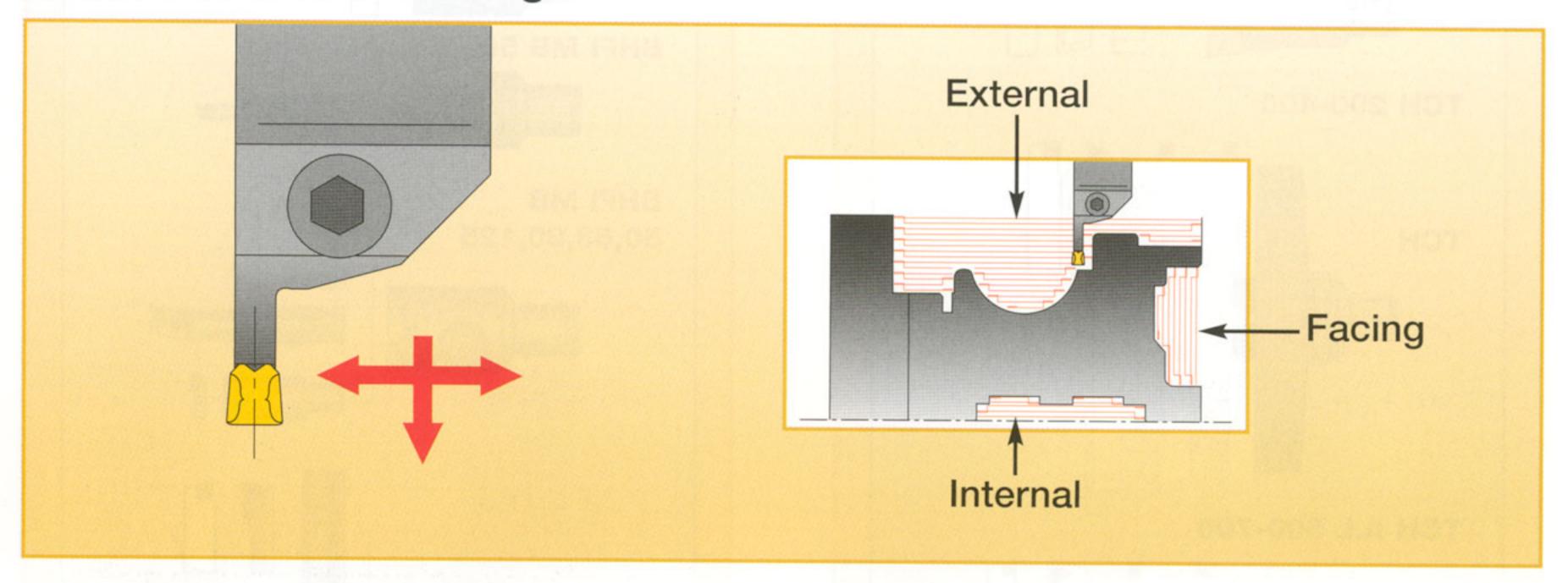
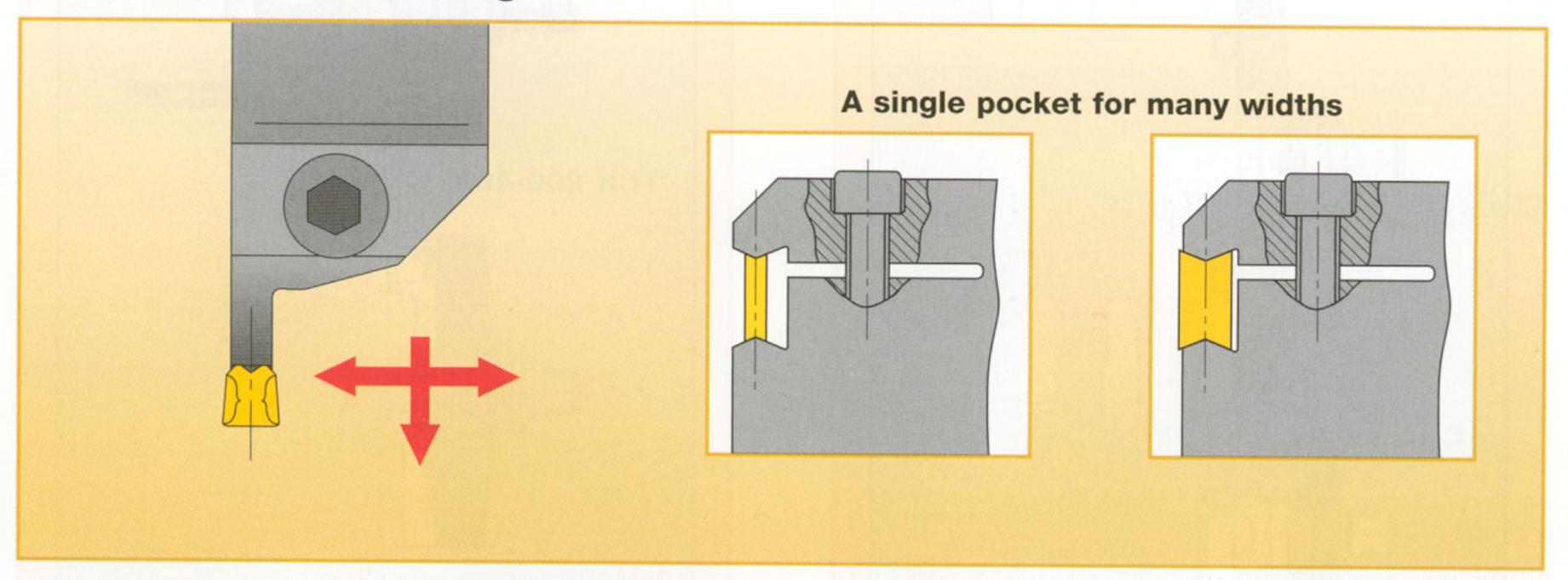


