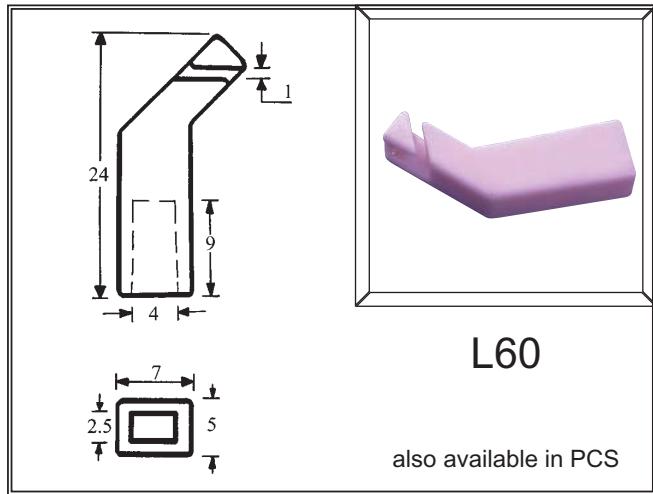
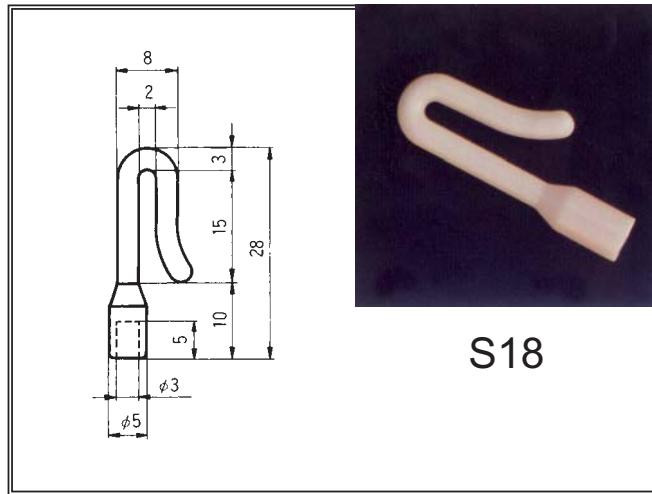
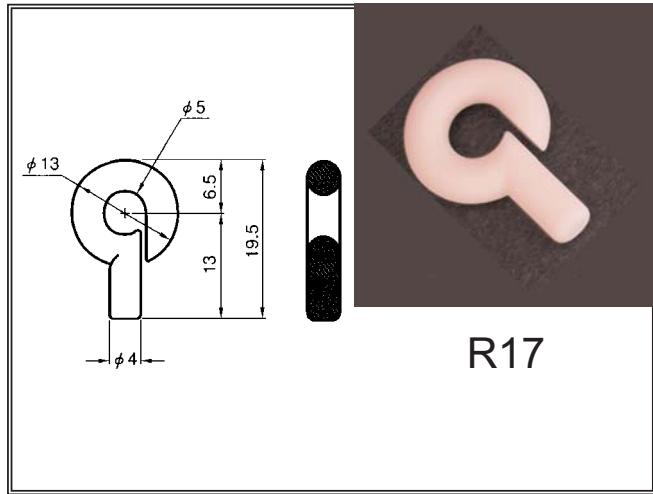
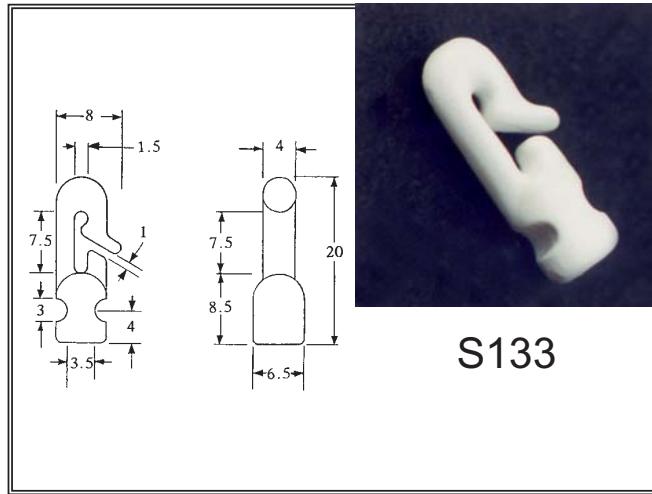
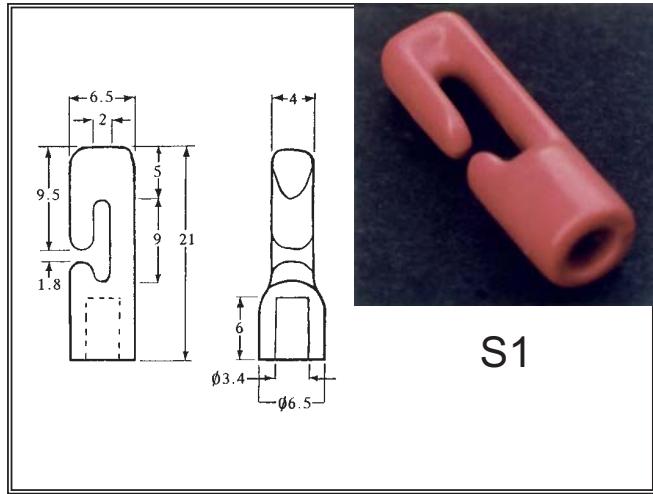
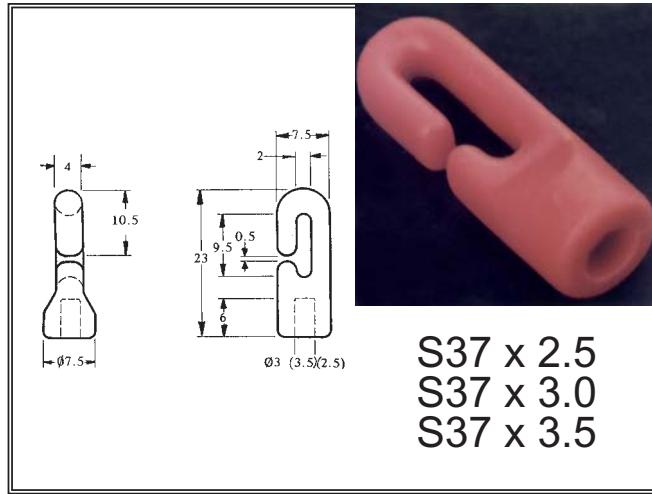
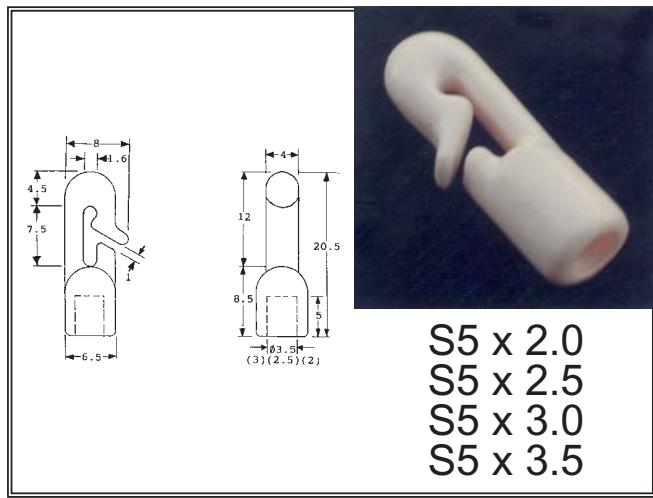
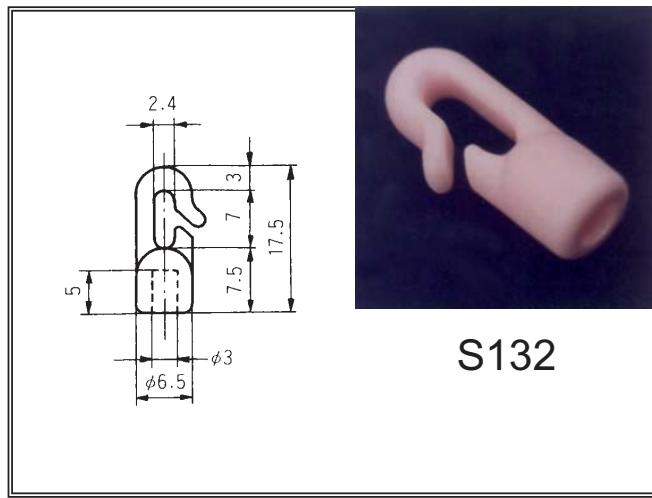
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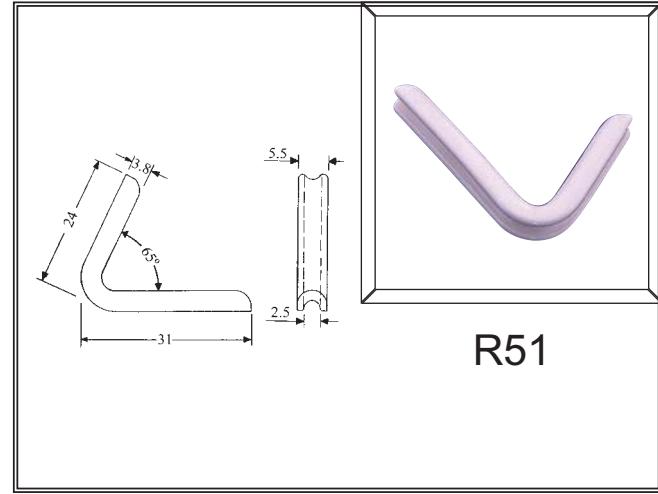
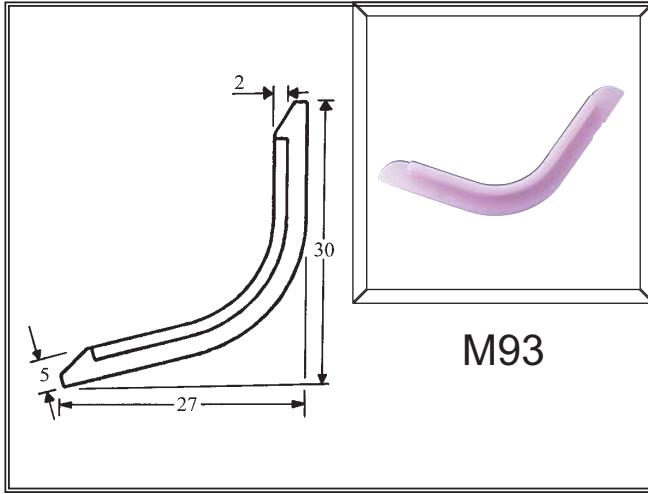
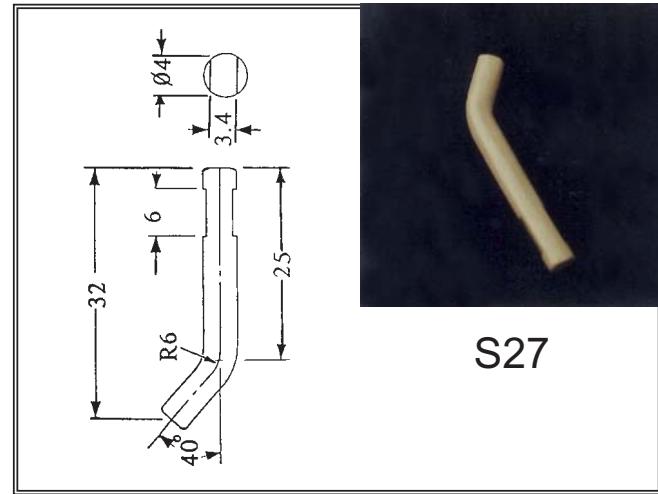
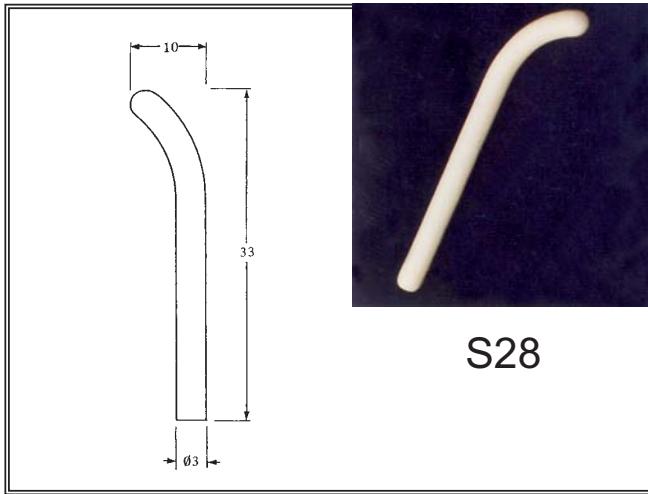
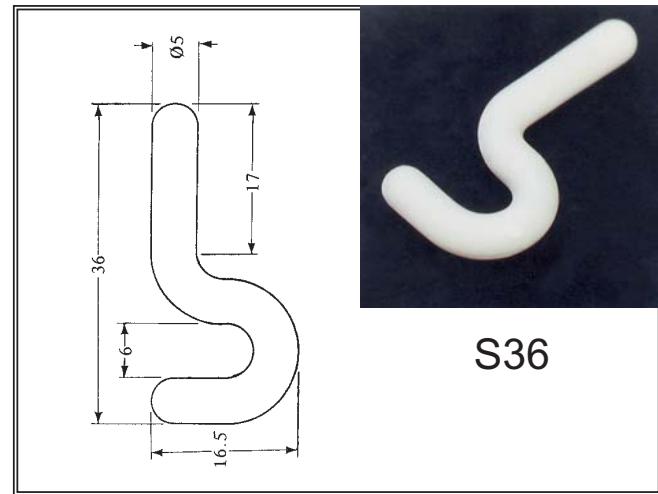
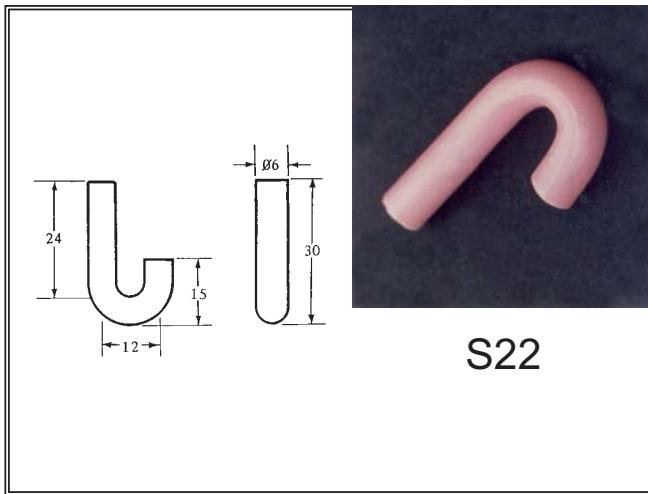
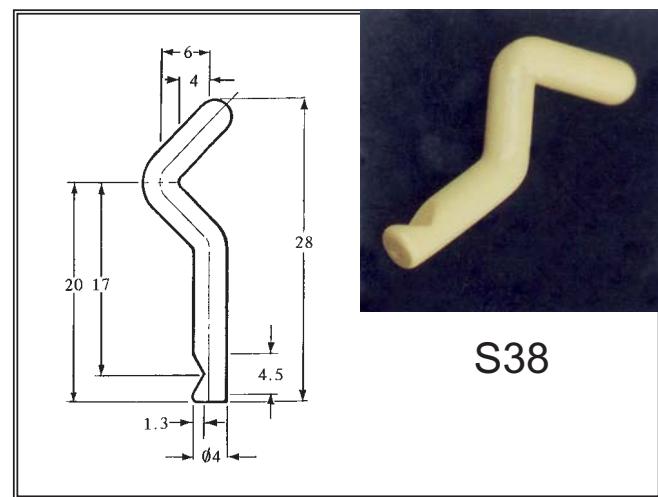
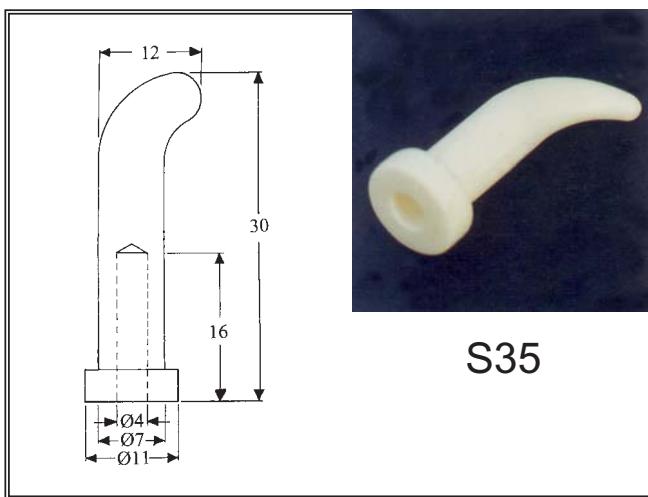


