

# ***TYSON TOOL***®

NEW FROM  
TYSON TOOL;  
MAXICOOL™,  
A LINE OF  
FACE MILLS  
AND COOLANT  
THROUGH SHELL  
MILL ARBORS TO  
GIVE THROUGH  
SPINDLE  
COOLANT TO  
THE INSERT.

MAXIMIZE  
CUTTING  
PARAMETERS!

MAXIMIZE  
INSERT LIFE!

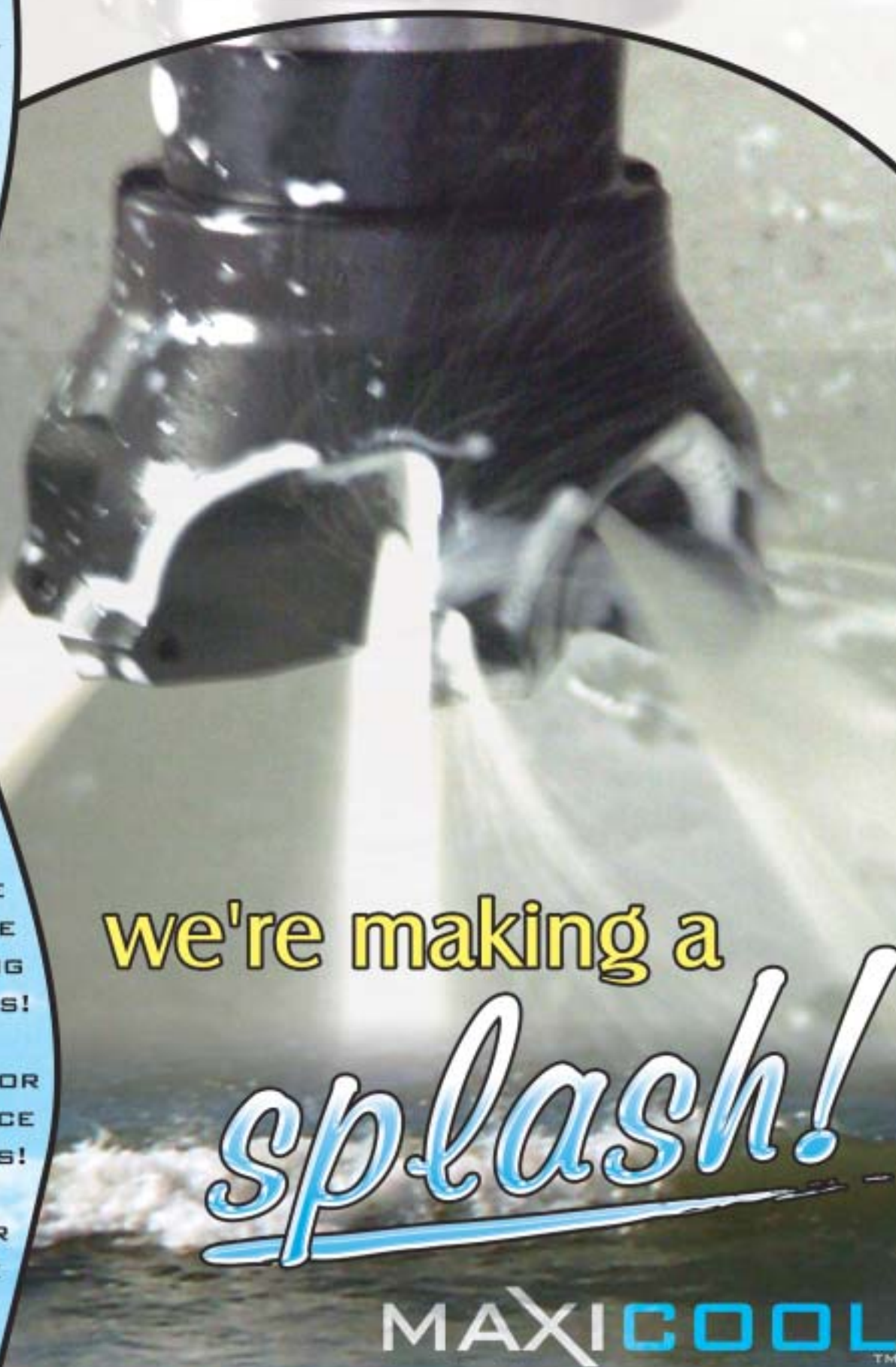
MAXIMIZE  
PROFITS!