# **Groove-Turn Systems**

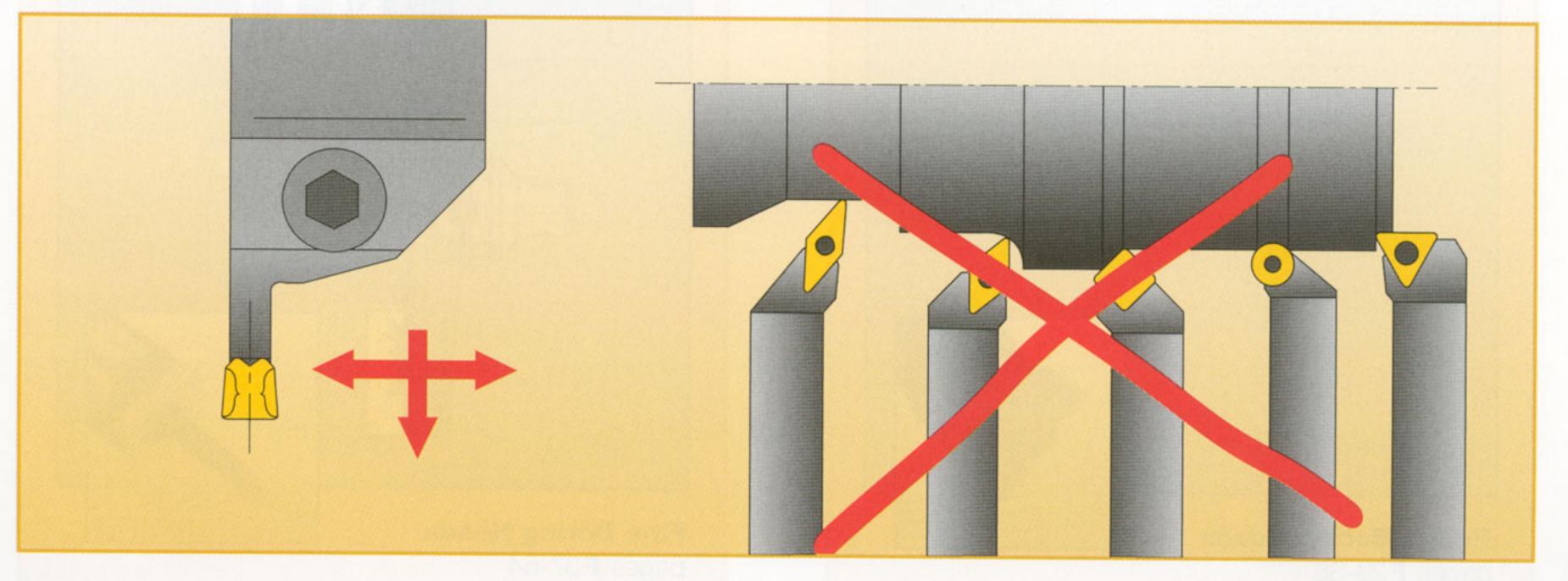
# **Multi-Directional Turning**

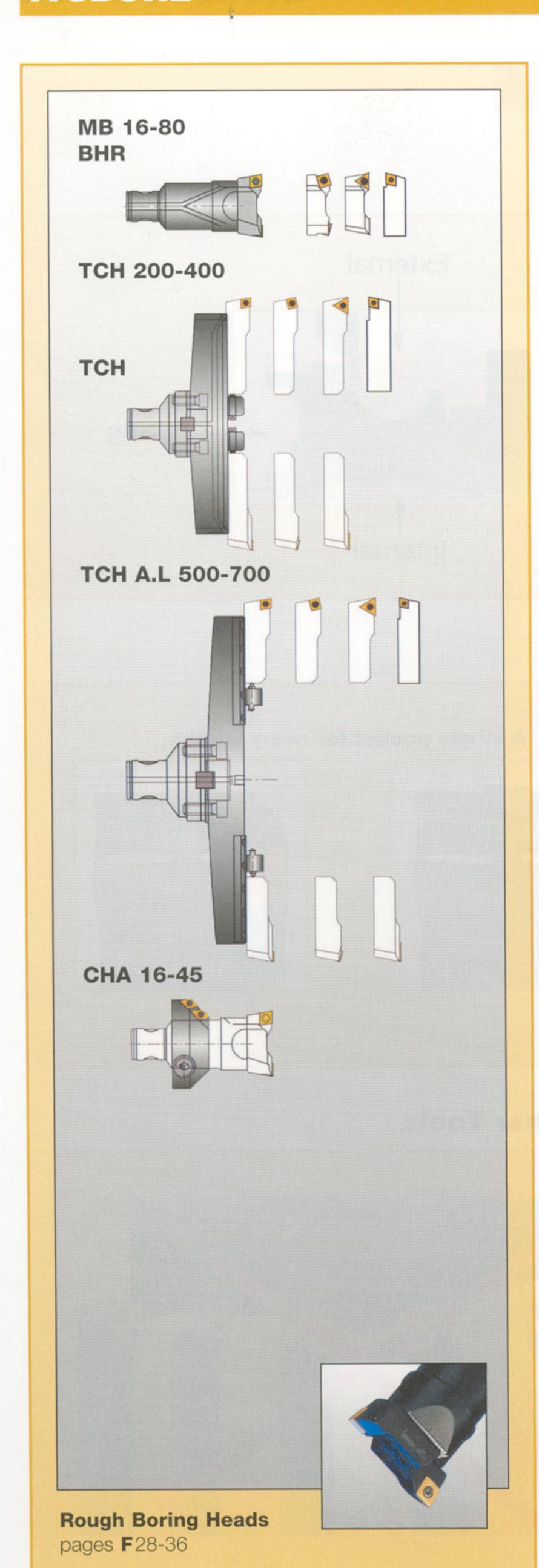


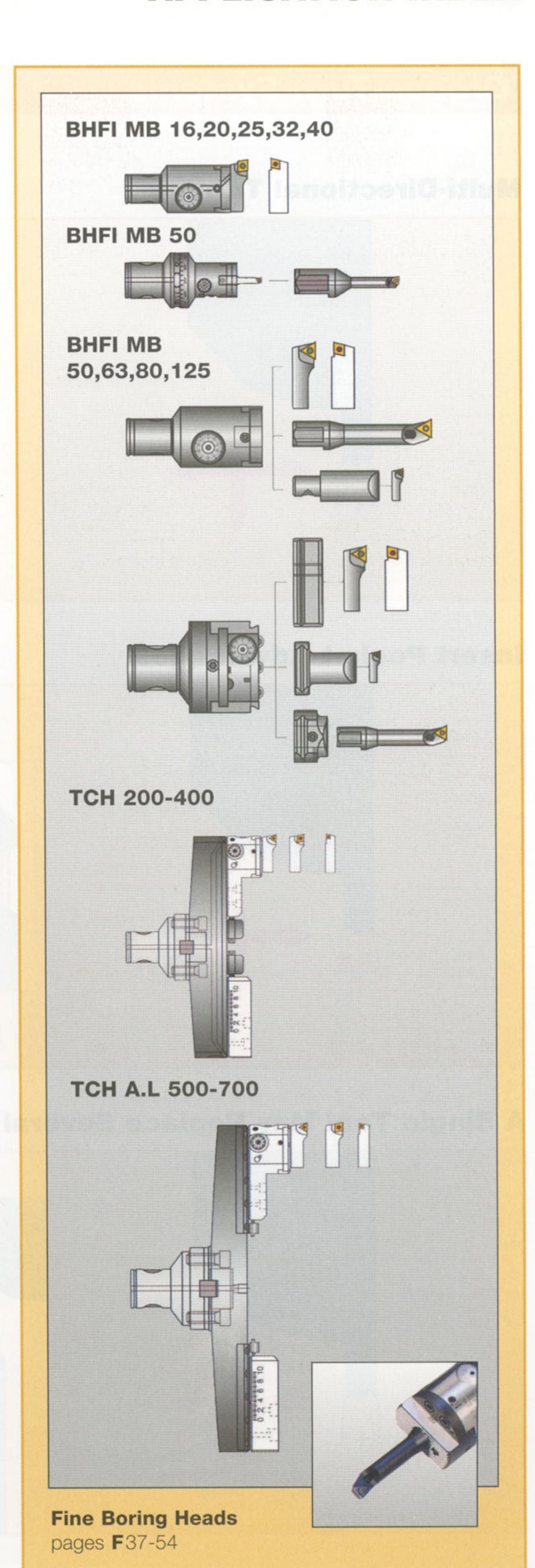
# **Insert Pocket Advantages**



# A Single Tool May Replace Several Other Tools



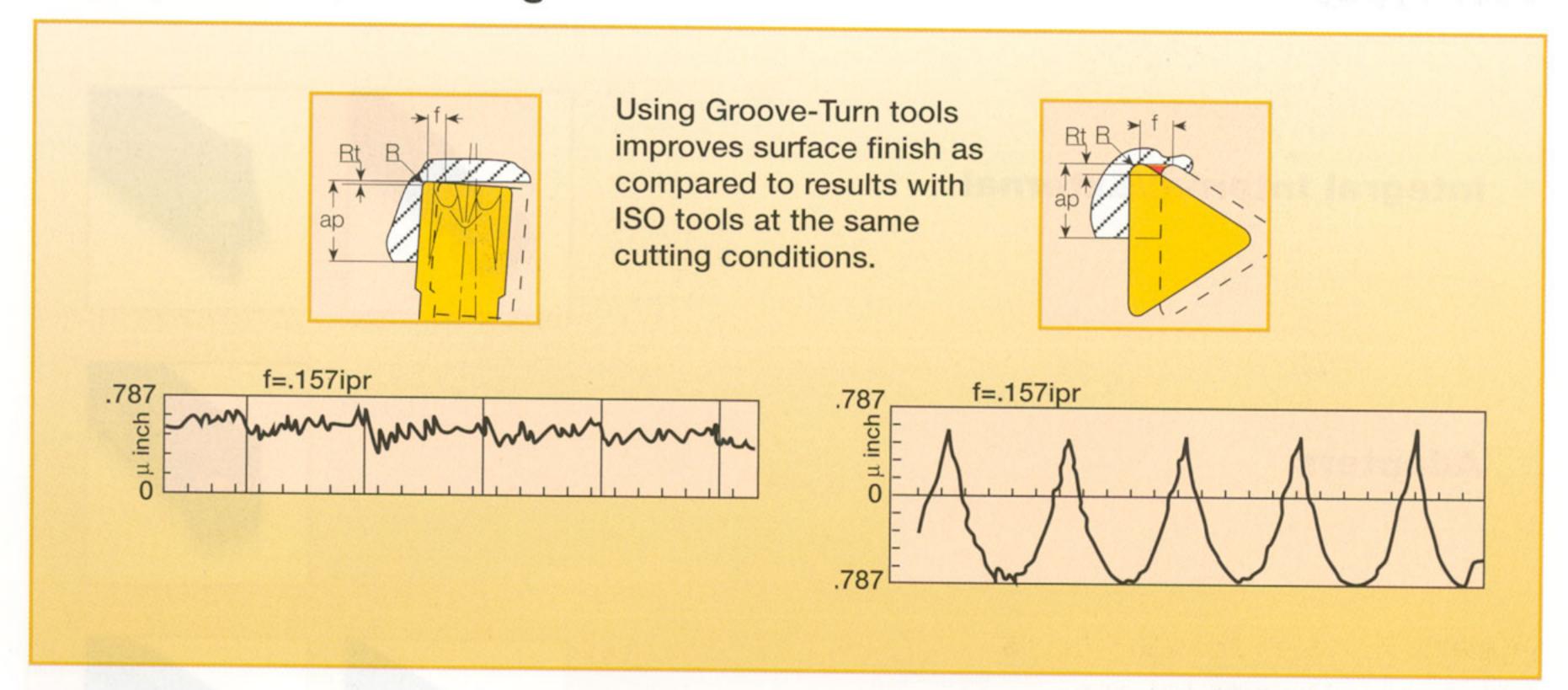




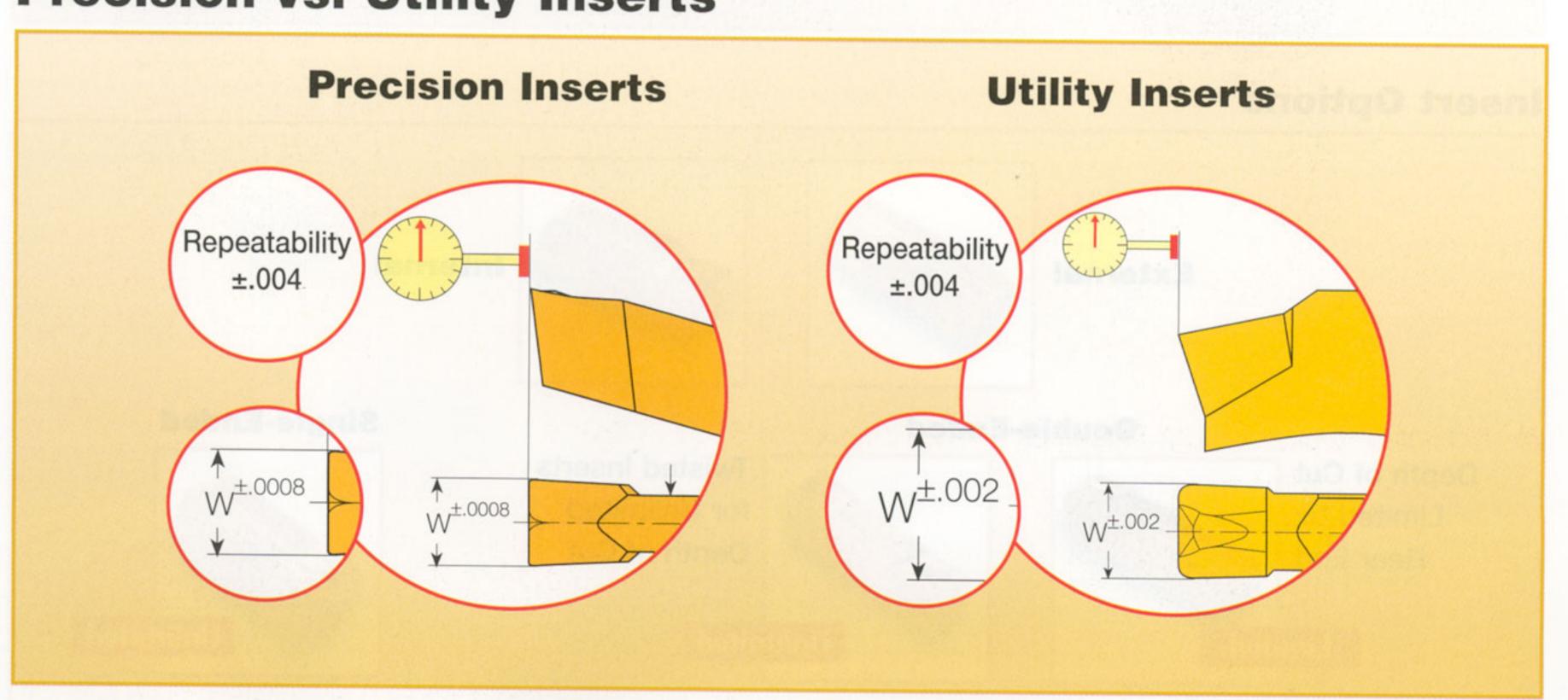