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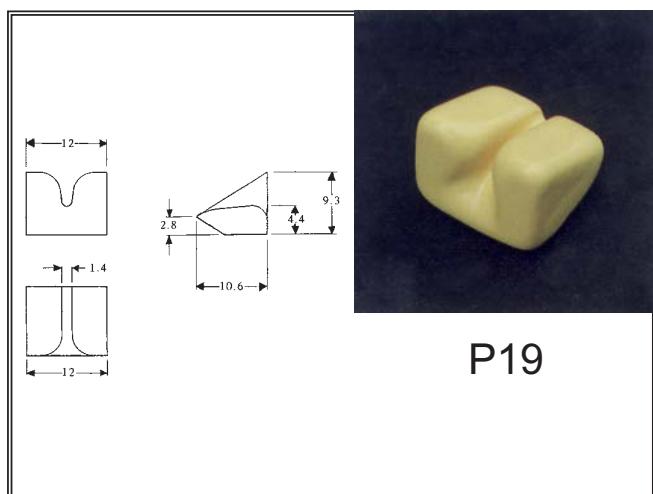
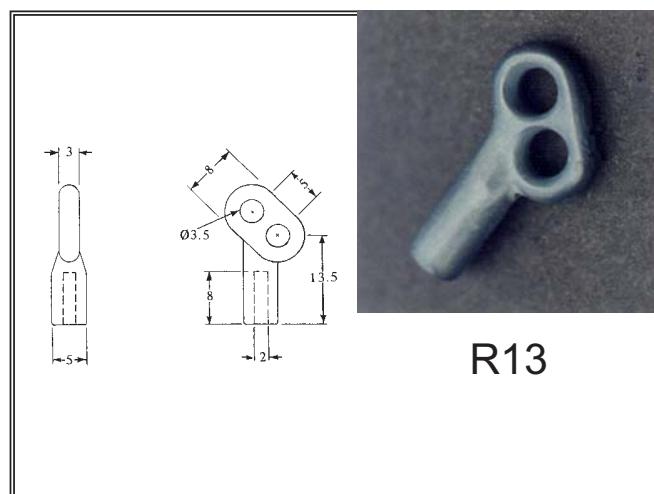
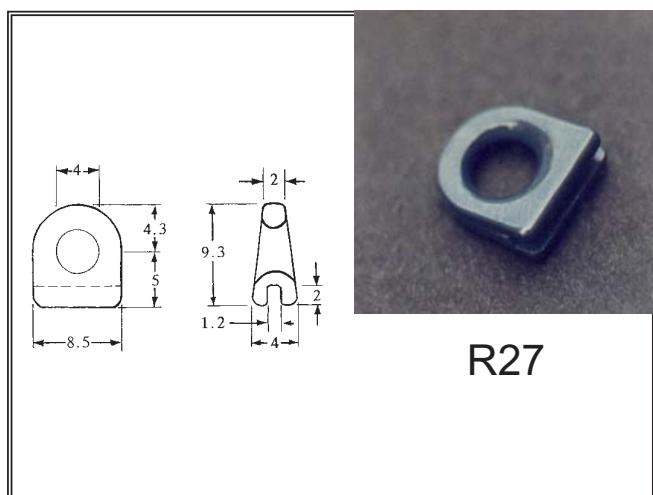
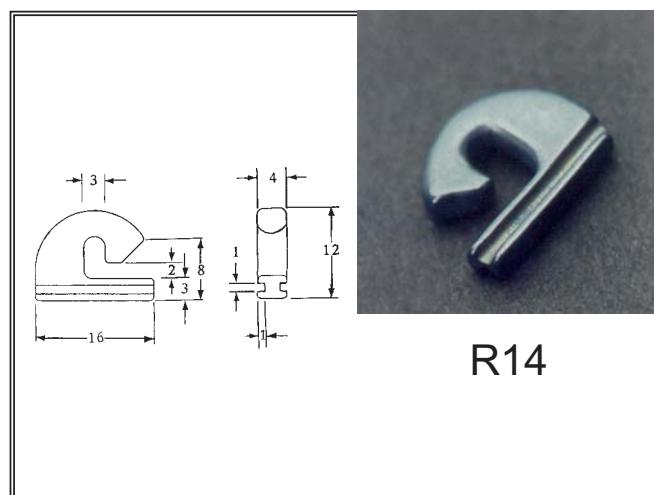
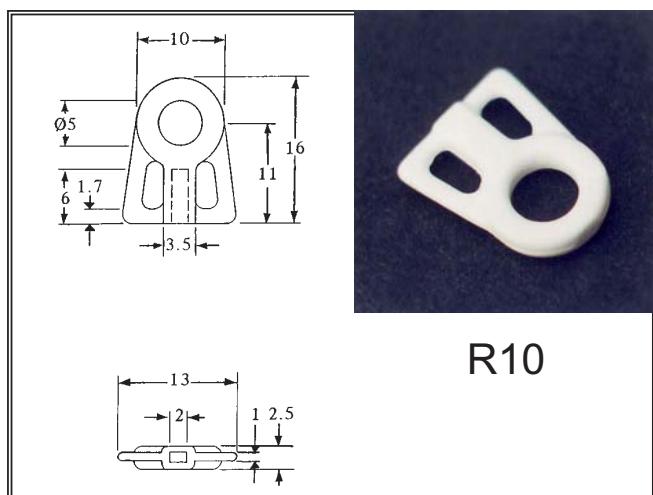
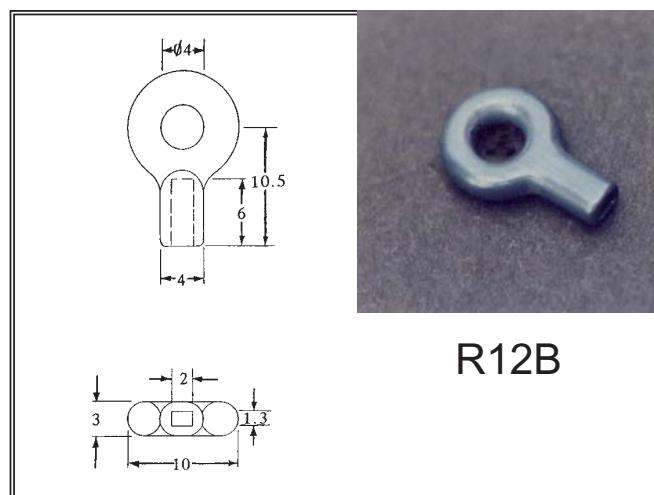
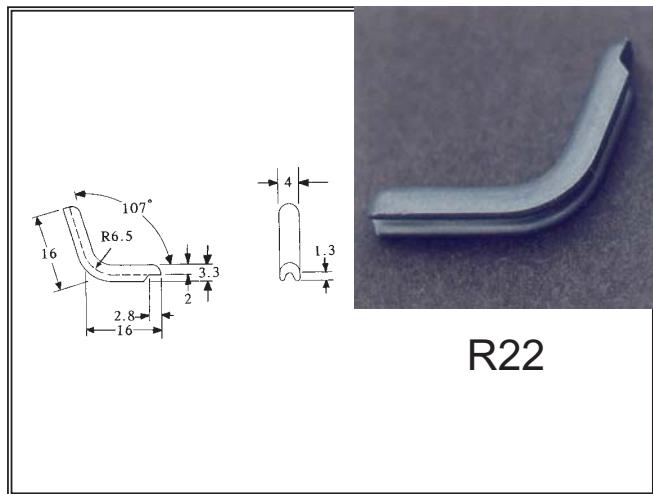
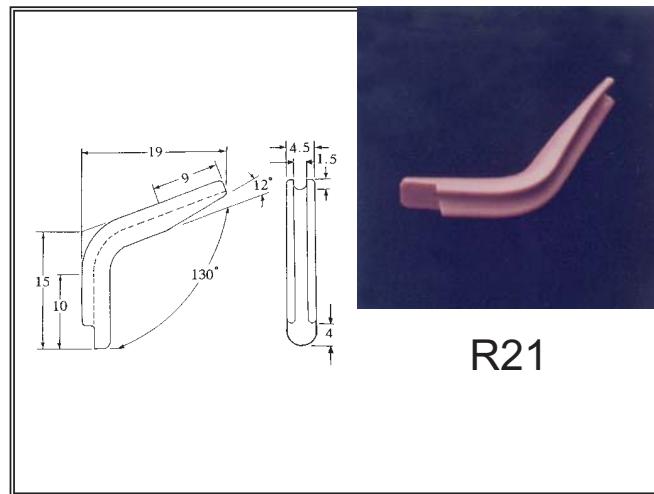


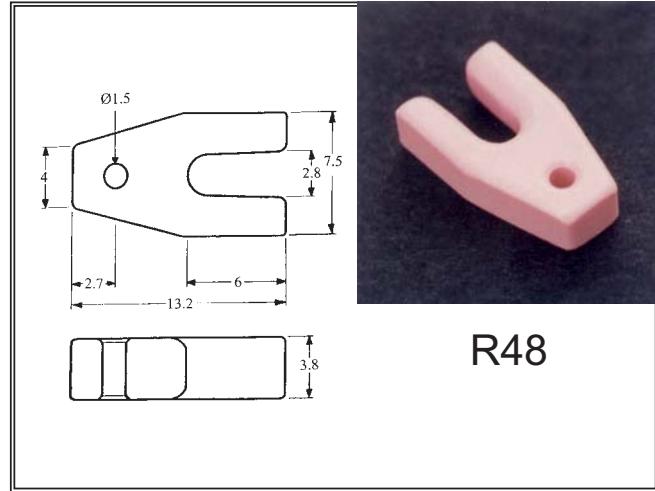
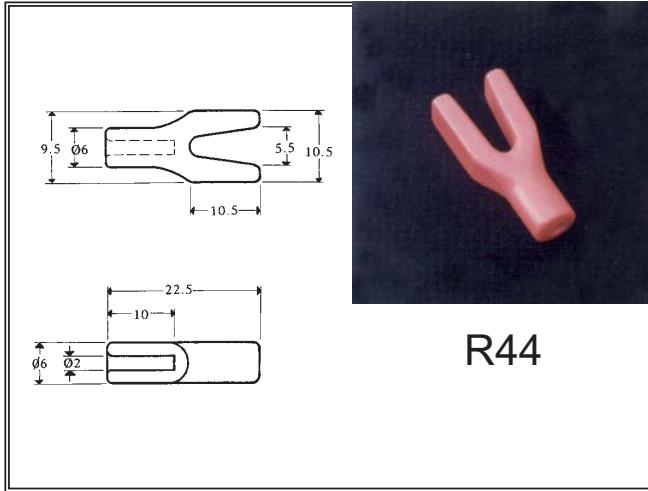
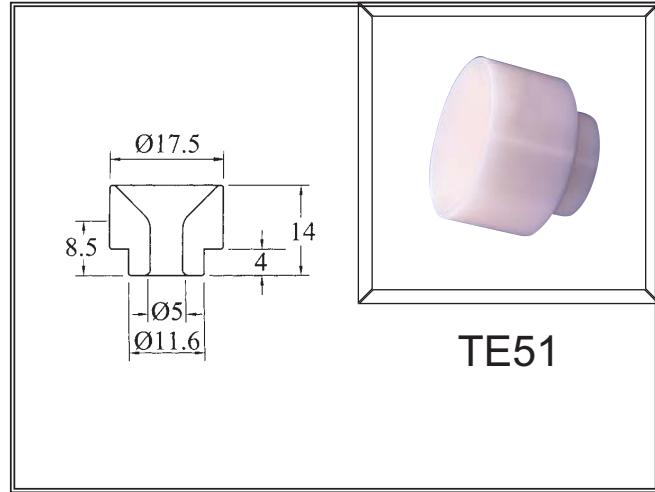
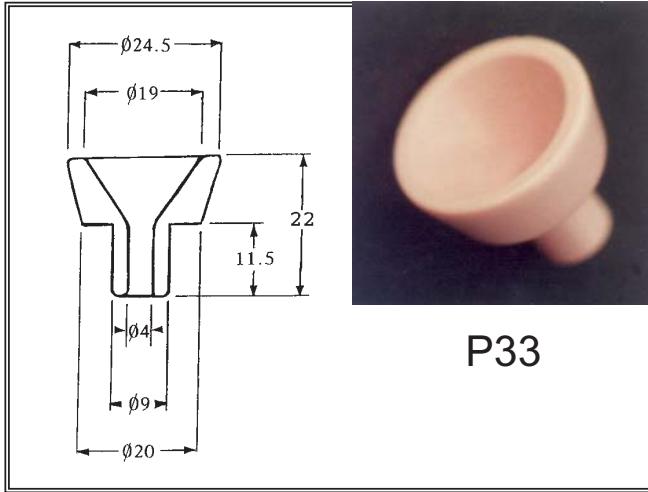
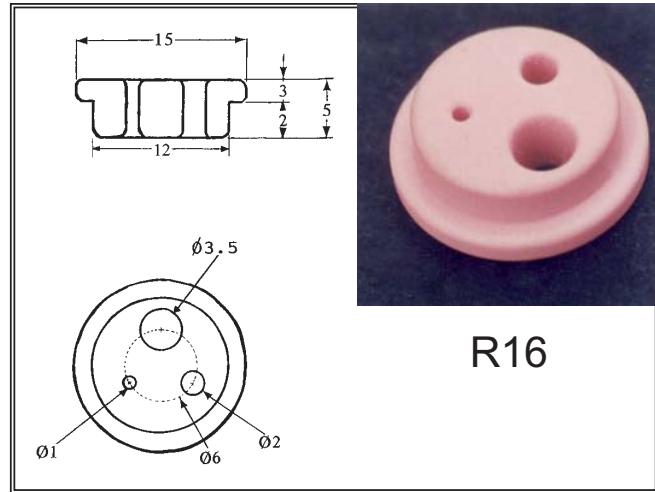
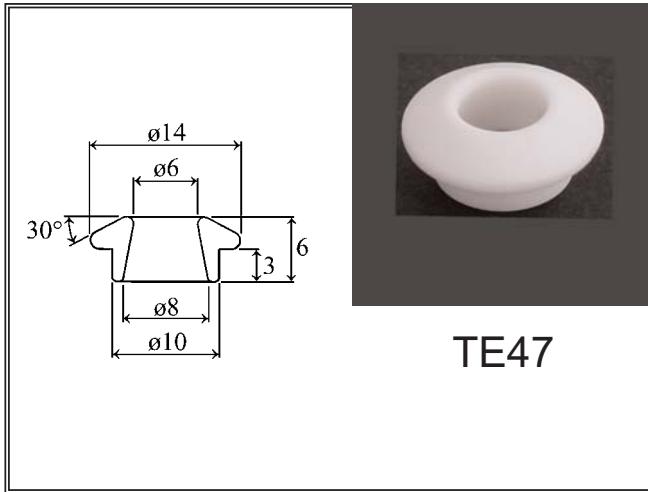
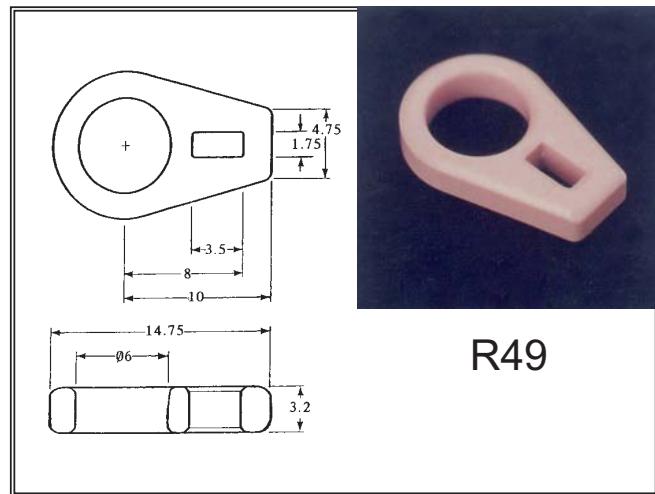
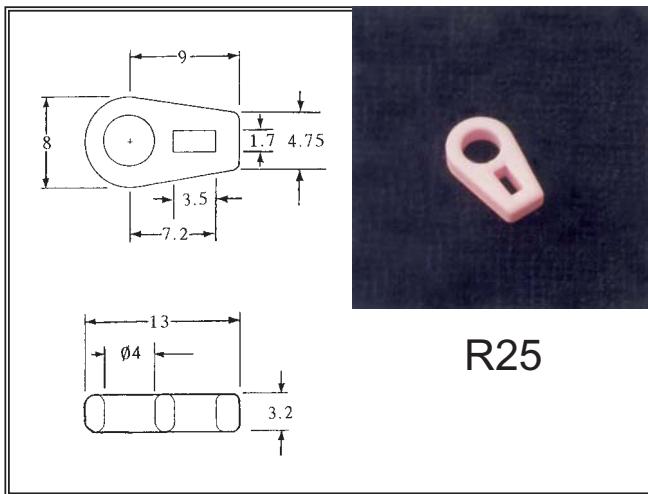