MINIMIZE  
THERMAL  
SHOCK!

MINIMIZE  
POSSIBLE  
RE-CUTTING  
OF CHIPS!

SUPERIOR  
SURFACE  
FINISHES!

MAXICOOL™, YOUR  
FIRST CHOICE  
FOR MAXIMUM  
PERFORMANCE.



we're making a  
*splash!*

MAXICOOL™

# MAXICOOL™ Coolant Through Shell Mill Arbors

Put out the fire compromising your milling operations and boost your productivity and profitability with MAXICOOL™ only from TYSON TOOL.

## Why MaxiCool™?

Temperatures generated in the “cutting zone” (the area between the workpiece and the cutter) can be extremely high. These high temperatures typically cause rapid breakdown of the insert edge.

If coolant is applied as “flood” or “stream” thermal shock can occur as the insert heats and cools rapidly, reducing the life of the insert.

By applying MaxiCool™, coolant is delivered directly to the insert edge, thereby minimizing thermal shock and prolonging insert life.

Tyson Tool has developed a line of coolant through shell mill arbors and milling cutters to put an end to this fire burning into your profits. MaxiCool™ offers through the spindle coolant delivery, right to the insert edge, or “cutting zone”.

## Features:

- coolant through shell mill arbors in BT40, CV40 and CV50 tapers.
- milling cutters with large coolant holes, directed at insert edge to provide generous coolant pressure and volume, “in the cutting zone”
- 10 MaxiCool™ enabled milling cutter styles to cover all application needs

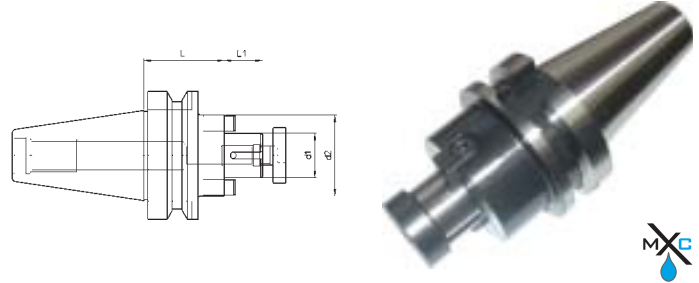
## Benefits:

*effectively cools insert giving:*

- increased tool life
- increased cutting parameters
- minimized risk of re-cutting chips
- minimized risk of thermal shock
- superior surface finish

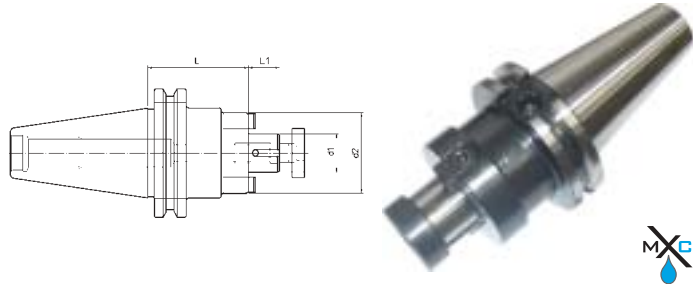
**BOOST YOUR PRODUCTIVITY  
and PROFITABILITY TODAY!**  
with **MAXICOOL™**  
from **TYSON TOOL**

## BT40 Coolant Through Arbors



Designation	d <sup>1</sup>	d <sup>2</sup>	L	L <sup>1</sup>	kg
BT40SM-0750-2.00	3/4	1.57	2.00	.68	0.7
BT40SM-1000-2.00	1.00	1.96	2.00	.68	0.9
BT40SM-1250-2.17	1-1/4	2.36	2.17	.68	1.5

## CV40 Coolant Through Arbors



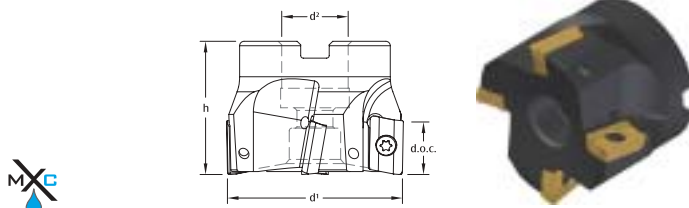
Designation	d <sup>1</sup>	d <sup>2</sup>	L	L <sup>1</sup>	kg
CV40SM-0750-2.00	3/4	1.57	2.00	.68	0.7
CV40SM-0750-4.00			4.00		0.9
CV40SM-1000-2.00	1.00	1.96	2.00	.68	0.9
CV40SM-1000-4.00			4.00		1.2
CV40SM-1250-2.17	1-1/4	2.36	2.17	.68	1.5
CV40SM-1250-2.25			2.25		1.5
CV40SM-1250-4.00			4.00		1.8
CV40SM-1500-2.25	1-1/2	2.75	2.25	.94	2.6
CV40SM-1500-4.00			4.00		2.9