# **Groove-Turn Systems**

# **Surface Finish Advantage**



# Precision vs. Utility Inserts



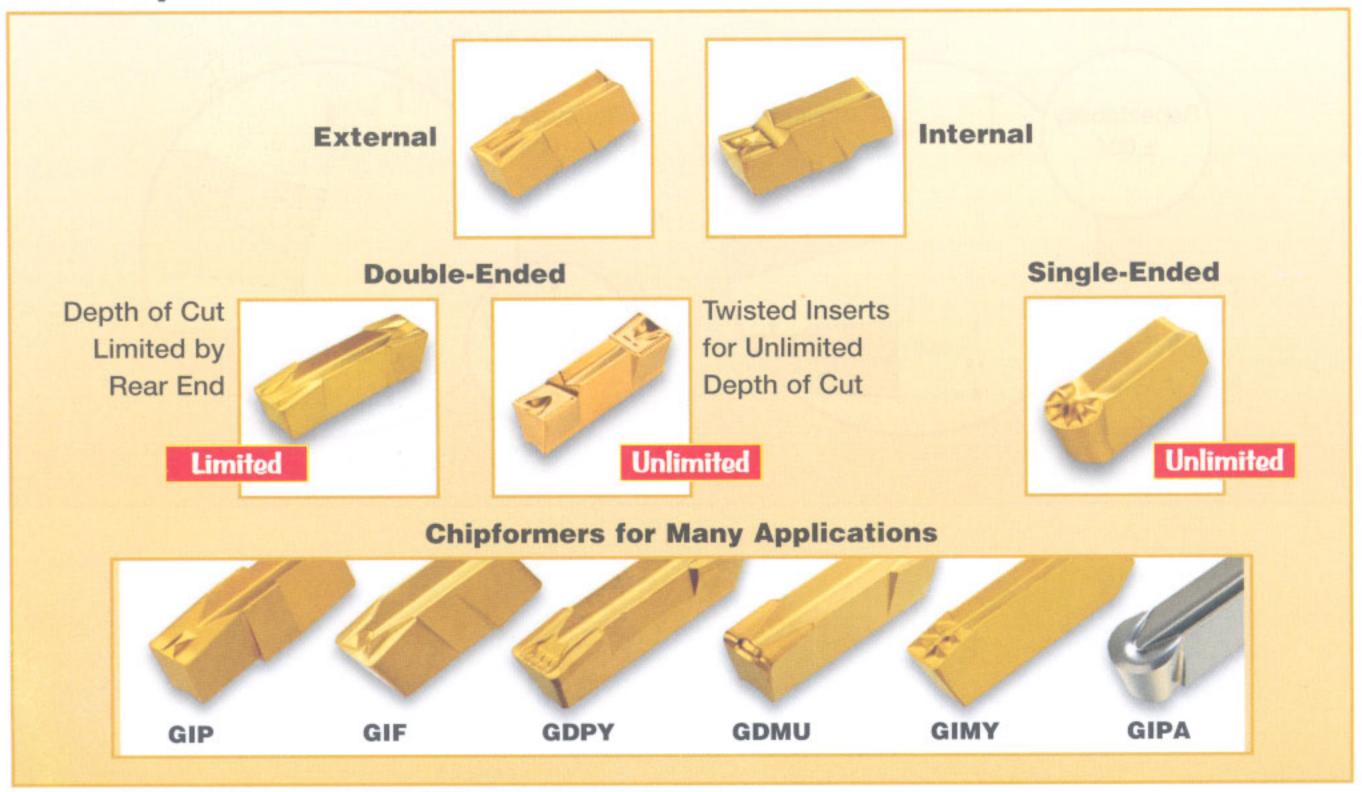


# **GRIP System**

#### **Tool Types**



#### **Insert Options**



#### INTRODUCTION

### **Groove-Turn - Clamping Systems**

## DO-GRIP First choice for parting Double-ended insert Self clamped for deep grooving and large diameters WIRST CHOICE Screw clamped for small diameters SELF-See also **HELIGRIP**, page B7 CLAMPED **SCREW-CLAMPED** SELF-GRIP F-Type Single-ended insert For deep grooving and large diameters With a stopper for high radial accuracy F-TYPE SELF-GRIP F-Type \_\_\_\_ Single-ended insert The original SELF-GRIP design T-TYPE CUT-GRIP\_\_\_ Single-ended insert Self- and screw-clamped options SCREW-**CLAMPED** SELF-CLAMPED PENTACUT\_ 5 cutting edges Fast edge indexing For shallow grooving and up to .511" parting diameter

## SWISSCUT

- Double-ended insert
- Two clamping options
- For shallow grooving and parting small diameter parts up to .472"