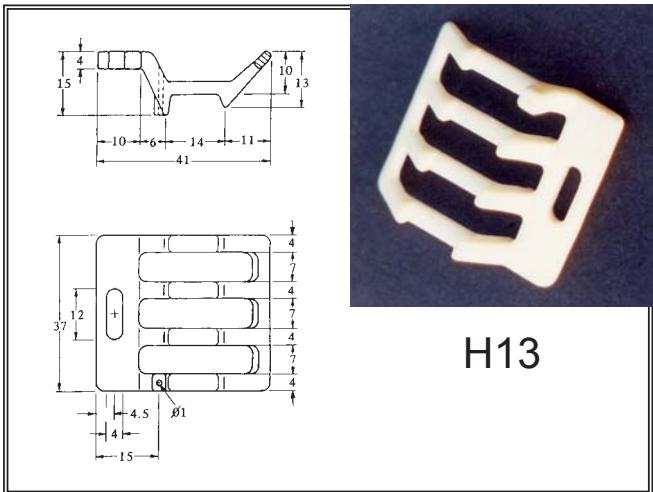
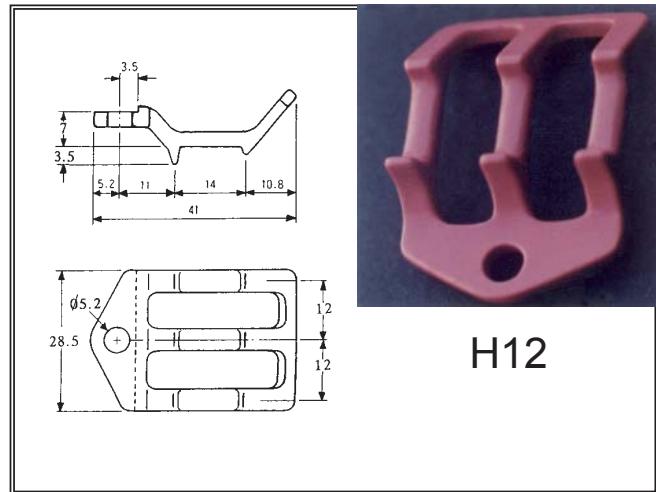
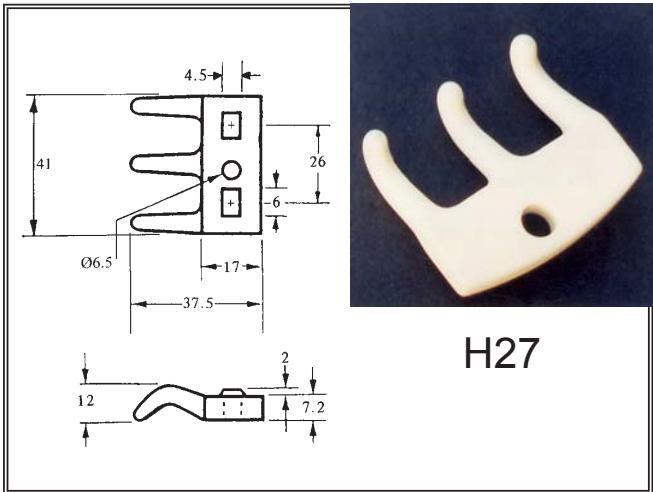
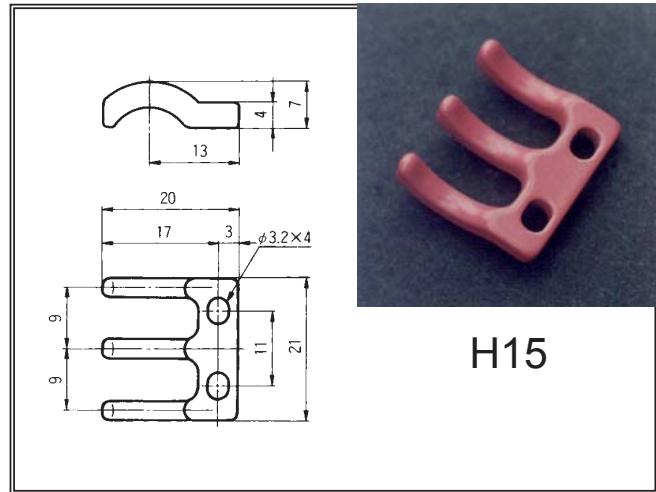
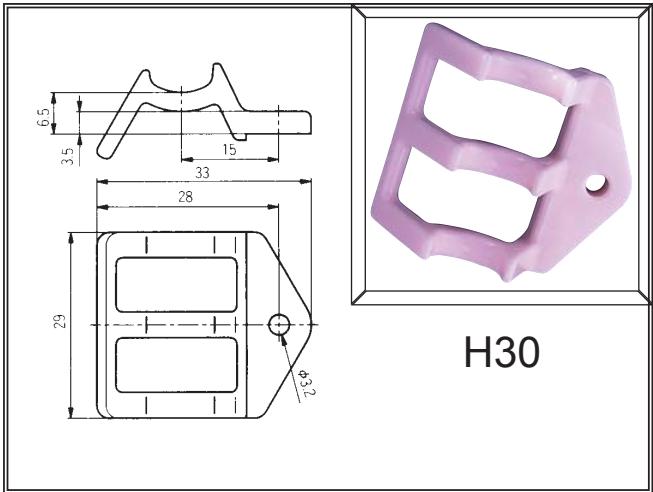
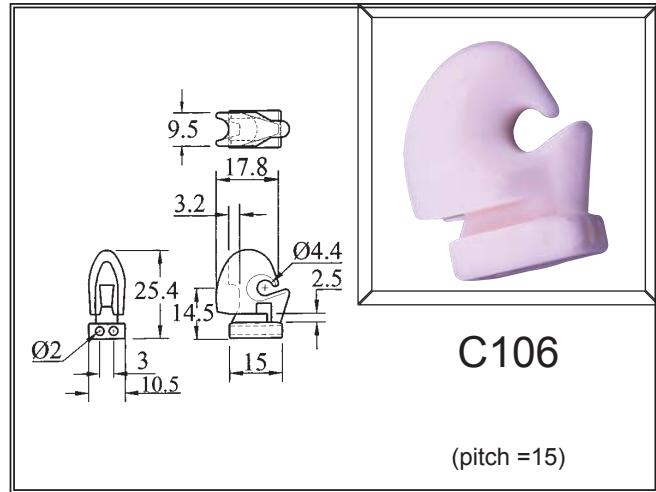
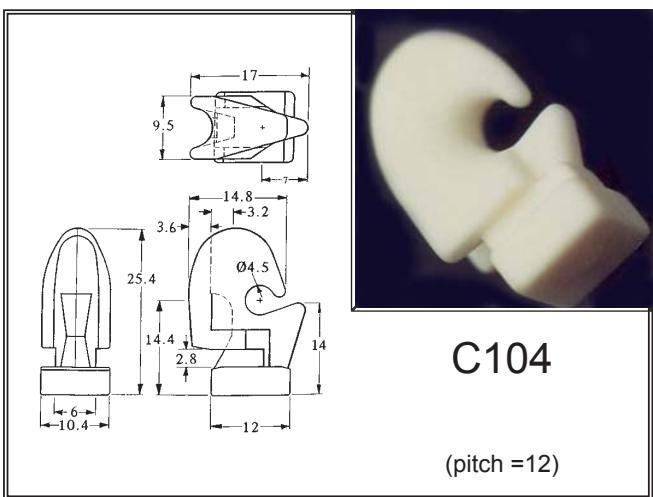
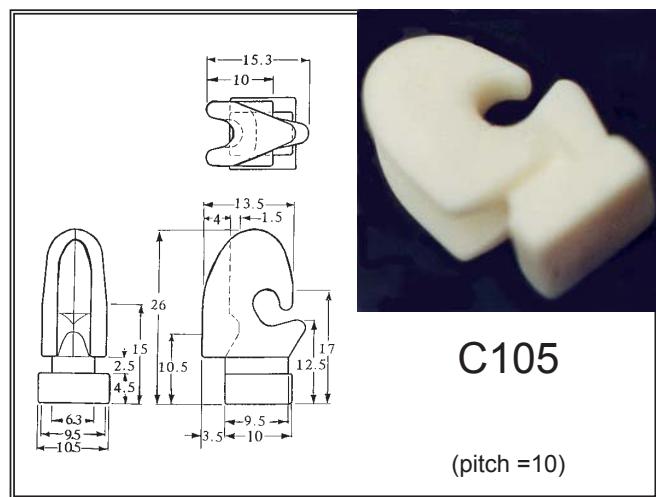
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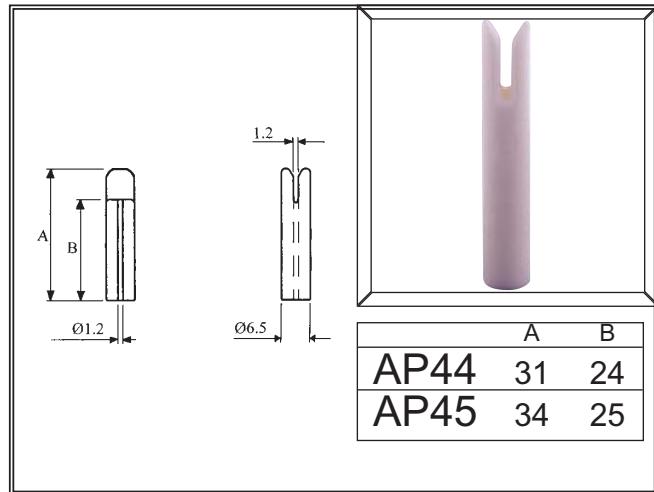
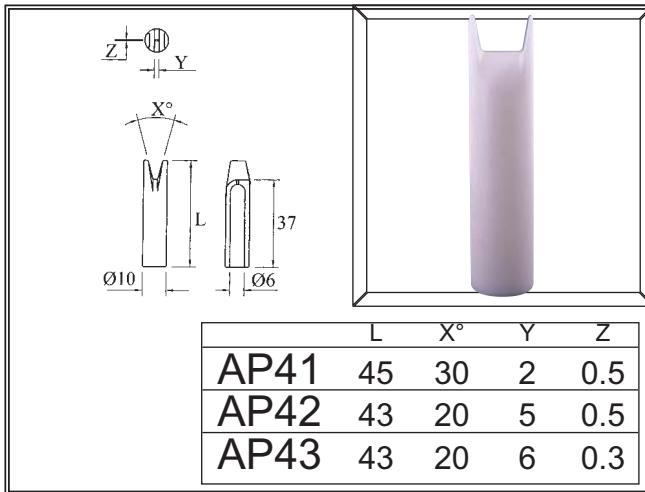
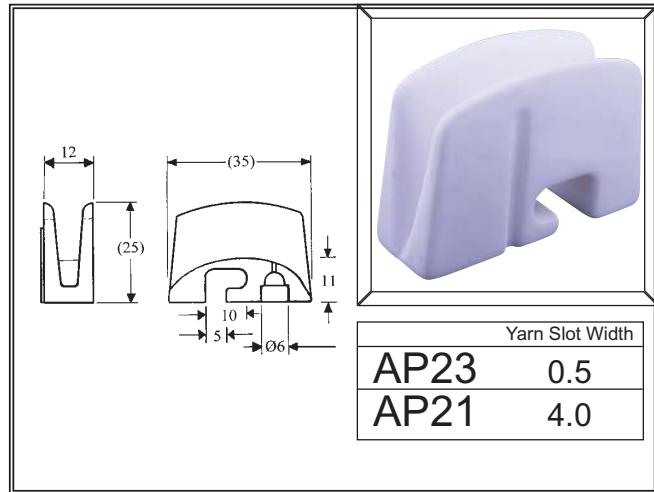
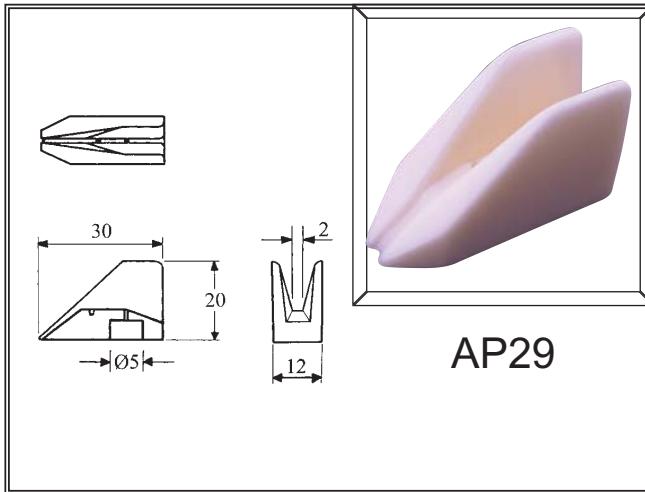
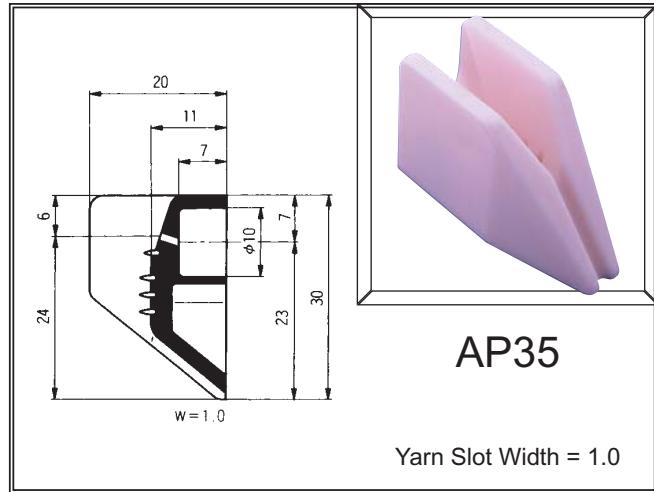
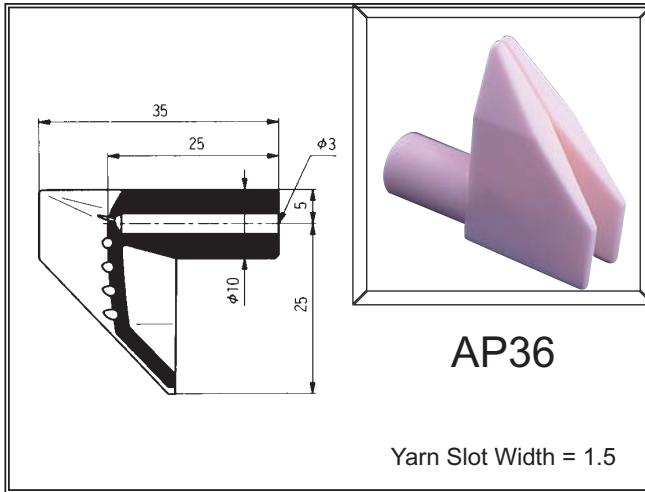
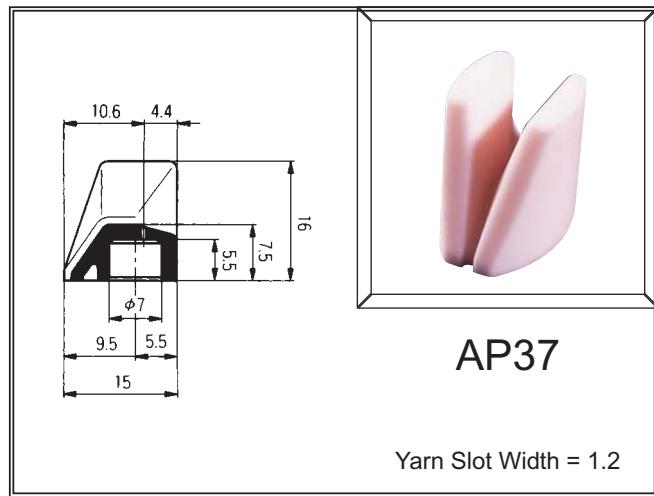
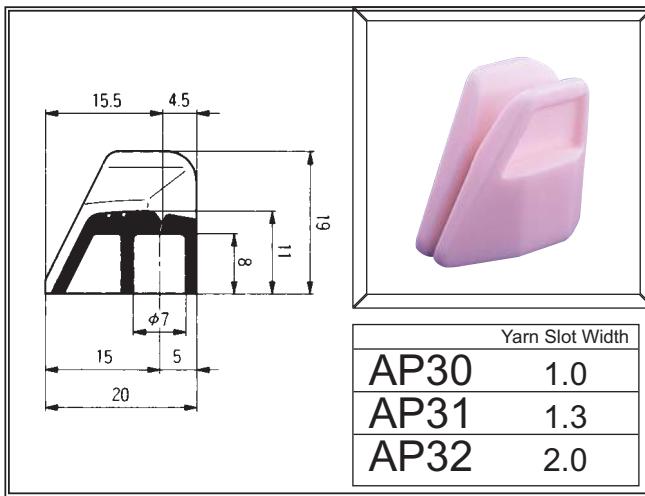