## CV50 Coolant Through Arbors

Designation	d <sup>1</sup>	d <sup>2</sup>	L	L <sup>1</sup>	kg
CV50SM-0750-2.00	3/4	1.57	2.00	.68	2.3
CV50SM-0750-4.00			4.00		2.8
CV50SM-0750-6.00			6.00		4.5
CV50SM-1000-2.00	1.00	1.96	2.00	.68	2.5
CV50SM-1000-4.00			4.00		3.1
CV50SM-1000-6.00			6.00		5.5
CV50SM-1250-2.17	1-1/4	2.36	2.17	.68	2.9
CV50SM-1250-2.25			2.25		3.4
CV50SM-1250-4.00			4.00		4.0
CV50SM-1250-6.00			6.00		6.5
CV50SM-1500-2.25	1-1/2	2.75	2.25	.94	3.8
CV50SM-1500-4.00			4.00		4.3
CV50SM-1500-6.00			6.00		7.5

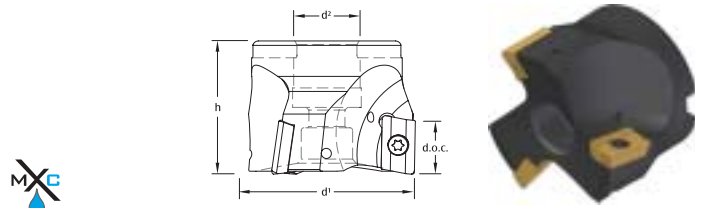
# MAXICOOL™ Coolant Through Face Mills

## TX90 High Productivity Face Mills



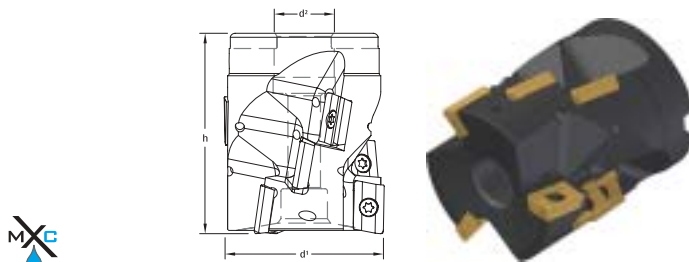
Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	flutes	kg
Insert:		222.79.400 / .500 / .510 / .564				
TXP90-2000-MC	2.000	.750	1.50	.55	4	.30
TXP90-2500-MC	2.500	1.000	1.75	.55	5	.60
TXP90-3000-MC	3.000	1.000	2.00	.55	6	1.00
TXP90-4000-MC	4.000	1.250	2.00	.55	7	1.45
Spare Parts: insert screw: 214.80.388 / wrench: 214.80.012 (f/t)						

## TX90 Face Mills for Aluminum



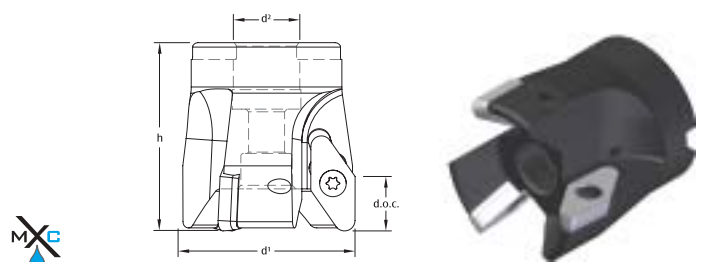
Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	flutes	kg
Insert:		222.79.400 / .500 / .510 / .550 / .564				
TXP90-2000AL-3-MC	2.000	.750	1.50	.55	3	.30
TXP90-2500AL-3-MC	2.500	1.000	2.00	.55	3	.50
TXP90-3000AL-3-MC	3.000	1.000	2.00	.55	3	.85
TXP90-4000AL-4-MC	4.000	1.250	2.00	.55	4	1.30
Spare Parts: insert screw: 214.80.388 / wrench: 214.80.012 (f/t)						