see page B10



**SWISSCUT** 

PENTACUT



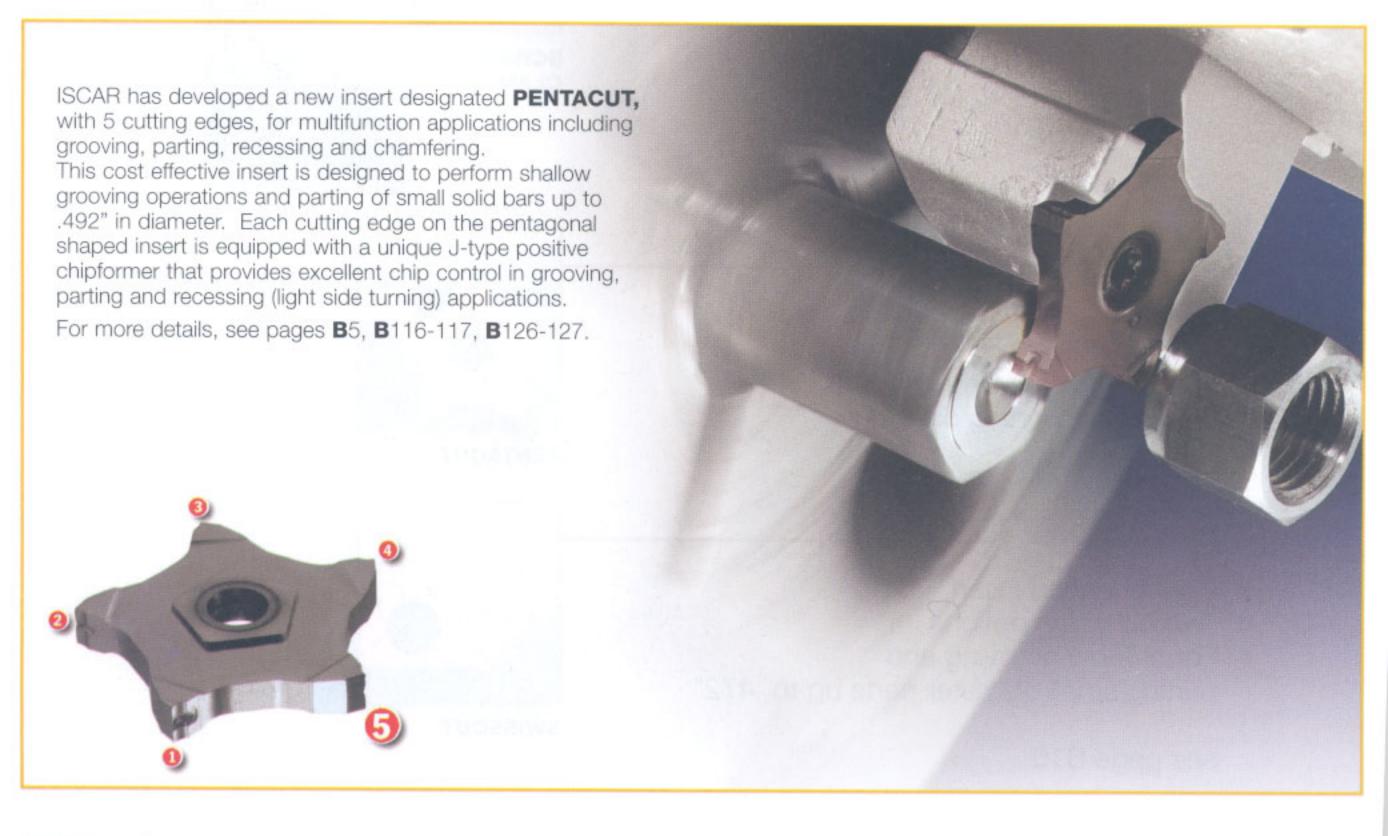
### **Grooving and Turning**

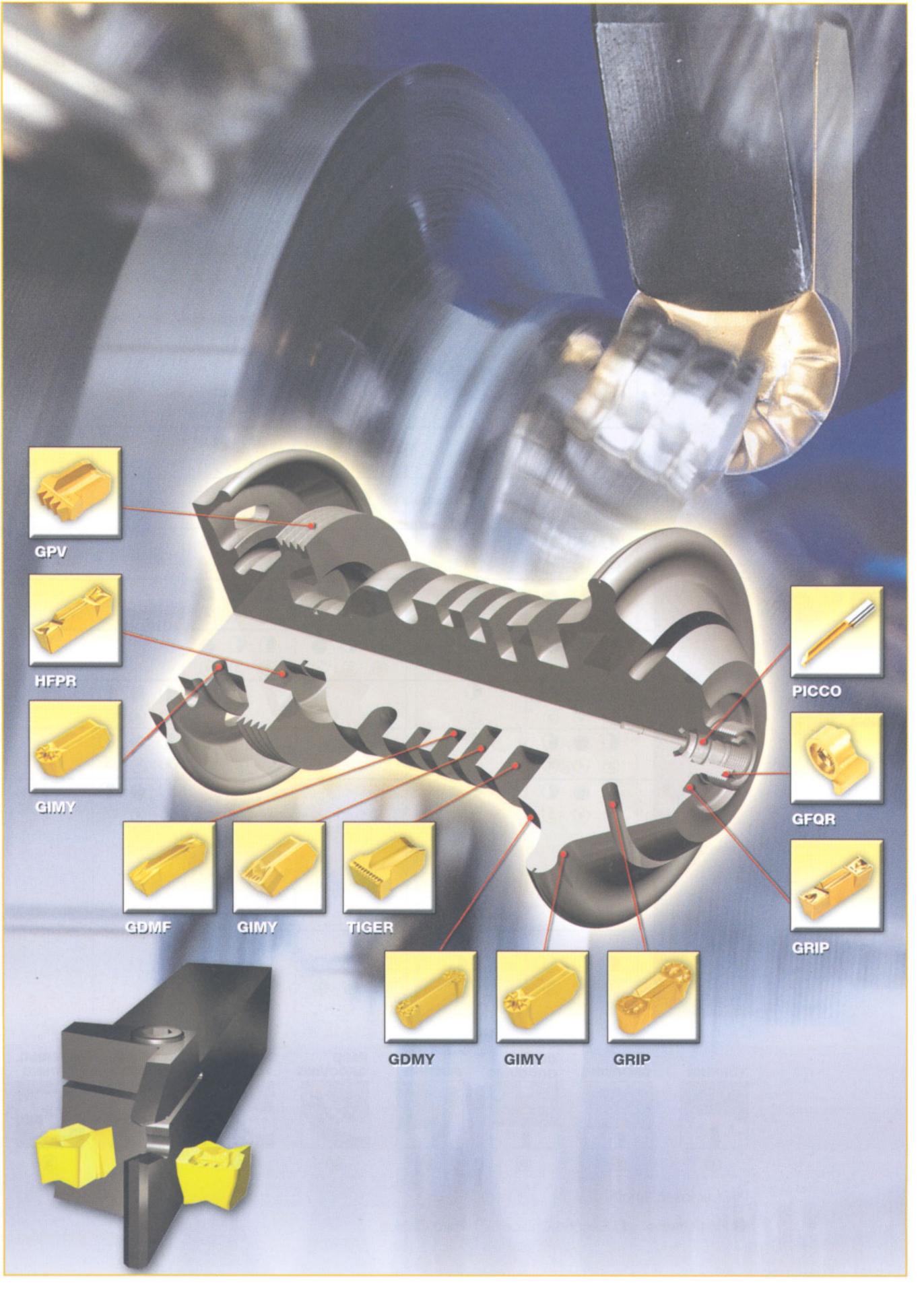
### MODULAR-GRIP



## **Parting and Grooving**

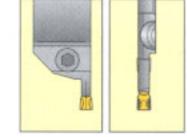
## PENTACUT





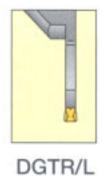


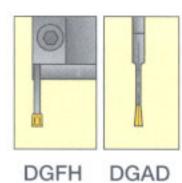
**Choosing the Right Tool** with the Right **Double-Ended Twisted Insert** 



HELIR/L HGPAD

HELIIR/L







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**DO-GRIP** 

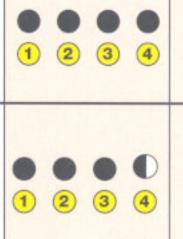


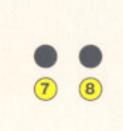




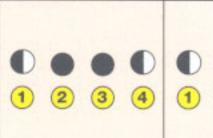
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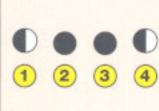
GRIP	GRIP/HGPL	
HELI-	GRIP/HGPL 9 9 11 &	





















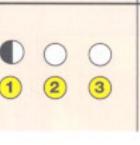


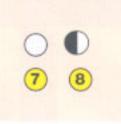