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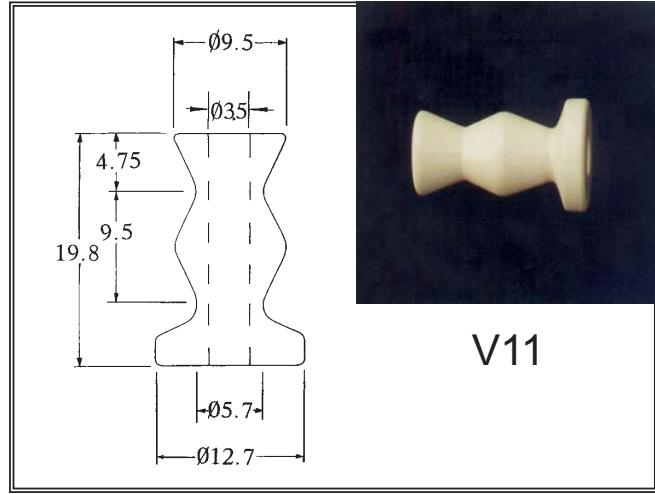
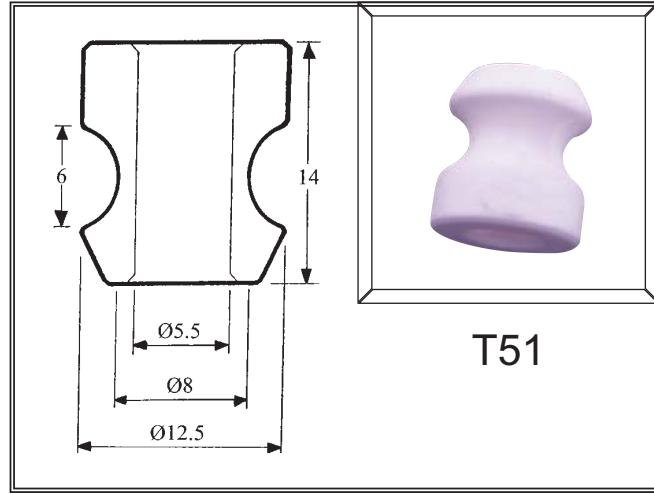
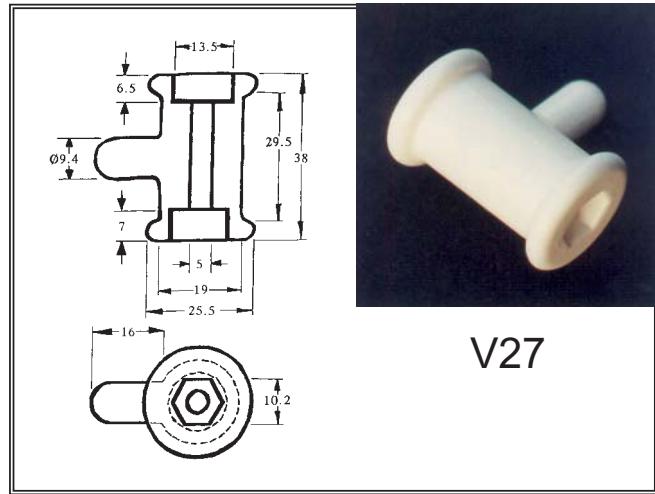
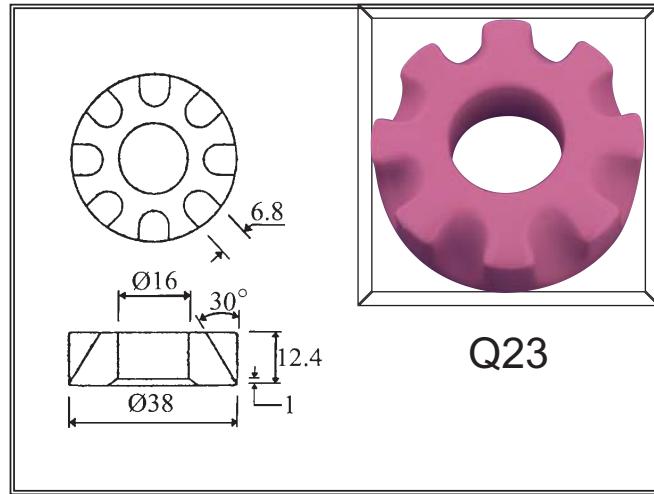
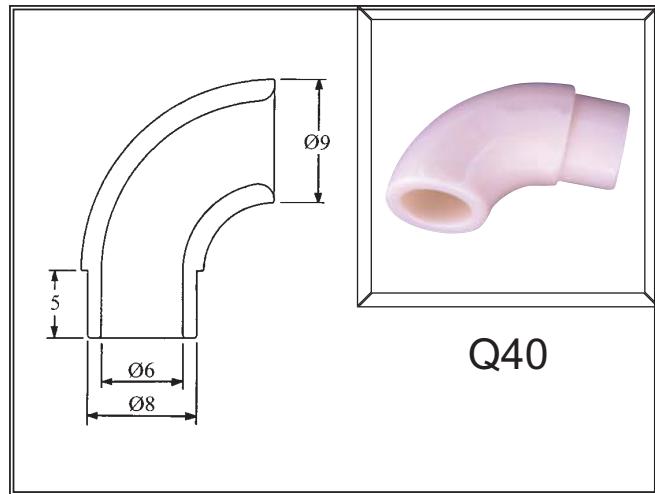
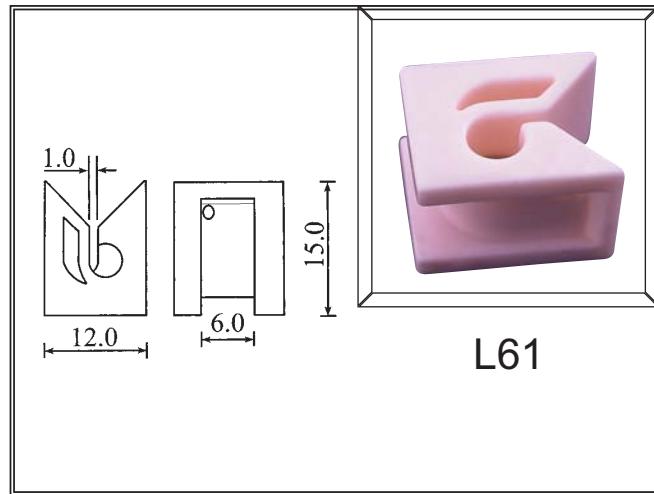
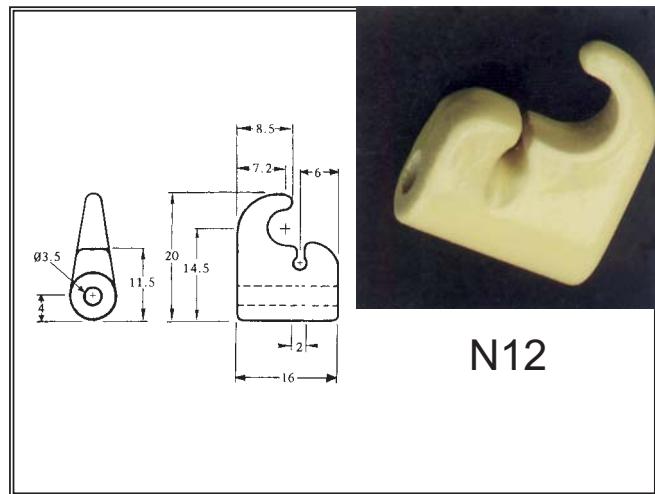
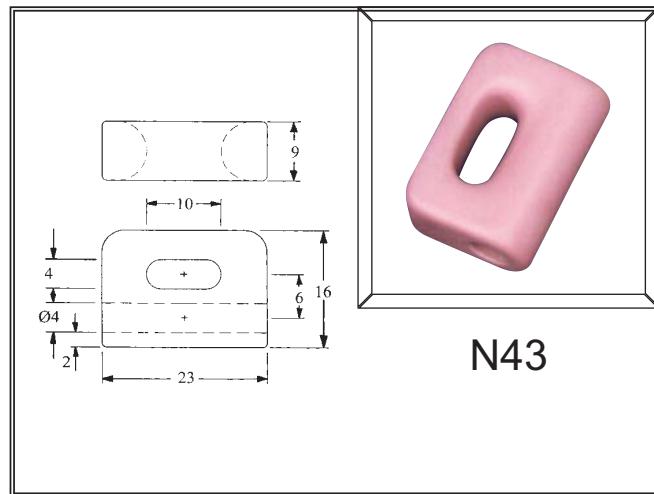


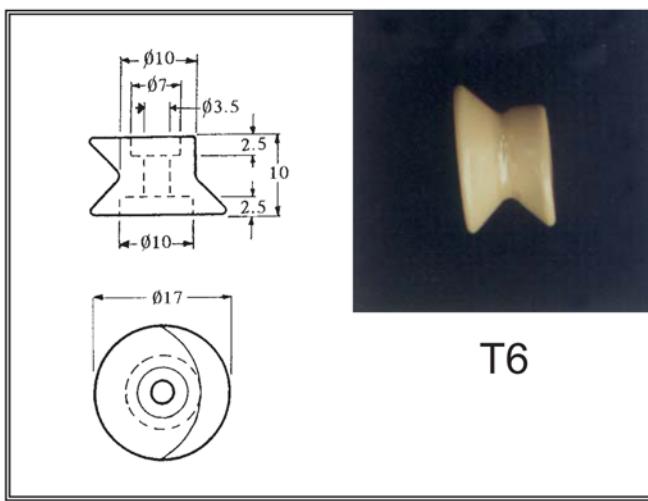


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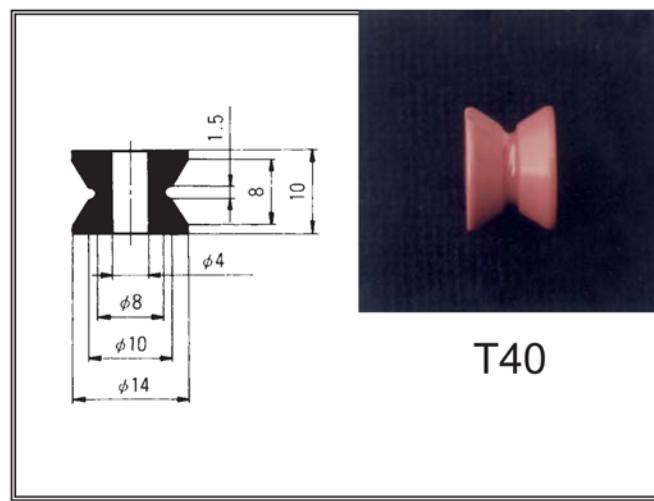


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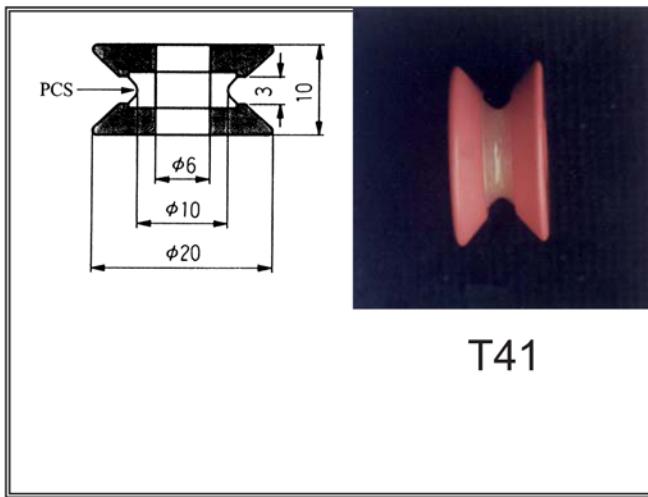




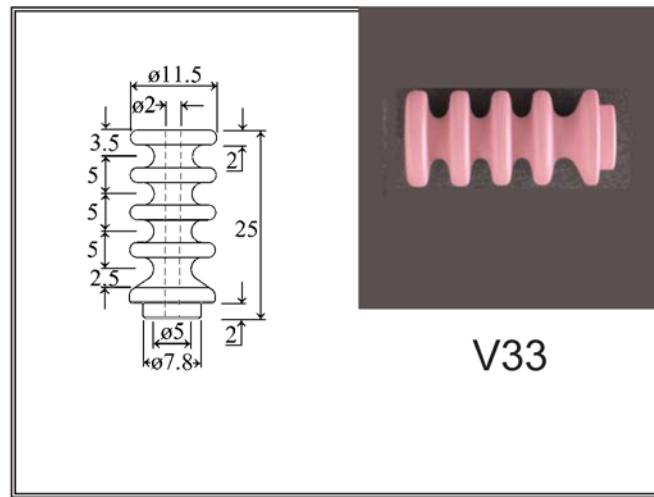
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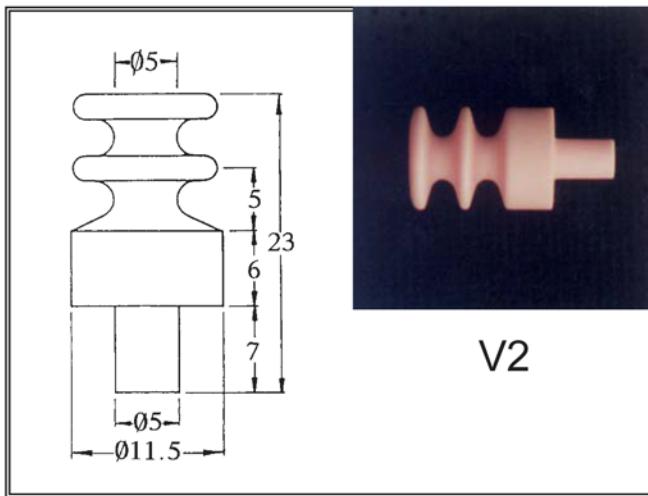
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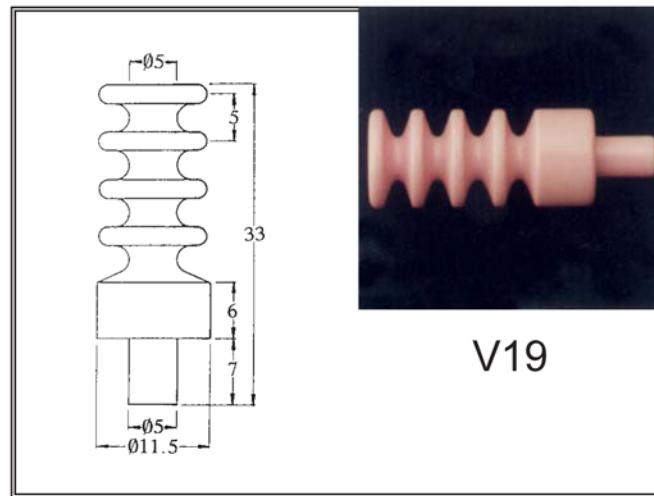
T41



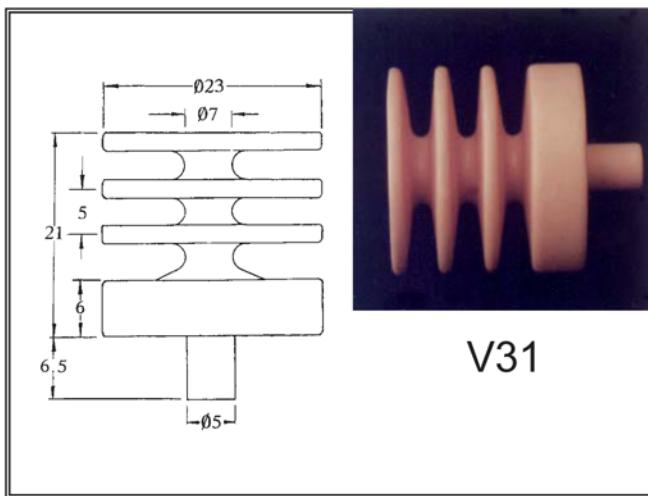
V33



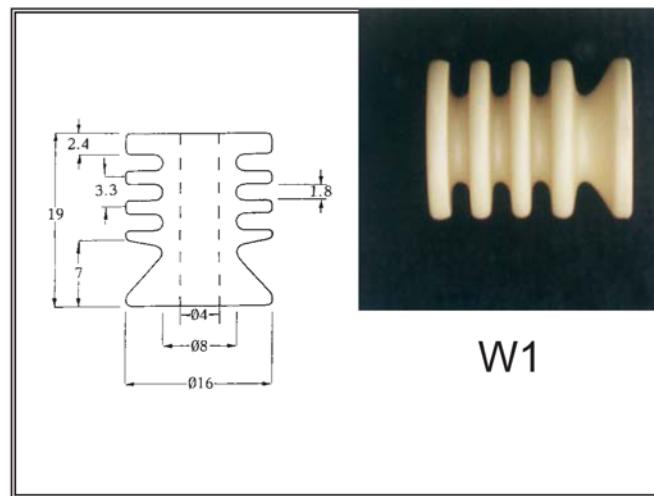
V2



V19



V31



W1



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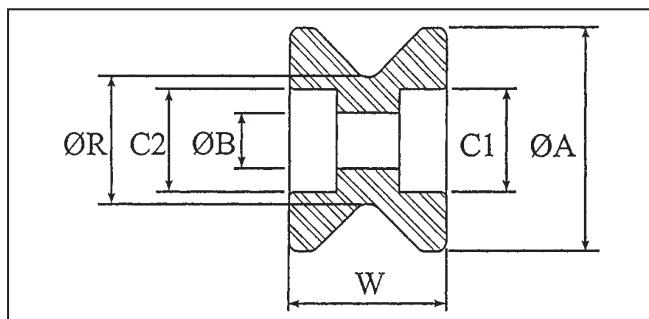
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Single Groove Rollers



CS = countersunk bore for screw

Ref.	ϕA	ϕB	ϕR	W	$\phi C1$	$\phi C2$
T34	14.0	3.2	10.0	8.0		
T2	14.0	4.3	10.0	10.0		
T42	14.0	3.5	8.0	10.0	6.5 x 3.0	
T3	16.0	4.0	10.0	9.0		
T4U	16.5	4.0	8.5	9.0		
T4V	16.5	4.0	8.5	9.0		
T28	17.0	4.0	10.0	9.0		
T37	17.0	5.0	8.0	7.0		
T25	17.0	6.0	8.0	11.0		
T47	17.0	3.3	10.0	9.5		
T32	18.0	5.0	10.0	8.0		
T23	18.2	3.3	9.5	9.0	8.0 x 0.5	
T9	19.0	3.2	10.2	12.8		
T33	20.0	4.3	9.5	11.0	10.0 x 2.0	
T45	20.0	4.3	10.0	14.1	14.4 x 2.0	14.4 x 2.0
T44	20.0	6.0	8.0	10.0		
T13A	20.5	5.0	10.0	13.5	CS	
T13	20.5	3.0	10.0	13.6	7.8 x 3.0	
T36	23.5	9.6	15.0	8.0		
T35	24.9	6.0	14.1	13.1	9.0 x 1.5	
T15	25.0	6.0	10.0	18.0	9.0 x 1.5	
T38	25.6	4.0	20.0	7.8	15.2 x 1.3	15.2 x 1.3