## THXP90 Helical Shell Mills



Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	flutes	inserts
Insert:		222.79.400 / .500 / .510 / .550 / .564				
THXP90-2000-MC	2.000	.750	2.00	1.17	3	6
THXP90-2000L-MC	2.000	.750	2.50	1.65	3	9
THXP90-2500-MC	2.500	1.000	2.50	1.65	3	9
THXP90-2500L-MC	2.500	1.000	3.00	2.13	3	12
THXP90-3000-MC	3.000	1.250	3.00	2.25	4	16
Spare Parts: insert screw: 214.80.558 / wrench: 214.80.012 (f/t)						

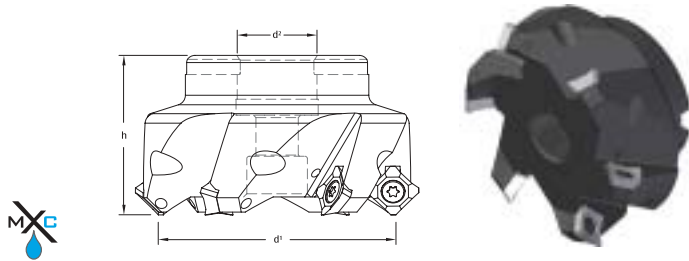
## TV90 Face Mills for Aluminum



Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	plunge	flutes
Insert:		VPGT-333-ALM / VPGT-33 PPR-ALM*				
TVP90-2000-MC	2.000	.750	2.12	.53	.250	4
Spare Parts: insert screw: LF-51706 / wrench: 214.80.012 (f/t)						
Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	plunge	flutes
Insert:		VCGT-43.58-ALM				
TVC90-2000-MC	2.000	.750	2.12	.59	.300	3
TVC90-2500-MC	2.500	1.000	2.12	.59	.300	4
TVC90-3000-MC	3.000	1.000	2.12	.59	.300	5
Spare Parts: insert screw: C-1250 / wrench: 214.80.076 (f/t)						

To provide necessary clearance when using VPGT-33 PPR-ALM inserts, the cutter body must be relieved

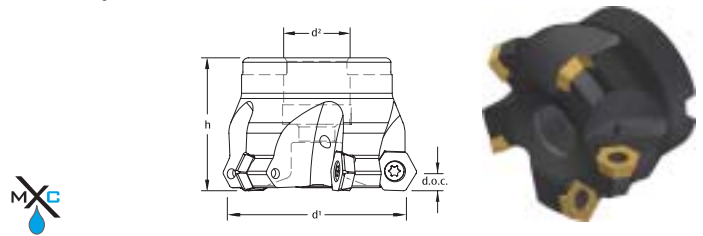
## TS45F High Shear Face Mills



Designation	d <sup>1</sup>	d <sup>2</sup>	h	flutes	kg
Insert:		SEHT-43 / SEHW-43 / SEKT-43 / SEKW-43			
TS45F-20SE43X-MC	2.000	.750	1.75	4	.50
TS45F-25SE43X-MC	2.500	1.000	2.00	5	.90
TS45F-30SE43X-MC	3.000	1.000	2.00	6	1.20
TS45F-40SE43X-MC	4.000	1.250	2.00	7	1.60
Spare Parts: insert screw: 214.80.072 / wrench: 214.80.016 (f/t)					

## THP60 Face Mills

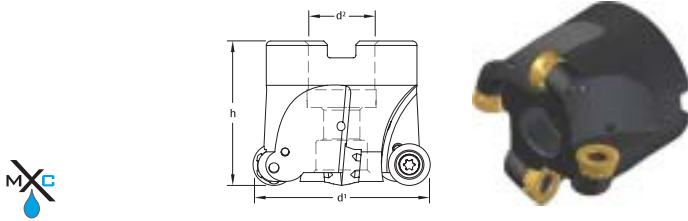
(available June 2005)



Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	flutes	kg
Insert:		HPGT-06T3DZER-LD				
THP60-2000-MC	2.000	.750	1.500	.18	5	.50
THP60-2500-MC	2.500	1.000	1.750	.18	6	.90
THP60-3000-MC	3.000	1.000	2.000	.18	7	1.20
THP60-4000-MC	4.000	1.250	2.000	.18	9	1.60
Spare Parts: insert screw: 214.80.388 / wrench: 214.80.012 (f/t)						