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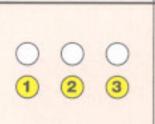








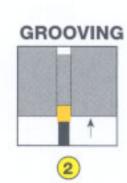








TURNING

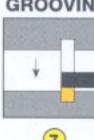










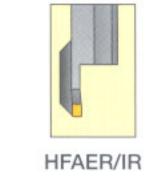


(1) Over insert length

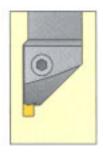
















HR HFI

HFIR-MC

HFHPR-M

HFHR-M

HGAER-IR

HFPAD

# HELIFACE

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#### INTRODUCTION

## **The PASSPORT System**

This is your passport to enter the new world of small diameter, internal turning. ISCAR has designed a new concept in tool holding. Now, a single bushing toolholder can hold a full set of carbide shank boring bars capable of grooving, turning, threading, profiling and recessing.

ISCAR also provides you with VISAS for cost reductions.

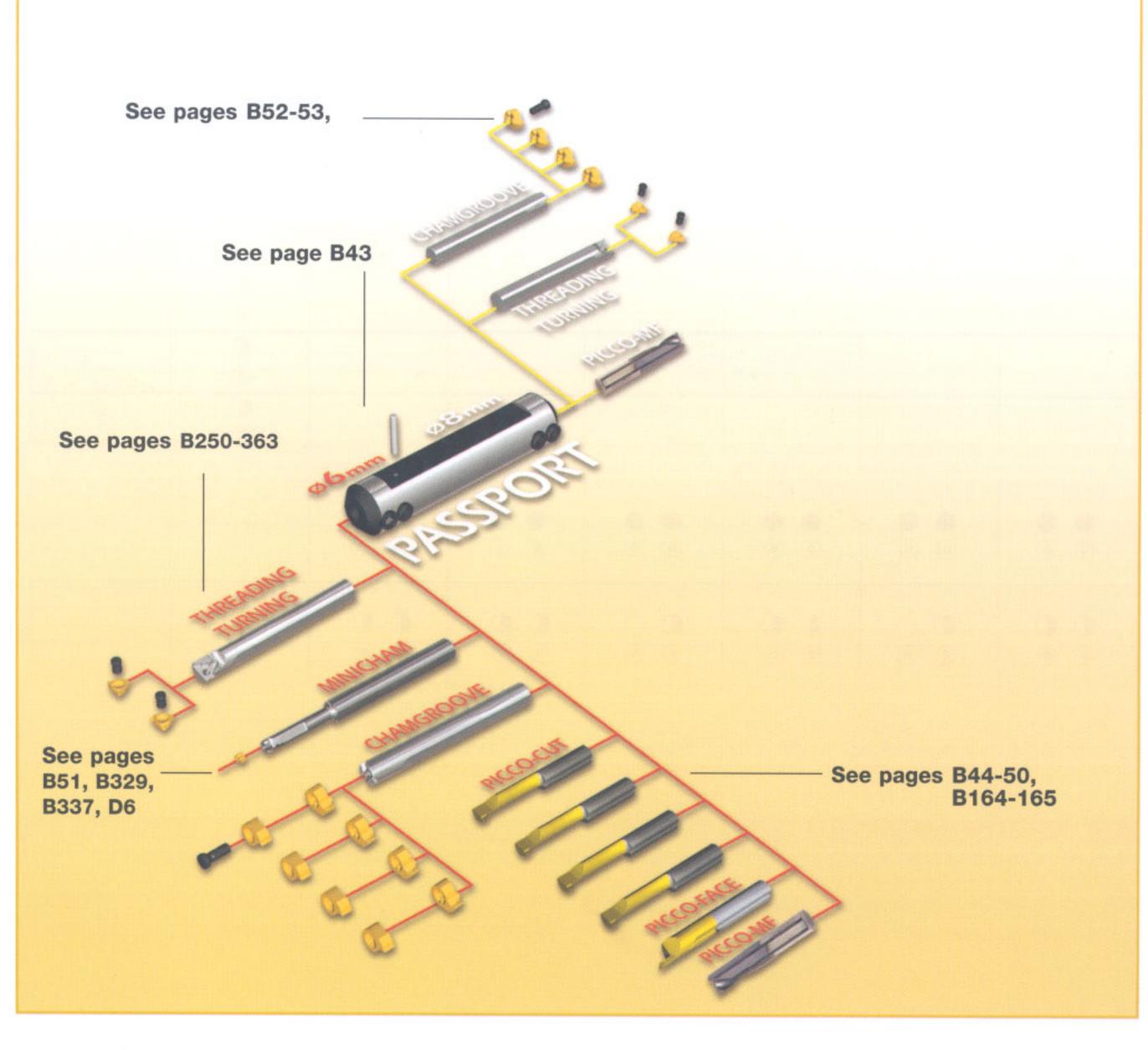
The carbide shanks provide excellent rigidity and a high length-to-diameter (L/D) ratio.