Ref.	ϕA	ϕB (to clear)	ϕR	W	$\phi C1$	$\phi C2$
T26*	29.3	6.0	16.5	14.0	9.0 x 1.5	9.0 x 0.8
T27*	29.3	6.0	10.0	14.0	9.0 x 1.5	9.0 x 0.8
T39	29.8	6.0	17.2	9.0	9.0 x 2.0	9.0 x 0.8
T21	38.7	4.0	26.0	9.0		
T21A	38.7	6.3	26.0	9.0		
T29	39.0	10.0	21.0	16.0		
T30	39.0	15.0	21.0	16.0		

*asymmetric groove

Drawings available upon request

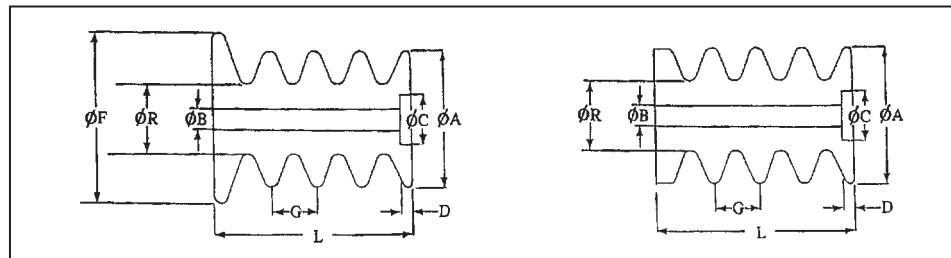


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Multi Groove Rollers

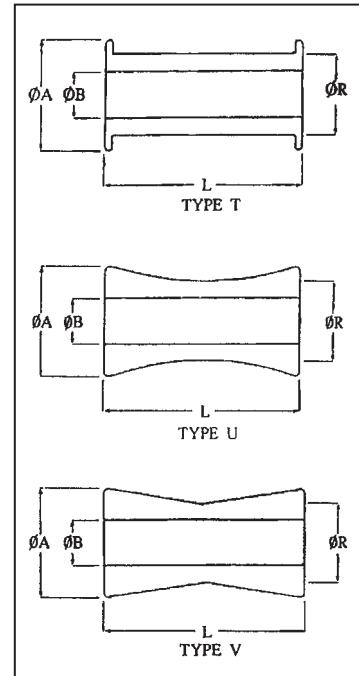


Ref	ϕA	ϕB	ϕR	ϕF	L	G	No of grooves	ϕC	D
W28	13.50	5.00	9.00		34.00	7.00	5		
V32	13.70	3.30	10.00		15.60	4.80	2		
W25	14.00	3.50	9.00		20.00	4.00	3		
W26	14.00	3.30	6.00		21.00	4.50	3		
W27	15.00	4.30	9.00		20.00	3.60	4		
W35	15.00	5.00	8.00		26.50	3.00	8		
W6	15.75	3.18	7.60		30.30	3.50	6		
W37	15.90	6.30	9.00	20.00	22.00	4.60	4		
V13	16.00	3.50	8.00		19.00	3.50	3		
W31	16.00	5.30	10.00	21.00	34.00	6.00	5		
W3	16.00	6.20	9.50		27.00	4.80	4		
W9	16.00	3.50	9.50		36.50	6.30	5		
V29	16.50	4.50	10.50		12.50	4.70	2		
V28	16.50	4.50	10.50		15.80	4.20	3		
W29	16.50	4.50	10.50		18.00	4.00	4		
V30	16.50	4.50	10.50		24.00	6.00	4		
V9	17.00	5.00	8.00		20.00	10.00	2		
V10	17.00	6.00	8.00		23.00	12.00	2		
W21	17.60	3.50	10.00	23.80	9.00	—	1	6.00	4.00
W22	17.60	3.50	10.00	23.80	14.00	6.00	2	6.00	4.00
W23	17.60	3.50	10.00	23.80	20.00	6.00	3	6.00	4.00
W24	17.60	3.50	11.00	23.80	22.00	5.00	4	6.00	4.00
W30	21.00	5.30	8.20		20.00	9.00	2		
W36	21.00	5.30	9.00		21.00	5.00	3		
W32	29.00	6.20	16.00		26.00	12.50	2	10.00	3.00

*Counter bore both ends

Drawings available upon request

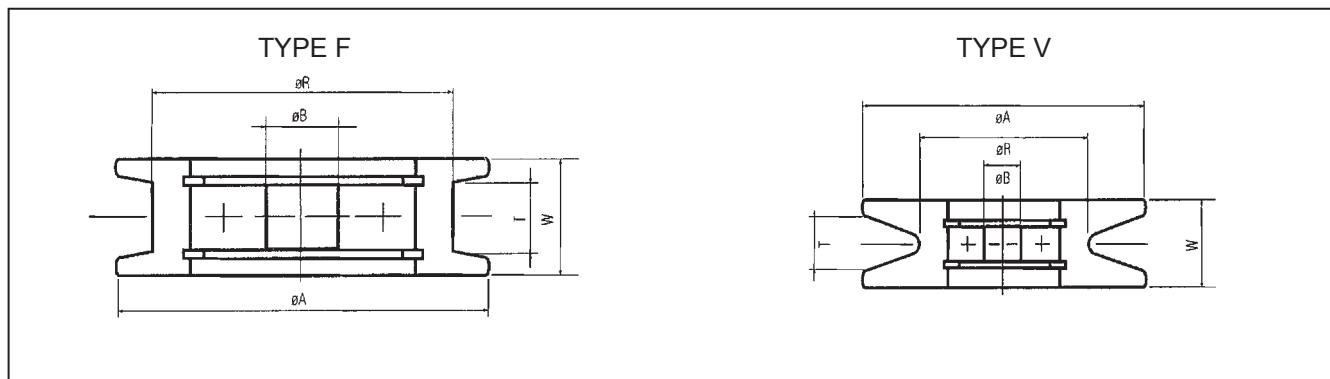
Bobbins and Diabolos



Ref.	ϕA	ϕB	ϕR	L	Type
U11	4.50	2.20	3.50	25.00	U
U18	6.00	2.00	3.50	10.50	U
U16	6.50	3.10	5.40	19.00	U
U42	8.00	3.00	5.00	10.00	U
U36	8.20	4.00	6.20	10.50	U
U37	10.80	3.20	6.80	20.00	T
U32	12.00	6.00	11.50	12.00	V
U33	12.00	6.00	10.40	20.00	U

Ref.	ϕA	ϕB	ϕR	L	Type
U34	15.00	7.50	10.40	20.00	U
U27	15.00	4.00	8.00	15.00	V
U29	15.20	4.00	9.00	21.00	T
U35*	20.00	6.30	10.00	20.00	V
U25	20.00	6.30	10.00	25.00	V
U25C*	20.00	6.30	10.00	25.00	V
U28	20.00	6.30	10.00	25.00	U
U26#	38.00	4.50	19.00	32.00	T

CERAMIC BEARING ROLLERS

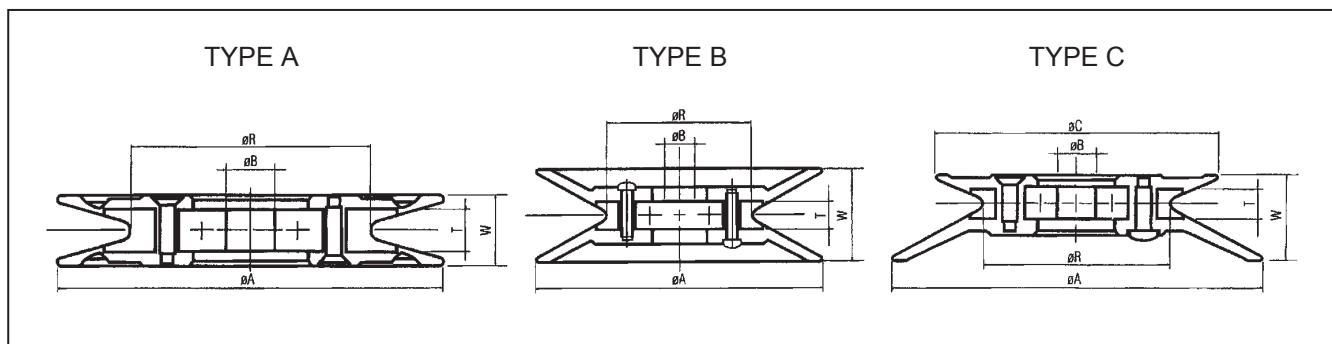


Part No	øA	øB	øR	W	T
CBR1V	8	1.5 or <u>2</u>	6	3	2.3
CBR2V	10	<u>2</u>	8	4	3
CBR3V	10.5	<u>2</u>	7	3.5	2.3
CBR4V	14	<u>3</u>	10	6	4
CBR5V	16.5	(2), or 4	13.5	7	4
CBR6V	17	<u>3</u>	13	12	7
CBR7V	20	(2),4, 5 or 7	14	10	7
CBR8V	23	<u>3</u>	15	8	5.5
CBR9V	27	4, <u>5</u> or 6	15	11	8
CBR10V	27	4, <u>5</u> or 6	18.5	9.5	5.5
CBR11F	30	4, <u>5</u> or 8	22	10	5
CBR12F	30	<u>5</u>	20	24	10
CBR13V	30	<u>5</u>	15	11	9
CBR14V	40	4, <u>5</u> or 8	24	12	8
CBR15V	40	<u>8</u> or 10	27	24	18
CBR16F	50	<u>10</u>	40	16	10
CBR17F	50	<u>10</u>	40	24	18

(2) = Special low torque bearing

Bearings (øB) underlined indicate standard sizes

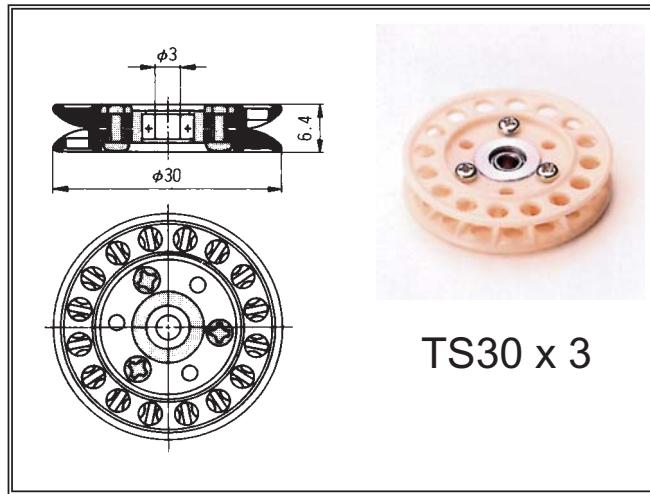
CERAMIC BEARING ROLLERS



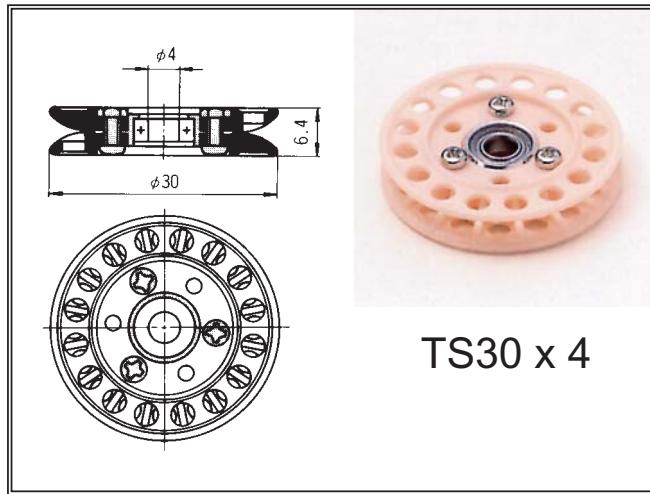
Part No	øA	øB	øC	øR	W	T
PCBR1A	20	<u>3</u>		15	4	3
PCBR2A	28.5	<u>②, 4 or 5</u>		20	6	4
PCBR3B	30	<u>3</u>		15	10	3
PCBR4C	30	<u>3</u>	20	15	7	3
PCBR5B	40	<u>②, 4 or 5</u>		20	15	4
PCBR6C	40	<u>②, 4 or 5</u>	28.5	20	10.5	4
PCBR7A	45	<u>④, 5, 6, 7 or 8</u>		30	10	6
PCBR8A	60	<u>7 or 8</u>		40	12	6
PCBR9B	60	<u>④, 5, 6, 7 or 8</u>		30	20	6
PCBR10C	60	<u>④, 5, 6, 7 or 8</u>	45	30	15	6
PCBR11A	80	<u>10</u>		50	15	9
PCBR12B	80	<u>8</u>		40	25	6
PCBR13C	80	<u>8</u>	60	40	18.5	6
PCBR14B	100	<u>10</u>		50	30	9
PCBR15C	100	<u>10</u>	80	50	22.5	9

②, ④ = Special low torque bearing

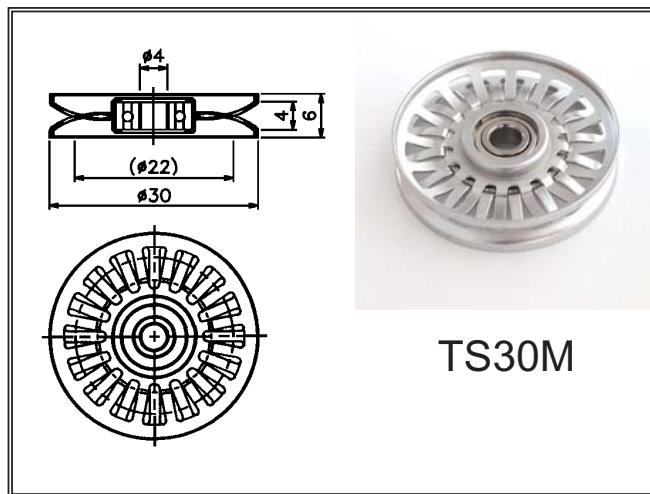
Bearings ($\varnothing B$) underlined indicate standard sizes