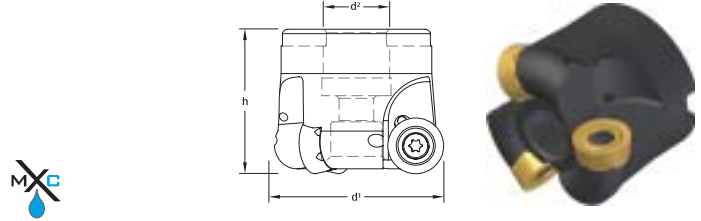
# MAXICOOL™ Coolant Through Face Mills

## TR360 Copy Mills using 15° Positive Inserts



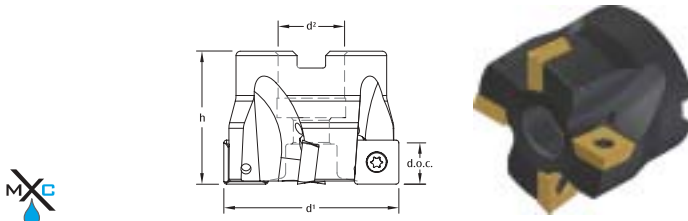
Designation	d <sup>1</sup>	d <sup>2</sup>	h	flutes	kg
Insert: RDMT / RDMW / RDHT -1204MOT-X					
TR360-2RD12-MC	2.000	.750	1.63	4	.30
TR360-2RD12F-MC	2.000	.750	1.63	5	.30
TR360-2.5RD12F-MC	2.500	1.000	1.75	6	.55
TR360-3RD12F-MC	3.000	1.000	2.00	7	.90
Spare Parts: insert screw: 214.80.388 / wrench: 214.80.012 (f/t)					
Designation	d <sup>1</sup>	d <sup>2</sup>	h	flutes	kg
Insert: RDMT / RDMW / RDHT -1605MOT-X					
TR360-2RD16-MC	2.000	.750	1.63	3	.25
TR360-2.5RD16-MC	2.500	1.000	1.75	4	.50
TR360-3RD16-MC	3.000	1.000	2.00	5	.75
Spare Parts: insert screw: 214.80.072 / wrench: 214.80.076 (f/t)					

## TR360 Copy Mills using 7° Positive Inserts



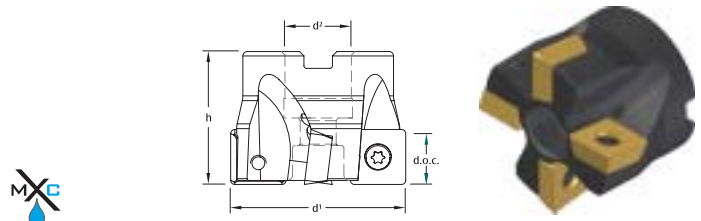
Designation	d <sup>1</sup>	d <sup>2</sup>	h	flutes	kg
Insert: RCMT-1606MOT-X / RCMT-1606MO-43M					
TR360-2RC16-MC	2.000	.750	1.63	3	.30
TR360-2RC16F-MC	2.000	.750	1.63	4	.30
TR360-2.5RC16-MC	2.500	1.000	1.75	4	.50
TR360-3RC16-MC	3.000	1.000	2.00	5	.80
TR360-3RC16X-MC	3.000	1.250	2.00	5	.80
Spare Parts: insert screw: 214.80.072 / wrench: 214.80.076 (f/t)					

## TS90 Square Shoulder Face Mills using 1/2" I.C. Inserts



Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	flutes	kg
Insert: SDMT-1204 PDR						
TS90-2SD4-MC	2.000	.750	1.50	.40	4	.25
TS90-2.5SD4-MC	2.500	1.000	1.75	.40	5	.45
TS90-3SD4-MC	3.000	1.000	2.00	.40	6	.90
Spare Parts: insert screw: 214.80.388 / wrench: 214.80.012 (f/t)						

## TS90 Square Shoulder Face Mills using 5/8" I.C. Inserts



Designation	d <sup>1</sup>	d <sup>2</sup>	h	d.o.c.	flutes	kg
Insert: SDMT-1506 PDR						
TS90-2SD5-MC	2.000	.750	1.50	.50	4	.25
TS90-2.5SD5-MC	2.500	1.000	1.75	.50	5	.45
TS90-3SD5-MC	3.000	1.000	2.00	.50	6	.90
Spare Parts: insert screw: 214.80.073 / wrench: 214.80.076 (f/t)						

for insert selection, please see current Tyson Milling Catalogue

# TYSON TOOL

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