This allows the boring bar overhang to be adjusted to the best rigidity for each job.

The new bushing holders incorporate special stoppers, useful in many applications with ISCAR's CHAMGROOVE system and PICCO bars. Utilizing the

stoppers eliminates resetting the tool after every indexing.

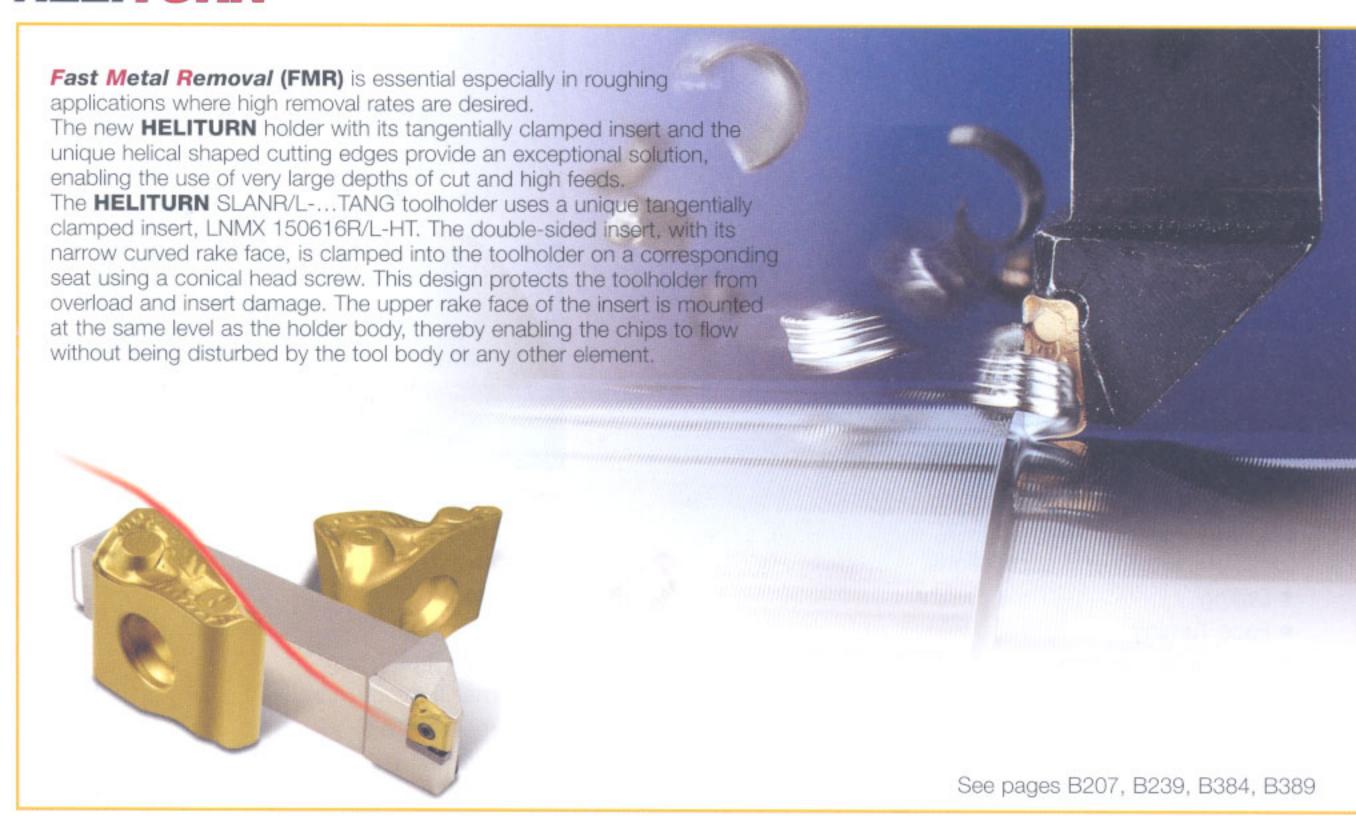
This new, versatile system replaces many expensive boring bars needed to perform the variety of applications now possible with this single bushing holder.



### INTRODUCTION

## **Heavy Duty Turning**

### HELITURN



#### FEEDTURN