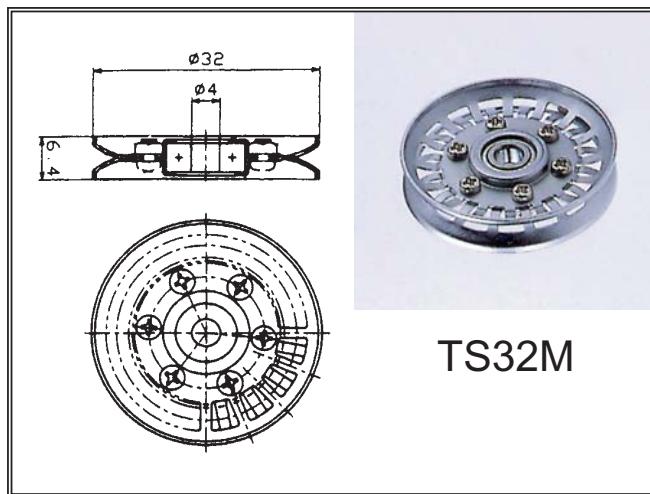
TS30 x 3



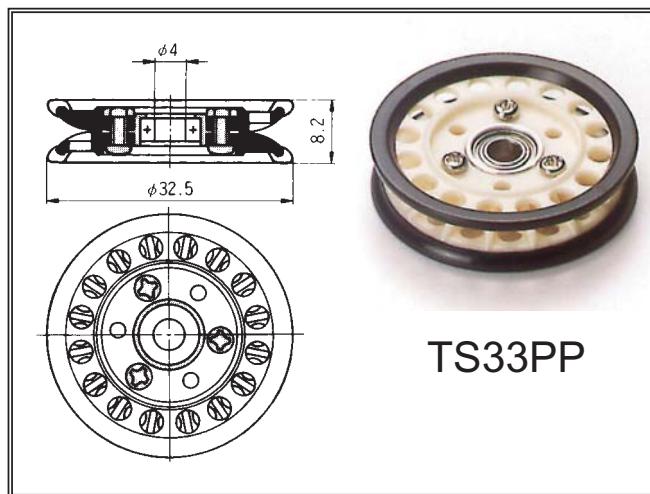
TS30 x 4



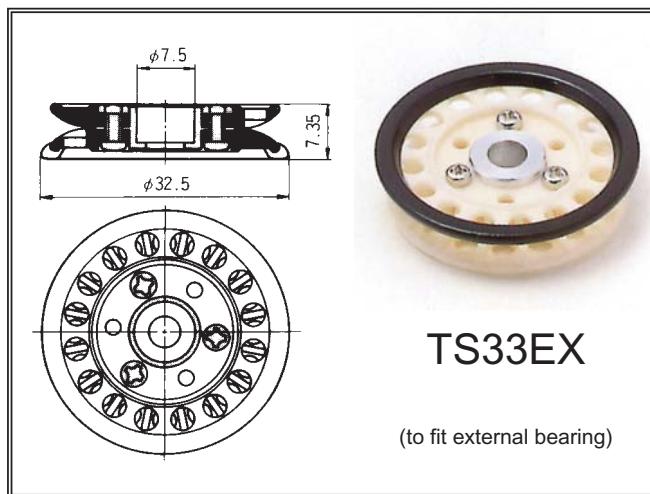
TS30M



TS32M

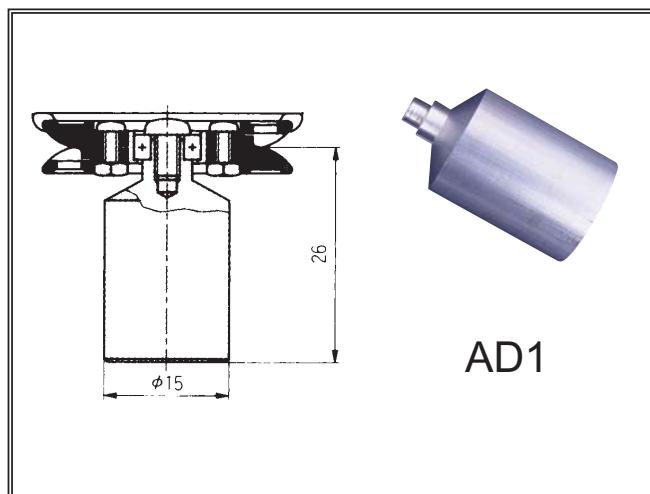


TS33PP

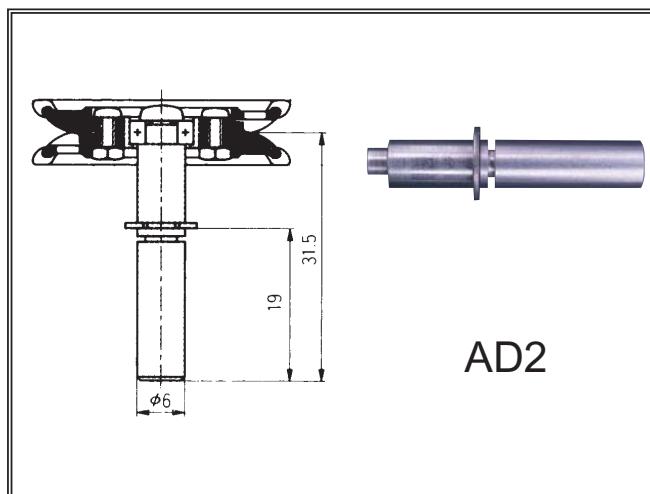


TS33EX

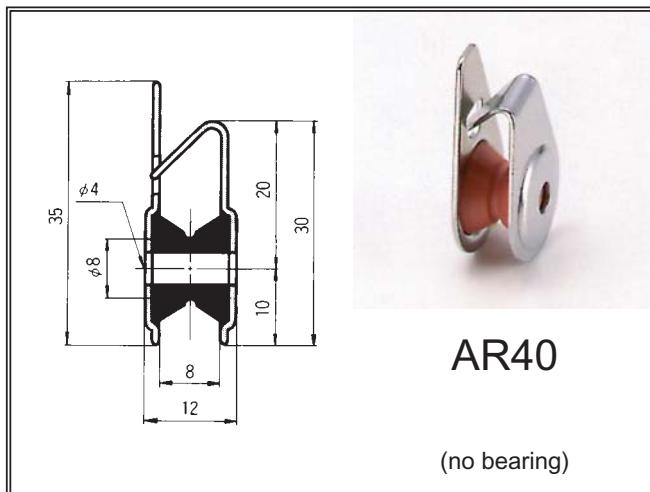
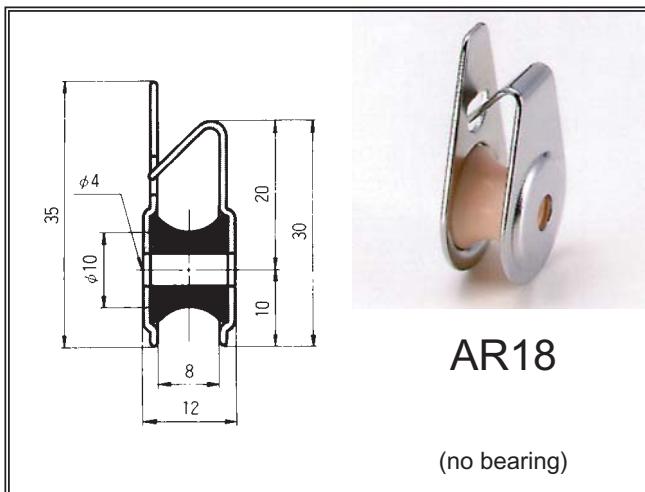
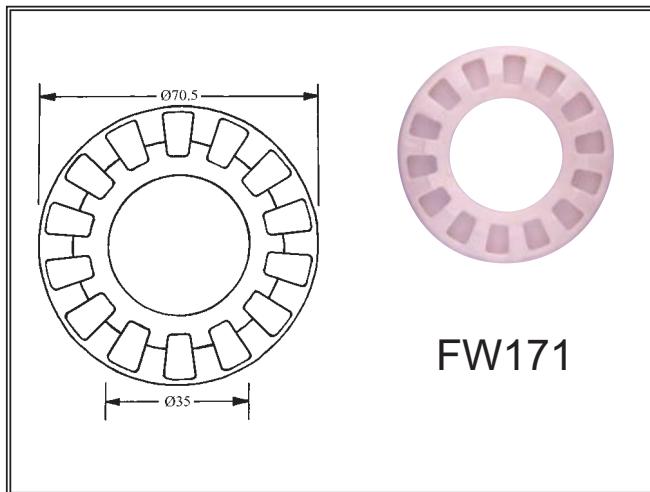
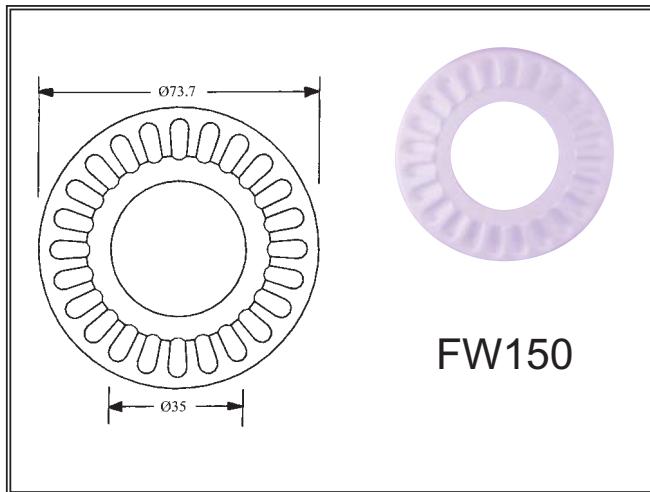
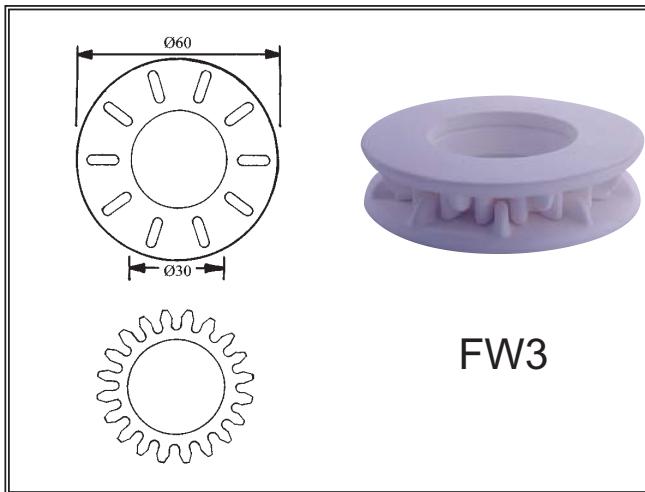
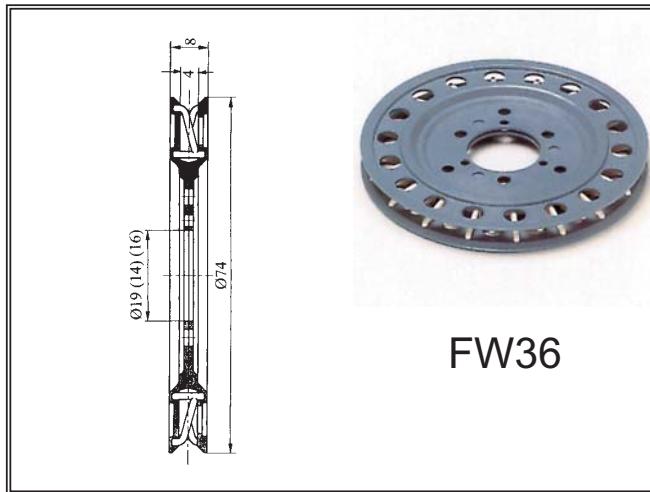
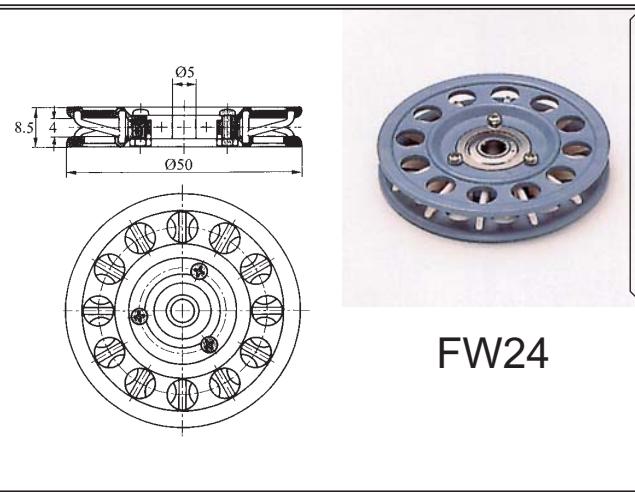
(to fit external bearing)

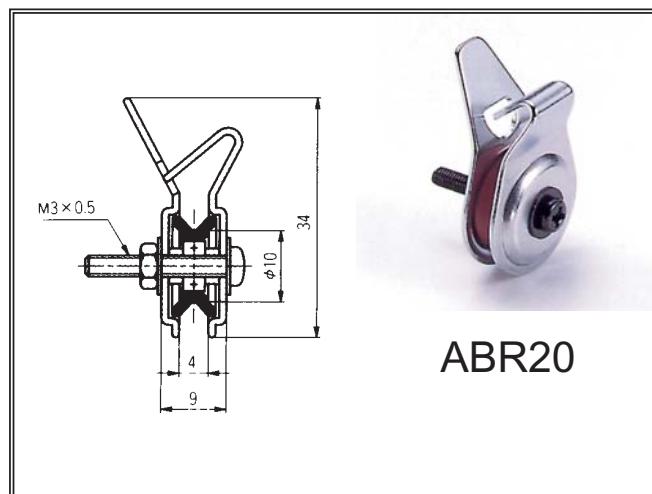
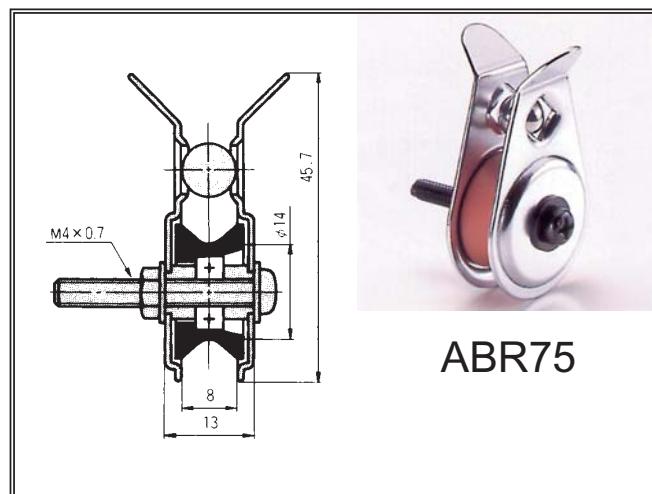
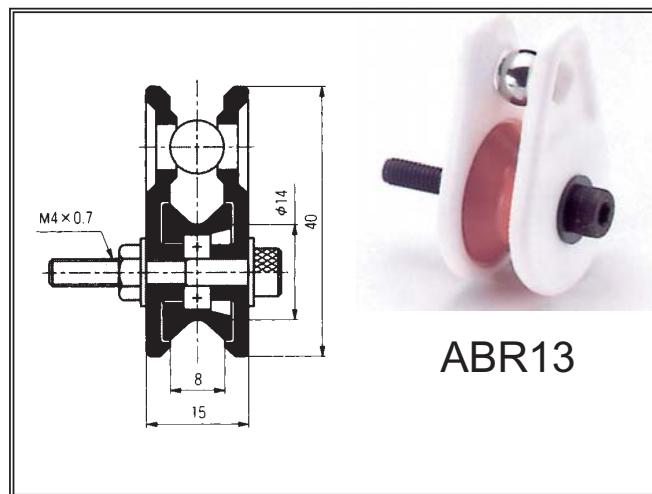
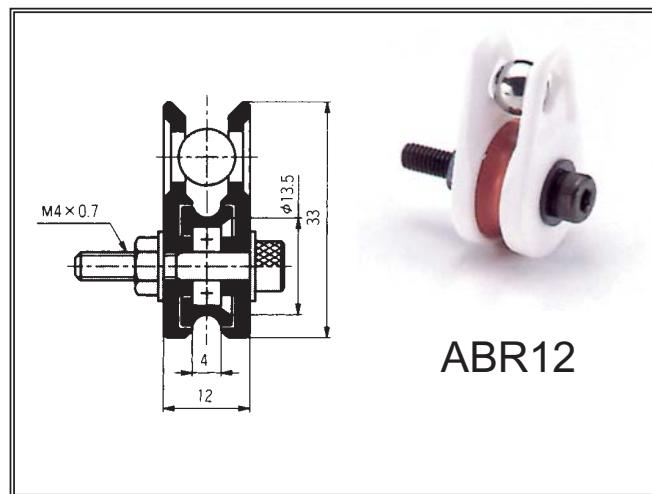
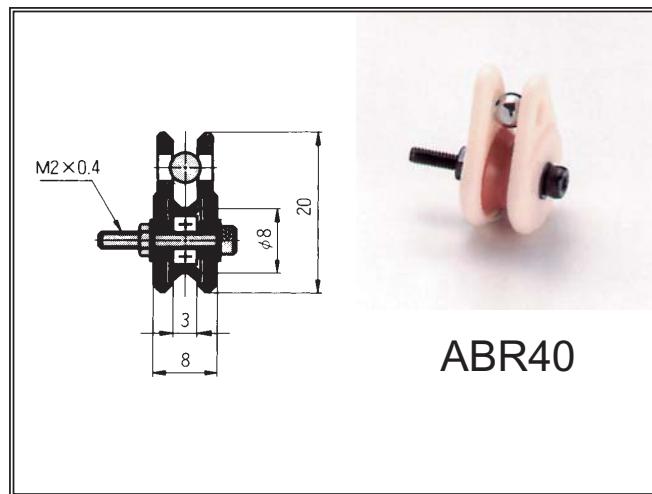
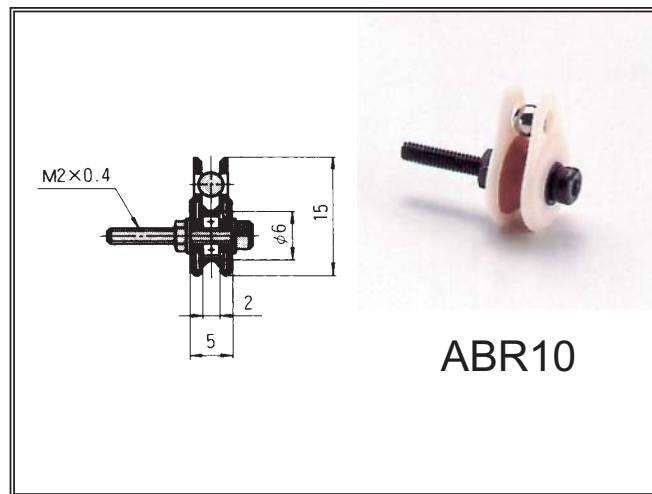
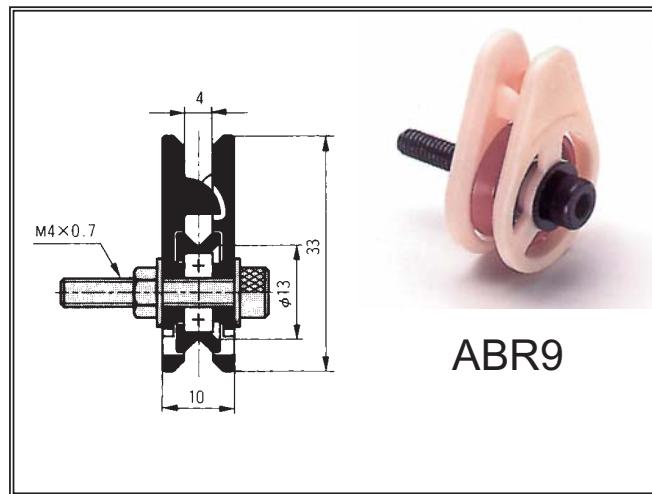
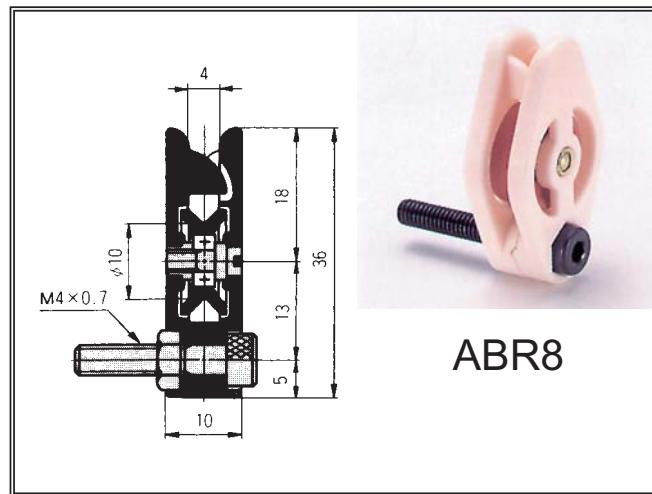


AD1



AD2



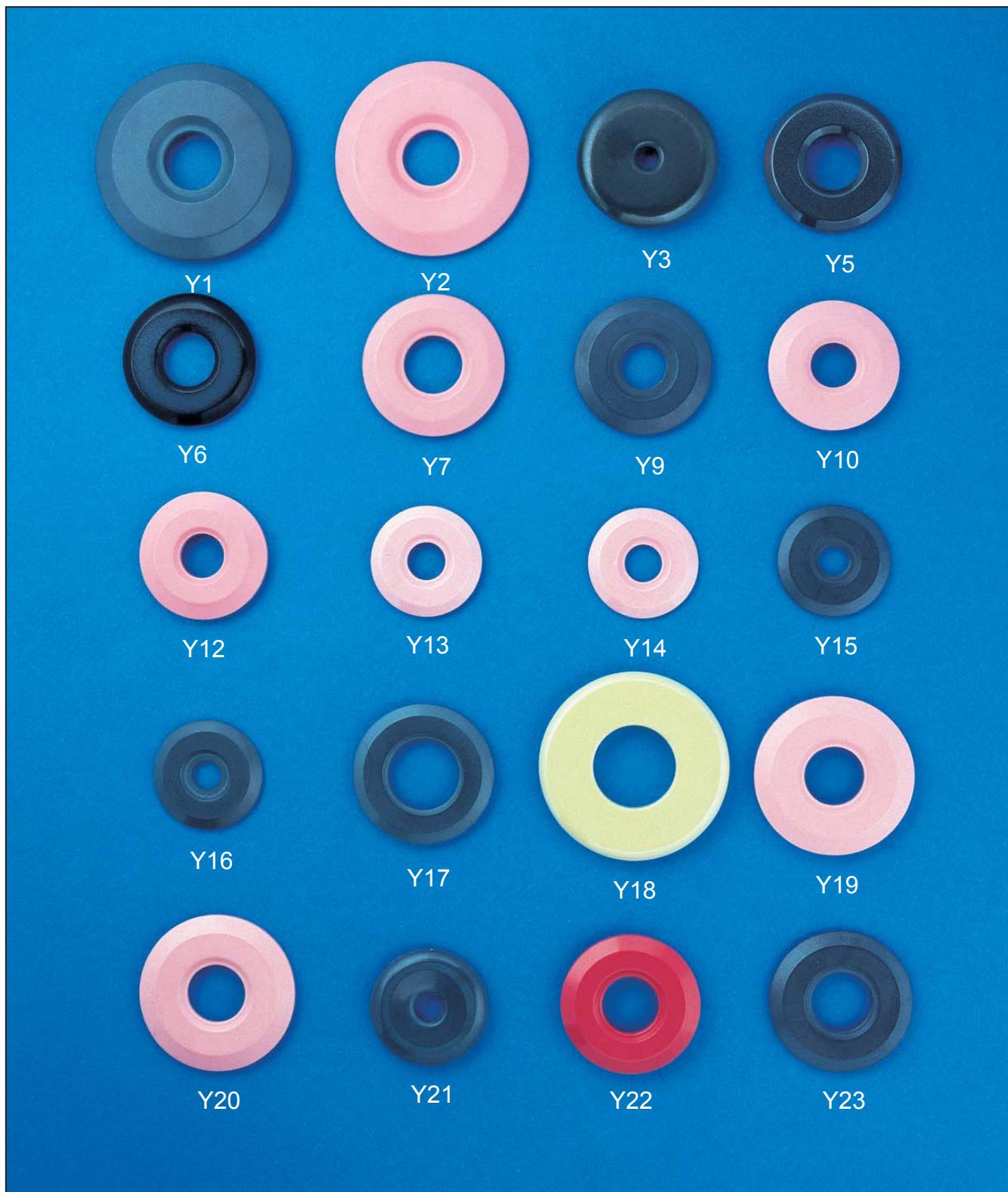


PIGTAILS

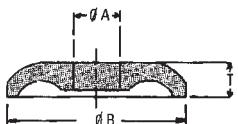


Ref.	R or L HAND	$\varnothing A$	$\varnothing B$	C	D	E	REMARKS
C50	R & L	3.0	1.0	21.5	15.0	6.5	
C52	R	3.0	2.0	22.0	17.0	5.0	
C30	R & L	3.0	3.0	25.0	14.0	11.0	
C9	R & L	3.0	2.0	27.0	20.0	7.0	
C10	R & L	3.0	3.0	27.0	20.0	7.0	Eye in line with shank
C32	R	3.2	5.5	36.0	25.0	11.0	
C36	R & L	3.2	4.0	32.0	21.0	11.0	Eye in line with shank
C2	R & L	4.0	1.0	20.0	10.0	10.0	▲Section eye
C4	R & L	4.0	1.0	30.0	15.0	15.0	▲Section eye
C31	R & L	4.0	4.0	25.0	15.0	10.0	
C13	R	4.0	3.0	28.0	20.0	8.0	
C20	R & L	4.0	4.0	35.0	20.0	15.0	
C14	R & L	4.0	3.0	28.0	20.0	8.0	Fixing hole 1.5
C15	L	4.0	4.5	33.0	22.0	11.0	
C22	R	4.0	6.0	53.0	37.0	16.0	
D8	R & L	5.0	5.0	42.0	30.0	12.0	
D16	L	5.0	5.0	50.0	38.0	—	Double coil
D11	R & L	5.0	5.0	55.0	42.0	13.0	
D12	R	5.5	5.0	46.0	31.0	15.0	
C17	R & L	6.0	1.5	25.0	10.0	15.0	Fixing hole 3.2
D17	L	6.0	3.0	25.0	15.0	10.0	Fixing hole 2.0
D15	R & L	6.0	1.5	31.0	25.0	6.0	
D18	R & L	6.0	10.0	60.0	45.0	15.0	

STANDARD TENSION DISCS

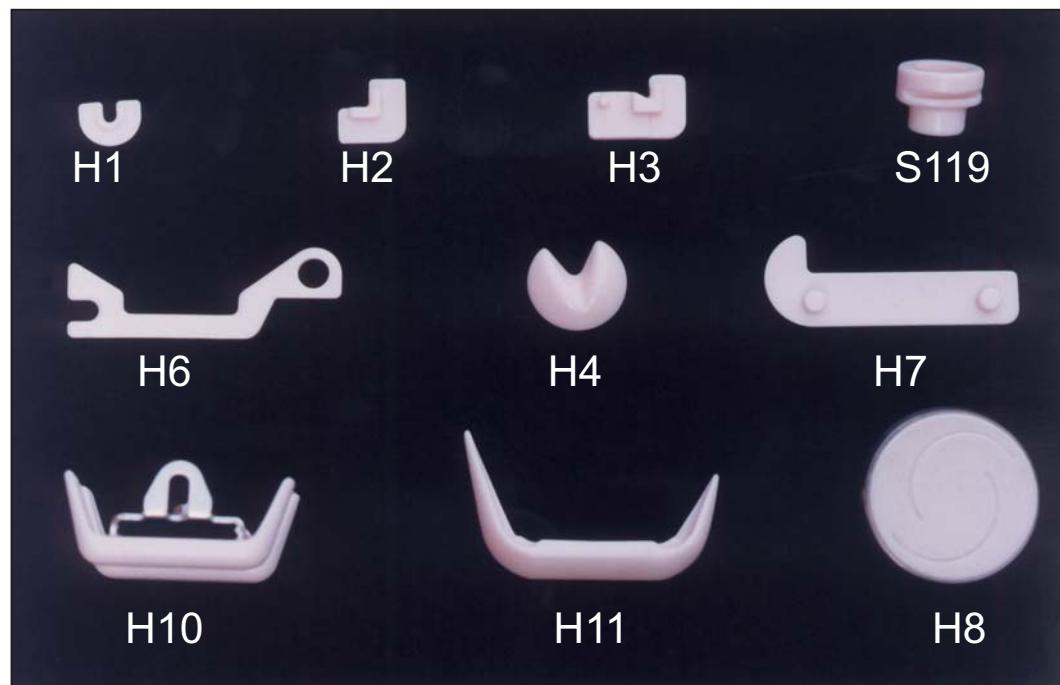


Ref.	A (to clear)	B	T	Approx. Weight (g)
Y1	10.0	37.0	4.8	11.5
Y2	10.0	36.4	3.5	7.5
Y3	4.0	25.4	4.0	7.0
Y5	10.0	25.6	4.8	6.5
Y6	10.0	25.0	3.0	2.1
Y7	10.0	24.7	3.0	3.0
Y9	8.5	26.0	2.8	3.5
Y10	8.0	24.2	3.0	3.2
Y12	8.1	24.0	3.1	3.3
Y13	6.5	20.5	2.8	2.0

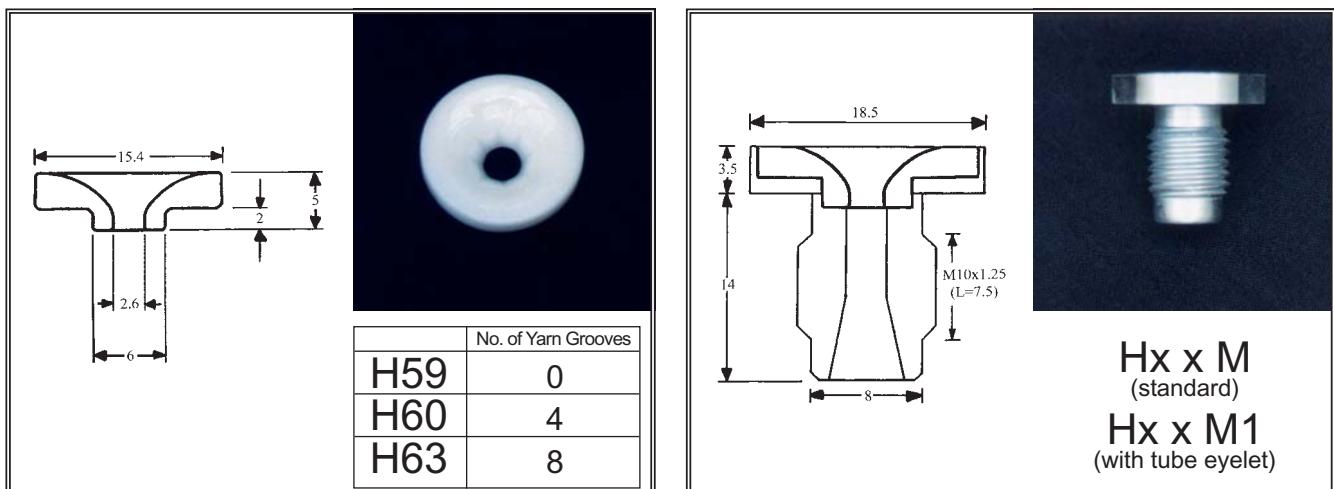
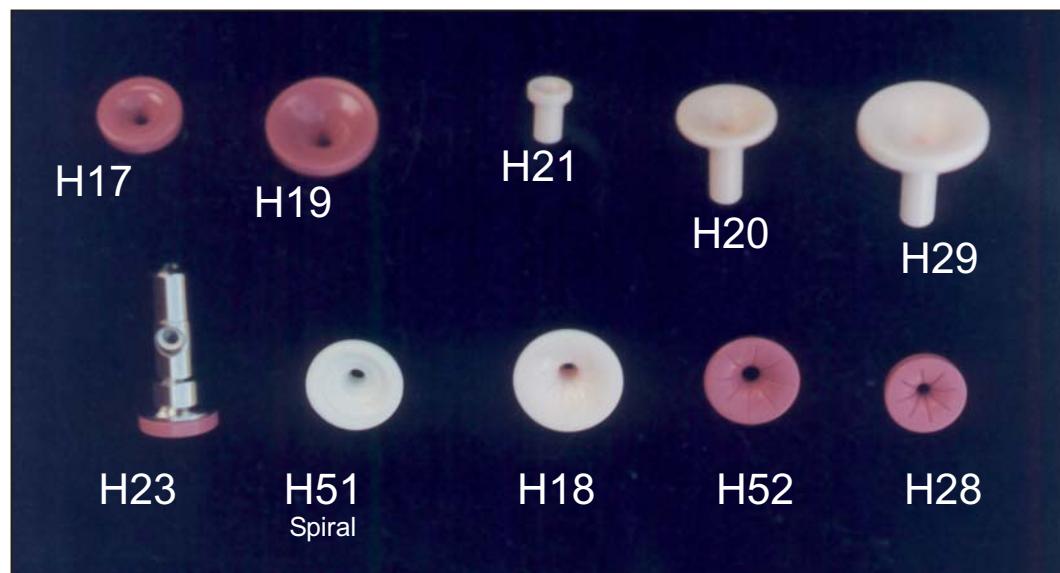


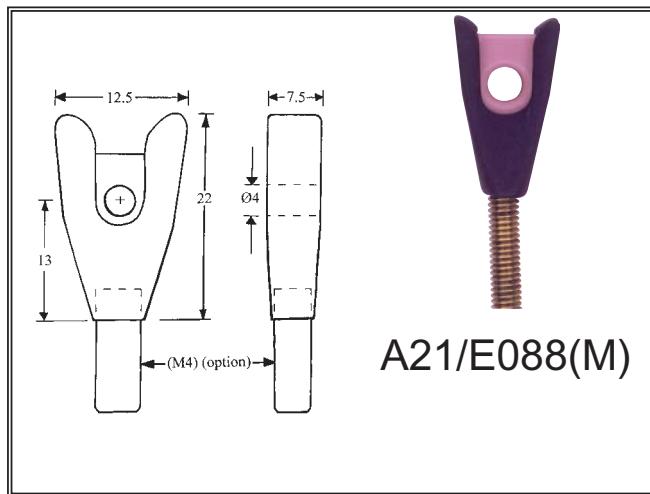
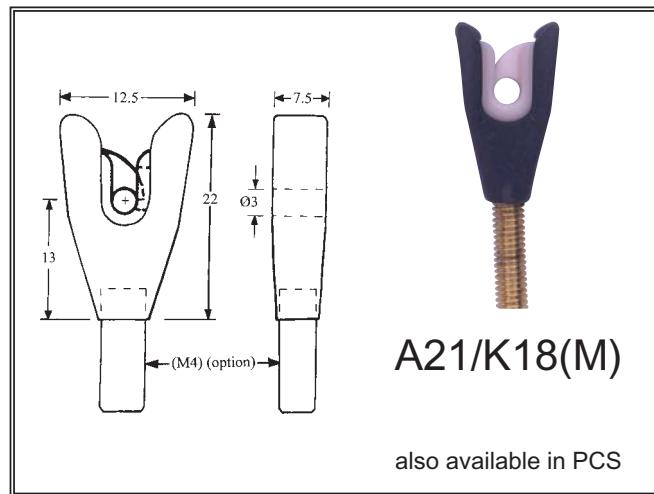
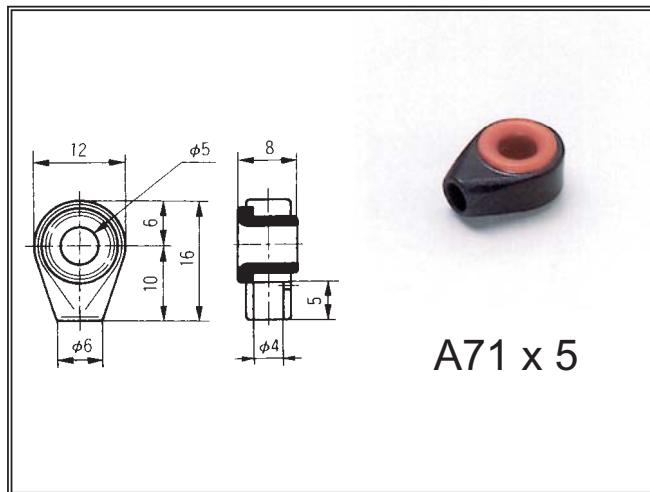
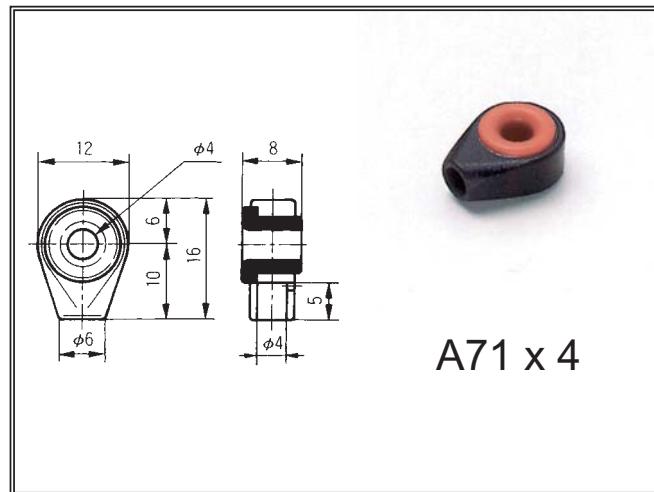
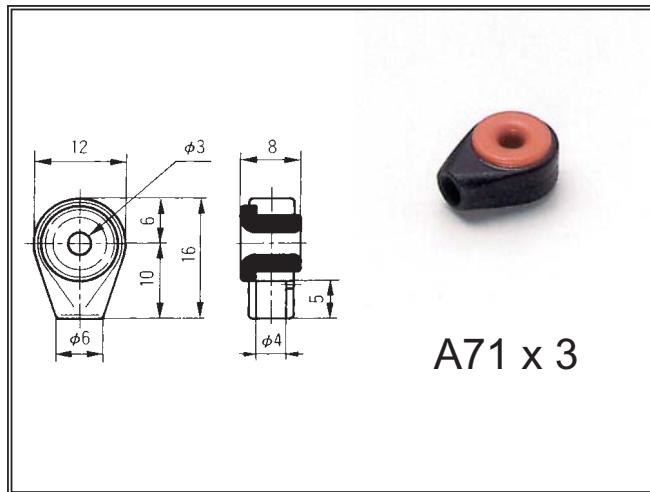
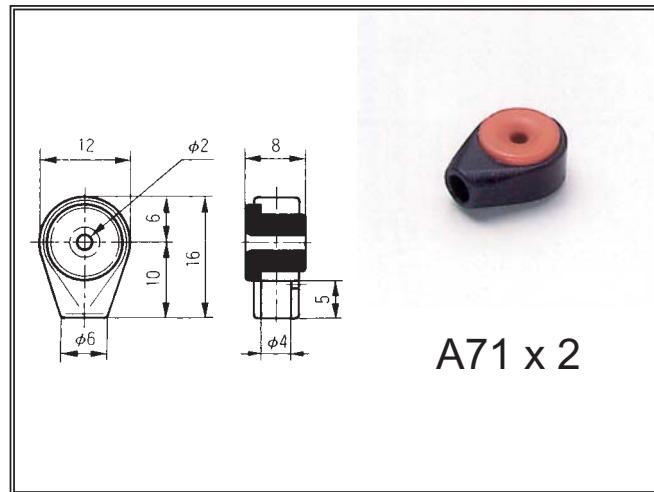
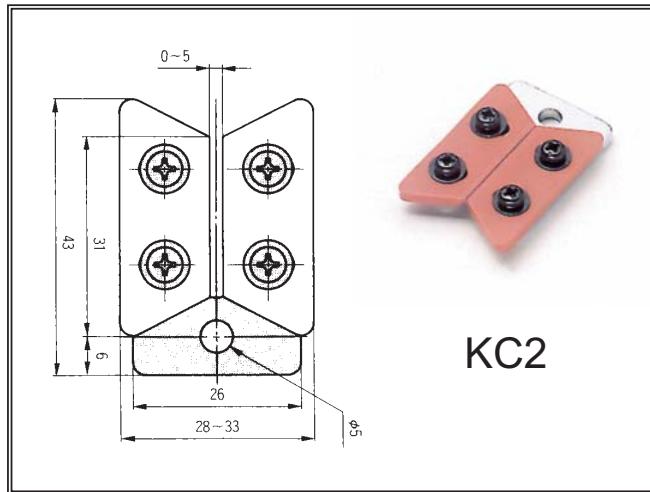
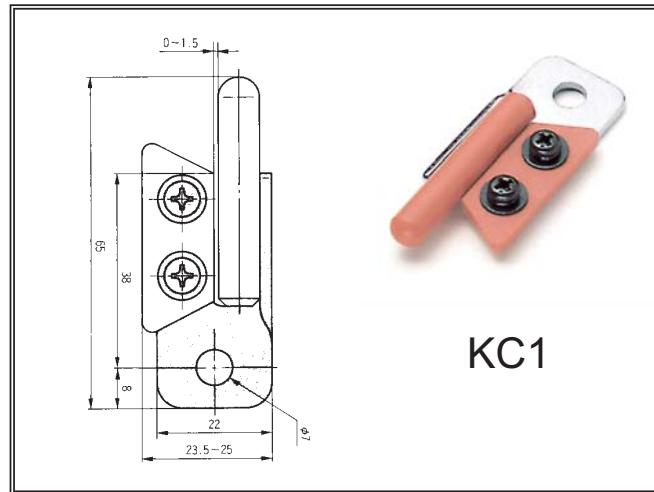
Ref.	A (to clear)	B	T	Approx. Weight (g)
Y14	6.5	20.5	2.3	1.0
Y15	5.0	20.5	2.8	2.0
Y16	5.0	20.5	2.2	1.0
Y17	12.5	26.5	2.8	3.3
Y18	15.0	35.2	3.8	11.3
Y19	10.5	29.5	4.0	5.0
Y20	10.5	29.5	3.0	3.6
Y21	5.0	22.0	3.5	3.0
Y22	10.5	26.0	4.0	5.0
Y23	10.5	26.4	2.8	3.5

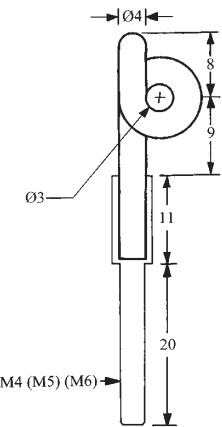
Autoconer Guides



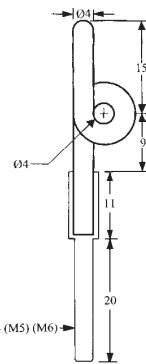
OE Guides





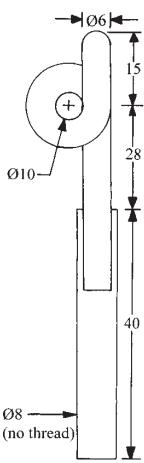


**C13R/M4
(C13R/M5)
(C13R/M6)**



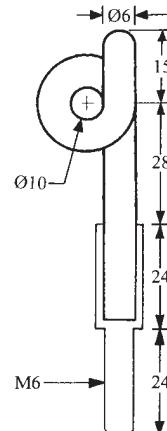
**C20R/M4
(C20R/M5)
(C20R/M6)**

Left hand also available



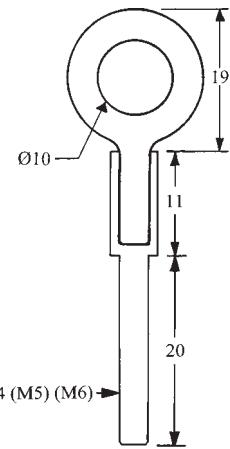
D18LM

Right hand also available

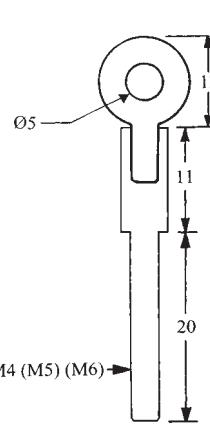


D18L/M6

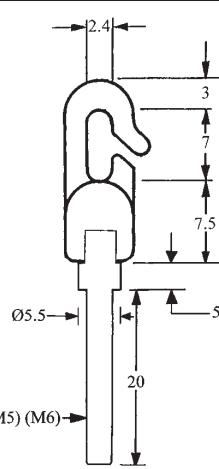
Right hand also available



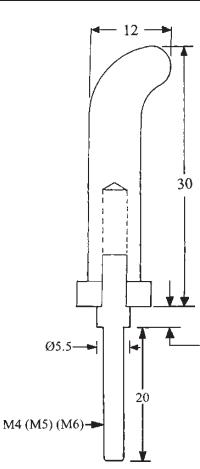
**R43/M4
(R43/M5)
(R43/M6)**



**R11/M4
(R11/M5)
(R11/M6)**



**S132/M4
(S132/M5)
(S132/M6)**
(S132M = M3; no collar)



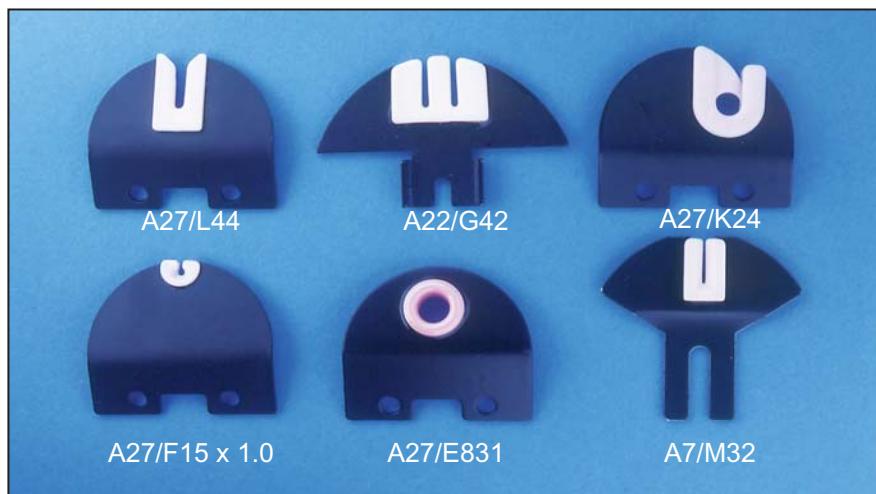
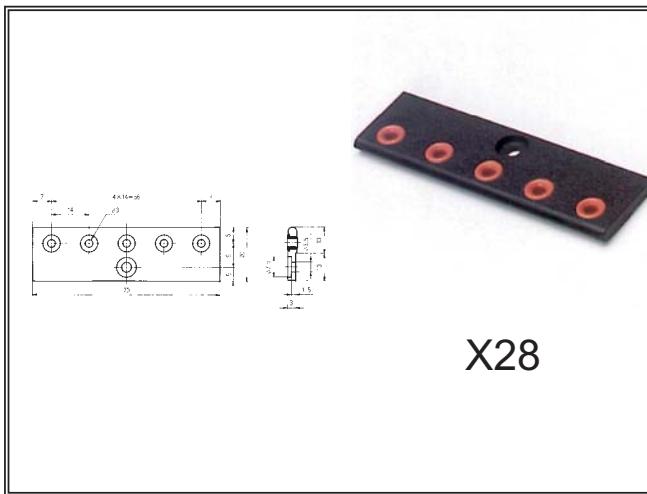
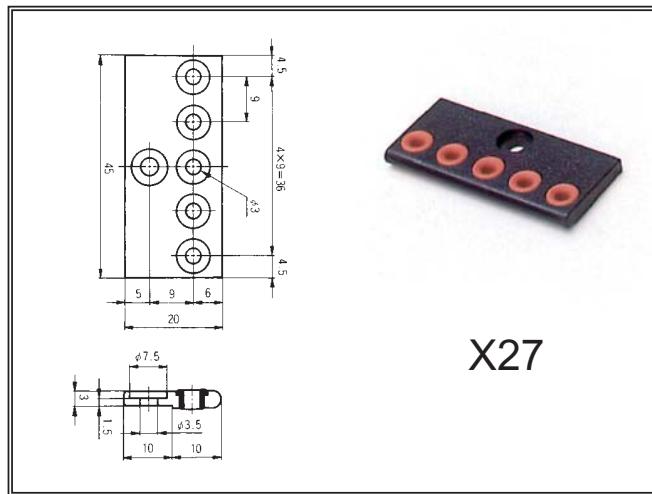
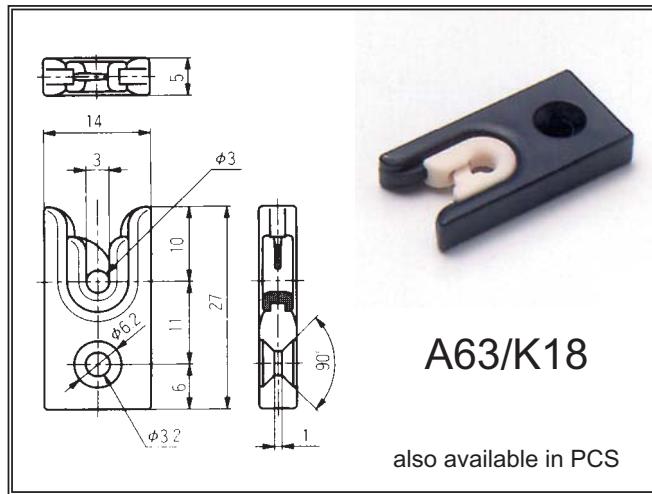
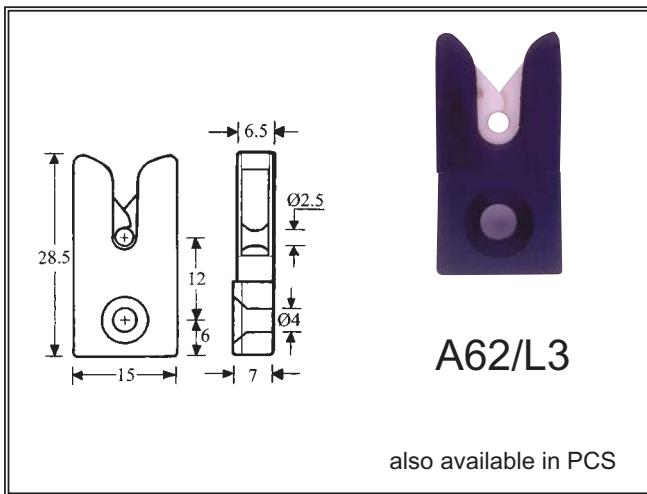
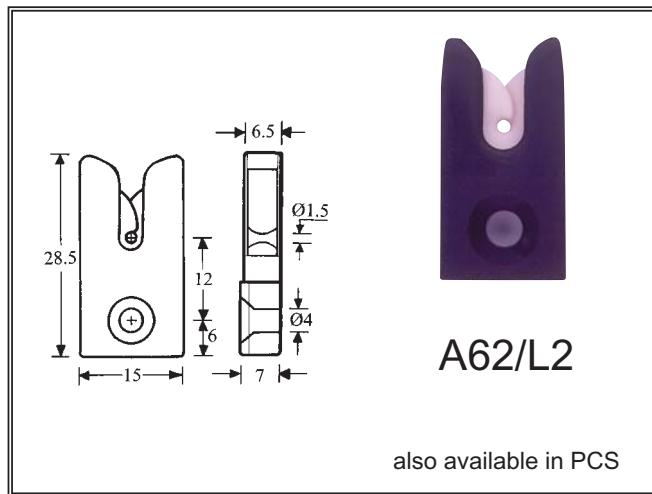
**S35/M4
(S35/M5)
(S35/M6)**
(S35M = M3; no collar)



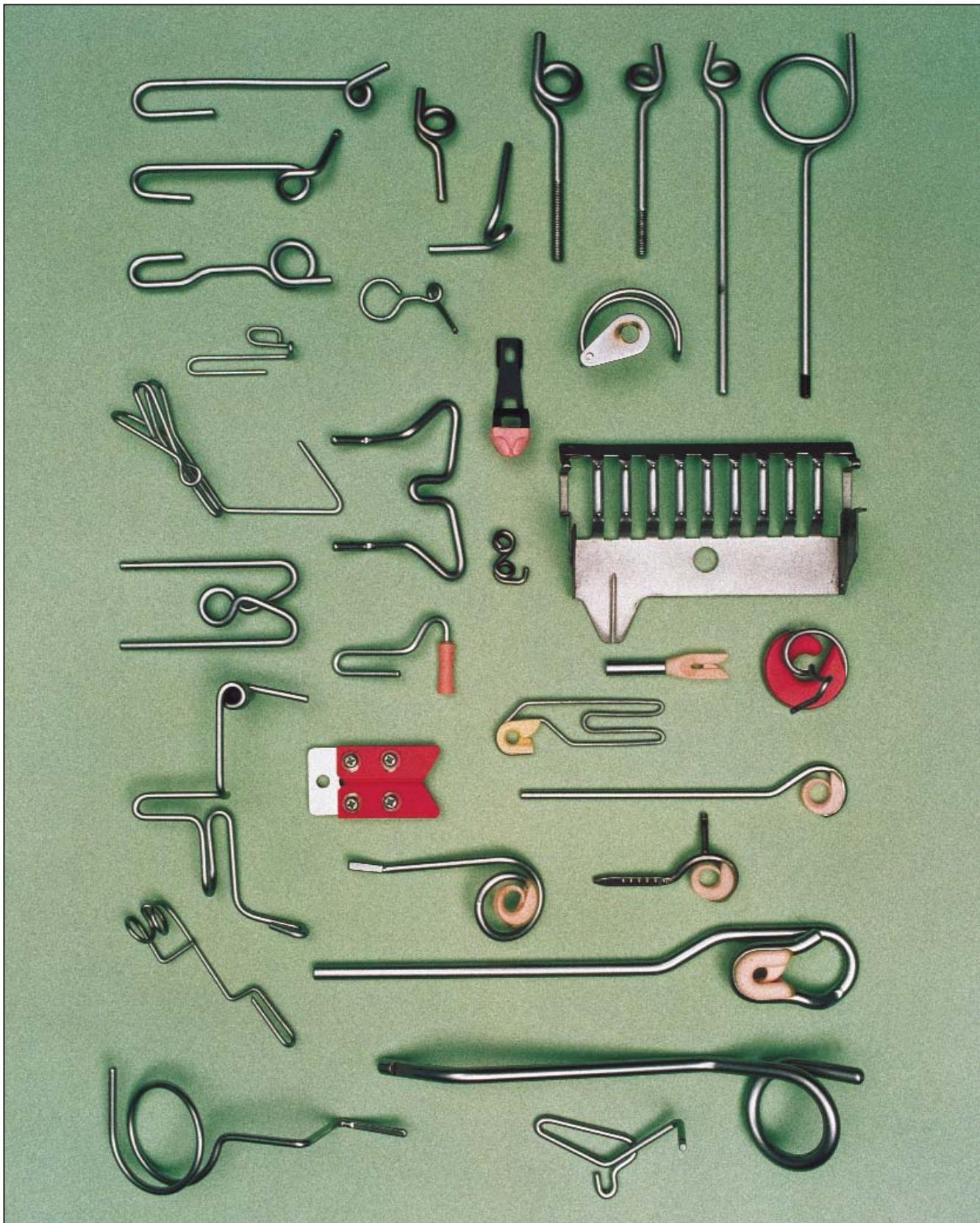
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TENSIONERS



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